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# WALLINGFORD ELEMENTARY SCHOOL

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## Retro-Commissioning Report

Prepared By: David-Christopher Mychaluk and Daniel Hainey  
Inspection Period: 1/4/24 – 1/23/24  
Report completed: 2/19/2024



### Systems Inspected:

Page 2: Building Automation System

Page 3: Hot Water Plant

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## Wallingford Elementary Building Summary

Wallingford Elementary School was originally constructed in 1902 and rebuilt in 1931 following a fire. The 1931 building has gone under significant expansion and renovation several times since its construction. The most recent occurred in 2012, the design was completed by GKO Architects modernizing the structure and providing an additional 57,000 square feet of new instructional space. Primary systems include a hot water plant, Closed water loop heat pump plant, rooftop air handling units, water source heat pumps and a kitchen makeup air unit.

## Building Automation System Summary

The building automation system consists of two primary systems installed during the 2012 construction. Honeywell Excel 5000 series controllers are installed in all rooftop air handling units and plant controllers. Honeywell Excel 10 controllers are installed in unitary heaters, variable air volume boxes, and exhaust fans. Johnson Controls FX 10 controllers are installed in all water source heat pumps. The existing controls are currently being integrated to the district wide Niagara server that provides graphics, alarming, trending, and restricted remote access.

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# HOT WATER PLANT

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## Application

Primary Variable Volume Hot Water, Secondary Variable Volume Hot Water, Electronic Controls

## Approximate Equipment Age

12 years

## Approximate Quantity

2 boilers, 2 primary hot water pumps, 2 secondary hot water pumps

## Areas Served

Entire building, Water source heat pump loop



## Equipment and Controls Expectations

The hot water plant provides and distributes hot water to hot water heating coils throughout the building. Equipment is staged such that the minimum number of boilers and pumps are running at variable speed to satisfy the overall building hot water demand. A differential pressure sensor is used as a controlling source for pump speed control maintaining an adjustable setpoint. A heat exchanger for the heat pump loop is fed hot water to maintain desired heat exchanger setpoint. Equipment is rotated (lead and lag) to equalize runtimes. Alarms are generated upon equipment failure or inability to maintain a temperature setpoint. The lag equipment assumes operation upon failure of a lead equipment (boiler or pump).

## Observations

Refer to BlueRithm Issues log for a complete list of observations.

## Recommendations

Refer to BlueRithm Issues log for a complete list of recommendations.

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# CLOSED WATER LOOP HEAT PUMP PLANT

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## Application

Variable Volume Condenser water, Electronic Controls

## Approximate Equipment Age

12 years

## Approximate Quantity

2 condenser water pumps, 1 Cooling Tower, 1 Heat Exchanger

## Areas Served

Water Source Heat Pump Loop, Rooftop Units



## Equipment and Controls Expectations

The closed water loop heat pump plant provides and distributes conditioned condenser water to rooftop units and water source heat pumps located throughout the building. The plant is enabled continuously, with pump speed modulating to meet a differential pressure setpoint. The system maintains a condenser water supply temperature setpoint, utilizing several control valves that direct water flow through a heat exchanger and cooling tower when required. Equipment is staged such that the minimum number of pumps are running to satisfy the overall building condenser water demand. Pumps are rotated (lead and lag) to equalize runtimes. Alarms are generated upon a pump failure, or equipment inability to maintain setpoints. The lag pump assumes operation upon failure of the lead pump.

## Observations

The cooling tower was found to be in poor condition with scale buildup on cells and extensive rust found in the fan section. The plant in general is maintaining the loop temperature though the control loops are running erratically. Refer to BlueRithm Issues log for a complete list of observations.

## Recommendations

Replacement of the cooling tower and existing Honeywell controllers is recommended to extend the useful life of the plant. Refer to BlueRithm Issues log for a complete list of recommendations.

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# ROOFTOP AIR HANDLING UNITS

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## Application

Variable Volume Supply Air Fan, Variable Volume Exhaust Air Fan, Water conditioned heat pump, Hot Gas Reheat, Economizer, Heat Recovery Wheel, Electronic Controls

## Approximate Equipment Age

12 years

## Approximate Quantity

8

## Areas Served

Gymnasium, Auditorium, Cafeteria, Administration, Library

## Equipment and Controls Expectations

The rooftop air handling unit provides heating, cooling, dehumidification, outside air ventilation and heat recovery for the space it serves. The supply fan modulates fan speed to maintain supply air duct static pressure setpoint. The exhaust fan modulates fan speed to maintain a space static pressure setpoint. Upon a call for cooling the conditioned water loop isolation valve opens and DX compressors cycle on. When in heating mode a reversing valve is energized in addition to the loop isolation valve and DX compressor command. The DX compressors cycle on and the hot gas bypass valve opens to reheat on a call for dehumidification. The minimum outside air is set to maintain an airflow target set during test and balancing of the system. Outside air increases upon a call for cooling, if outside air conditions are favorable (economizer cooling), maintaining a low limit temperature. Outside air increases in similar sequence upon high space CO<sub>2</sub> concentrations. When outside air is introduced, and air is exhausted the heat recovery wheel is engaged and will run while conditions are favorable. The outside air damper, exhaust damper, DX compressors, supply fan, exhaust fan and heat recovery wheel, close or shut down when the space is unoccupied. The unit cycles in heating, cooling, or dehumidification to maintain a minimum and a maximum space temperature and a maximum space humidity when the space is unoccupied. Alarms are generated upon equipment failure or the inability to maintain a desired setpoint. Unit shuts down upon active fire alarm or smoke detection.

## Observations

Rooftop air handling units are operational with each needing miscellaneous repairs or maintenance. The existing Honeywell Excel 5000 controllers are not properly controlling equipment served seldom responding to setpoint modification. Refer to BlueRithm Issues log for a complete list of observations.

## Recommendations

Replace all existing Honeywell 5000 controllers and optimize the sequence of operation within new controllers. Refer to BlueRithm Issues log for a complete list of recommendations.

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# WATER SOURCE HEAT PUMPS

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## Application

Constant Volume Supply Air, Water Source Heat Pump (heating and cooling), Water Source Isolation Valve, Electronic Controls

## Approximate Equipment Age

12 years

## Approximate Quantity

34

## Areas Served

Classrooms, MDF closets, Breakrooms



## Equipment and Controls Expectations

The water source heat pump provides heating and cooling by cycling a compressor and reversing valve to maintain a space temperature setpoint. The compressor depends on water circulation from the closed loop water plant. Each unit is outfitted with an isolation valve to stop flow from the plant when not needed, thereby reducing unnecessary pump energy the plant consumes. The heat pump supply fan runs continuously when the space is occupied to assist in this ventilation. Units cycle during unoccupied periods to maintain a minimum heating and a maximum cooling setpoint. Alarms are generated upon equipment failure or the inability to maintain a desired setpoint. The unit shuts down upon active fire alarm or smoke detection.

## Observations

Heat pumps generally found operational with a wide array needing miscellaneous repairs, maintenance, or programming modifications. Though a recent filter change program has been adopted, the evaporator coils are compacted with dirt and debris and require cleaning. The condensate lines require flushing and sanitizing as well. Refer to BlueRithm Issues log for a complete list of observations.

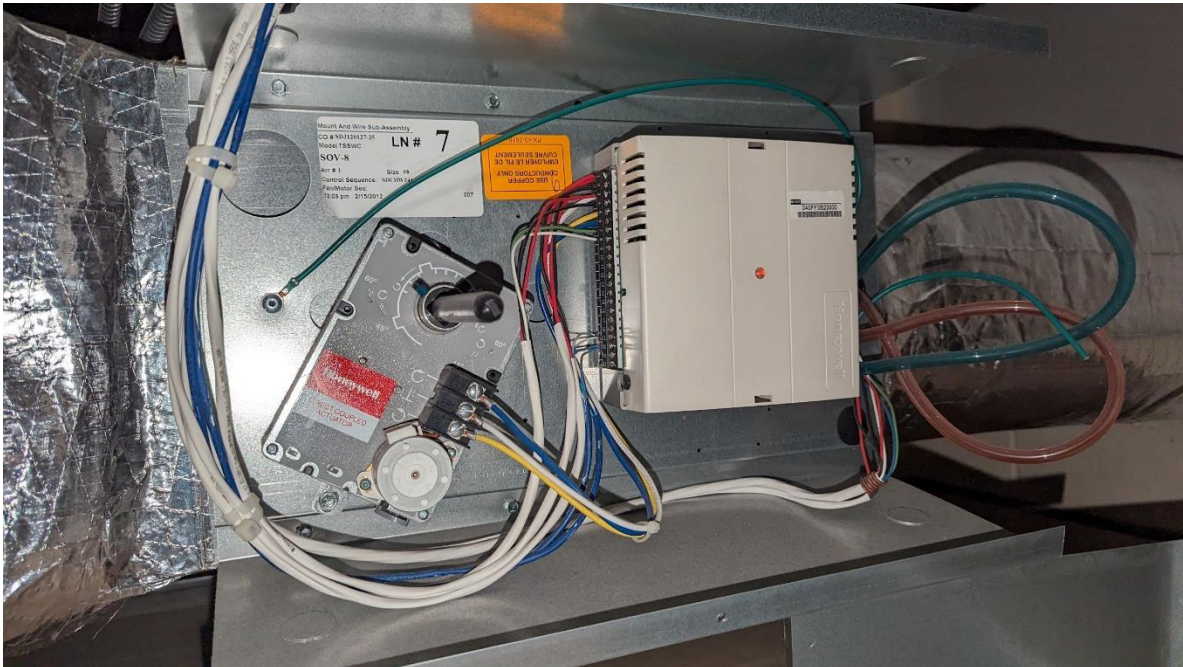
## Recommendations

Complete repairs as needed. Properly maintain and clean units with regular filter changes and coil cleaning. Flush and sanitize all condensate lines and include condensate pan treatment tabs in quarterly preventative maintenance schedule. Refer to BlueRithm Issues log for a complete list of recommendations.

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# VAIRABLE AIR VOLUME UNITS

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## Application

Variable Volume Supply Air, Hydronic heating coil

## Approximate Equipment Age

12 years

## Approximate Quantity

26

## Areas Served

Administrative areas, Group instruction classrooms, Library, Common spaces



### Equipment and Controls Expectations

The variable air volume unit (VAV) identified as Shut-Off Air terminal (SOV) in mechanical drawings, supplies conditioned air provided from the associated rooftop unit. A damper mounted inside the assembly will modulate to maintain a cubic foot per minute (CFM) setpoint. The CFM setpoint will change based on space condition and mode of the VAV. When space temperature is below the heating space temperature setpoint a hydronic heating valve will open to a coil which reheats the supplied air.

### Observations

The devices were functional and able to maintain setpoint. Minor issues exist regarding thumbwheel dial and setpoints. Refer to BlueRithm Issues log for a complete list of observations.

### Recommendations

Annual setpoint alignment should occur on all VAV's. Refer to BlueRithm Issues log for a complete list of recommendations.

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# UNIT HEATERS

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## Application

Constant Volume Supply Air, Hot Water Heating, Electro-Mechanical Controls

## Approximate Equipment Age

12 years

## Approximate Quantity

17

## Areas Served

Corridors, Stairwells, Vestibules, Storage areas



## Equipment and Controls Expectations

The unit heater (Cabinet and hanging) provides heating for the space it serves. It depends on hot water from the boiler plant when in heating mode. The unit utilizes a flush mount sensor to sense space temperature. When a drop in temperature below setpoint occurs a hot water valve shall open and a fan will enable.

## Observations

Cabinet style heaters were found mostly turned off at a rocker switch. This appears to be done due to temperature overshooting setpoint targets overheating the space served. Refer to BlueRithm Issues log for a complete list of observations.

## Recommendations

Correcting setpoints below desired setpoint and modifying programming is recommended to allow the controller to coast the unit down as desired and prevent overheating. Refer to BlueRithm Issues log for a complete list of recommendations.

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# CONVECTORS

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## Application

Hot Water Heating, Electronic Controls

## Approximate Equipment Age

12 years

## Approximate Quantity

10

## Areas Served

Lavatories, Changing Room



## Equipment and Controls Expectations

The convector, like a radiator, provides heating for the space it serves. It depends on hot water from the boiler plant. The unit is provided with a hot water control valve that modulates or opens to maintain the space temperature at setpoint. Each unit is capable of being scheduled with occupied and unoccupied heating setpoints to save energy when the space it serves is unoccupied.

## Observations

Convectors generally found functional. Units are equipped with tamper resistant blank space temperature sensors which is a recommended attribute. Refer to BlueRithm Issues log for a complete list of observations.

## Recommendations

Refer to BlueRithm Issues log for a complete list of recommendations.

## Functional Checklist And Issues Log

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**Functional Checklist And Issues Log**

# C-101.B Toilet

Project / Wallingford Elementary School / Convectors

Convector

**In Progress**

		Design	Proposed	Final	Units
Description	C-1				
<b>C-101.B TOILET WORK</b>					

## Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	69.4	70.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	DO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	DO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	72	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	69.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:08:05 AM

Marked complete by dmychaluk@cm3inc.com on 1/22/2024 8:26:27 PM

# Functional Checklist And Issues Log

## C-101.B TOILET ISSUES

### ISSUE-1068

Project / Wallingford Elementary School / Convector / C-101.B Toilet

Unit active setpoint not modifying to current occupied setpoints, when adjusting the active setpoint no change is noted. The device is functional when the temperature sensor goes below 67 Deg F however the setpoint is not adjustable: Recommend correction of unit control within the XL10 controller.

**Status** Open

**Entered** 1/12/2024 3:26:19 PM

**Entered By** dmychaluk@cm3inc.com

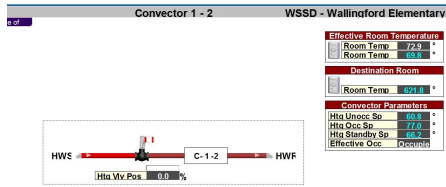
**Priority** Automation

**Category** Automation

**Assigned To** dmychaluk@cm3inc.com

**Respondent Status** Open

**Due Date** 1/19/2024 12:00:00 AM



WES.C\_1.2.png; Added on 1/12/2024 3:26:19 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# C-101.F Toilet

Project / Wallingford Elementary School / Convectors

Convector

**In Progress**

		Design	Proposed	Final	Units
Description	C-1				
<b>C-101.F TOILET WORK</b>					

## Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	69.4	32	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupancy	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	72	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	69.8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:18:51 AM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 6:45:53 PM

# Functional Checklist And Issues Log

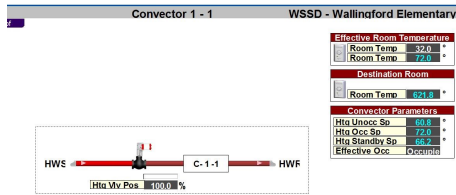
## C-101.F TOILET ISSUES

### ISSUE-1069

Project / Wallingford Elementary School / Convectors / C-101.F Toilet

Zone sensor is reading -32 DegF and requires replacement. : Recommend replacement of flush mount temperature sensor.

**Status** Open  
**Entered** 1/12/2024 3:28:52 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



WES.C\_1.1.png; Added on 1/12/2024 3:28:53 PM by dmychaluk@cm3inc.com



38653168\_PXL\_20240123\_003350122.v2.jpg; Added on 1/22/2024 7:53:38 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# C-109.A Toilet

Project / Wallingford Elementary School / Convectors

Convector

**Complete**

		Design	Proposed	Final	Units
Description	C-1-6				
<b>C-109.A TOILET WORK</b>					

## Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	69.4	67.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	%	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	DO	----	bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	90	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	69.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:18:52 AM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 6:51:08 PM

**Functional Checklist And Issues Log**

# C-109.B Toilet

Project / Wallingford Elementary School / Convectors

Convector

**In Progress**

		Design	Proposed	Final	Units
Description	C-1-5				
<b>C-109.B TOILET WORK</b>					

## Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	69.4	66.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	DO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	DO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	90	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	69.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:18:52 AM

Marked complete by dmychaluk@cm3inc.com on 1/5/2024 10:39:26 AM

# Functional Checklist And Issues Log

## C-109.B TOILET ISSUES

### ISSUE-999

Project / Wallingford Elementary School / Convectors / C-109.B Toilet

Zone sensor is reading 3 Deg F lower than actual causing the space to overheat. : recommend replacement of the sensor or correcting offset within the controller.

**Status** Open  
**Entered** 1/5/2024 10:51:28 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/12/2024 12:00:00 AM



04503011\_17044700325027406832701265744170.jpg; Added on 1/5/2024 10:54:04 AM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# C-112.E Changing

Project / Wallingford Elementary School / Convectors

Convector

**Complete**

		Design	Proposed	Final	Units
Description	C-1				
<b>C-112.E CHANGING WORK</b>					

## Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	71.2	70.7	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	Ok	----	Ok	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	DO	----	Ok	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	90	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	69.8	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	✓	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:18:53 AM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 6:53:18 PM

**Functional Checklist And Issues Log**

# C-122.A Toilet 1-4

Project / Wallingford Elementary School / Convectors

Convector

**In Progress**

		Design	Proposed	Final	Units
Description	C-1				
<b>C-122.A TOILET 1-4 WORK</b>					

## Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	71.9	70.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	72	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	68	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:18:52 AM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 8:05:59 AM

## Functional Checklist And Issues Log

C-122.A TOILET 1-4 ISSUES

### ISSUE-1070

Project / Wallingford Elementary School / Convectors / C-122.A Toilet 1-4

Unit active setpoint not modifying to current occupied setpoints, when adjusting the active setpoint no change is noted. The device is functional when the temperature sensor goes below 67 Deg F however the setpoint is not adjustable: Recommend correction of unit control within the XL10 controller.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/12/2024 3:35:38 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/19/2024 12:00:00 AM

Functional Checklist And Issues Log

# C-123.A Toilet C1-3

Project / Wallingford Elementary School / Convectors

Convector

**Complete**

		Design	Proposed	Final	Units
Description	C-1				
<b>C-123.A TOILET C1-3 WORK</b>					

## Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	69.6	68.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	%	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	69.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:18:51 AM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 3:33:45 PM

**Functional Checklist And Issues Log**

# C-136.A Toilet

Project / Wallingford Elementary School / Convectors

Convactor

**In Progress**

		Design	Proposed	Final	Units
Description	C-1				
<b>C-136.A TOILET WORK</b>					

## Functional Checklist

Convactor Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	75,4	79.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	DO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	90	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	69.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:18:52 AM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 6:53:32 PM

# Functional Checklist And Issues Log

## C-136.A TOILET ISSUES

### ISSUE-1115

Project / Wallingford Elementary School / Convector / C-136.A Toilet

Zone sensor is reading 79.8 in the BAS, actual is 75.5. : Recommend replacement of the flush mount sensor and relocation if possible to an area not getting direct radiant heat from the convector.

**Status** Open  
**Entered** 1/23/2024 7:09:10 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/31/2024 12:00:00 AM



31262712\_1000010609.v2.jpg; Added on 1/23/2024 7:09:31 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# C-219.A Toilet

Project / Wallingford Elementary School / Convectors

Convector

**In Progress**

		Design	Proposed	Final	Units
Description	C-1				
<b>C-219.A TOILET WORK</b>					

## Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	69.4	69.7	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	DO	----	Ok	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	DO	----	Ok	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	90	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	69.8	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	✓	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:18:53 AM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 7:13:32 PM

# Functional Checklist And Issues Log

## C-219.A TOILET ISSUES

### ISSUE-1074

Project / Wallingford Elementary School / Convectors / C-219.A Toilet

When setpoint is modified to 73 Deg F the effective setpoint only goes to 69.8. :  
Recommend verification of setpoint limits and exposing them when the unit is integrated into Niagara.

**Status** Open

**Entered** 1/12/2024 3:52:30 PM

**Entered By** dmychaluk@cm3inc.com

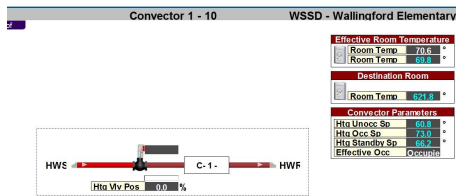
**Priority** Automation

**Category** Automation

**Assigned To** dmychaluk@cm3inc.com

**Respondent Status** Open

**Due Date** 1/19/2024 12:00:00 AM



WES.C.1.10.png; Added on 1/12/2024 3:52:30 PM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# C-229.A Fac C1-9

Project / Wallingford Elementary School / Convectors

Convector

In Progress

		Design	Proposed	Final	Units
Description	C-1				
<b>C-229.A FAC C1-9 WORK</b>					

## Functional Checklist

Convector Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Temperature	Deg f	----	----	----	----	----	----	71.2	71.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Valve cmd	%	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occ setpoint	AVI	----	----	----	----	----	----	----	68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Active setpoint	----	----	----	----	----	----	----	----	69.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc stpt	AVI	----	----	----	----	----	----	----	60.8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

Complete

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 10:18:53 AM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 3:04:37 PM

# Functional Checklist And Issues Log

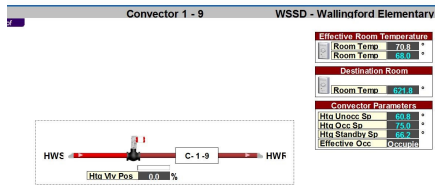
C-229.A FAC C1-9 ISSUES

## ISSUE-1067

Project / Wallingford Elementary School / Convectors / C-229.A Fac C1-9

Unit active setpoint not modifying to current occupied setpoints, when adjusting the active setpoint no change is noted. The device is functional when the temperature sensor goes below 67 Deg F however the setpoint is not adjustable: Recommend correction of unit control within the XL10 controller.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/12/2024 3:16:38 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/19/2024 12:00:00 AM



42906668\_WES.Con.1\_9.png; Added on 1/12/2024 3:17:42 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# Controls

Project / Wallingford Elementary School / Heat Pump Water Loop

Heating Water System

In Progress

Design	Proposed	Final	Units
--------	----------	-------	-------

**CONTROLS WORK**

## Functional Checklist

Boiler Plant Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Fail	NA	Comments
----	Primary Loop Ret Temp	Deg F	AI	----	----	----	----	----	----	81.2	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Primary Loop Sup Temp	Deg F	AI	----	----	----	----	----	----	168.9	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heat Pump Loop Exchanger valve	%	AO	----	OK	OK	OK	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Tower Entering Temp	Deg F	AI	----	----	----	----	----	----	75	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Tower Leaving Temp	Deg F	AI	----	----	----	----	----	----	73	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Secondary Return Temp	Deg F	AI	----	----	----	----	----	----	75.2	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Common Supply Temp	Deg F	AI	----	----	----	----	----	----	74.4	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Tower Water Flow	GPM	AI	----	----	----	----	----	----	287	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Tower Valve	%	AO	----	----	----	----	----	----	100	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Common Return Temp	Deg F	AI	----	----	----	----	----	----	74.3	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Loop DP	PSI	AI	----	----	----	----	----	----	10	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Loop DP Stpt	PSI	AM	----	----	----	----	----	----	10	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Loop Bypass Valve	%	AO	----	Ok	Ok	Ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Hot Water HX bypass valve	%	AO	----	Ok	Ok	Ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

In Progress

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/4/2024 2:36:29 PM

Last edit by dmychaluk@cm3inc.com on 1/26/2024 6:56:16 PM

## Functional Checklist And Issues Log

### CONTROLS ISSUES

#### ISSUE-993

Project / Wallingford Elementary School / Heat Pump Water Loop / Controls

Common water supply temp for the WSHP loop is 68 Deg F, the Setpoint is 72 Deg F. The heat exchanger valve is not opening, upon raising the setpoint the HX valve still did not open. Further testing will be required however the controller appears to be not functioning per the SOO. After watching the system for a period of time the HX valve did eventually open at a loop supply temp of 66 Deg F and a return of 64 the valve quickly opened to 25% : Recommend replacement of controller or correction of the deadband and PID loop within the honeywell XL50 controller to allow for a more gradual opening of the valve and allow for smoother control.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/4/2024 2:31:51 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	bencohen@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/11/2024 12:00:00 AM

# Functional Checklist And Issues Log

## ISSUE-994

Project / Wallingford Elementary School / Heat Pump Water Loop / Controls

Chemical feed canister for the heat pump loop has a leak, unable to determine the leaks source as there is glycol in various places on the canister and ground. : Recommend replacement of canister and proper sealing of inlet and outlet ports.

**Status** Open  
**Entered** 1/4/2024 2:48:38 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** bencohen@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



17146674\_1000010133.v2.jpg; Added on 1/4/2024 2:50:17 PM by dmychaluk@cm3inc.com



17490520\_1000010131.v2.jpg; Added on 1/4/2024 2:50:17 PM by dmychaluk@cm3inc.com



17896750\_1000010132.v2.jpg; Added on 1/4/2024 2:50:17 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-995

Project / Wallingford Elementary School / Heat Pump Water Loop / Controls

BAS shows pump speed at 51% however the VFD is actually at 72%/43 Hz. : Recommend verification of output scaling within the Honeywell XI 5000 controller to match the drive settings.

**Status** Open  
**Entered** 1/4/2024 2:53:08 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Energy  
**Category** Automation  
**Assigned To** bencohen@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



15175901\_1000010136.v2.jpg; Added on 1/4/2024 3:11:15 PM by dmychaluk@cm3inc.com

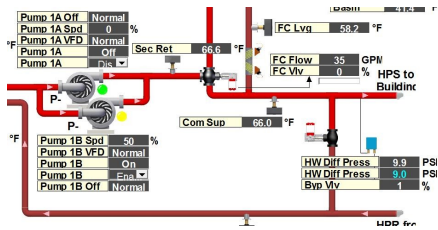
# Functional Checklist And Issues Log

## ISSUE-996

Project / Wallingford Elementary School / Heat Pump Water Loop / Controls

PID loop for the loop bypass running very slow. DP setpoint was dropped 1 PSI below current value, after 20 minutes the pump speed dropped by 2%. and the bypass valve opened 1% : Recommend evaluation of PID settings within the honeywell XI 5000 controller.

**Status** Open  
**Entered** 1/4/2024 3:02:06 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Energy  
**Category** Automation  
**Assigned To** bencohen@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



WES\_CndWrtLoop2.png; Added on 1/4/2024 3:02:06 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-997

Project / Wallingford Elementary School / Heat Pump Water Loop / Controls

While testing the HX valve gurgling and bubbling was noted in the water piping, possible air locked in the system without a pressure relief. : Recommend further mechanical investigation and installation of pressure relief or cleaning of existing relief valves as needed.

**Status** Open  
**Entered** 1/4/2024 3:10:55 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** bencohen@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



31218918\_1000010137.v2.jpg; Added on 1/4/2024 3:12:31 PM by dmychaluk@cm3inc.com



31750183\_1000010138.v2.jpg; Added on 1/4/2024 3:12:31 PM by dmychaluk@cm3inc.com

# Cooling Tower

Project / Wallingford Elementary School / Heat Pump Water Loop

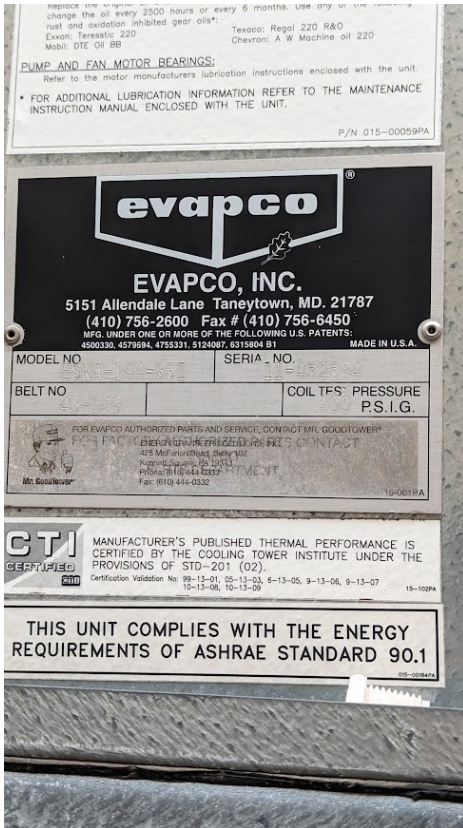
Cooling Tower

In Progress

Design      Proposed      Final      Units

## Notes

dmychaluk@cm3inc.com on 1/26/2024 6:31:44 PM:  
Unit nameplate and overview



54367554\_WESTower.Overview.jpg; Added on 2/28/2024 10:04:54 AM by dmychaluk@cm3inc.com

54242546\_WES.Tower.Nameplate.jpg; Added on 2/28/2024 10:04:54 AM by dmychaluk@cm3inc.com

## COOLING TOWER ISSUES

## Functional Checklist And Issues Log

### ISSUE-1171

Project / Wallingford Elementary School / Heat Pump Water Loop / Cooling Tower

Severe rust and corrosion found on the tower fan motor mount and assembly. Rust found on vibration isolation as well. Significant corrosion and buildup found on air louver cells which require replacement. : Tower requires replacement rust remediation and correction is not recommended due to the current state of the tower.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/26/2024 6:32:42 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Mechanical
<b>Category</b>	Mechanical
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	2/2/2024 12:00:00 AM

### Functional Checklist And Issues Log



28972237\_WES.tower1.jpg; Added on 2/28/2024 10:03:28 AM by dmychaluk@cm3inc.com



29081620\_WES.tower2.jpg; Added on 2/28/2024 10:03:29 AM by dmychaluk@cm3inc.com



29159751\_WES.tower3.jpg; Added on 2/28/2024 10:03:29 AM by dmychaluk@cm3inc.com



29269134\_WES.tower4.v2.jpg; Added on 2/28/2024 10:03:29 AM by dmychaluk@cm3inc.com



29362957\_WES.tower5.jpg; Added on 2/28/2024 10:03:29 AM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1172

Project / Wallingford Elementary School / Heat Pump Water Loop / Cooling Tower

Automatic chemical feed location is subpar and requires an overhaul. Either a storage unit designed for the purpose of chemical feed or relocation to the mechanical room needs to occur. Automatic feed has no power and chemicals are exposed to the elements resulting in dilution of the chemical. : Recommend replacement of automated chemical feed system in conjunction with a new cooling tower. Chemical feed should be moved to the mechanical room and plumbed up to the roof section.

**Status** Open  
**Entered** 1/26/2024 6:35:18 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 2/2/2024 12:00:00 AM



53590913\_PXL\_20240111\_165503625.jpg; Added on 2/28/2024 10:07:53 AM by dmychaluk@cm3inc.com



53653421\_PXL\_20240111\_165509109.jpg; Added on 2/28/2024 10:07:53 AM by dmychaluk@cm3inc.com

# Boiler-1A

Project / Wallingford Elementary School / Hot Water Plant

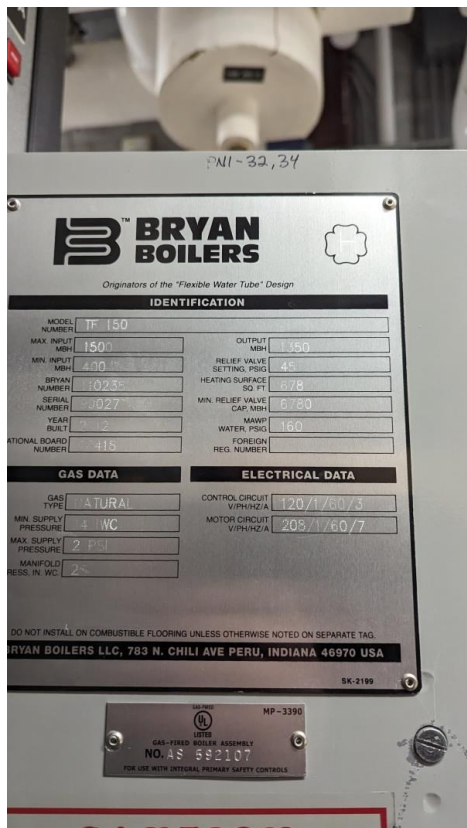
Boiler

In Progress

		Design	Proposed	Final	Units
Serial Number	99027			Bryan	-
Manufacturer				Bryan	-
Model				TF150	-

## Notes

dmychaluk@cm3inc.com on 1/4/2024 9:09:46 AM:  
 Unit nameplate and overview



PXL\_20240104\_134233105.v2.jpg; Added on 1/4/2024 9:09:46 AM by dmychaluk@cm3inc.com



33730526\_17043774138264806771863771826773.v2.jpg; Added on 1/4/2024 9:10:33 AM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

BOILER-1A WORK

#### Functional Checklist

Boiler Plant Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Honeywell XL50 (Functional Status Caputred)	HWS Boiler Supply	Deg F	----	----	----	----	----	----	137	122	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
""	HWS Boiler Return	Deg F	----	----	----	----	----	----	143	145	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Boiler Status	BI	----	----	----	----	----	Ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Boiler Alarm	BI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Blr Enable	BO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Boiler Controller (Current Status caputred in testing)	Airflow Switch	DI	----	----	----	----	----	Off	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Pilot Valve	DI	----	----	----	----	----	Off	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Main Valve	DI	----	----	----	----	----	Off	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Boiler Enable	DI	----	----	----	----	----	Off	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Proof of closure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Low Water	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	High Burner Temp	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Water Flow Switch	DI	----	----	----	----	----	Off	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	High Gas Pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Alarm	DI	----	----	----	----	----	Off	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Low gas pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	low pilot pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	High Air Exchg pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	High Burner Pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Safety	DI	----	----	----	----	----	Off	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

### Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
""	Outlet Temp	Deg F	----	----	----	----	----	----	137	138	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Firing Rate	%	----	----	----	----	----	----	----	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Flame Signal	%	----	----	----	----	----	----	----	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Fan RPM	RPM	----	----	----	----	----	----	----	0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/4/2024 8:43:52 AM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:39:31 AM

**Functional Checklist And Issues Log**

**ISSUE-984**

Project / Wallingford Elementary School / Hot Water Plant / Boiler-1A

BAS hot water supply sensor is reading 122 Deg F actual temp is 138 Deg F, sensor appears to be used for monitoring only but should be considered for replacement. : Recommend replacing the sensor.

**Status** Open  
**Entered** 1/4/2024 10:18:38 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



10479874\_PXL\_20240104\_151926647.v2.jpg; Added on 1/4/2024 10:24:10 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-985

Project / Wallingford Elementary School / Hot Water Plant / Boiler-1A

Condensate drain line is pinched and kinked requiring correction. : Recommend installation of a 90° coupler to barbed fitting preventing the tubing from bending.

**Status** Open  
**Entered** 1/4/2024 11:23:06 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



16487301\_PXL\_20240104\_150724952.jpg; Added on 2/13/2024 10:43:16 AM by dmychaluk@cm3inc.com

# Boiler-1B

Project / Wallingford Elementary School / Hot Water Plant

Boiler

In Progress

		Design	Proposed	Final	Units
Serial Number	98916			Bryan	-
				Model	TF150 -

## Notes

dmychaluk@cm3inc.com on 1/4/2024 9:11:22 AM:  
 Unit nameplate and overview



17043774711014950857364535886545.v2.jpg; Added on 1/4/2024 9:11:23 AM by dmychaluk@cm3inc.com



52701858\_PXL\_20240104\_133625158.v2.jpg; Added on 1/4/2024 9:13:52 AM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

BOILER-1B WORK

#### Functional Checklist

Boiler Plant Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
Honeywell XL50 (Functional Status Caputred)	HWS Boiler Supply	Deg F	----	----	----	----	----	----	172	155	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
""	HWS Boiler Return	Deg F	----	----	----	----	----	----	162	160	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Boiler Status	BI	----	----	----	----	----	Ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Boiler Alarm	BI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Blr Enable	BO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Boiler Controller (Current Status caputred in testing)	Airflow Switch	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Pilot Valve	DI	----	----	----	----	----	Off	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Main Valve	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Boiler Enable	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Proof of closure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Low Water	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	High Burner Temp	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Stack temp	----	----	----	----	----	----	----	----	133	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Water Flow Switch	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	High Gas Pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Alarm	DI	----	----	----	----	----	Off	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Low gas pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	low pilot pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	High Air Exchg pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	High Burner Pressure	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

### Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
""	Safety	DI	----	----	----	----	----	On	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Outlet Temp	Deg F	----	----	----	----	----	----	172	174	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Firing Rate	RPM	----	----	----	----	----	----	----	1200	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Flame Signal	%	----	----	----	----	----	----	----	15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
""	Fan RPM	RPM	----	----	----	----	----	----	----	1203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/4/2024 12:02:17 PM

Marked complete by dmychaluk@cm3inc.com on 1/4/2024 12:08:32 PM

**Functional Checklist And Issues Log**

**ISSUE-986**

Project / Wallingford Elementary School / Hot Water Plant / Boiler-1B

BAS hot water supply sensor is reading 122 Deg F actual temp is 138 Deg F, sensor appears to be used for monitoring only but should be considered for replacement. : Recommend replacing the sensor.

**Status** Open  
**Entered** 1/4/2024 12:15:03 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



38609357\_PXL\_20240104\_171431812.v2.jpg; Added on 1/4/2024 12:18:38 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-989

Project / Wallingford Elementary School / Hot Water Plant / Boiler-1B

Condensate drain line is pinched and kinked requiring correction. : Recommend installation of a 90° coupler to barbed fitting preventing the tubing from bending.

**Status** Open  
**Entered** 1/4/2024 12:16:59 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



47693762\_PXL\_20240104\_172255842.v2.jpg; Added on 1/4/2024 12:29:47 PM by dmychaluk@cm3inc.com

# HWP-2A

Project / Wallingford Elementary School / Hot Water Plant

Pump

**Complete**

Design      Proposed      Final      Units

## Notes

dmychaluk@cm3inc.com on 1/4/2024 1:10:52 PM:  
 Unit nameplate and overview



13664541\_PXL\_20240104\_182841626.v2.jpg; Added on 1/4/2024 1:30:13 PM by dmychaluk@cm3inc.com



14039559\_PXL\_20240104\_182807459.v2.jpg; Added on 1/4/2024 1:30:14 PM by dmychaluk@cm3inc.com



14430199\_PXL\_20240104\_182835021.v2.jpg; Added on 1/4/2024 1:30:14 PM by dmychaluk@cm3inc.com



14789587\_PXL\_20240104\_182828665.v2.jpg; Added on 1/4/2024 1:30:14 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

HWP-2A WORK

### Functional Checklist

#### Pump VSD Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Pump Start/Stop	DO	----	ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Speed Cmd	AO	----	----	OK	OK	OK	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Alarm	DI	----	----	----	----	----	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Status	DI	----	----	----	----	----	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/4/2024 1:06:58 PM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:39:22 AM

# Functional Checklist And Issues Log

## HWP-2B

Project / Wallingford Elementary School / Hot Water Plant

Pump

In Progress

Design

Proposed

Final

Units

### Notes

dmychaluk@cm3inc.com on 1/4/2024 1:11:00 PM:  
Unit nameplate and overview



55134047\_PXL\_20240104\_182735316.v2.jpg; Added on 1/4/2024 1:30:55 PM by dmychaluk@cm3inc.com



55540241\_PXL\_20240104\_182741224.v2.jpg; Added on 1/4/2024 1:30:55 PM by dmychaluk@cm3inc.com



55868375\_PXL\_20240104\_182801100.v2.jpg; Added on 1/4/2024 1:30:55 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

HWP-2B WORK

## Functional Checklist

Pump VSD Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Pump Start/Stop	DO	----	ok	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Speed Cmd	AO	----	----	ok	ok	ok	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Alarm	DI	----	----	----	----	----	ok	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Status	DI	----	----	----	----	----	ok	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/4/2024 1:06:48 PM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:38:30 AM

**Functional Checklist And Issues Log**

**ISSUE-992**

Project / Wallingford Elementary School / Hot Water Plant / HWP-2B

Slow leak found on drain line. : recommend correction of leak.

**Status** Open  
**Entered** 1/4/2024 1:32:02 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



PXL\_20240104\_182717641.v2.jpg; Added on 1/4/2024 1:32:03 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## HWP-3A

Project / Wallingford Elementary School / Hot Water Plant

Pump

Complete

		Design	Proposed	Final	Units
Association	Boiler-1				

### Notes

dmychaluk@cm3inc.com on 1/4/2024 1:05:30 PM:  
Unit nameplate and overview



IMG\_1730.v2.jpg; Added on 1/4/2024 1:05:30 PM by dmychaluk@cm3inc.com



IMG\_1731.v2.jpg; Added on 1/4/2024 1:05:31 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

HWP-3A WORK

### Functional Checklist

#### Pump Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Pump Start/Stop	DO	----	ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Alarm	DI	----	----	----	----	----	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Status	DI	----	----	----	----	----	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/4/2024 1:06:37 PM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:38:08 AM

# Functional Checklist And Issues Log

## HWP-3B

Project / Wallingford Elementary School / Hot Water Plant

Pump

In Progress

		Design	Proposed	Final	Units
Association	Boiler-2				

### Notes

dmychaluk@cm3inc.com on 1/4/2024 1:03:34 PM:  
Unit nameplate and overview



32968954\_IMG\_1729.v2.jpg; Added on 1/4/2024 1:04:32 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

HWP-3B WORK

### Functional Checklist

#### Pump Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Pump Start/Stop	DO	----	ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Alarm	DI	----	----	----	----	----	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Pump Status	DI	----	----	----	----	----	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/4/2024 1:06:06 PM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:37:04 AM

**Functional Checklist And Issues Log**

ISSUE-987

Project / Wallingford Elementary School / Hot Water Plant / HWP-3B

Boiler water pump has a slow leak and is dripping onto natural gas piping and motor steel mounting. : Recommend correction of leak and correction of affected metals from the water leak.

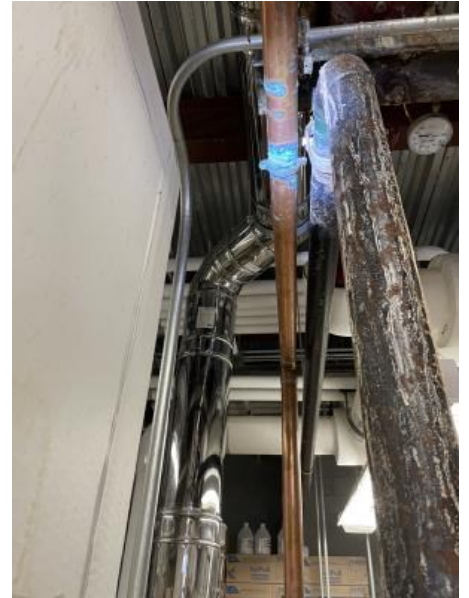
**Status** Open  
**Entered** 1/4/2024 12:16:25 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



49627330\_IMG\_1734.v2.jpg; Added on 1/4/2024 12:25:49 PM by dmychaluk@cm3inc.com



50033618\_IMG\_1733.v2.jpg; Added on 1/4/2024 12:25:50 PM by dmychaluk@cm3inc.com



50783795\_IMG\_1735.v2.jpg; Added on 1/4/2024 12:25:50 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log



37055078\_IMG\_1734.v2.jpg; Added on 1/4/2024 12:45:37 PM by dmychaluk@cm3inc.com



37539533\_IMG\_1733.v2.jpg; Added on 1/4/2024 12:45:37 PM by dmychaluk@cm3inc.com



38352104\_IMG\_1735.v2.jpg; Added on 1/4/2024 12:45:38 PM by dmychaluk@cm3inc.com



39164591\_IMG\_1725.v2.jpg; Added on 1/4/2024 12:45:39 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# HWS-Controls

Project / Wallingford Elementary School / Hot Water Plant

Heating Water System

In Progress

Design	Proposed	Final	Units
Manufacturer		Honeywell	-
Model		XL 50A	-

HWS-CONTROLS WORK

## Functional Checklist

Boiler Plant Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS Reading	Pass	Fail	NA	Comments
----	HWS Building Return	Deg F	----	----	----	----	----	----	157	159.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	HWS Building supply	Deg F	----	----	----	----	----	----	166	165	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	HWS Supply Setpoint	DegF	AVI	----	----	----	----	----	----	180	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Average OA temperature	Deg F	----	----	----	----	----	----	43.4	51.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	OA Enable Stpt	Deg F	AVI	----	----	----	----	----	----	68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Enable Both Boiler Stpt	DegF	AVI	----	----	----	----	----	----	160	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	System Enable	BO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Hot Water Bypass Valve	AO	----	----	OK	Ok	Ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Loop DP	PSI	----	----	----	----	----	----	----	9.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Loop DP Stpt	PSI	----	----	----	----	----	----	----	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/4/2024 9:25:58 AM

**Marked complete by** dmychaluk@cm3inc.com on 1/4/2024 1:02:58 PM

# Functional Checklist And Issues Log

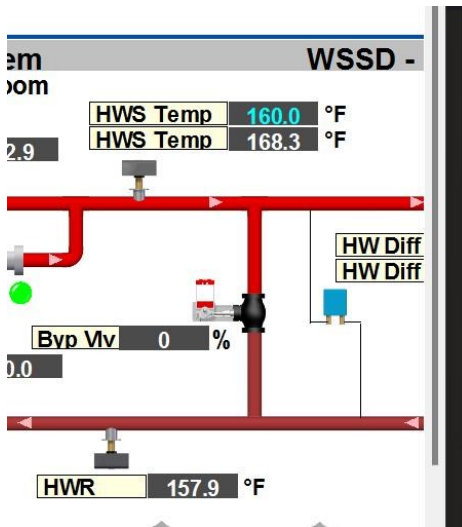
## HWS-CONTROLS ISSUES

### ISSUE-990

Project / Wallingford Elementary School / Hot Water Plant / HWS-Controls

Hot water system setpoint has no effect on plant operations, the pump speed nor bypass valve modulate to maintain the new setpoints. All boiler setpoints are fixed inside of the boiler controller and are not affected by the BAS. : Controller is an aged legacy product and should be replaced

**Status** Open  
**Entered** 1/4/2024 12:56:40 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/11/2024 12:00:00 AM



52987897\_WES\_HWP.png; Added on 1/4/2024 1:01:52 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log



### ISSUE-991

Project / Wallingford Elementary School / Hot Water Plant / HWS-Controls

Outside air sensor average reporting at 51.5 Deg F, actual is 43.1 Deg F. : Recommend verification of sensors currently connected to the average and replacement of those sensors.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/4/2024 1:01:23 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/11/2024 12:00:00 AM

# Functional Checklist And Issues Log



## RTU-1

Project / Wallingford Elementary School / Rooftop Units

RTU

In Progress

		Design	Proposed	Final	Units
Description	ERU North			AAON	-
Area Served	ERU North			RN-020-8-0-570A-000	-
				RF Motor Amps	15.7
				RF RPM	1760
				RF VFD/Motor Voltage	208
				SF Motor Amps	24.2
				SF RPM	1760
				SF VFD/Motor Voltage	208

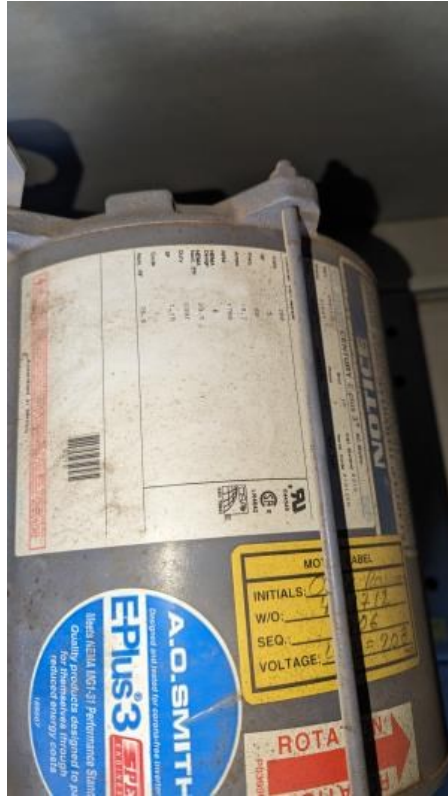
### Notes

WALLINGFORD SCHOOL DISTRICT  
**Functional Checklist And Issues Log**

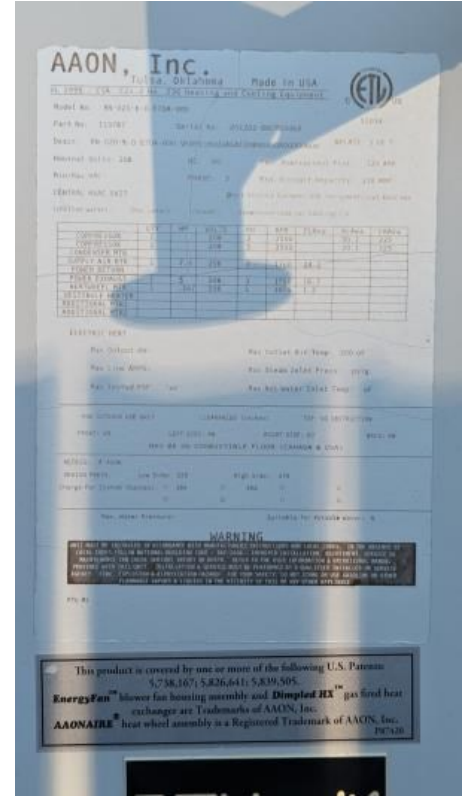
dmychaluk@cm3inc.com on 1/11/2024 3:51:55 PM:  
 Unit nameplate and overview



17050062963818561060245596354237.v2.jpg; Added on 1/11/2024 3:51:55 PM by dmychaluk@cm3inc.com



35927457\_1000010340.v2.jpg; Added on 1/11/2024 3:52:35 PM by dmychaluk@cm3inc.com



36318088\_1000010338.v2.jpg; Added on 1/11/2024 3:52:36 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

RTU-1 WORK

## Pre-Functional Checklist

AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Integrity of door seals and panel penetrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Heating, Cooling, and Preheat Coil condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter block off plate and seal integrity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Decking and curb for roof mounted equipment is insulated and airtight	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Sensor locations follow best practices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Condensate pan clean and flowing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flex connection from blower motor to duct transition is intact and free from tearing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Outside air damper blade seals are intact and sealing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 11:23:59 AM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:31:48 AM

### Functional Checklist And Issues Log

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Return Air Temperature	AI	----	----	----	----	----	----	70.8	71.1	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Temperature	AI	----	----	----	----	----	----	74.2	73.9	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Humidity	AI	----	----	----	----	----	----	27	29	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Enable	BO	----	OK	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Cmd	AO	----	----	Ok	OK	ok	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 2 Enable	BO	----	OK	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 2 Cmd	AO	----	----	OK	OK	OK	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve	BO	----	OK	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Hot Gas Reheat	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Mixed Air Damper Cmd	AO	----	----	OK	OK	OK	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Enable	BO	----	OK	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	AO	----	----	OK	OK	OK	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Enable	BO	----	OK	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Cmd	AO	----	----	Ok	OK	OK	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Status	BI	----	----	----	----	----	OK	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Low Temperature Detector	BI	----	----	----	----	----	Ok	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Static Pressure	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	OA Flow	AI	----	----	----	----	----	----	----	5850	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Enable	BO	----	OK	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Status	BI	----	----	----	----	----	Ok	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	VBO	----	Ok	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Setpoint	Stpnt	----	----	----	----	----	----	----	65	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air High Limit	Stpnt	----	----	----	----	----	----	----	75	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Low Limit	Stpnt	----	----	----	----	----	----	----	70	✓	<input type="checkbox"/>	<input type="checkbox"/>	----

### Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Dehumidification Enable	Stpnt	----	----	----	----	----	----	----	89	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Needs adjustment unit will never dehumidify
----	Dehumidification Disable	Stpnt	----	----	----	----	----	----	----	90	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Outside air Enable	Stpnt	----	----	----	----	----	----	----	40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Enable Heat Wheel Above OAT	Stpnt	----	----	----	----	----	----	----	75	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Enable Heat Wheel Below OAT	Stpnt	----	----	----	----	----	----	----	50	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 12:20:14 PM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:36:41 AM

**Functional Checklist And Issues Log**

**ISSUE-1053**

Project / Wallingford Elementary School / Rooftop Units / RTU-1

Cap missing from Schrader valve, corrosion found on various fittings in Waterloo cabinet and compressor cabinet. : recommend remediation and correction of corrosion and replacement of cap.

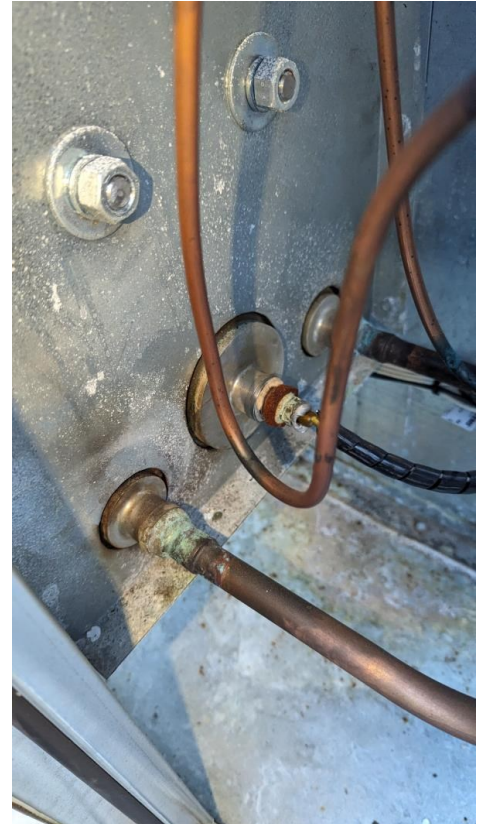
**Status** Open  
**Entered** 1/11/2024 3:31:19 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



1000010331.v2.jpg; Added on 1/11/2024 3:31:20 PM by dmychaluk@cm3inc.com



1000010330.v2.jpg; Added on 1/11/2024 3:31:20 PM by dmychaluk@cm3inc.com



1000010329.v2.jpg; Added on 1/11/2024 3:31:21 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**



1000010337.v2.jpg; Added on 1/11/2024 3:31:21 PM by dmychaluk@cm3inc.com



1000010336.v2.jpg; Added on 1/11/2024 3:31:21 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1054

Project / Wallingford Elementary School / Rooftop Units / RTU-1

Building static sensor is reading .02 regardless of damper position or unit operation. Additionally it has excessive amount of tubing and is made of poor quality which can pinch and be deformed easily. : recommend replacement of tubing and calibration of sensor.

**Status** Open  
**Entered** 1/11/2024 4:03:38 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



1000010332.v2.jpg; Added on 1/11/2024 4:03:38 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1055

Project / Wallingford Elementary School / Rooftop Units / RTU-1

Heatwheel has poor energy transfer. Outside air temp is 47.5 deg F. supply side of wheel is 48.8 deg f. exhaust of wheel is 70.3 deg F. : recommend servicing of wheel and replacement of pies.

**Status** Open  
**Entered** 1/11/2024 4:06:24 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Energy  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



17050071689618647155551506858963.v2.jpg; Added on 1/11/2024 4:06:25 PM by dmychaluk@cm3inc.com



22386000\_1705007225061781929689364128424.v2.jpg; Added on 1/11/2024 4:07:22 PM by dmychaluk@cm3inc.com

# RTU-2

Project / Wallingford Elementary School / Rooftop Units

RTU

In Progress

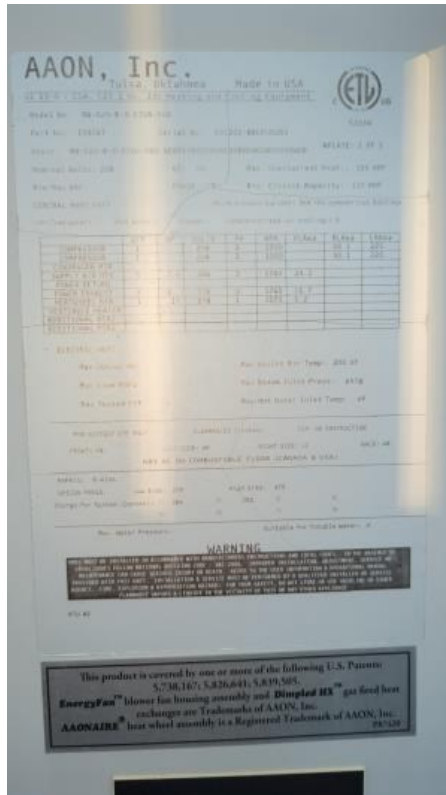
		Design	Proposed	Final	Units
Description	ERU South				
Area Served	ERU South				

## Notes

dmychaluk@cm3inc.com on 1/11/2024 3:55:52 PM:  
 Unit nameplate and overview



17050065408516946174622378112111.v2.jpg; Added on 1/11/2024 3:55:52 PM by dmychaluk@cm3inc.com



20190175\_17050065658809024538608263872385.jpg; Added on 1/11/2024 3:56:20 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

RTU-2 WORK

**Functional Checklist**

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Return Air Temperature	AI	----	----	----	----	----	----	67.5	66.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Temperature	AI	----	----	----	----	----	----	71.8	72.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Humidity	AI	----	----	----	----	----	----	20	17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 2 Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 2 Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Hot Gas Reheat	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Mixed Air Damper Cmd	AO	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Damper Cmd	AO	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Enable	BO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	AO	----	----	OK	Ok	Ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	BI	----	----	----	----	----	Ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Enable	BO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Status	BI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Low Temperature Detector	BI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Static Pressure	AI	----	----	----	----	----	----	----	0.01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	OA Flow	AI	----	----	----	----	----	----	----	4382	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	VBO	----	ok	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Functional Checklist And Issues Log**

### Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	Bl	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Supply Air Setpoint	Stpnt	----	----	----	----	----	----	----	70	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air High Limit	Stpnt	----	----	----	----	----	----	----	75	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Low Limit	Stpnt	----	----	----	----	----	----	----	70	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Dehumidification Enable	Stpnt	----	----	----	----	----	----	----	89	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Dehumidification Disable	Stpnt	----	----	----	----	----	----	----	79	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Outside air Enable	Stpnt	----	----	----	----	----	----	----	40	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Enable Heat Wheel Above OAT	Stpnt	----	----	----	----	----	----	----	75	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Enable Heat Wheel Below OAT	Stpnt	----	----	----	----	----	----	----	50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Pressure Setpoint	Stpnt	----	----	----	----	----	----	----	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 12:28:29 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 1:29:58 PM

## Functional Checklist And Issues Log

### Pre-Functional Checklist

#### AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Integrity of door seals and panel penetrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Heating, Cooling, and Preheat Coil condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter block off plate and seal integrity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Decking and curb for roof mounted equipment is insulated and airtight	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Sensor locations follow best practices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Condensate pan clean and flowing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flex connection from blower motor to duct transition is intact and free from tearing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Outside air damper blade seals are intact and sealing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 12:28:30 PM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:30:56 AM

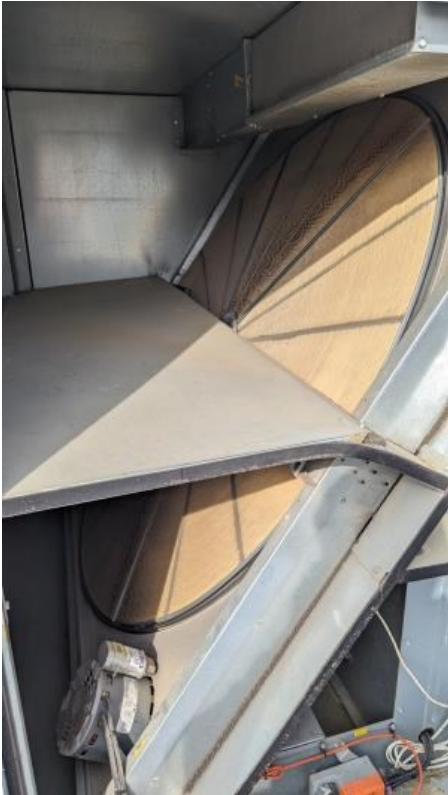
**Functional Checklist And Issues Log**

**ISSUE-1092**

Project / Wallingford Elementary School / Rooftop Units / RTU-2

Heat wheel has poor energy transfer, OA inlet is 45.6, outlet is 51.7 with an exhaust outlet of 67 Deg F. Recommend maintenance and replacement of heatwheel pies to ensure proper energy transfer.

**Status** Open  
**Entered** 1/23/2024 12:57:48 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



34022803\_PXL\_20240123\_175803149.v2.jpg; Added on 1/23/2024 12:59:34 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log



### ISSUE-1093

Project / Wallingford Elementary School / Rooftop Units / RTU-2

Cooling not engaging after modification of setpoints, appears to be an internal programming sequence holding out cooling command. : Recommend verification of cooling during warmer period, there may be a summer/winter switch in the programming logic of the XL controller. Replacement of controller may be required

<b>Status</b>	Open
<b>Entered</b>	1/23/2024 1:26:02 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	Open
<b>Due Date</b>	1/30/2024 12:00:00 AM

# Functional Checklist And Issues Log

## RTU-3

Project / Wallingford Elementary School / Rooftop Units

RTU

In Progress

Design Proposed Final Units

Description East C7 classrooms  
 Area Served East C7 classrooms

### Notes

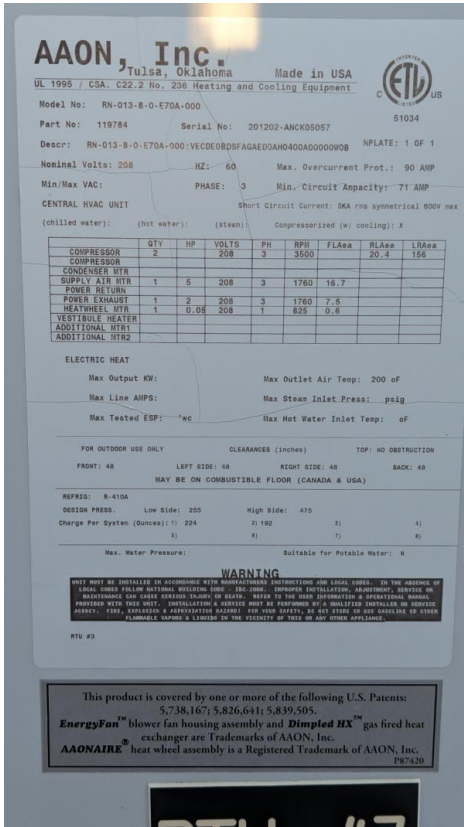
dmychaluk@cm3inc.com on 1/9/2024 12:49:50 PM:  
 Setpoints and Settings

Roof Top Unit RTU-3 Parameters		Roof Top Unit RTU-3 Parameters	
RH Reset Signal	55 %	Supply Air Temperature Setpoint 6	55.0 °F
Dehumidification Disable Setpoint	80 RH	Current Supply Air Heating Setpoint	55.0 °F
Dehumidification Enable Setpoint	60 RH	Heating Room Temp	70.0 °F
Seace Pressure Setpoint	2.0 Inwg	Maximum Relative Humidity	76 RH
Compressor Reversing Valve	Disal	Morning Cooldown Supply Air Setpoint	45.0 °F
Compressor Stage-1 Modulating	100 %	Morning Cooling Disable Setpoint	74.0 °F
Compressor Stage-2 Modulating	100 %	Morning Cooling Enable Setpoint	76.0 °F
Condensate 2-way Valve	Open	Morning Warmup Supply Air Setpoint	65.0 °F
Dehumidification Mode	Off	Warm Up Disable Setpoint	63.0 °F
HRV Fail Alarm	Normal	Warm Up Enable Setpoint	65.0 °F
Occupied Cooling Mode	On	Morning Warm Up OAT Enable Sp	69.0 °F
RTU-3 Occupancy UnOccupancy	Occupied	Avg. Outside Air Humidity	7 RH
System Enable/Disable	Enable	Outside Air Temperature Cooling 1	48.0 °F
Outside Air Humidity	0 RH	Outside Air Temperature Cooling 1 Low	72.0 °F
Supply Air Pressure	1.0 Inwg	Outside Air Temperature Cooling 2	71.0 °F
Current Supply Air Cooling Setpoint	55.0 °F	Outside Air Temperature Cooling 2 Low	57.0 °F
Cooling Room Temp	69.0 °F	Outside Air Temperature	85.0 °F
Supply Air Temperature Setpoint 1	54.0 °F	Outside Air Temperature Heating 1	49.0 °F
Supply Air Temperature Setpoint 2	56.0 °F	Outside Air Temperature Heating 1 Low	31.0 °F
Supply Air Temperature Setpoint 3	56.0 °F	Outside Air Temperature Heating 2	56.0 °F
Supply Air Temperature Setpoint 4	60.0 °F	Outside Air Temperature Heating 2 Low	41.0 °F
Supply Air Temperature Setpoint 5	57.0 °F	Outside Air Temperature Heating Low	30.0 °F
		Supply Air Pressure Setpoint	1.0 Inwg
		System Reset	Off

WES.RTU.3.PARM.png; Added on 1/9/2024 12:49:50 PM by  
 dmychaluk@cm3inc.com

WALLINGFORD SCHOOL DISTRICT  
**Functional Checklist And Issues Log**

dmychaluk@cm3inc.com on 1/11/2024 3:58:48 PM:  
 Unit overview and nameplate



PXL\_20240111\_205635387.v2.jpg; Added on 1/11/2024 3:58:48 PM by dmychaluk@cm3inc.com



PXL\_20240111\_205628774.v2.jpg; Added on 1/11/2024 3:58:49 PM by dmychaluk@cm3inc.com



38150518\_1000010518.v2.jpg; Added on 1/23/2024 1:15:38 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

RTU-3 WORK

**Functional Checklist**

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Return Air Temperature	AI	----	----	----	----	----	----	68.5	70.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Temperature	AI	----	----	----	----	----	----	71.3	71.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Static Pressure	AI	----	----	----	----	----	----	----	1.6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Enable	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unit not responding to setpoint control, unable to override output
----	Compressor 1 Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Compressor 2 Enable	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Compressor 2 Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Reversing Valve	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Hot Gas Reheat	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Mixed Air Damper Cmd	AO	----	----	Ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Damper Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	not responding to override
----	Supply Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Enable	BO	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Cmd	AO	----	ok	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Static Pressure	AI	----	----	----	----	----	----	----	0.01	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

### Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	OA Flow	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Enable	BO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Status	BI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	VBO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 12:40:36 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 4:47:40 PM

## Functional Checklist And Issues Log

### Pre-Functional Checklist

#### AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Integrity of door seals and panel penetrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Heating, Cooling, and Preheat Coil condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter block off plate and seal integrity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Decking and curb for roof mounted equipment is insulated and airtight	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Sensor locations follow best practices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Condensate pan clean and flowing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flex connection from blower motor to duct transition is intact and free from tearing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Outside air damper blade seals are intact and sealing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 12:40:37 PM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:43:47 AM

**Functional Checklist And Issues Log**



# Functional Checklist And Issues Log

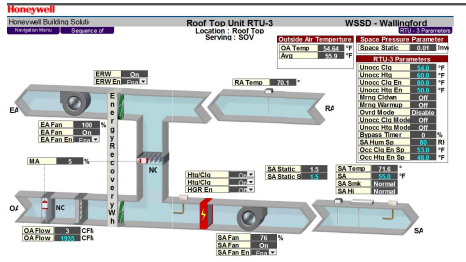
## RTU-3 ISSUES

### ISSUE-1094

Project / Wallingford Elementary School / Rooftop Units / RTU-3

Unit has a supply humidity setpoint but no supply humidity sensor. : Recommend installation and programming of a supply humidity sensor

**Status** Open  
**Entered** 1/23/2024 1:37:31 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



02145299\_RTU3.png; Added on 1/23/2024 1:39:02 PM by danhainey@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1095

Project / Wallingford Elementary School / Rooftop Units / RTU-3

Space static sensor tubing is not of high quality and is collapsing on itself. : recommend replacement of tubing to get proper OA reference.

**Status** Open  
**Entered** 1/23/2024 1:39:44 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



1000010520.v2.jpg; Added on 1/23/2024 1:39:44 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log



### ISSUE-1096

Project / Wallingford Elementary School / Rooftop Units / RTU-3

Unit not responding to heating or cooling setpoints at the controller level. Even in automatic mode the controller is attempting to cool down to 55 Deg F supply temp however nothing is engaging inside the unit. Relay is engaging for the compressor and the AAON WSHp board shows Rly 1 lit but the compressor command does not make it through. : Recommend troubleshooting mechanical equipment

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/23/2024 2:17:20 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/30/2024 12:00:00 AM

## Functional Checklist And Issues Log



### ISSUE-1097

Project / Wallingford Elementary School / Rooftop Units / RTU-3

Suply fan is making a vibration while running. : recommend correction of supply fan new blower wheel or motor may be required.

<b>Status</b>	Open
<b>Entered</b>	1/23/2024 2:29:43 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Mechanical
<b>Category</b>	Mechanical
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	Open
<b>Due Date</b>	1/30/2024 12:00:00 AM

# Functional Checklist And Issues Log

## RTU-4

Project / Wallingford Elementary School / Rooftop Units

RTU

In Progress

Design Proposed Final Units

Description	Stage/Gym
Area Served	Stage/Gym

### Notes

dmychaluk@cm3inc.com on 1/9/2024 1:00:31 PM:  
Setpoints and configuration

Equipment ID	Location	Room	Service
RTU-4	Roof Top	Gymnasium	

Parameter	Value	Unit	Mode
Heating Mode Enable Setpoint	60.00	F	On
Morning Cooling Disable Setpoint	67.00	F	Off
Morning Cooling Enable Setpoint	70.00	F	Off
Outside Air Enable Setpoint	60.00	F	Off
Actual Room Temperature Setpoint	68.00	F	Off
Space Pressure Setpoint	1.00	Inch Hg	Off
Compressor Reversing Valve	Heating		Off
Compressor Stage 1 Modulating	100	%	Off
Compressor Stage 2 Modulating	100	%	Off
Condenser Superheats	0.00	F	Off
Dehumidification Mode	Off		Off
DRW Fan Alarm	Normal		Off
Occupied Cooling Mode	Off		Off
Occupied Heating Mode	Off		Off
RTU-4 Occupancy UnOccupancy	Occupied		Off
Protect Enable Disable	Enable		Off
Enable Heat Wheel Above DAT	75.00	F	Off
Cooling Mode Enable Setpoint	75.00	F	Off
Supply Air Temperature Setpoint 4	60.00	F	Off
Supply Air Temperature Setpoint 5	57.00	F	Off
Supply Air Temperature Setpoint 6	55.00	F	Off
Delayed Supply Air Setpoint	55.00	F	Off
Enable Heat Wheel Below DAT	50.00	F	Off
Heating Mode Enable Setpoint	60.00	F	Off
Morning Cooling Disable Setpoint	67.00	F	Off
Morning Cooling Enable Setpoint	70.00	F	Off
Outside Air Enthalpy	11	Ent	Off
Outside Air Humidity	7	RH	Off
Return Air Enthalpy	11	Ent	Off
Return Air Humidity	11	RH	Off
Outside Air Temperature 1 High	60.00	F	Off
Outside Air Temperature 1 Low	57.00	F	Off
Outside Air Temperature 2 High	60.00	F	Off
Outside Air Temperature 2 Low	57.00	F	Off
Override Time Delay	2	Ent	Off
Morning Warm Up Enable Setpoint	60.00	F	Off
Morning Warm Up Disable Setpoint	64.00	F	Off
Economizer Mode	On		Off
Unocc Cooling Supply Air Setpoint	60.00	F	Off
Unoccupied Cooling Enable Setpoint	60.00	F	Off
Unocc Heating Enable Setpoint	60.00	F	Off
Unocc Heating Supply Air Setpoint	60.00	F	Off
Morning Cooldown Mode	Off		Off
Morning Warmup Mode	Off		Off
Override Mode	Disable		Off
Doc Mode	Disable		Off
Unoccupied Cooling Mode	Off		Off
Unoccupied Heating Mode	Off		Off

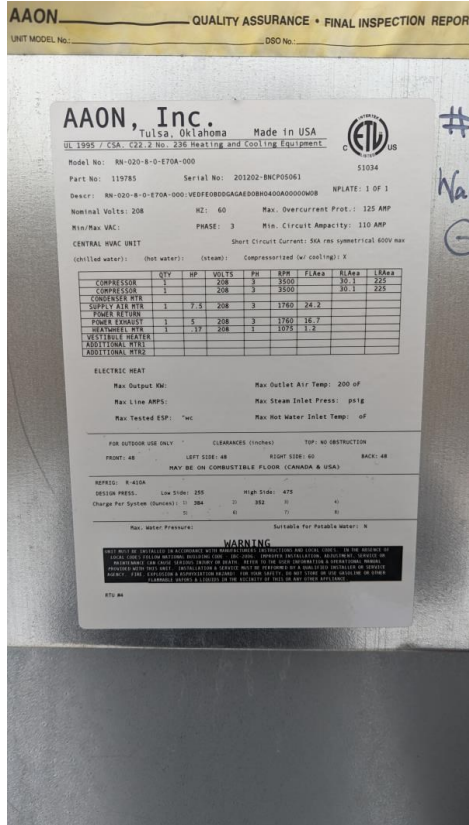
WES.RTU.4.PARM.png; Added on 1/9/2024 1:00:31 PM by dmychaluk@cm3inc.com

WALLINGFORD SCHOOL DISTRICT  
**Functional Checklist And Issues Log**

dmychaluk@cm3inc.com on 1/23/2024 3:05:11 PM:  
 Unit nameplate and overview



PXL\_20240123\_200432366.v2.jpg; Added on 1/23/2024 3:05:11 PM by dmychaluk@cm3inc.com



PXL\_20240123\_200312173.v2.jpg; Added on 1/23/2024 3:05:12 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

**Functional Checklist And Issues Log**

RTU-4 WORK

**Functional Checklist**

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Return Air Temperature	AI	----	----	----	----	----	----	66.4	65.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Temperature	AI	----	----	----	----	----	----	65	64.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Return Air Humidity	AI	----	----	----	----	----	----	25.4	21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 2 Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Hot Gas Reheat	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Mixed Air Damper Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Damper Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Drive failed
----	Supply Fan Status	BI	----	----	----	----	----	bad	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Enable	BO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Low Temperature Detector	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Zone Humidity	AI	----	----	----	----	----	----	----	13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Zone CO2	AI	----	----	----	----	----	----	----	268	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Space Static Pressure	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	OA Flow	AI	----	----	----	----	----	----	----	2579	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

### Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Energy Wheel Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	VBO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Room Humidity Setpoint	Stpnt	----	----	----	----	----	----	----	50	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 12:59:59 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 3:30:56 PM

## Functional Checklist And Issues Log

### Pre-Functional Checklist

#### AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Integrity of door seals and panel penetrations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Heating, Cooling, and Preheat Coil condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter block off plate and seal integrity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Decking and curb for roof mounted equipment is insulated and airtight	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Sensor locations follow best practices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Condensate pan clean and flowing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flex connection from blower motor to duct transition is intact and free from tearing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Outside air damper blade seals are intact and sealing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 1:00:00 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 3:30:44 PM

**Functional Checklist And Issues Log**



## Functional Checklist And Issues Log

### RTU-4 ISSUES

#### ISSUE-1015

Project / Wallingford Elementary School / Rooftop Units / RTU-4

Zone C02 is reading 268 PPM and needs replacement or calibration. : Recommend replacement of this sensor.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/9/2024 1:04:11 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Two
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/16/2024 12:00:00 AM

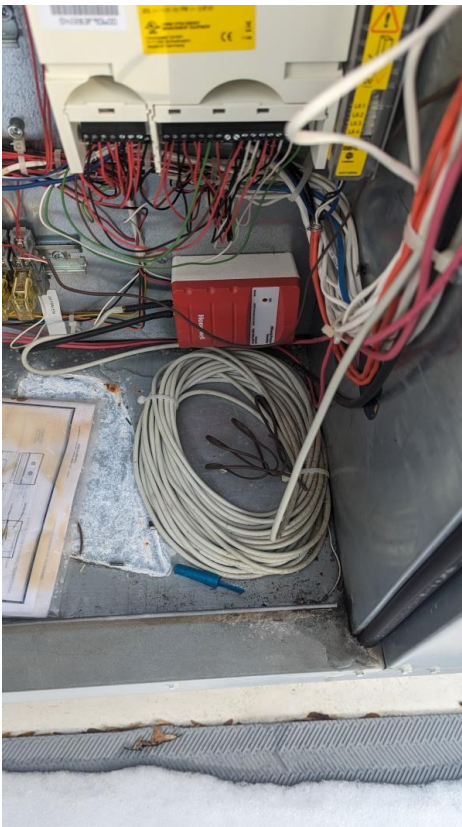
# Functional Checklist And Issues Log

## ISSUE-1098

Project / Wallingford Elementary School / Rooftop Units / RTU-4

Water found pooling in the electrical cabinet, valve cabinet, and exhaust s c: recommend sealing cabinets, determining source of leak and correcting.

**Status** Open  
**Entered** 1/23/2024 2:52:05 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



1000010530.v2.jpg; Added on 1/23/2024 2:52:05 PM by dmychaluk@cm3inc.com



1000010529.v2.jpg; Added on 1/23/2024 2:52:05 PM by dmychaluk@cm3inc.com



1000010531.v2.jpg; Added on 1/23/2024 2:52:06 PM by dmychaluk@cm3inc.com

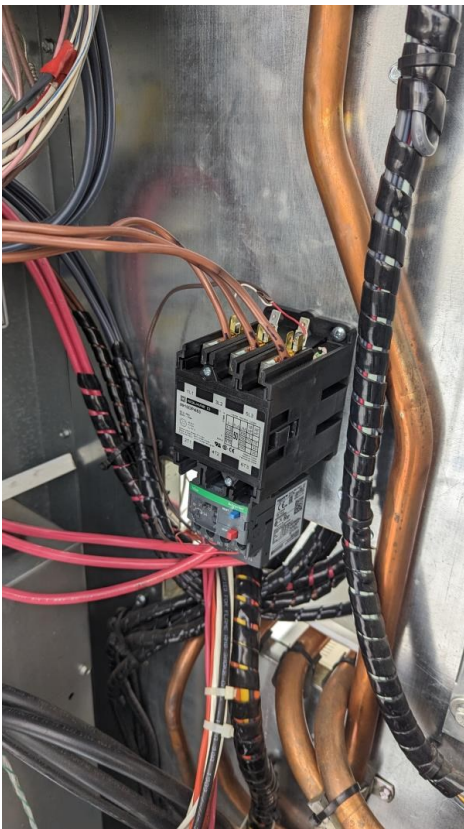
# Functional Checklist And Issues Log

## ISSUE-1099

Project / Wallingford Elementary School / Rooftop Units / RTU-4

Supply fan VFD appears to have been bypassed due to failure. : recommend replacement of the supply fan VFD.

**Status** Open  
**Entered** 1/23/2024 2:55:08 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



1000010533.v2.jpg; Added on 1/23/2024 2:55:08 PM by dmychaluk@cm3inc.com



1000010532.v2.jpg; Added on 1/23/2024 2:55:09 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log



### ISSUE-1100

Project / Wallingford Elementary School / Rooftop Units / RTU-4

corrosion found on refrigerant fittings. : Recommend correction of corrosion and sealing as needed.

<b>Status</b>	Open
<b>Entered</b>	1/23/2024 2:56:05 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Mechanical
<b>Category</b>	Mechanical
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	Open
<b>Due Date</b>	1/30/2024 12:00:00 AM

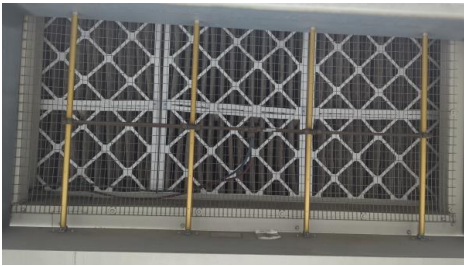
# Functional Checklist And Issues Log

## ISSUE-1101

Project / Wallingford Elementary School / Rooftop Units / RTU-4

OA filters are dirty and require replacement. : recommend replacement of the filters.

**Status** Open  
**Entered** 1/23/2024 2:57:28 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



17060398372098037931128485379795.v2.jpg; Added on 1/23/2024 2:57:29 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log



### ISSUE-1102

Project / Wallingford Elementary School / Rooftop Units / RTU-4

Heat wheel enable is not responding as expected when OA is enable setpoint is lowered. :  
Recommend correction of programming within the XL 5000 controller to proeprly enable  
the heat wheel.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/23/2024 3:11:41 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Energy
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/30/2024 12:00:00 AM

# Functional Checklist And Issues Log

## RTU-5

Project / Wallingford Elementary School / Rooftop Units

RTU

In Progress

	Design	Proposed	Final	Units
Description				Café/Gym
Area Served				Café/Gym

### Notes

dmychaluk@cm3inc.com on 1/9/2024 2:37:31 PM:  
Setpoints and configuration

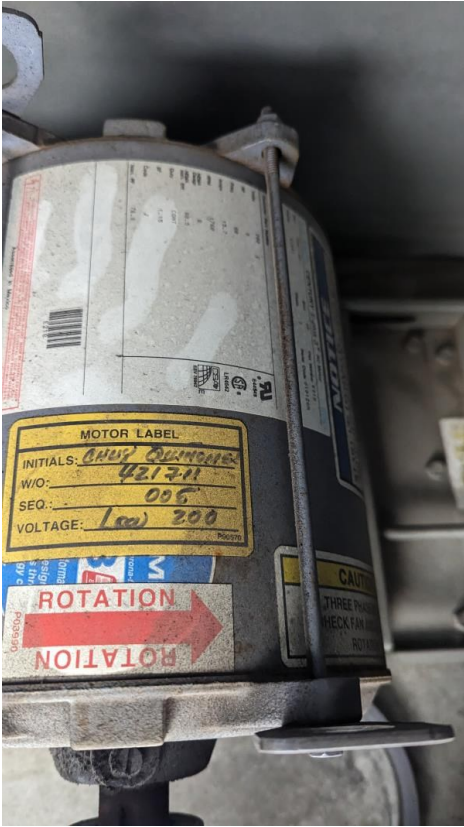
The screenshot displays two side-by-side tables of RTU-5 parameters. The left table lists parameters such as 'RH Reset Signal', 'Dehumidification Disable Setpoint', and 'Space Pressure Setpoint'. The right table lists parameters like 'Outside Air Enthalpy', 'Return Air Enthalpy', and 'Economizer Mode'. Each parameter has a corresponding value and unit.

Parameter	Value	Unit
RH Reset Signal	50	%
Dehumidification Disable Setpoint	0	RH
Dehumidification Enable Setpoint	0	RH
Outside Air Enable Setpoint	10.0	F
Space Pressure Setpoint	0.0	Inwg
Compressor Reversals Valve	0	%
Compressor Stage-1 Modulating	0	%
Compressor Stage-2 Modulating	0	%
Condenser 2-way Valve	0	Open
Dehumidification Mode	Off	
HRV Fail Alarm	Normal	
Morning Warmup Mode	On	
Occupied Cooling Mode	Off	
Occupied Heating Mode	Off	
RTU-5 Occupancy Unoccupancy	Override	
System Enable Disable	Enable	
Supply Air Temperature Setpoint 4	60.0	F
Supply Air Temperature Setpoint 5	55.0	F
Supply Air Temperature Setpoint 6	55.0	F
Morning Coolover Mode	Off	
Enable Heat Wheel Above OAT	10.0	F
Cooling Mode Enable Setpoint	60.0	F
Delayed Supply Air Setpoint	60.0	F
Enable Heat Wheel Below OAT	50.0	F
Outside Air Enthalpy	11	Ent
Return Air Enthalpy	19	Ent
Outside Air Temperature 1 High	65.0	F
Outside Air Temperature 1 Low	31.0	F
Outside Air Temperature 2 High	55.0	F
Outside Air Temperature 2 Low	31.0	F
Override Time Delay	5	Min
Morning Warm Up Enable Setpoint	60.0	F
Morning Warm Up Disable Setpoint	55.0	F
Economizer Mode	Off	
Heating Mode Enable Setpoint	60.0	F
UnOccupied Cooling Mode	Off	
UnOccupied Heating Mode	Off	
Occupancy Mode	DisAbk	
Override Mode	DisAbk	
UnOcc Cooling Supply Air Setpoint	60.0	F
UnOcc Cooling Enable Setpoint	60.0	F
UnOcc Heating Supply Air Setpoint	60.0	F
UnOcc Heating Enable Setpoint	60.0	F
Room Humidity Setpoint	60	RI
Morning Cooling Down Enable	75.0	F
Morning Cooling Down Disable	75.0	F

WES.RTU.5.PARM.png; Added on 1/9/2024 2:37:31 PM by dmychaluk@cm3inc.com

WALLINGFORD SCHOOL DISTRICT  
**Functional Checklist And Issues Log**

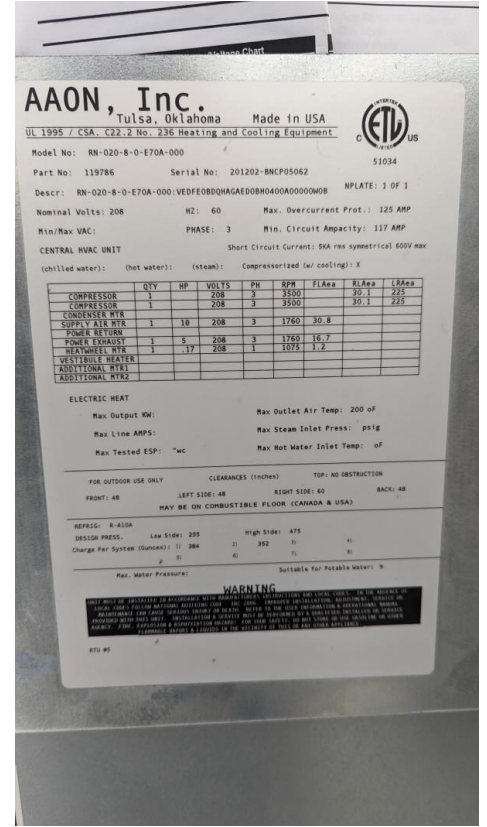
dmychaluk@cm3inc.com on 1/23/2024 3:22:22 PM:  
 Unit nameplate and overview



1000010540.v2.jpg; Added on 1/23/2024 3:22:23 PM by dmychaluk@cm3inc.com



1000010544.v2.jpg; Added on 1/23/2024 3:22:23 PM by dmychaluk@cm3inc.com



1000010543.v2.jpg; Added on 1/23/2024 3:22:24 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

RTU-5 WORK

**Functional Checklist**

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Return Air Temperature	AI	----	----	----	----	----	----	65.7	66.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Temperature	AI	----	----	----	----	----	----	65.8	64.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	return Air Humidity	AI	----	----	----	----	----	----	28.4	25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	output good on controller
----	Compressor 1 Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 2 Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 2 Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Hot Gas Reheat	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Mixed Air Damper Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Damper Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Low Temperature Detector	BI	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Zone Humidity	AI	----	----	----	----	----	----	----	13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Zone CO2	AI	----	----	----	----	----	----	----	268	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----

### Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Space Static Pressure	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	OA Flow	AI	----	----	----	----	----	----	----	1937	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	VBO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Room Humidity Setpoint	Stpnt	----	----	----	----	----	----	----	50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 2:32:37 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 4:19:45 PM

## Functional Checklist And Issues Log

### Pre-Functional Checklist

#### AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Integrity of door seals and panel penetrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Heating, Cooling, and Preheat Coil condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter condition and cleanliness	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Filter block off plate and seal integrity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Decking and curb for roof mounted equipment is insulated and airtight	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Sensor locations follow best practices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Condensate pan clean and flowing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flex connection from blower motor to duct transition is intact and free from tearing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Outside air damper blade seals are intact and sealing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 2:35:06 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 2:36:16 PM

**Functional Checklist And Issues Log**



## Functional Checklist And Issues Log

### RTU-5 ISSUES

#### ISSUE-1103

Project / Wallingford Elementary School / Rooftop Units / RTU-5

Outside air filters are clogged and dirty. : recommend replacement of filters and increasing PM frequency

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/23/2024 3:42:42 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Mechanical
<b>Category</b>	Mechanical
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/30/2024 12:00:00 AM

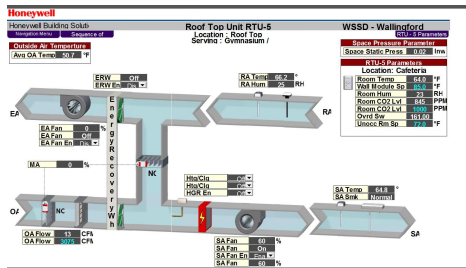
# Functional Checklist And Issues Log

## ISSUE-1104

Project / Wallingford Elementary School / Rooftop Units / RTU-5

when OA heat wheel enable setpoint is lowered the heat wheel does not engage manually.  
Economizer mode also does not enable with modification of parameters. : recommend  
correction of programming logic in the XL 5000 controller.

**Status** Open  
**Entered** 1/23/2024 3:51:52 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Energy  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



25139377\_RTU5.png; Added on 1/23/2024 3:53:25 PM by danhainey@cm3inc.com

# Functional Checklist And Issues Log

## RTU-6

Project / Wallingford Elementary School / Rooftop Units

RTU

In Progress

	Design	Proposed	Final	Units
Description				Music Classrooms
Area Served				Music Classrooms

### Notes

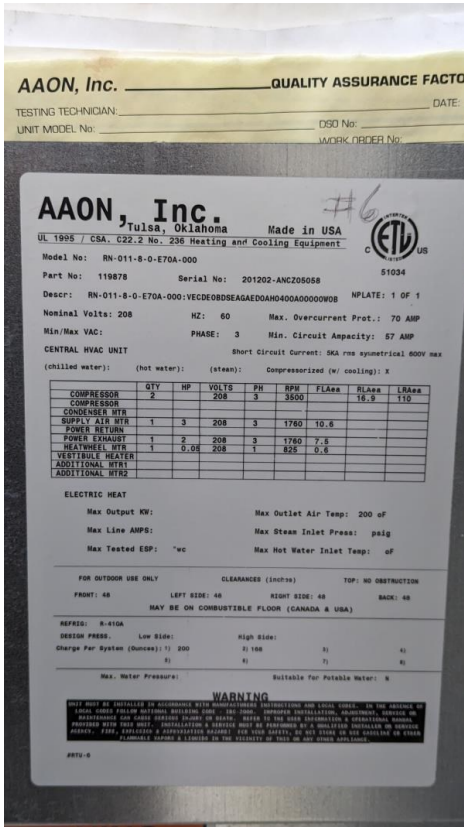
dmychaluk@cm3inc.com on 1/9/2024 2:39:43 PM:  
Setpoints and configuration

Sequence #	Location	Roof Top Services	Classrooms	RTU-6
1	Roof Top Unit	RTU-6 Parameters		
2	Roof Top Unit	RTU-6 Parameters		
3	Roof Top Unit	RTU-6 Parameters		
4	Roof Top Unit	RTU-6 Parameters		
5	Roof Top Unit	RTU-6 Parameters		
6	Roof Top Unit	RTU-6 Parameters		
7	Roof Top Unit	RTU-6 Parameters		
8	Roof Top Unit	RTU-6 Parameters		
9	Roof Top Unit	RTU-6 Parameters		
10	Roof Top Unit	RTU-6 Parameters		
11	Roof Top Unit	RTU-6 Parameters		
12	Roof Top Unit	RTU-6 Parameters		
13	Roof Top Unit	RTU-6 Parameters		
14	Roof Top Unit	RTU-6 Parameters		
15	Roof Top Unit	RTU-6 Parameters		
16	Roof Top Unit	RTU-6 Parameters		
17	Roof Top Unit	RTU-6 Parameters		
18	Roof Top Unit	RTU-6 Parameters		
19	Roof Top Unit	RTU-6 Parameters		
20	Roof Top Unit	RTU-6 Parameters		
21	Roof Top Unit	RTU-6 Parameters		
22	Roof Top Unit	RTU-6 Parameters		
23	Roof Top Unit	RTU-6 Parameters		
24	Roof Top Unit	RTU-6 Parameters		
25	Roof Top Unit	RTU-6 Parameters		
26	Roof Top Unit	RTU-6 Parameters		
27	Roof Top Unit	RTU-6 Parameters		
28	Roof Top Unit	RTU-6 Parameters		
29	Roof Top Unit	RTU-6 Parameters		
30	Roof Top Unit	RTU-6 Parameters		
31	Roof Top Unit	RTU-6 Parameters		
32	Roof Top Unit	RTU-6 Parameters		
33	Roof Top Unit	RTU-6 Parameters		
34	Roof Top Unit	RTU-6 Parameters		
35	Roof Top Unit	RTU-6 Parameters		
36	Roof Top Unit	RTU-6 Parameters		
37	Roof Top Unit	RTU-6 Parameters		
38	Roof Top Unit	RTU-6 Parameters		
39	Roof Top Unit	RTU-6 Parameters		
40	Roof Top Unit	RTU-6 Parameters		
41	Roof Top Unit	RTU-6 Parameters		
42	Roof Top Unit	RTU-6 Parameters		
43	Roof Top Unit	RTU-6 Parameters		
44	Roof Top Unit	RTU-6 Parameters		
45	Roof Top Unit	RTU-6 Parameters		
46	Roof Top Unit	RTU-6 Parameters		
47	Roof Top Unit	RTU-6 Parameters		
48	Roof Top Unit	RTU-6 Parameters		
49	Roof Top Unit	RTU-6 Parameters		
50	Roof Top Unit	RTU-6 Parameters		
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52	Roof Top Unit	RTU-6 Parameters		
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74	Roof Top Unit	RTU-6 Parameters		
75	Roof Top Unit	RTU-6 Parameters		
76	Roof Top Unit	RTU-6 Parameters		
77	Roof Top Unit	RTU-6 Parameters		
78	Roof Top Unit	RTU-6 Parameters		
79	Roof Top Unit	RTU-6 Parameters		
80	Roof Top Unit	RTU-6 Parameters		
81	Roof Top Unit	RTU-6 Parameters		
82	Roof Top Unit	RTU-6 Parameters		
83	Roof Top Unit	RTU-6 Parameters		
84	Roof Top Unit	RTU-6 Parameters		
85	Roof Top Unit	RTU-6 Parameters		
86	Roof Top Unit	RTU-6 Parameters		
87	Roof Top Unit	RTU-6 Parameters		
88	Roof Top Unit	RTU-6 Parameters		
89	Roof Top Unit	RTU-6 Parameters		
90	Roof Top Unit	RTU-6 Parameters		
91	Roof Top Unit	RTU-6 Parameters		
92	Roof Top Unit	RTU-6 Parameters		
93	Roof Top Unit	RTU-6 Parameters		
94	Roof Top Unit	RTU-6 Parameters		
95	Roof Top Unit	RTU-6 Parameters		
96	Roof Top Unit	RTU-6 Parameters		
97	Roof Top Unit	RTU-6 Parameters		
98	Roof Top Unit	RTU-6 Parameters		
99	Roof Top Unit	RTU-6 Parameters		
100	Roof Top Unit	RTU-6 Parameters		

WES.RTU.6.PARM.png; Added on 1/9/2024 2:39:43 PM by dmychaluk@cm3inc.com

WALLINGFORD SCHOOL DISTRICT  
**Functional Checklist And Issues Log**

dmychaluk@cm3inc.com on 1/23/2024 4:59:36 PM:  
 Unit nameplate and overview



100010577.v2.jpg; Added on 1/23/2024 4:59:36 PM by  
 dmychaluk@cm3inc.com



100010578.v2.jpg; Added on 1/23/2024 4:59:36 PM by  
 dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

RTU-6 WORK

### Pre-Functional Checklist

AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Integrity of door seals and panel penetrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Heating, Cooling, and Preheat Coil condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter block off plate and seal integrity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Decking and curb for roof mounted equipment is insulated and airtight	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Sensor locations follow best practices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Condensate pan clean and flowing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flex connection from blower motor to duct transition is intact and free from tearing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Outside air damper blade seals are intact and sealing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 2:40:02 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 2:27:41 PM

### Functional Checklist And Issues Log

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Return Air Temperature	AI	----	----	----	----	----	----	72.1	73.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Temperature	AI	----	----	----	----	----	----	68.8	70.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Static Pressure	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Enable	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Compressor failed appears to be under repair
----	Compressor 1 Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 2 Enable	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 2 Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Hot Gas Reheat	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Mixed Air Damper Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Enable	BO	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Low Temperature Detector	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Static Pressure	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	OA Flow	AI	----	----	----	----	----	----	----	365	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

### Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Energy Wheel Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	VBO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 2:41:30 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 2:35:39 PM

**Functional Checklist And Issues Log**

**ISSUE-1110**

Project / Wallingford Elementary School / Rooftop Units / RTU-6

Exhaust fan belt starting to show wear, may be slightly off alignment. : recommend verification and correcting belt alignment.

**Status** Open  
**Entered** 1/23/2024 5:06:42 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



1000010580.v2.jpg; Added on 1/23/2024 5:06:43 PM by dmychaluk@cm3inc.com



1000010579.v2.jpg; Added on 1/23/2024 5:06:43 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1111

Project / Wallingford Elementary School / Rooftop Units / RTU-6

Outside air filters are dirty and require replacement. : recommend replacement of filters and increasing pm frequency.

**Status** Open  
**Entered** 1/23/2024 5:08:39 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



1000010581.v2.jpg; Added on 1/23/2024 5:08:39 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1112

Project / Wallingford Elementary School / Rooftop Units / RTU-6

oa cfm sensor not reading correctly. ; recommend reprogramming controller to no longer use OA cfm and instead keep a minimum OA damper position

**Status** Open  
**Entered** 1/23/2024 5:18:14 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



57108289\_PXL\_20240123\_221530408.v2.jpg; Added on 1/23/2024 5:18:57 PM by dmychaluk@cm3inc.com



57498900\_PXL\_20240123\_221547653.v2.jpg; Added on 1/23/2024 5:18:57 PM by dmychaluk@cm3inc.com



58295722\_PXL\_20240123\_221555767.v2.jpg; Added on 1/23/2024 5:18:58 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1312

Project / Wallingford Elementary School / Rooftop Units / RTU-6

Curb rubber canvas is failed around the entire unit and is no longer attached. Air is actively flowing out of the curb seal: recommend replacement of curb or attempting to seal the curb.

**Status** Open  
**Entered** 2/13/2024 2:34:14 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Energy  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 2/20/2024 12:00:00 AM



PXL\_20240123\_223756130.jpg; Added on 2/13/2024 2:34:14 PM by dmychaluk@cm3inc.com

# RTU-7

Project / Wallingford Elementary School / Rooftop Units

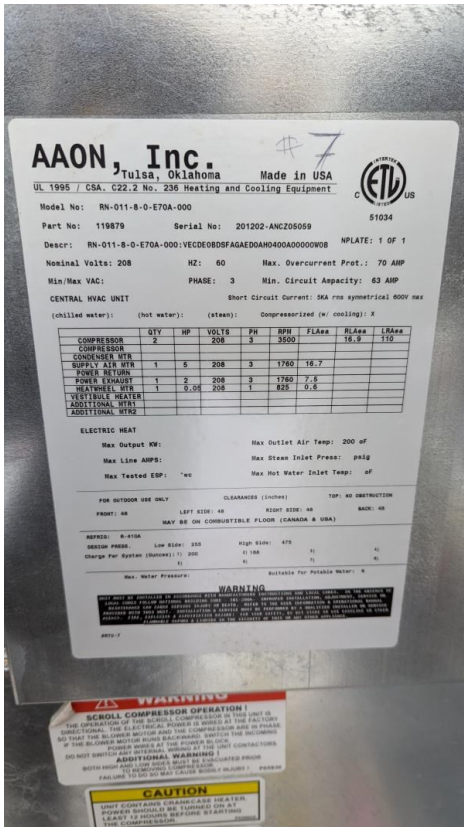
RTU

In Progress

	Design	Proposed	Final	Units
Description				Library
Area Served				Library

## Notes

dmychaluk@cm3inc.com on 1/23/2024 4:26:24 PM:  
 Nameplate and overview



PXL\_20240123\_212356431.v2.jpg; Added on 1/23/2024 4:26:25 PM by dmychaluk@cm3inc.com

PXL\_20240123\_212317221.v2.jpg; Added on 1/23/2024 4:26:24 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

RTU-7 WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Return Air Temperature	AI	----	----	----	----	----	----	83	86.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Temperature	AI	----	----	----	----	----	----	81	82	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Static Pressure	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Enable	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Compressor 1 Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Compressor 2 Enable	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Compressor 2 Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Reversing Valve	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Hot Gas Reheat	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Mixed Air Damper Cmd	AO	----	----	Bad	Bad	Bad	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Damper Cmd	AO	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	AO	----	----	Ok	Ok	Ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Exhaust Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Low Temperature Detector	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Static Pressure	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	OA Flow	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

#### Functional Checklist And Issues Log

### Functional Checklist And Issues Log

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Energy Wheel Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Energy Wheel Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	VBO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 3:00:27 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 5:01:10 PM

# Functional Checklist And Issues Log

## Pre-Functional Checklist

AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Integrity of door seals and panel penetrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Heating, Cooling, and Preheat Coil condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter block off plate and seal integrity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Decking and curb for roof mounted equipment is insulated and airtight	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Sensor locations follow best practices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Condensate pan clean and flowing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flex connection from blower motor to duct transition is intact and free from tearing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Outside air damper blade seals are intact and sealing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 3:00:36 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 2:27:09 PM

**Functional Checklist And Issues Log**



**ISSUE-1016**

Project / Wallingford Elementary School / Rooftop Units / RTU-7

Heat wheel enable setpoints were modified however they do not automatically enable the heat wheel. : Recommend correction of the logic within the XL 5000 controller.

**Status** Open  
**Entered** 1/9/2024 2:53:42 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/16/2024 12:00:00 AM

Roof Top Unit RTU-4 Parameters		Roof Top Unit RTU-4 Parameters	
RH Reset Signal	25 %	Morning CoolDown Mode	Off
Compressor Stage-1 Modulating	100 %	Morning Warmup Mode	Off
Compressor Stage-2 Modulating	100 %	Override Mode	Disable
Dehumidification Disable Setpoint	50 RH	UnOccupied Cooling Mode	Off
Dehumidification Enable Setpoint	70 RH	UnOccupied Heating Mode	Off
Outside Air Enable Setpoint	60 %	UnOccupied Cooling Enable Setpoint	60.0 %
Compressor Reversing Valve	Close	UnOccupied Heating Enable Setpoint	60.0 %
Condenser Loop Valve	Close	Outside Air Temperature Energy Wheel	50.0 %
Dehumidification Mode	Off	Outside Air Temperature Cooling 1 High	55.0 %
HRNF Fall Alarm	Normal	Outside Air Temperature Cooling 1 Low	55.0 %
Occupied Cooling Mode	On	Outside Air Temperature Cooling 2 High	72.0 %
Occupied Heating Mode	On	Outside Air Temperature Cooling 2 Low	57.0 %
RTU-7 Occupancy UnOccupancy	Occupied	Outside Air Temperature Cooling Setpoint	65.0 %
System Enable Disable	Enable	Outside Air Temperature Heating 1 High	60.0 %
Supply Air Pressure	1.43 Inwg	Outside Air Temperature Heating 1 Low	54.0 %
Supply Air Cooling Setpoint	55.0 %	Outside Air Temperature Heating 2 High	60.0 %
Supply Air Temperature Setpoint 1	55.0 %	Outside Air Temperature Heating 2 Low	54.0 %
Supply Air Temperature Setpoint 2	55.0 %	Outside Air Temperature Heating Low	50.0 %
Supply Air Temperature Setpoint 3	55.0 %	Outside Air Temperature Heating Low	50.0 %
Supply Air Temperature Setpoint 4	55.0 %	Maximum Relative Humidity	8 %
Supply Air Temperature Setpoint 5	55.0 %	Morning CoolDown Supply Air Setpoint	55.0 %
Supply Air Temperature Setpoint 6	55.0 %	Morning Cooling Disable Setpoint	75.0 %
UnOccupied Cooling Setpoint	60.0 %	Morning Cooling Enable Setpoint	75.0 %
UnOccupied Heating Setpoint	60.0 %	Morning Warmup Supply Air Setpoint	60.0 %
WarmUp Enable Setpoint	60.0 %		
WarmUp Disable Setpoint	60.0 %		

WES.RTU.7.PARM.png; Added on 1/9/2024 2:53:43 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1105

Project / Wallingford Elementary School / Rooftop Units / RTU-7

OA/Mixed damper shows 100% open in the BAS, actual position is closer to 10%. Damper does not modulate when tested at other positions.: Recommend replacement of the XL5000 controller or based on other unit failures integrate a new RTU via Bacnet to the BAS.

<b>Status</b>	Open
<b>Entered</b>	1/23/2024 4:31:14 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	Open
<b>Due Date</b>	1/30/2024 12:00:00 AM

# Functional Checklist And Issues Log

## ISSUE-1106

Project / Wallingford Elementary School / Rooftop Units / RTU-7

Curb rubber canvas is failed around the entire unit and is no longer attached. Air is actively flowing out of the curb seal: recommend replacement of curb or attempting to seal the curb.

**Status** Open  
**Entered** 1/23/2024 4:34:39 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Energy  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



1000010571.v2.jpg; Added on 1/23/2024 4:34:39 PM by dmychaluk@cm3inc.com



1000010572.v2.jpg; Added on 1/23/2024 4:34:40 PM by dmychaluk@cm3inc.com



1000010569.v2.jpg; Added on 1/23/2024 4:34:40 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

#### ISSUE-1107

Project / Wallingford Elementary School / Rooftop Units / RTU-7

heat wheel belt or motor making a loud noise when enabled, heat wheel appears to not have operated for a long period of time. : Recommend servicing of the heat wheel.

**Status** Open  
**Entered** 1/23/2024 4:42:49 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



28952207\_17060461978812014726848197810922.v2.jpg;  
Added on 1/23/2024 4:43:28 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1108

Project / Wallingford Elementary School / Rooftop Units / RTU-7

Coil frame is badly rusted and should be remediated or replaced. Replacement of unit may be a viable option in a 5 year plan.

**Status** Open  
**Entered** 1/23/2024 4:49:08 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



PXL\_20240123\_214739142.v2.jpg; Added on 1/23/2024 4:49:08 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1109

Project / Wallingford Elementary School / Rooftop Units / RTU-7

Compressors appear to be mechanically disabled most likely on low pressure due to recovery tanks and tank of 410A near the unit. The compressors are not engaging on this unit and the OA damper does not open, no cooling available for this unit currently. : Recommend verification of mechanical repairs and proposing repairs as needed.

<b>Status</b>	Open
<b>Entered</b>	1/23/2024 4:49:39 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Mechanical
<b>Category</b>	Mechanical
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	Open
<b>Due Date</b>	1/30/2024 12:00:00 AM

# Functional Checklist And Issues Log

## RTU-8

Project / Wallingford Elementary School / Rooftop Units

RTU

In Progress

	Design	Proposed	Final	Units
Description				Office Admin Area
Area Served				Office Admin Area

### Notes

dmychaluk@cm3inc.com on 1/9/2024 3:02:38 PM:  
Setpoints and configuration

Sequence of

Roof Top Unit RTU-8		WSSD - Wallingford	
Location : Roof Top		Units	
Servicing : Classrooms			
Roof Top Unit RTU-8 Parameters			
Compressor Stage-1 Modulating	100	%	F
Compressor Stage-2 Modulating	100	%	F
Dehumidification Disable Setpoint	50	RH	F
Dehumidification Enable Setpoint	60	RH	F
Outside Air Enable Setpoint	60.0	F	F
RT Near Signal	55	%	F
Compressor Reversing Valve	Close	F	F
Condensator 2-way Valve	Close	F	F
Dehumidification Mode	Off	F	F
Morning Cooldown Mode	Off	F	F
Morning Warmup Mode	Off	F	F
Occupied Cooling Mode	On	F	F
Occupied Heating Mode	On	F	F
RTU-8 Occupancy UnOccupancy	Occupied	F	F
System Enable Disable	Enable	F	F
Supply Air Pressure	1.13	Inch	F
Supply Air Cooling Setpoint	55.0	F	F
Supply Air Temperature Setpoint 1	55.0	F	F
Supply Air Temperature Setpoint 2	55.0	F	F
Supply Air Temperature Setpoint 3	55.0	F	F
Supply Air Temperature Setpoint 4	55.0	F	F
Supply Air Temperature Setpoint 5	55.0	F	F
Supply Air Temperature Setpoint 6	55.0	F	F
Maximum Relative Humidity	0	RH	F
Supply Air Humidity Setpoint	0	RH	F
Roof Top Unit RTU-8 Parameters			
Morning Cooldown Setpoint	55.0	F	F
Morning Cooling Disable Setpoint	55.0	F	F
Morning Cooling Enable Setpoint	55.0	F	F
Morning Warmup Supply Air Setpoint	55.0	F	F
Warmup Enable Setpoint	55.0	F	F
Warmup Disable Setpoint	55.0	F	F
Outside Air Temperature Cooling 1	55.0	F	F
Outside Air Temperature Cooling 1 Low	55.0	F	F
Outside Air Temperature Cooling 2	55.0	F	F
Outside Air Temperature Cooling 2 Low	55.0	F	F
Outside Air Temperature	55.0	F	F
Outside Air Temperature Heating 1	55.0	F	F
Outside Air Temperature Heating 1 Low	55.0	F	F
Outside Air Temperature Heating 2	55.0	F	F
Outside Air Temperature Heating 2 Low	55.0	F	F
Outside Air Temperature Heating Low	55.0	F	F
Supply Duct High Static Alarm	Normal	Inch	F
Static Pressure Setpoint	1.49	Inch	F
UnOccupied Cooling Enable SP	55.0	F	F
UnOccupied Heating Enable SP	55.0	F	F
UnOccupied Cooling Supply Air	55.0	F	F
UnOccupied Heating Supply Air	55.0	F	F
Override Mode	Disable	F	F
UnOccupied Cooling Mode	Off	F	F
UnOccupied Heating Mode	Off	F	F
Supply Air Cooling Setpoint	55.0	F	F

WES.RTU.8.Parm.png; Added on 1/9/2024 3:02:38 PM by dmychaluk@cm3inc.com

WALLINGFORD SCHOOL DISTRICT  
**Functional Checklist And Issues Log**

dmychaluk@cm3inc.com on 1/23/2024 5:27:13 PM:  
 Unit nameplate and overview



PXL\_20240123\_222353685.v2.jpg; Added on 1/23/2024 5:27:14 PM by dmychaluk@cm3inc.com



PXL\_20240123\_222340146.v2.jpg; Added on 1/23/2024 5:27:14 PM by dmychaluk@cm3inc.com

**AAON, Inc.** Tulsa, Oklahoma Made in USA  
 UL 1995 / CSA C22.2 No. 236 Heating and Cooling Equipment

Model No: RN-011-S-0-E70A-000  
 Part No: 119880 Serial No: 201202-ANCZ05060  
 Descr: RN-011-S-0-E70A-000:A000E0B0EAGAE0FH040A000000B NPLATE: 1 OF 1  
 Nominal Volts: 208 HZ: 60 Max. Overcurrent Prot.: 60 AMP  
 Min/Max VAC: PHASE: 3 Min. Circuit Ampacity: 49 AMP  
 CENTRAL HVAC UNIT Short Circuit Current: 50A rms asymmetrical 800V max  
 (chilled water): (hot water): (steam): Compressorized (w/ cooling): X

	QTY	HP	VOLTS	PH	RPM	FLA <sub>max</sub>	FLA <sub>amp</sub>	LR <sub>max</sub>
COMPRESSOR	2		208	3	3500		16.8	110
CONDENSER WTR								
SUPPLY AIR WTR	1	3	208	3	1760	10.6		
POWER RETURN								
POWER EXHAUST								
HEATWHEEL WTR								
VESTIBLE HEATER								
ADDITIONAL WTR1								
ADDITIONAL WTR2								

**ELECTRIC HEAT**  
 Max Output KW: Max Outlet Air Temp: 200 oF  
 Max Line AMPS: Max Steam Inlet Press: psig  
 Max Tested ESP: "wc Max Hot Water Inlet Temp: oF

FOR OUTDOOR USE ONLY CLEARANCES (inches) TOP: NO OBSTRUCTION  
 FRONT: 48 LEFT SIDE: 48 RIGHT SIDE: 48 BACK: 48  
 MAY BE ON COMBUSTIBLE FLOOR (CANADA & USA)

REFRIG: R-410A  
 DESIGN PRESS. Low Side: High Side: 21 100 21 41  
 Charge Per System (ounces): 1) 200 2) 100 3) 71 4) 41

Max. Water Pressure: Suitable for Potable Water: X

**WARNING**  
 UNIT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND LOCAL CODES. ON THE BASIS OF THESE DATA, THE USER MUST PROVIDE PROPER CLEARANCES, SUPPORTS, VENTING, EXHAUSTION, CONDENSATE, SERVICE AND MAINTENANCE AND PROTECT AGAINST DAMAGE TO THE UNIT. REFER TO THE USER INFORMATION & OPERATIONAL MANUAL FOR ADDITIONAL AND OTHER INFORMATION. A WARNING MUST BE PROVIDED BY A QUALIFIED INSTALLER IN WRITING BEFORE THE UNIT IS USED. CONSULTATION & SERVICE MUST BE PROVIDED BY A QUALIFIED INSTALLER IN WRITING BEFORE THE UNIT IS USED. CONSULTATION & SERVICE MUST BE PROVIDED BY A QUALIFIED INSTALLER IN WRITING BEFORE THE UNIT IS USED. CONSULTATION & SERVICE MUST BE PROVIDED BY A QUALIFIED INSTALLER IN WRITING BEFORE THE UNIT IS USED.

#RTU-B

## Functional Checklist And Issues Log

RTU-8 WORK

### Pre-Functional Checklist

AHU Pre-Functional Checklist

Inspection and Verification	Pass	Fail	NA	Comments
Integrity of insulation on pipework	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Integrity of door seals and panel penetrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Heating, Cooling, and Preheat Coil condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter condition and cleanliness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Filter block off plate and seal integrity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Decking and curb for roof mounted equipment is insulated and airtight	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Sensor locations follow best practices	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Condensate pan clean and flowing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flex connection from blower motor to duct transition is intact and free from tearing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Outside air damper blade seals are intact and sealing properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 3:01:04 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 2:26:29 PM

## Functional Checklist And Issues Log

### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Return Air Temperature	AI	----	----	----	----	----	----	71.4	73.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Temperature	AI	----	----	----	----	----	----	65.5	66.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Air Static Pressure	AI	----	----	----	----	----	----	----	1.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Compressor 1 Enable	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Compressor 1 Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Compressor 2 Enable	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Compressor 2 Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Reversing Valve	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Hot Gas Reheat	BO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Mixed Air Damper Cmd	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Supply Fan Enable	BO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	AO	----	----	ok	ok	ok	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	BI	----	----	----	----	----	ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Space Static Pressure	AI	----	----	----	----	----	----	----	-0.06	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	OA Flow	AI	----	----	----	----	----	----	----	761	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy	VBO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	----	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/9/2024 3:06:18 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 6:21:08 PM

## Functional Checklist And Issues Log

**Functional Checklist And Issues Log**



**Functional Checklist And Issues Log**



**ISSUE-1113**

Project / Wallingford Elementary School / Rooftop Units / RTU-8

Curb rubber canvas is failed around the entire unit and is no longer attached. Air is actively flowing out of the curb seal: recommend replacement of curb or attempting to seal the curb.

**Status** Open  
**Entered** 1/23/2024 5:28:41 PM  
**Entered By** danhainey@cm3inc.com  
**Priority** Energy  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



54490918\_PXL\_20240123\_222245166.v2.jpg; Added on 1/23/2024 5:34:54 PM by dmychaluk@cm3inc.com



54850305\_PXL\_20240123\_222353685.v2.jpg; Added on 1/23/2024 5:34:54 PM by dmychaluk@cm3inc.com



55169758\_PXL\_20240123\_222429815.v2.jpg; Added on 1/23/2024 5:34:55 PM by dmychaluk@cm3inc.com

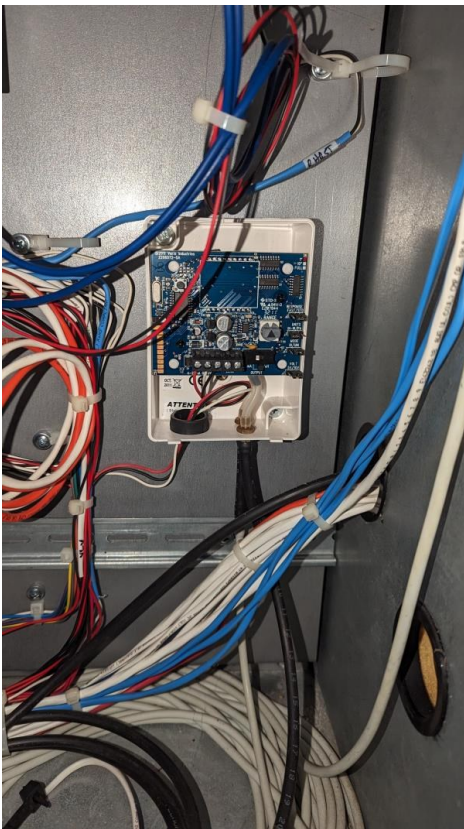
## Functional Checklist And Issues Log

### ISSUE-1114

Project / Wallingford Elementary School / Rooftop Units / RTU-8

Space pressure sensor is reading - values and is missing it's cover. Recommend replacement of sensor.

**Status** Open  
**Entered** 1/23/2024 5:34:23 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



PXL\_20240123\_223205271.v2.jpg; Added on 1/23/2024 5:34:23 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# SOV-101 Admin

Project / Wallingford Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-13				
Location	Ceiling of room				
Association	RTU-8				

**SOV-101 ADMIN WORK**

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	68	68.2	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	110	112	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	443	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	OK	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	OK	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	470	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cooling setpoint too close to heat, adjusted to 72 Deg F.
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	85	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	79	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

### Functional Checklist And Issues Log

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/3/2024 5:24:21 PM

Marked complete by dmychaluk@cm3inc.com on 1/22/2024 7:11:17 PM

**ISSUE-1090**

Project / Wallingford Elementary School / SOV / SOV-101 Admin

Linear diffuser is meant to be in the center of the waiting area in line with the column. Appears there is ample room to achieve this design and will assist with general office comfort conditioning outside air infiltration from the main entrance.

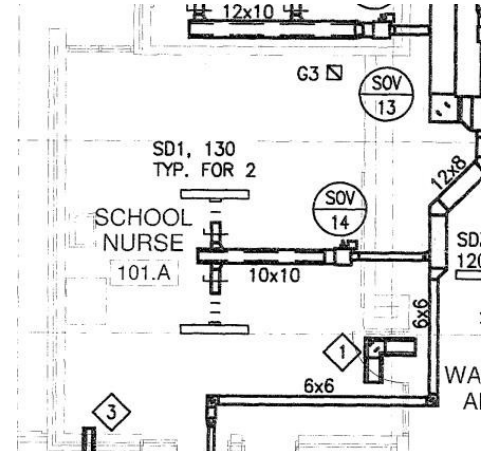
**Status** Open  
**Entered** 1/22/2024 8:22:31 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



PXL\_20240123\_012032246.v2.jpg; Added on 1/22/2024 8:22:31 PM by dmychaluk@cm3inc.com



PXL\_20240123\_011746428.v2.jpg; Added on 1/22/2024 8:22:32 PM by dmychaluk@cm3inc.com



36400074\_AdminDiffuser.png; Added on 1/22/2024 8:24:36 PM by danhainey@cm3inc.com

**Functional Checklist And Issues Log**

# SOV-101 Nurse

Project / Wallingford Elementary School / SOV

SOV

**In Progress**

		Design	Proposed	Final	Units
Description	SOV-14				
Location	Ceiling of room				
Association	RTU-8				

**SOV-101 NURSE WORK**

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	71.9	69.5	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	103.5	105.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	261	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	OK	OK	OK	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	OK	OK	OK	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	OK	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	261	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	78.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:40 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 8:25:12 PM

# Functional Checklist And Issues Log

## SOV-101 NURSE ISSUES

### ISSUE-1089

Project / Wallingford Elementary School / SOV / SOV-101 Nurse

Nurses station has 2 diffusers and two exterior facing walls. The area is significantly colder than other areas of similar size. It appears this was an oversight by the engineer. : recommend review of the space served and adding additional diffusers for this area

**Status** Open  
**Entered** 1/22/2024 8:12:43 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



PXL\_20240123\_010744147.v2.jpg; Added on 1/22/2024 8:12:43 PM by dmychaluk@cm3inc.com



29290939\_PXL\_20240123\_011258457.v2.jpg; Added on 1/22/2024 8:13:29 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# SOV-101.C Exam

Project / Wallingford Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-12				
Location	Ceiling of room				
Association	RTU-8				

SOV-101.C EXAM WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	70.6	57.4	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	98.7	122	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	106	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	110	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:40 PM

**Marked complete by** dmychaluk@cm3inc.com on 2/13/2024 2:25:31 PM

SOV-101.C EXAM ISSUES

**ISSUE-1088**

Project / Wallingford Elementary School / SOV / SOV-101.C Exam

Zone sensor is failed reading 57.4 Deg F, actual temp is 70.6. Discharge sensor reading 122 Deg F actual is 98.7 : Recommend replacement of both sensors or XL 10 controller if it is deemed failed.

**Status** Open  
**Entered** 1/22/2024 7:59:59 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/30/2024 12:00:00 AM



31047520\_PXL\_20240123\_005737080.v2.jpg; Added on 1/22/2024 8:00:31 PM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# SOV-101.D Conf

Project / Wallingford Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-11				
Location	Ceiling of room				
Association	RTU-8				

SOV-101.D CONF WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	68.5	68.3	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	109	110	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	273	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	269	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	71.5	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:39 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 7:19:00 PM

Functional Checklist And Issues Log

# SOV-101.E Guide Office

Project / Wallingford Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-10				
Location	Ceiling of room				
Association	RTU-8				

SOV-101.E GUIDE OFFICE WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	71.7	72.6	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	97.5	95.6	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	184	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	210	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	78.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:39 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 7:30:12 PM

## Functional Checklist And Issues Log

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SOV-101.E GUIDE OFFICE ISSUES

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### ISSUE-1086

Project / Wallingford Elementary School / SOV / SOV-101.E Guide Office

Unit 101.E is actually 101.H in the BAS, appears to have been mislabeled since the system was put in place. This will need to be considered when completing the Niagara BAS integration.

<b>Status</b>	Open
<b>Entered</b>	1/22/2024 7:26:29 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	Open
<b>Due Date</b>	1/30/2024 12:00:00 AM

Functional Checklist And Issues Log

# SOV-101.G Psy Office

Project / Wallingford Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-10				
Location	Ceiling of room				
Association	RTU-8				

SOV-101.G PSY OFFICE WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	Bl	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	72.5	72.1	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	87.2	86.9	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	208	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	210	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	72.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:38 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 7:37:34 PM

Functional Checklist And Issues Log

# SOV-101.H Tech Office

Project / Wallingford Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-10				
Location	Ceiling of room				
Association	RTU-8				

SOV-101.H TECH OFFICE WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	76.2	75.8	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	89.7	89.8	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	55	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	----	----	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	40	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	77.4	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:38 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 7:43:28 PM

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Functional Checklist And Issues Log

# SOV-101.J Princpal

Project / Wallingford Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-9				
Location	Ceiling of room				
Association	RTU-8				

SOV-101.J PRINCIPAL WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	79.2	80.6	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	110.5	112.3	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	489	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	500	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Occ cooling is too closed to occ heating setpoint. Changed to 72 Deg F.
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	86	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	82.6	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

### Functional Checklist And Issues Log

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/19/2024 2:32:38 PM

Marked complete by dmychaluk@cm3inc.com on 1/22/2024 7:48:05 PM

**Functional Checklist And Issues Log**

# SOV-102 Library-1

Project / Wallingford Elementary School / SOV

SOV

**Complete**

		Design	Proposed	Final	Units
Description	SOV-16				
Area Served	102A				
Location	Above main door				
Association	RTU-7				

**SOV-102 LIBRARY-1 WORK**

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	67.3	66.1	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	----	122	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	1070	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	1081	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:41 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 9:03:42 PM

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Functional Checklist And Issues Log

# SOV-102 Library-2

Project / Wallingford Elementary School / SOV

SOV

In Progress

	Design	Proposed	Final	Units
Description	SOV-16			
Location	Above main door			
Association	RTU-7			

SOV-102 LIBRARY-2 WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	67.2	67	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	----	74.2	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	956	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	871	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Active setpoint not changing
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

Complete

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/19/2024 2:32:42 PM

Marked complete by dmychaluk@cm3inc.com on 1/22/2024 9:06:30 PM

## Functional Checklist And Issues Log

SOV-102 LIBRARY-2 ISSUES

### ISSUE-1091

Project / Wallingford Elementary School / SOV / SOV-102 Library-2

When thermostat dial is modulated to full cooling the heating valve however the active setpoint does not modulate. : Recommend correction when unit is integrated into niagara

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/22/2024 9:03:24 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/30/2024 12:00:00 AM

Functional Checklist And Issues Log

# SOV-103 Comp Room

Project / Wallingford Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-18				
Location	Ceiling of room				
Association	RTU-7				

SOV-103 COMP ROOM WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	69.5	70.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	74	75.5	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	604	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	638	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Too close to heat setpoint. Modified to 72 deg f
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	71.1	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/22/2024 8:48:00 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 9:15:26 PM

Functional Checklist And Issues Log

# SOV-103 Library Workroom

Project / Wallingford Elementary School / SOV

SOV

Complete

	Design	Proposed	Final	Units
Description	SOV-17			
Area Served	Next To 102A			
Location	Outside workroom door			
Association	RTU-7			

SOV-103 LIBRARY WORKROOM WORK

### Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	64.8	64.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	70.8	71.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	38	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	38	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	64.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

### Functional Checklist And Issues Log

## Functional Checklist And Issues Log

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/22/2024 8:48:00 PM

Marked complete by dmychaluk@cm3inc.com on 1/22/2024 8:51:24 PM

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Functional Checklist And Issues Log

# SOV-104 Small Group

Project / Wallingford Elementary School / SOV

SOV

Complete

	Design	Proposed	Final	Units
Description				SOV-21
Location				Corr C3
Association				RTU-6

SOV-104 SMALL GROUP WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	Bl	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	69	71.1	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	108.7	109	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	278	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	OK	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	OK	Ok	OK	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	ok	----	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	290	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	74.2	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:44 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/23/2024 6:30:32 PM

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Functional Checklist And Issues Log

# SOV-105 Music Classroom

Project / Wallingford Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-19				
Location	Storage 106				
Association	RTU-6				

SOV-105 MUSIC CLASSROOM WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	68.1	68.5	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	84.3	87.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	930	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	OK	OK	OK	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	OK	OK	OK	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	949	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	69.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:43 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/23/2024 6:35:25 PM

Functional Checklist And Issues Log

# SOV-106 Instrumental

Project / Wallingford Elementary School / SOV

SOV

Complete

	Design	Proposed	Final	Units
Description				SOV-20
Location				Storage 106
Association				RTU-6

SOV-106 INSTRUMENTAL WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	67.5	67.5	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	70.1	70.5	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	549	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	536	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	modified to 72
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	72	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	modified to 70, heating should never go above cooling setpoint
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	65.2	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

### Functional Checklist And Issues Log

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/19/2024 2:32:44 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 6:43:48 PM

Functional Checklist And Issues Log

# SOV-212 Small Group

Project / Wallingford Elementary School / SOV

SOV

Complete

	Design	Proposed	Final	Units
Description	SOV-1			
Location	Ceiling of room			
Association	RTU-3			

SOV-212 SMALL GROUP WORK

### Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	70.8	69.9	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	70.1	69.8	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	254	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	OK	----	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	250	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	72	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	68	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	85	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:45 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 6:16:33 PM

**Functional Checklist And Issues Log**

# SOV-219 Small Group

Project / Wallingford Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-2				
Location	Ceiling of room				
Association	RTU-3				

**SOV-219 SMALL GROUP WORK**

**Functional Checklist**

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	70.6	70.1	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	70.2	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	523	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	OK	OK	OK	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	OK	OK	OK	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	519	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	68	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	85	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	71	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:45 PM

**Marked complete by** dmychaluk@cm3inc.com on 2/13/2024 2:25:22 PM

# Functional Checklist And Issues Log

## SOV-219 SMALL GROUP ISSUES

### ISSUE-1085

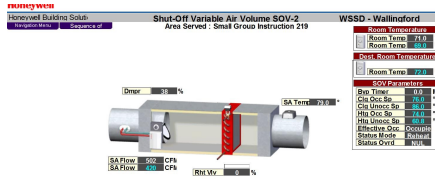
Project / Wallingford Elementary School / SOV / SOV-219 Small Group

Active setpoint is 71 Deg F which is higher than the occupied cooling or heating setpoints. Additionally the thumbwheel dial and BAS override has no effect on the VAV active setpoint. : Recommend verification of point mapping in the BAS and troubleshooting the XL 10 controller for issues.

**Status** Open  
**Entered** 1/22/2024 6:01:21 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/29/2024 12:00:00 AM



27382851\_1000010482.v2.jpg; Added on 1/22/2024 6:03:27 PM by dmychaluk@cm3inc.com



45492895\_SG219.png; Added on 1/22/2024 6:06:45 PM by danhainey@cm3inc.com

Functional Checklist And Issues Log

# SOV-220 Speech

Project / Wallingford Elementary School / SOV

SOV

Complete

		Design	Proposed	Final	Units
Description	SOV-8				
Location	Ceiling of room				
Association	RTU-3				

SOV-220 SPEECH WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	70.5	69.9	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	69.7	69.3	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	326	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	320	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	72	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	68	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	85	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:45 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 5:43:37 PM

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Functional Checklist And Issues Log

# SOV-222 Occ Therapy

Project / Wallingford Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-8				
Location	Ceiling of room				
Association	RTU-3				

SOV-222 OCC THERAPY WORK

### Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	70.7	70.6	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	70.1	69.9	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	227	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	220	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	72	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	68	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	85	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	72	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:46 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 5:32:34 PM

**ISSUE-1083**

Project / Wallingford Elementary School / SOV / SOV-222 Occ Therapy

Thermostat thumb wheel not functional. : recommend setting to active with a 2 Deg F deadband.

**Status** Open  
**Entered** 1/22/2024 5:33:30 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/29/2024 12:00:00 AM

# Functional Checklist And Issues Log

## ISSUE-1084

Project / Wallingford Elementary School / SOV / SOV-222 Occ Therapy

Unit has an active setpoint of 74 Deg F with a zone temperature of 70 Deg F, the damper position and reheat valve are not changing. : Recommend correction of programming or replacement of the XL10 controller.

**Status** Open

**Entered** 1/22/2024 5:36:28 PM

**Entered By** dmychaluk@cm3inc.com

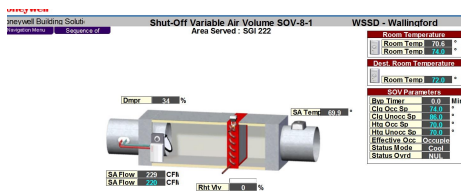
**Priority** Automation

**Category** Automation

**Assigned To** dmychaluk@cm3inc.com

**Respondent Status** Open

**Due Date** 1/29/2024 12:00:00 AM



32687369\_SGI222.png; Added on 1/22/2024 5:38:32 PM by danhainey@cm3inc.com

**Functional Checklist And Issues Log**

# SOV-223 SGI

Project / Wallingford Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-7				
Location	Ceiling of room				
Association	RTU-3				

**SOV-223 SGI WORK**

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	70.7	71	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	71.7	70.6	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	112	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Bad	Bad	Bad	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Actuaotr not properly mounted on shaft
Occupancy Command	DO	----	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	121	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	68	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	86	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	73	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

### Functional Checklist And Issues Log

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/19/2024 2:32:47 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 2:25:12 PM

# Functional Checklist And Issues Log

SOV-223 SGI ISSUES

## ISSUE-1080

Project / Wallingford Elementary School / SOV / SOV-223 SGI

Unit not responding to thermostat dial position or override of the active setpoint. The current active setpoint is higher than both the occupied cooling and heating setpoint. : Recommend correction of configuration within the XL10 controller.

**Status** Open  
**Entered** 1/22/2024 5:17:55 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/29/2024 12:00:00 AM



19225999\_1000010473.v2.jpg; Added on 1/22/2024 5:18:19 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1081

Project / Wallingford Elementary School / SOV / SOV-223 SGI

Damper shows 53% in the BAS actual position is 20-30%. : recommend adjustment of the damper actuator on the shaft.

**Status** Open  
**Entered** 1/22/2024 5:21:38 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/29/2024 12:00:00 AM



PXL\_20240122\_222005960.v2.jpg; Added on 1/22/2024 5:21:39 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1082

Project / Wallingford Elementary School / SOV / SOV-223 SGI

Unit has an active setpoint of 75 Deg F with a zone temperature of 70 Deg F, the damper position and reheat valve are not changing. : Recommend correction of programming or replacement of the XL10 controller.

**Status** Open

**Entered** 1/22/2024 5:23:32 PM

**Entered By** dmychaluk@cm3inc.com

**Priority** Automation

**Category** Automation

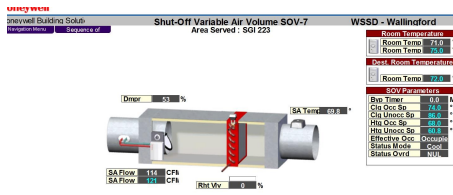
**Assigned To** dmychaluk@cm3inc.com

**Respondent Status** Open

**Due Date** 1/29/2024 12:00:00 AM



50282530\_1000010475.v2.jpg; Added on 1/22/2024 5:23:50 PM by dmychaluk@cm3inc.com



06914644\_SGI223.png; Added on 1/22/2024 5:25:06 PM by danhainey@cm3inc.com

**Functional Checklist And Issues Log**

# SOV-224 SGI

Project / Wallingford Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-6				
Location	Ceiling of room				
Association	RTU-3				

**SOV-224 SGI WORK**

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	6.9	70	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	83.3	87.3	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	269	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	273	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	68	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	86	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:48 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 5:04:16 PM

## Functional Checklist And Issues Log

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SOV-224 SGI ISSUES

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### ISSUE-1079

Project / Wallingford Elementary School / SOV / SOV-224 SGI

setpoint dial is locked out and has no effect on zone control. : recommend unlocking and allowing for 2 Degree offset control.

**Status** Open  
**Entered** 1/22/2024 4:51:53 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/29/2024 12:00:00 AM

**Functional Checklist And Issues Log**

# SOV-226 SGI

Project / Wallingford Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-5				
Location	Ceiling of room				
Association	RTU-3				

**SOV-226 SGI WORK**

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	Bl	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	69.7	69.9	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	70.8	70.7	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	367	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Bad	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	371	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	72	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	68	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	86	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:48 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 4:49:03 PM

# Functional Checklist And Issues Log

SOV-226 SGI ISSUES

## ISSUE-1077

Project / Wallingford Elementary School / SOV / SOV-226 SGI

Temperature setpoint dial is reflecting the same setpoint regardless of position :  
Recommend correction within the XL controller.

**Status** Open  
**Entered** 1/22/2024 4:29:42 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/29/2024 12:00:00 AM



52558920\_PXL\_20240122\_212955989.v2.jpg; Added on 1/22/2024 4:30:52 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# SOV-227 SGI

Project / Wallingford Elementary School / SOV

SOV

**Complete**

		Design	Proposed	Final	Units
Description	SOV-3				
Location	Ceiling of room				
Association	RTU-3				

**SOV-227 SGI WORK**

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	70.7	69.3	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	71.1	70.7	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	208	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	Ok	Ok	Ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Bad	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	206	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	68	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	86	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	70.9	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:49 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 4:20:51 PM

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Functional Checklist And Issues Log

# SOV-229 Faculty Office

Project / Wallingford Elementary School / SOV

SOV

In Progress

		Design	Proposed	Final	Units
Description	SOV-4				
Location	Ceiling of room				
Association	RTU-3				

SOV-229 FACULTY OFFICE WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	69.9	70.6	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	73.2	73.7	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Box Flow	CFM	----	----	----	----	----	----	----	83	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Bad	----	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	89	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	72	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	68	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	86	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	70	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	72	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:50 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 3:59:41 PM

# Functional Checklist And Issues Log

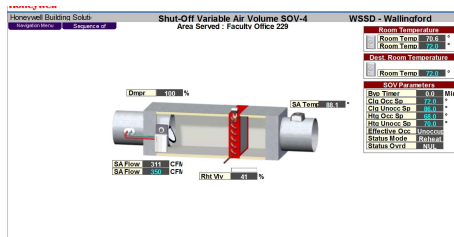
## SOV-229 FACULTY OFFICE ISSUES

### ISSUE-1076

Project / Wallingford Elementary School / SOV / SOV-229 Faculty Office

Occupancy command not working correctly. When set to unoccupied the unit stays occupied. : Recommend correction of occupancy when unit is integrated to the bas.

**Status** Open  
**Entered** 1/22/2024 4:02:39 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/29/2024 12:00:00 AM



FacultyOffice229.png; Added on 1/22/2024 4:04:43 PM by danhainey@cm3inc.com

Functional Checklist And Issues Log

# SOV-C2 Corr

Project / Wallingford Elementary School / SOV

SOV

Complete

	Design	Proposed	Final	Units
Description	SOV-22			
Location	Corridor			
Association	RTU-6			

SOV-C2 CORR WORK

## Functional Checklist

VAV Functional Checklist

Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	AI Deviation	Pass	Fail	NA	Comments
Zone Temperature	Deg F	----	----	----	----	----	----	66	65.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Discharge Temperature	Deg F	----	----	----	----	----	----	110	118	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Measured at diffuser
Box Flow	CFM	----	----	----	----	----	----	----	865	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Reheat Valve	%	----	----	Ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Damper Actuator	%	----	----	ok	ok	ok	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupancy Command	DO	----	Ok	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Flow Setpoint	Setpnt	----	----	----	----	----	----	----	850	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	73.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Occupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	69.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied cool Setpoint	Setpnt	----	----	----	----	----	----	----	82.4	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Unoccupied Heat Setpoint	Setpnt	----	----	----	----	----	----	----	60.8	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Setpoint	Setpnt	----	----	----	----	----	----	----	73.2	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
Local Occ Override	DI	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/19/2024 2:32:43 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/22/2024 8:39:07 PM

**Functional Checklist And Issues Log**

# CUH-Corr C6 North

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**In Progress**

		Design	Proposed	Final	Units
Description	CH-2				
<b>CUH-CORR C6 NORTH WORK</b>					

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Of at rocker switch
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 2:03:40 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 7:45:46 PM

## Functional Checklist And Issues Log

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CUH-CORR C6 NORTH ISSUES

---

### ISSUE-1073

Project / Wallingford Elementary School / Unit Heaters / CUH-Corr C6 North

Unit off at its rocker switch and cabinet is locked, will need to gain access to test and verify unit operation.

**Status** Open  
**Entered** 1/12/2024 3:52:11 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM

**Functional Checklist And Issues Log**

# CUH-Corr C6 South

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**In Progress**

		Design	Proposed	Final	Units
Description	CH-2				

**CUH-CORR C6 SOUTH WORK**

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	72.4	72.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	DO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 2:03:41 PM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 11:58:59 AM

# Functional Checklist And Issues Log

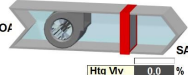
CUH-CORR C6 SOUTH ISSUES

## ISSUE-1066

Project / Wallingford Elementary School / Unit Heaters / CUH-Corr C6 South

Unit labeled CH 1-3 in the BAS, recommend correction of point labeling when the unit is integration into Niagara.

**Status** Open  
**Entered** 1/12/2024 11:52:25 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM

<p><b>Cabinet Unit Heater CH1 - 3</b> Location &amp; Serving : Stair S-</p>  <p>Htg Mv 0.0 %</p>	<p><b>WSSD - Wallingford</b></p> <table border="1"> <tr><th colspan="2">Effective Room Temperature</th></tr> <tr><td>Room Temp</td><td>72.6</td></tr> <tr><td>Room Temp</td><td>68.0</td></tr> </table> <table border="1"> <tr><th colspan="2">Destination Room</th></tr> <tr><td>Room Temp</td><td>62.8</td></tr> </table> <table border="1"> <tr><th colspan="2">Cabinet Unit</th></tr> <tr><td>Htg Unocc Sp</td><td>60.8</td></tr> <tr><td>Htg Occ Sp</td><td>63.0</td></tr> <tr><td>Htg Standby Sp</td><td>66.2</td></tr> <tr><td>Effective Occ</td><td>Occurite</td></tr> </table>	Effective Room Temperature		Room Temp	72.6	Room Temp	68.0	Destination Room		Room Temp	62.8	Cabinet Unit		Htg Unocc Sp	60.8	Htg Occ Sp	63.0	Htg Standby Sp	66.2	Effective Occ	Occurite
Effective Room Temperature																					
Room Temp	72.6																				
Room Temp	68.0																				
Destination Room																					
Room Temp	62.8																				
Cabinet Unit																					
Htg Unocc Sp	60.8																				
Htg Occ Sp	63.0																				
Htg Standby Sp	66.2																				
Effective Occ	Occurite																				

WES.CH2.2.png; Added on 1/12/2024 11:52:25 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log



### ISSUE-1072

Project / Wallingford Elementary School / Unit Heaters / CUH-Corr C6 South

Unit off at the rocker switch, unit appears to be functional and cycles as expected when enabled, it should be left enabled and setpoints adjusted to meet building comfort :  
Recommend turning unit on to improve building comfort.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/12/2024 3:51:21 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/19/2024 12:00:00 AM

**Functional Checklist And Issues Log**

# CUH-Corr C-7

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**In Progress**

		Design	Proposed	Final	Units
Description	CH-2				
<b>CUH-CORR C-7 WORK</b>					

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	71.0	72.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60.8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 2:03:42 PM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 4:18:34 PM

## Functional Checklist And Issues Log

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CUH-CORR C-7 ISSUES

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### ISSUE-1075

Project / Wallingford Elementary School / Unit Heaters / CUH-Corr C-7

Valve is moving however discharge air from the CUH is 71 Deg F after running for 10 minutes. : recommend troubleshooting the unit and verifying isolation valve positions.

**Status** Open  
**Entered** 1/12/2024 4:16:09 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM

**Functional Checklist And Issues Log**

# CUH-Receiving 112

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

In Progress

Design	Proposed	Final	Units
--------	----------	-------	-------

CUH-RECEIVING 112 WORK

**Functional Checklist**

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

Not Started

Assigned to [dmychaluk@cm3inc.com](mailto:dmychaluk@cm3inc.com)

Created by [danhailey@cm3inc.com](mailto:danhailey@cm3inc.com) on 1/26/2024 1:43:20 PM

**Functional Checklist And Issues Log**

# CUH-Stair CUH-1-9

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**In Progress**

Design      Proposed      Final      Units

**CUH-STAIR CUH-1-9 WORK**

**Functional Checklist**

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	68.8	67.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	Do	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 2:03:39 PM

Marked complete by dmychaluk@cm3inc.com on 2/14/2024 9:41:18 AM

## Functional Checklist And Issues Log

CUH-STAIR CUH-1-9 ISSUES

### ISSUE-1117

Project / Wallingford Elementary School / Unit Heaters / CUH-Stair CUH-1-9

Unocc setpoint has no effect on unit operation. : Recommend troubleshooting XL 10 controller

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/23/2024 7:54:38 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/31/2024 12:00:00 AM

# Functional Checklist And Issues Log

## ISSUE-1118

Project / Wallingford Elementary School / Unit Heaters / CUH-Stair CUH-1-9

Unit found off at the rocker switch. : Recommend keeping unit on as it conditions cold air coming from the stair tower.

**Status** Open  
**Entered** 1/23/2024 7:57:39 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/31/2024 12:00:00 AM



54272799\_1000010612.v2.jpg; Added on 1/23/2024 7:58:54 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# CUH-Stair S-1 CUH 1-4

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**In Progress**

Design	Proposed	Final	Units
--------	----------	-------	-------

**CUH-STAIR S-1 CUH 1-4 WORK**

**Functional Checklist**

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	67.7	65.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sensor not changing when disconnected.
----	Local Setpoints	AI	----	----	----	----	----	----	----	68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	AO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	68	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 2:31:10 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 7:15:08 PM

# Functional Checklist And Issues Log

## CUH-STAIR S-1 CUH 1-4 ISSUES

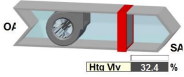
### ISSUE-1023

Project / Wallingford Elementary School / Unit Heaters / CUH-Stair S-1 CUH 1-4

Unit not responding to occupancy command, holds 68 Deg F setpoints regardless of occupancy mode. : Recommend correction of control logic within the XL 10 controller.

**Status** Open  
**Entered** 1/10/2024 2:15:19 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Energy  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM

**Cabinet Unit Heater CH1 - 9**  
Location & Serving : Stair #



**WSSD - Wallingford**

Effective Room Temperature	
Room Temp	68.0 °
Room Temp	68.0 °

Destination Room	
Room Temp	67.6 °

Cabinet Unit	
Htg Unocc Sp	69.8 °
Htg Occ Sp	68.0 °
Htg Standby Sp	66.2 °
Effective Occ	Unoccnt

WES.CUH.1-9.png; Added on 1/10/2024 2:15:19 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1024

Project / Wallingford Elementary School / Unit Heaters / CUH-Stair S-1 CUH 1-4

Unit found switched off, possible to overheating issues due to no setpoint control or accurate space temperature readings. : Recommend correction of controller logic so the unit can be left in the "On" position and function as expected.

**Status** Open  
**Entered** 1/10/2024 2:16:26 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM



23323375\_PXL\_20240110\_193707565.jpg; Added on 2/13/2024 10:22:23 AM by dmychaluk@cm3inc.com

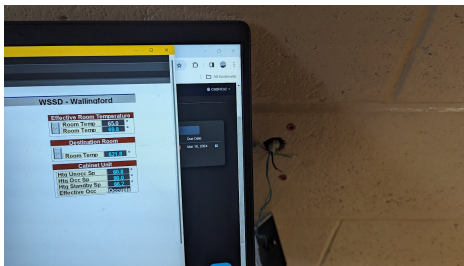
# Functional Checklist And Issues Log

## ISSUE-1025

Project / Wallingford Elementary School / Unit Heaters / CUH-Stair S-1 CUH 1-4

When sensor was disconnected there was no change in temperature reading. Sensor is reading 3 Deg f below actual. Issue appears to be related to the XL-10 controller which should be replaced or reprogrammed.

**Status** Open  
**Entered** 1/10/2024 2:33:18 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM



37895472\_PXL\_20240110\_192743012.jpg; Added on 2/13/2024 10:19:37 AM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# CUH-Stair S-2

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

In Progress

Design	Proposed	Final	Units
--------	----------	-------	-------

**CUH-STAIR S-2 WORK**

**Functional Checklist**

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

Not Started

Assigned to dmychaluk@cm3inc.com

Created by danhailey@cm3inc.com on 1/26/2024 1:43:20 PM

**Functional Checklist And Issues Log**

# CUH-Stair S3 2nd CH 2-4

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**Complete**

		Design	Proposed	Final	Units
Description	CH-1				
<b>CUH-STAIR S3 2ND CH 2-4 WORK</b>					

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	70.8	69.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	69.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	90	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/12/2024 11:58:42 AM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 12:01:51 PM

**Functional Checklist And Issues Log**

# CUH-Vest C1.B

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**In Progress**

Design	Proposed	Final	Units
--------	----------	-------	-------

**CUH-VEST C1.B WORK**

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Not Started**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 2:03:38 PM

**Functional Checklist And Issues Log**

# CUH-Vest C1.C

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**In Progress**

Design	Proposed	Final	Units
--------	----------	-------	-------

**CUH-VEST C1.C WORK**

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	74.2	71.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	69.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	OK	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	90	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 2:03:37 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 7:14:12 PM

## Functional Checklist And Issues Log

---

CUH-VEST C1.C ISSUES

---

### ISSUE-1026

Project / Wallingford Elementary School / Unit Heaters / CUH-Vest C1.C

Zone sensor reading 3 Deg F lower than actual, space is overheating regularly. :  
Recommend correction of sensor or programming offsets in the XL 10

**Status** Open  
**Entered** 1/10/2024 2:52:18 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Energy  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM

**Functional Checklist And Issues Log**

# CUH-Vest C1-A CH 1-1

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**In Progress**

Design      Proposed      Final      Units

**CUH-VEST C1-A CH 1-1 WORK**

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	69.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	90	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 2:03:37 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 7:14:45 PM

# Functional Checklist And Issues Log

CUH-VEST C1-A CH 1-1 ISSUES

## ISSUE-1027

Project / Wallingford Elementary School / Unit Heaters / CUH-Vest C1-A CH 1-1

Unit found turned off at the switch, unsure as to why this was done, unit may overheat the space due to improper setpoints and control. : Recommend correction of programming in the XL10 controller or replacement.

**Status** Open  
**Entered** 1/10/2024 3:03:24 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM



09164823\_17049171634284914924231592112836.jpg; Added on 1/10/2024 3:06:09 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1028

Project / Wallingford Elementary School / Unit Heaters / CUH-Vest C1-A CH 1-1

Sensor labeled 1-3 however unit is labeled 1-1 in the BAS. : Recommend correction of unit tagging once the unit is integrated into Niagara.

**Status** Open  
**Entered** 1/10/2024 3:05:21 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM



28884541\_PXL\_20240110\_200423144.v2.jpg; Added on 1/10/2024 3:06:28 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# CUH-Vestibule-CH 1-2

Project / Wallingford Elementary School / Unit Heaters

Cabinet Unit Heater

**In Progress**

	Design	Proposed	Final	Units
Manufacturer			Sigma	-

**CUH-VESTIBULE-CH 1-2 WORK**

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	✓	Unable to locate sensor. Unit not responding to commands
----	Local Setpoints	AI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	✓	----
----	Heating Valve	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	✓	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	✓	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	✓	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	✓	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/23/2024 7:23:22 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 7:49:02 PM

# Functional Checklist And Issues Log

## CUH-VESTIBULE-CH 1-2 ISSUES

### ISSUE-1116

Project / Wallingford Elementary School / Unit Heaters / CUH-Vestibule-CH 1-2

Sensor cannot be located, unit not engaging when overridden. Sounds in the off position, turned on however it remained off. : recommend replacement of the XL10 controller for this unit

**Status** Open  
**Entered** 1/23/2024 7:28:09 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/31/2024 12:00:00 AM



PXL\_20240124\_002415941.v2.jpg; Added on 1/23/2024 7:28:09 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# UH-1-1 Basement

Project / Wallingford Elementary School / Unit Heaters

Unit Heater

**In Progress**

Design Proposed Final Units

UH-1-1 BASEMENT WORK

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	56	87	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	50	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	621.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 2/15/2024 1:50:16 PM

Marked complete by dmychaluk@cm3inc.com on 2/15/2024 1:50:16 PM

# Functional Checklist And Issues Log

## UH-1-1 BASEMENT ISSUES

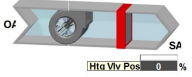
### ISSUE-1313

Project / Wallingford Elementary School / Unit Heaters / UH-1-1 Basement

Zone sensor is reading 87 Deg F actual temp is 56 Degf. Local setpoint shows 621 Deg F. Multiple issues present and controller is in a very damp environment. : Recommend replacement of the Honeywell XL10 controller.

**Status** Open  
**Entered** 2/15/2024 1:54:48 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** bencohen@cm3inc.com  
**Respondent Status** Open  
**Due Date** 2/22/2024 12:00:00 AM

**Unit Heater UH1-1**      **WSSD - Wallingford Elementary**  
 Location, Servina : Water Services Room 019



Effective Room Temperature	
Room Temp	87.3 °
Room Temp	50.0 °

Destination Room	
Room Temp	621.8 °

Heat Pump Loop	
Htg Unocc Sp	60.8 °
Htg Occ Sp	77.0 °
Htg Standby Sp	66.7 °
Effective Occ	Occupied

WES.UH1-1.png; Added on 2/15/2024 1:54:48 PM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# UH-1-2 Basement

Project / Wallingford Elementary School / Unit Heaters

Unit Heater

Complete

Design	Proposed	Final	Units
--------	----------	-------	-------

**UH-1-2 BASEMENT WORK**

**Functional Checklist**

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	60.1	60.3	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	60	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	DO	----	Ok	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	OK	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60.8	✓	<input type="checkbox"/>	<input type="checkbox"/>	----

Complete

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 2/15/2024 1:50:16 PM

Marked complete by dmychaluk@cm3inc.com on 2/15/2024 1:50:16 PM

**Functional Checklist And Issues Log**

# UH-1-3 Basement

Project / Wallingford Elementary School / Unit Heaters

Unit Heater

Complete

Design	Proposed	Final	Units
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UH-1-3 BASEMENT WORK

**Functional Checklist**

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	60.1	58.5	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Local Setpoints	AI	----	----	----	----	----	----	----	60	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Heating Valve	DO	----	Ok	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Ok	----	----	----	----	----	----	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	72	✓	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60	✓	<input type="checkbox"/>	<input type="checkbox"/>	----

Complete

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 2/15/2024 1:50:16 PM

Marked complete by dmychaluk@cm3inc.com on 2/15/2024 1:50:16 PM

**Functional Checklist And Issues Log**

# UH-Boiler Room

Project / Wallingford Elementary School / Unit Heaters

Unit Heater

**Complete**

		Design	Proposed	Final	Units
Description	UH-2				
<b>UH-BOILER ROOM WORK</b>					

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	67.3	65.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unit turned off
----	Local Setpoints	AI	----	----	----	----	----	----	----	68	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Heating Valve	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	68	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 2/15/2024 1:50:16 PM

Marked complete by dmychaluk@cm3inc.com on 2/15/2024 1:50:16 PM

**Functional Checklist And Issues Log**

# UH-Storage 108 1-4

Project / Wallingford Elementary School / Unit Heaters

Unit Heater

**In Progress**

		Design	Proposed	Final	Units
Description	UH-1				
<b>UH-STORAGE 108 1-4 WORK</b>					

## Functional Checklist

CUH Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Zone Temperature	AI	----	----	----	----	----	----	67.3	65.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unit turned off
----	Local Setpoints	AI	----	----	----	----	----	----	----	68	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Heating Valve	AO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occ Setpoint	----	----	----	----	----	----	----	----	68	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Unocc Setpoint	----	----	----	----	----	----	----	----	60	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 2:30:37 PM

Marked complete by dmychaluk@cm3inc.com on 2/13/2024 3:20:09 PM

**ISSUE-1020**

Project / Wallingford Elementary School / Unit Heaters / UH-Storage 108 1-4

Teaching supplies are stacked in front of the unit preventing access to the unit. : Relocate or stack supplies so that access can be achieved.

**Status** Open  
**Entered** 1/10/2024 1:18:19 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Two  
**Category** Structural, Access  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM



30509774\_PXL\_20240110\_181326162.v2.jpg; Added on 1/10/2024 1:25:30 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1021

Project / Wallingford Elementary School / Unit Heaters / UH-Storage 108 1-4

Unit is off at the disconnect, there is no LOTO and the unit is unreachable due to storage of items in front of the unit. : Recommend turning the unit back on and verifying functionality.

**Status** Open  
**Entered** 1/10/2024 1:19:19 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM



48144048\_PXL\_20240110\_181308351.v2.jpg; Added on 1/10/2024 1:25:48 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

# WSHP-108 Storage

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-17				
Area Served	Kitchen office / Dry Stor				
Location	Ceiling				

#### WSHP-108 STORAGE ISSUES

## ISSUE-1317

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-108 Storage

Unit found off at the disconnect. Turned unit back online and found it to be functional. :  
Unit should be placed on PM schedule and serviced. The districts HVAC tech informed us that the unit should remain off due to the space not needing heating or cooling.

**Status** Open  
**Entered** 2/23/2024 2:33:28 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 3/1/2024 12:00:00 AM

## Functional Checklist And Issues Log



16104014\_PXL\_20240223\_191941381.v2.jpg; Added on 2/23/2024 2:34:16 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## WSHP-109 Fac Dining

Project / Wallingford Elementary School / Water Source Heat Pumps

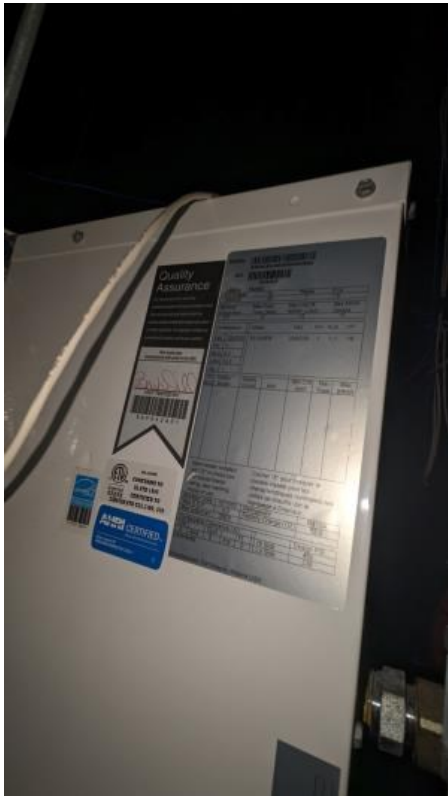
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-10				
Area Served	Fac Dining 109				
Location	Ceiling				

### Notes

dmychaluk@cm3inc.com on 1/12/2024 7:19:24 AM:  
Unit nameplate and overview



34980299\_1000010351.v2.jpg; Added on 1/12/2024 7:20:34 AM by dmychaluk@cm3inc.com



35402185\_1000010352.v2.jpg; Added on 1/12/2024 7:20:35 AM by dmychaluk@cm3inc.com

### WSHP-109 FAC DINING ISSUES

## Functional Checklist And Issues Log

### ISSUE-1056

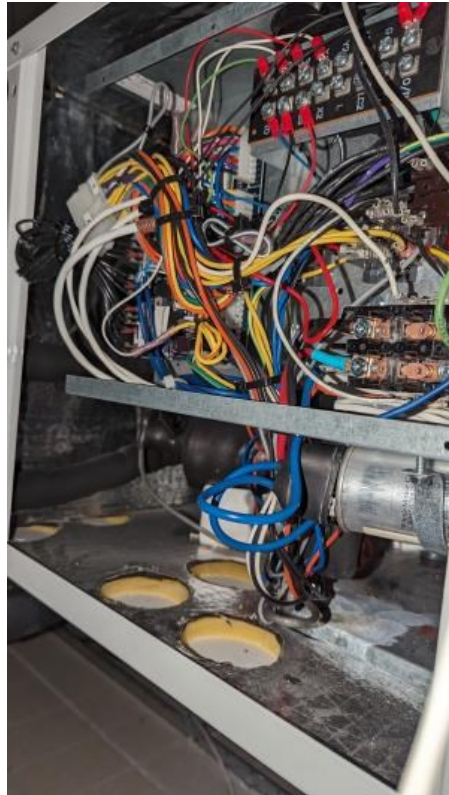
Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-109 Fac Dining

Unit is off at the disconnect, compressor wiring removed and compressor off of its mount.  
Appears unit is being repaired.. : Recommend verification of complete repairs,  
troubleshoot and provide a repair cost as needed.

**Status** Open  
**Entered** 1/12/2024 7:19:11 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



26082319\_1000010343.v2.jpg; Added on 1/12/2024 7:21:26 AM  
by dmychaluk@cm3inc.com



26504198\_1000010346.v2.jpg; Added on 1/12/2024 7:21:26 AM  
by dmychaluk@cm3inc.com



26879217\_1000010344.v2.jpg; Added on 1/12/2024 7:21:26 AM  
by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log



27258557\_1000010345.v2.jpg; Added on 1/12/2024 7:21:27 AM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# WSHP-120 Data

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-18				
Area Served	Data 120				
Location	C5 Corr				
Location Description	Ceiling near boys toilet				

**WSHP-120 DATA ISSUES**

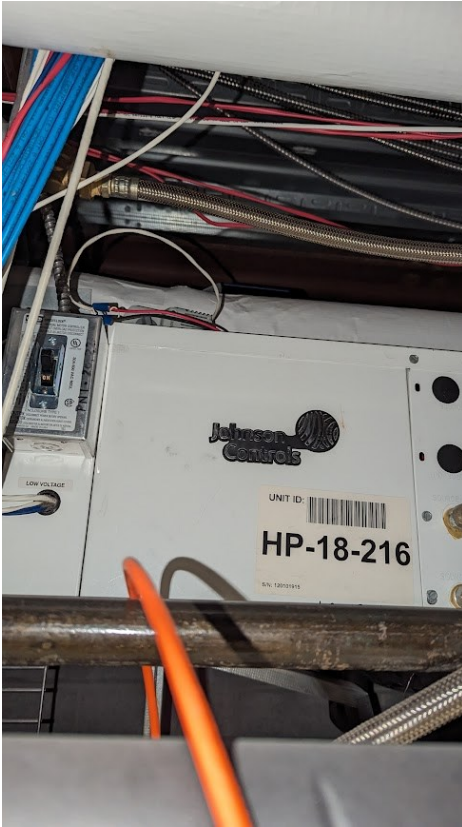
## ISSUE-1322

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-120 Data

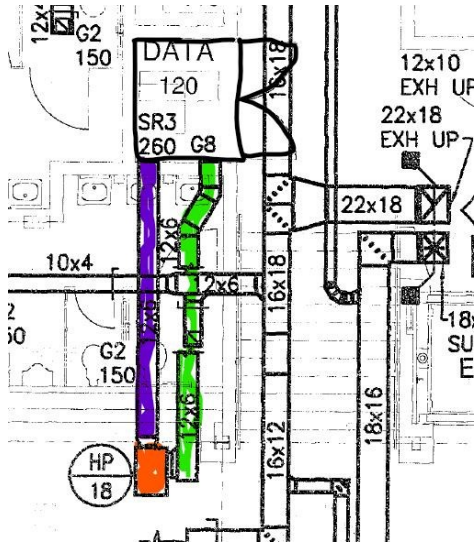
Unit found off at the disconnect. Unit was enabled and observed to be functional, left unit running for 1 hour with no issues. HVAC facilities reported the unit overheats and access is limited such that the unit cannot be serviced. Unit was requested to be left off. : Recommend replacement of unit with a DSS and installation of insulated ceiling tiles in the MDF closet.

**Status** Open  
**Entered** 2/29/2024 11:46:35 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 3/7/2024 12:00:00 AM

### Functional Checklist And Issues Log



PXL\_20240223\_185125681 (2).jpg; Added on 2/29/2024 11:46:35 AM by dmychaluk@cm3inc.com



41386896\_Screenshot 2024-02-29 11:47:03.png; Added on 2/29/2024 11:48:41 AM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-122 Kindergarten

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-4				
Area Served	Kindergarten 122				
Location	Closet				

### Notes

dmychaluk@cm3inc.com on 1/12/2024 8:03:20 AM:  
Unit overview and nameplate



52299745\_1000010366.v2.jpg; Added on 1/12/2024 8:03:52 AM by dmychaluk@cm3inc.com



52643698\_1000010367.v2.jpg; Added on 1/12/2024 8:03:52 AM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-122 KINDERGARTEN WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	Ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	70.1	73.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	73.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/12/2024 7:49:32 AM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 7:49:32 AM

**Functional Checklist And Issues Log**



**ISSUE-1059**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-122 Kindergarten

Zone sensor reading 3 Deg F higher than actual. : recommend calibration of the sensor or replacement if required.

**Status** Open  
**Entered** 1/12/2024 7:58:09 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



1000010374.v2.jpg; Added on 1/12/2024 7:58:09 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1060

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-122 Kindergarten

Filter not properly sitting on the coil face. Coil requires cleaning, filter was adjusted to cover the filter face. : recommend cleaning of coil and additional instruction on installation of filters.

<b>Status</b>	Open
<b>Entered</b>	1/12/2024 8:07:19 AM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	IAQ
<b>Category</b>	Mechanical
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	Open
<b>Due Date</b>	1/19/2024 12:00:00 AM

# Functional Checklist And Issues Log

## ISSUE-1063

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-122 Kindergarten

Active slow leak on the glycol loop for the unit. Actuator is disconnected and needs replacement. : recommend correction of leak and replacement of actuator.

**Status** Open  
**Entered** 1/12/2024 9:14:03 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



PXL\_20240112\_124113810.v2.jpg; Added on 1/12/2024 9:14:04 AM by dmychaluk@cm3inc.com



PXL\_20240112\_124110057.v2.jpg; Added on 1/12/2024 9:14:04 AM by dmychaluk@cm3inc.com



### Functional Checklist And Issues Log

WSHP-123 KINDERGARTEN WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	Ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	70.1	71.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	72.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/12/2024 7:34:23 AM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 7:34:23 AM

**Functional Checklist And Issues Log**

**ISSUE-1057**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-123 Kindergarten

Thermostat missing thumb-wheel dial and requires replacement. : Recommend replacement of thermostat and adding a protective cover over the device.

**Status** Open  
**Entered** 1/12/2024 7:35:32 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



27204582\_1000010355.v2.jpg; Added on 1/12/2024 7:55:27 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1058

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-123 Kindergarten

Newly installed filter not properly sitting across coil face. Filter was re-positioned however the coil does require cleaning as this appears to have happened several times during previous filter changes.

**Status** Open  
**Entered** 1/12/2024 7:38:02 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



27270992\_1000010353.v2.jpg; Added on 1/12/2024 7:56:27 AM by dmychaluk@cm3inc.com

# WSHP-124 1st Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-5				
Area Served	1st Grade 124				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/10/2024 12:25:05 PM:  
 Unit nameplate and overview



17049074943766966378212155242536.jpg; Added on 1/10/2024 12:25:05 PM by dmychaluk@cm3inc.com



34756756\_17049075261285236157190134386698.jpg; Added on 1/10/2024 12:25:34 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-124 1ST GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	Ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	72.4	71.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 12:39:17 PM

Marked complete by dmychaluk@cm3inc.com on 1/10/2024 12:39:17 PM

**Functional Checklist And Issues Log**

# Functional Checklist And Issues Log

WSHP-124 1ST GRADE ISSUES

## ISSUE-1017

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-124 1st Grade

Access door is slightly tilted preventing the lock from turning. : Realignment of door or planing the lower section of the door is required

**Status** Open  
**Entered** 1/10/2024 12:35:55 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Two  
**Category** Structural, Access  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM



PXL\_20240110\_173525342.v2.jpg; Added on 1/10/2024 12:35:55 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1018

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-124 1st Grade

Filter was not changed with the last change cycle due to door access issues last change in 4/11/22. It was changed during the inspection process on 1/5/23: recommend updating PM schedule for this unit and advising on access restriction issues.

**Status** Closed  
**Entered** 1/10/2024 12:51:57 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Complete  
**Due Date** 1/17/2024 12:00:00 AM  
**Closed On** 2/29/2024 12:02:51 PM



PXL\_20240105\_161156363.v2.jpg; Added on 1/10/2024 12:51:57 PM by dmychaluk@cm3inc.com

### Responses

dmychaluk@cm3inc.com on 2/29/2024 12:02:51 PM:

Filter changed during the inspection process on 1/5/23: recommend updating PM schedule for this unit and advising on access restriction issues.

# WSHP-125 Spec Ed

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

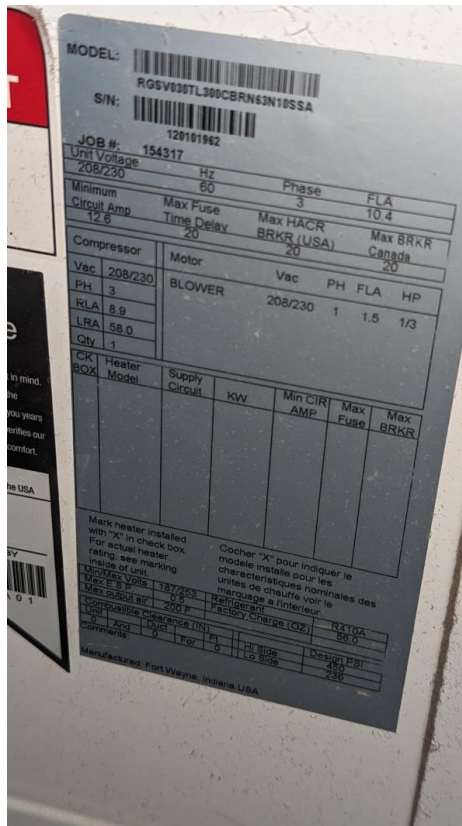
		Design	Proposed	Final	Units
Description	HP-2				
Area Served	Spec Ed 125				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/10/2024 12:26:40 PM:  
 Unit nameplate and overview



PXL\_20240110\_172049471.v2.jpg; Added on 1/10/2024 12:26:40 PM by dmychaluk@cm3inc.com



PXL\_20240110\_172103646.v2.jpg; Added on 1/10/2024 12:26:41 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-125 SPEC ED WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	Ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	71.8	73.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/10/2024 12:49:28 PM

Marked complete by dmychaluk@cm3inc.com on 1/10/2024 12:49:28 PM

**Functional Checklist And Issues Log**



**ISSUE-1019**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-125 Spec Ed

Coil is dirty and requires cleaning. : recommend professional cleaning of coil.

**Status** Open  
**Entered** 1/10/2024 12:57:26 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/17/2024 12:00:00 AM



17049094391296077736213160719420.v2.jpg; Added on 1/10/2024 12:57:27 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## WSHP-126 1st grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-5				
Area Served	1st grade 126				
Location	Closet				

### Notes

dmychaluk@cm3inc.com on 1/5/2024 3:00:30 PM:

Unit nameplate and overview



53672246\_PXL\_20240105\_201231369.v2.jpg; Added on 1/5/2024 3:12:53 PM by dmychaluk@cm3inc.com



54000388\_PXL\_20240105\_201157939.v2.jpg; Added on 1/5/2024 3:12:54 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-126 1ST GRADE WORK

### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	Bad	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	72.4	77.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 2:53:14 PM

Marked complete by dmychaluk@cm3inc.com on 1/5/2024 2:53:14 PM

**Functional Checklist And Issues Log**

# Functional Checklist And Issues Log

## WSHP-126 1ST GRADE ISSUES

### ISSUE-1012

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-126 1st grade

Zone sensor is reading 5 deg F warmer than actual. : recommend replacement of controller and sensor.

<b>Status</b>	<b>Closed</b>
<b>Entered</b>	1/5/2024 3:02:36 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Complete</b>
<b>Due Date</b>	1/12/2024 12:00:00 AM
<b>Closed On</b>	2/29/2024 12:06:28 PM



1000010191.v2.jpg; Added on 1/5/2024 3:02:37 PM by dmychaluk@cm3inc.com

### Responses

dmychaluk@cm3inc.com on 2/29/2024 12:06:28 PM:

Updated offset in the controller, zone temp reading 66 Deg F prior to the update and is now currently reading 73.4. Setpoints updated to reflect the new temperature sensor readings.

# Functional Checklist And Issues Log

## ISSUE-1013

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-126 1st grade

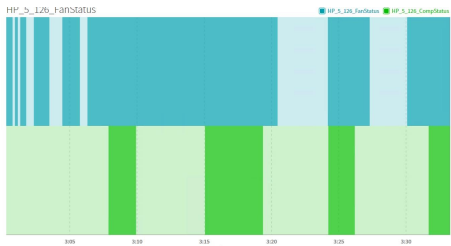
Supply fan status and Compressor status not reporting properly, fan status shows on however it is off.

<b>Status</b>	<b>Closed</b>
<b>Entered</b>	1/5/2024 3:04:54 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Complete</b>
<b>Due Date</b>	1/12/2024 12:00:00 AM
<b>Closed On</b>	2/29/2024 3:34:50 PM

## Responses

dmychaluk@cm3inc.com on 2/29/2024 3:34:50 PM:

Fan status and compressor status now reporting correctly with new integration



HP.126.Status.png; Added on 2/29/2024 3:34:50 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log



### ISSUE-1014

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-126 1st grade

In unoccupied mode the effective setpoint is not referenced, the unit is still showing occupied effective setpoints and the fan is cycling every few minutes. : Recommend correction of control logic and replacement of controller as needed.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/5/2024 3:10:05 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Energy
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/12/2024 12:00:00 AM

Functional Checklist And Issues Log

# WSHP-127 2nd Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-2				
Area Served	2nd Grade 127				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/5/2024 1:53:51 PM:

Unit nameplate and overview



14171677\_PXL\_20240105\_201556473.v2.jpg; Added on 1/5/2024 3:16:14 PM by dmychaluk@cm3inc.com



14484135\_PXL\_20240105\_201549340.v2.jpg; Added on 1/5/2024 3:16:14 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-127 2ND GRADE WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	Ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	70.4	72.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	72	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 1:53:08 PM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 7:12:58 PM

**Functional Checklist And Issues Log**



**ISSUE-1010**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-127 2nd Grade

Coil requires cleaning. : Recommend cleaning coil

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/5/2024 1:54:35 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Mechanical
<b>Category</b>	Mechanical
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/12/2024 12:00:00 AM

## Functional Checklist And Issues Log



### ISSUE-1011

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-127 2nd Grade

Space sensor reading 2 deg f lower than actual. : Recommend replacement of sensor.

<b>Status</b>	Open
<b>Entered</b>	1/5/2024 1:56:11 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	Open
<b>Due Date</b>	1/12/2024 12:00:00 AM

# WSHP-128 1st Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-5				
Area Served	1st Grade 128				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/5/2024 12:42:44 PM:  
 Unit nameplate and overview



PXL\_20240105\_174224478.v2.jpg; Added on 1/5/2024 12:42:45 PM by dmychaluk@cm3inc.com



PXL\_20240105\_174159496.v2.jpg; Added on 1/5/2024 12:42:45 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-128 1ST GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	Bad	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	74.9	65.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	64	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 12:19:45 PM

Marked complete by dmychaluk@cm3inc.com on 1/5/2024 12:56:55 PM

**Functional Checklist And Issues Log**

**ISSUE-1005**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-128 1st Grade

Zone sensor is reading 65.5 actual temp is 74.9, unit continues to overheat space. :  
Recommend replacement of zone sensor, controller may be failed as well

**Status** Closed  
**Entered** 1/5/2024 12:24:29 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Energy  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Complete  
**Due Date** 1/12/2024 12:00:00 AM  
**Closed On** 2/29/2024 12:07:16 PM

**Responses**

dmychaluk@cm3inc.com on 2/29/2024 12:07:16 PM:

Temperature sensor offset was updated and setpoints corrected to accurately reflect space temperature readings. Issue is resolved.

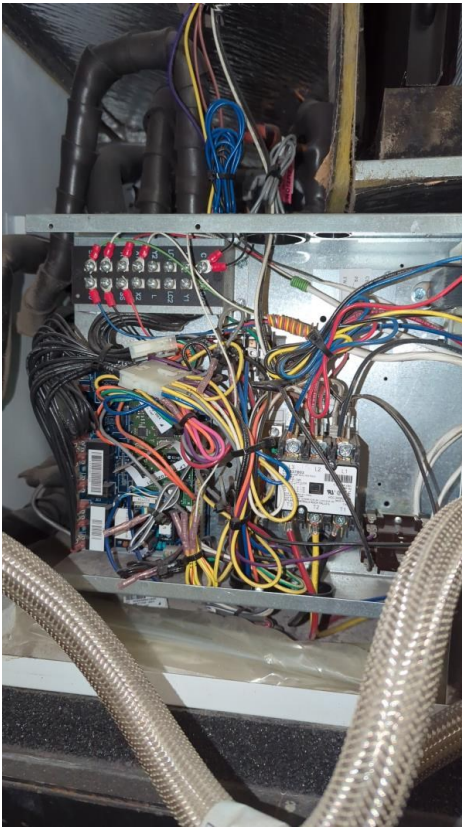
## Functional Checklist And Issues Log

### ISSUE-1006

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-128 1st Grade

Fan status and Compressor status shows off or not changing state however the fan is running. When the fan is off the status shows on : recommend troubleshooting the point during integration of the unit. Possible the wrong point is linked in the graphic.

**Status** Closed  
**Entered** 1/5/2024 12:33:20 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Complete  
**Due Date** 1/12/2024 12:00:00 AM  
**Closed On** 2/29/2024 3:36:57 PM



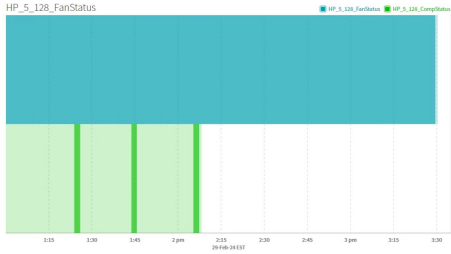
17044759930866071802698568388769.v2.jpg; Added on 1/5/2024 12:33:20 PM by dmychaluk@cm3inc.com

### Responses

## Functional Checklist And Issues Log

dmychaluk@cm3inc.com on 2/29/2024 3:36:57 PM:

Fan and compressor status now reporting correctly after integration.



HP.128.Status.png; Added on 2/29/2024 3:36:57 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1007

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-128 1st Grade

Coil requires cleaning and drain line needs to be flushed.

**Status** Open  
**Entered** 1/5/2024 12:44:59 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/12/2024 12:00:00 AM



17044766776127543621794534849727.v2.jpg; Added on 1/5/2024 12:44:59 PM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-129 2nd Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

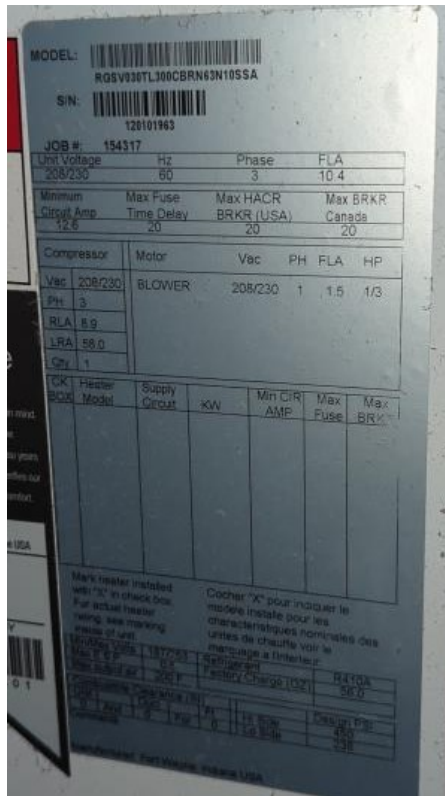
		Design	Proposed	Final	Units
Description	HP-2				
Area Served	2nd Grade 129				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/5/2024 11:51:31 AM:  
Unit nameplate and overview



1000010175.v2.jpg; Added on 1/5/2024 11:51:31 AM by dmychaluk@cm3inc.com



13715195\_1704473808568752591795831198174.v2.jpg; Added on 1/5/2024 11:57:13 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-129 2ND GRADE WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	72.1	73.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 1:39:42 PM

Marked complete by dmychaluk@cm3inc.com on 1/5/2024 1:39:42 PM

**Functional Checklist And Issues Log**



**ISSUE-1003**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-129 2nd Grade

Unit requires coil cleaning and drain flushing. : recommend cleaning coils

**Status** Open  
**Entered** 1/5/2024 11:59:00 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/12/2024 12:00:00 AM



1000010179.v2.jpg; Added on 1/5/2024 11:59:00 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log



### ISSUE-1009

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-129 2nd Grade

Offset for setpoint dial requires modification. : Recommend reviewing the point and setting within the jci controller.

<b>Status</b>	<b>Open</b>
<b>Entered</b>	1/5/2024 1:47:23 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Open</b>
<b>Due Date</b>	1/12/2024 12:00:00 AM

Functional Checklist And Issues Log

# WSHP-130 1st Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

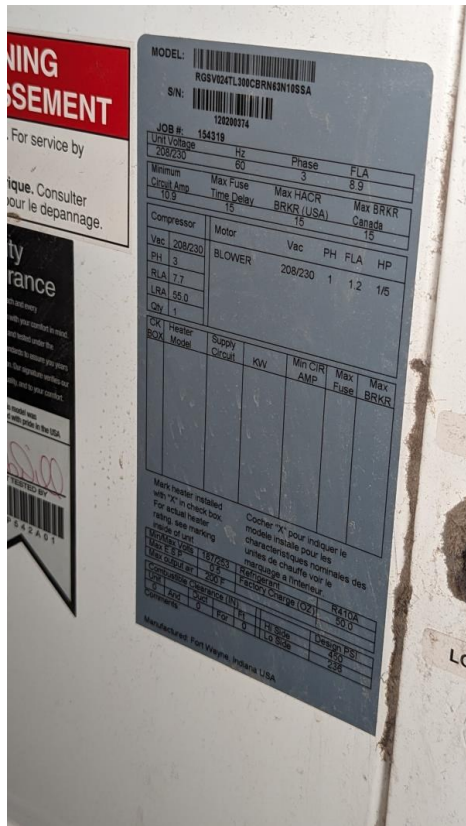
In Progress

		Design	Proposed	Final	Units
Description	HP-5				
Area Served	1st Grade 130				
Location	Closet				

### Notes

dmychaluk@cm3inc.com on 1/5/2024 12:04:36 PM:

Unit nameplate and overview



1000010182.v2.jpg; Added on 1/5/2024 12:04:36 PM by dmychaluk@cm3inc.com



1000010181.v2.jpg; Added on 1/5/2024 12:04:37 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-130 1ST GRADE WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	----	70.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 12:50:16 PM

Marked complete by dmychaluk@cm3inc.com on 1/5/2024 1:08:25 PM

**Functional Checklist And Issues Log**

**ISSUE-1004**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-130 1st Grade

Unit requires coil cleaning and drain line flush

**Status** Open  
**Entered** 1/5/2024 12:05:23 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/12/2024 12:00:00 AM



1000010184.v2.jpg; Added on 1/5/2024 12:05:23 PM by dmychaluk@cm3inc.com



1000010180.v2.jpg; Added on 1/5/2024 12:05:24 PM by dmychaluk@cm3inc.com

# WSHP-131 2nd Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-2				
Area Served	2nd Grade 131				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/5/2024 11:47:35 AM:  
 Unit nameplate and overview



1000010173.v2.jpg; Added on 1/5/2024 11:47:36 AM by dmychaluk@cm3inc.com



1000010174.v2.jpg; Added on 1/5/2024 11:47:36 AM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-131 2ND GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	----	70.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 1:14:46 PM

Marked complete by dmychaluk@cm3inc.com on 1/5/2024 1:14:46 PM

**Functional Checklist And Issues Log**

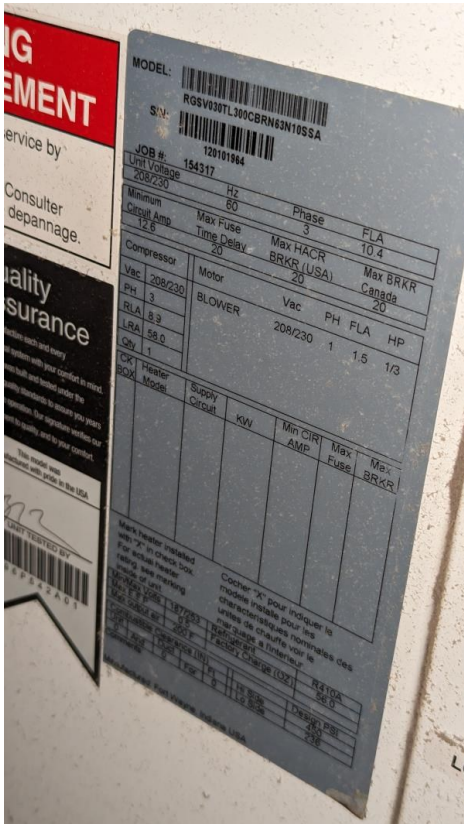


**ISSUE-1002**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-131 2nd Grade

Unit requires a coil cleaning

**Status** Open  
**Entered** 1/5/2024 11:48:52 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/12/2024 12:00:00 AM



PXL\_20240105\_164521921.v2.jpg; Added on 1/5/2024 11:48:52 AM by dmychaluk@cm3inc.com



PXL\_20240105\_164515850.v2.jpg; Added on 1/5/2024 11:48:52 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1008

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-131 2nd Grade

Unit not responding to setpoint overrides from the Honeywell BAS. : recommend recommissioning upon integration into the Niagara server.

**Status** Closed  
**Entered** 1/5/2024 1:22:00 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Complete  
**Due Date** 1/12/2024 12:00:00 AM  
**Closed On** 2/29/2024 12:15:49 PM

### Responses

dmychaluk@cm3inc.com on 2/29/2024 12:15:49 PM:  
 Setpoint linking corrected and updated, unit now responding to setpoint control.

Name	Out	Fault Cause
SpaceTemp	72.1 °F {unackedAlarm}	
EffClgSetpt	73.5 °F {ok}	
EffHtgSetpt	70.5 °F {ok}	
OccupiedCool_Stpnt	73.0 °F {ok} @ def	
OccupiedHeat_Stpnt	70.0 °F {ok} @ def	
UnoccupiedHeat_Stpnt	60.0 °F {ok} @ def	
UnoccupiedCool_Stpnt	84.0 °F {ok} @ def	
OccManCmd	ocOccupied {ok} @ 10	
EffectOccupancy	ocOccupied {ok}	
FanStatus	On {ok}	
AlarmStatus	Off {ok}	
CompStatus	Off {ok}	
AlarmReset	Normal {ok} @ def	
Setpoint	71.0 °F {overridden} @ 8	
UnitStatus_mode	hvacAuto {ok}	
RVStatus	Off {ok}	
WaterValveStatus	Off {ok}	
CondenserDischargeTemp	73.8 °F {ok}	
SpaceHumidity	25.755 % {ok}	

131.Stpnt.png; Added on 2/29/2024 12:15:49 PM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-132 Gifted CR

Project / Wallingford Elementary School / Water Source Heat Pumps

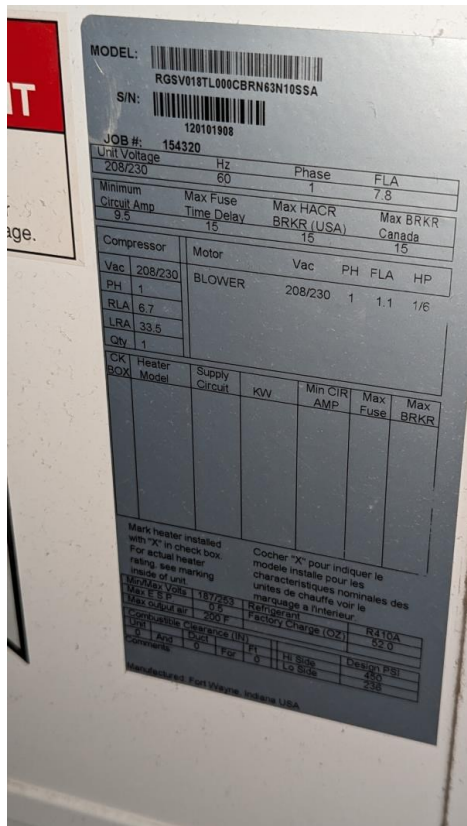
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-6				
Area Served	Gifted CR 132				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 2/23/2024 7:39:28 AM:  
Unit overview nameplate



PXL\_20240223\_123840745.v2.jpg; Added on 2/23/2024 7:39:29 AM by dmychaluk@cm3inc.com



PXL\_20240223\_123831314.v2.jpg; Added on 2/23/2024 7:39:29 AM by dmychaluk@cm3inc.com

WSHP-132 GIFTED CR ISSUES

## Functional Checklist And Issues Log

### ISSUE-1316

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-132 Gifted CR

Thermostat thumb wheel broken. : recommend replacement of the thermostat

**Status** Open  
**Entered** 2/23/2024 7:40:29 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 3/1/2024 12:00:00 AM



PXL\_20240223\_123700577.v2.jpg; Added on 2/23/2024 7:40:29 AM by dmychaluk@cm3inc.com

# WSHP-133 2nd Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

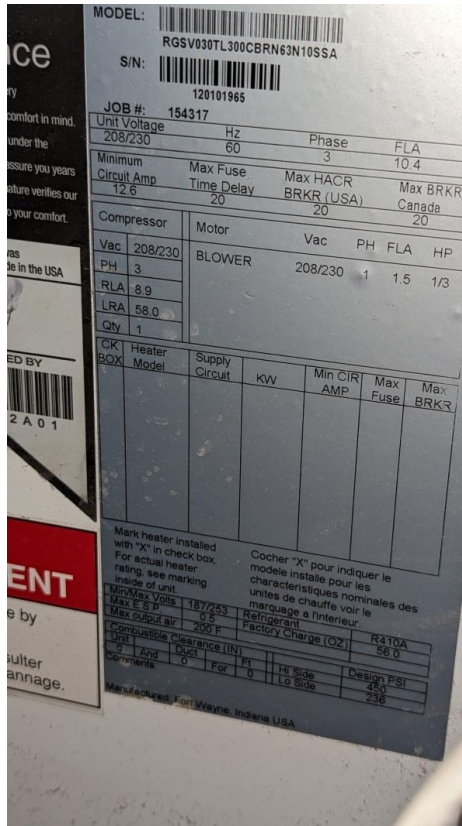
		Design	Proposed	Final	Units
Description	HP-2				
Area Served	2nd Grade 133				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/5/2024 11:39:42 AM:  
 Unit nameplate and overview



1000010168.v2.jpg; Added on 1/5/2024 11:39:42 AM by dmychaluk@cm3inc.com



1000010169.v2.jpg; Added on 1/5/2024 11:39:42 AM by dmychaluk@cm3inc.com

### WSHP-133 2ND GRADE ISSUES

# Functional Checklist And Issues Log

## ISSUE-1001

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-133 2nd Grade

Unit needs a coil cleaning and drain line cleaning.

**Status** Open  
**Entered** 1/5/2024 11:45:58 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/12/2024 12:00:00 AM



PXL\_20240105\_162647693.v2.jpg; Added on 1/5/2024 11:45:58 AM by dmychaluk@cm3inc.com



PXL\_20240105\_163224945.v2.jpg; Added on 1/5/2024 11:45:59 AM by dmychaluk@cm3inc.com

# WSHP-136 Spec Ed

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

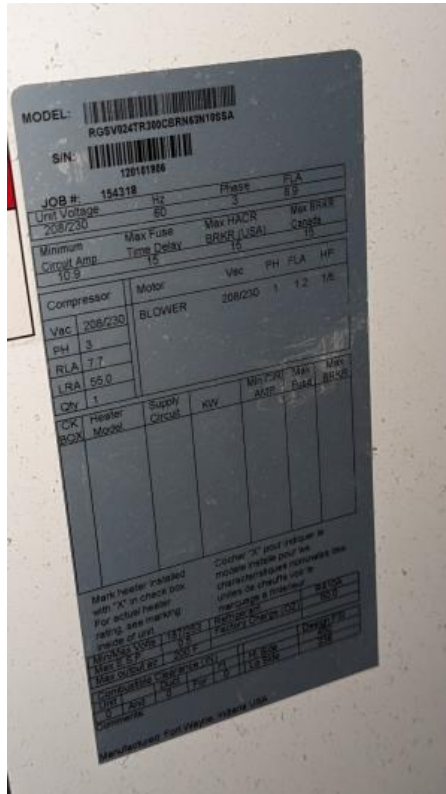
		Design	Proposed	Final	Units
Description	HP-3				
Area Served	Spec Ed 136				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/5/2024 11:25:06 AM:  
 Unit nameplate and overview



PXL\_20240105\_161150312.v2.jpg; Added on 1/5/2024 11:25:06 AM by dmychaluk@cm3inc.com



56911461\_1000010165.v2.jpg; Added on 1/5/2024 11:25:56 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-136 SPEC ED WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	Ok	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	69.8	71	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	70	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/5/2024 11:22:41 AM

Marked complete by dmychaluk@cm3inc.com on 1/23/2024 7:11:59 PM

**Functional Checklist And Issues Log**



**ISSUE-1000**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-136 Spec Ed

Coil is dirty and requires cleaning. : Recommend cleaning of coil

**Status** Open  
**Entered** 1/5/2024 11:18:52 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/12/2024 12:00:00 AM



23482016\_PXL\_20240105\_161200647.v2.jpg; Added on 1/5/2024 11:24:23 AM by dmychaluk@cm3inc.com



23857038\_PXL\_20240105\_161211708.v2.jpg; Added on 1/5/2024 11:24:23 AM by dmychaluk@cm3inc.com

# WSHP-137-SGI

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	WSHP-12				
Location	Boiler Room				

## Notes

dmychaluk@cm3inc.com on 2/28/2024 10:45:42 AM:  
 Unit nameplate and overview



50373633\_PXL\_20240228\_153839725.v2.jpg; Added on 2/28/2024 10:47:50 AM by dmychaluk@cm3inc.com



50826844\_PXL\_20240228\_153820694.v2.jpg; Added on 2/28/2024 10:47:50 AM by dmychaluk@cm3inc.com

### WSHP-137-SGI ISSUES

### Functional Checklist And Issues Log

#### ISSUE-1321

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-137-SGI

Unit off at breaker, no LOTO on the breaker, electrical fault is assumed. : Recommend correction of electrical and mechanical issues, once online add the unit to the BMS for unit control.

**Status** Open  
**Entered** 2/28/2024 10:45:28 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** bencohen@cm3inc.com  
**Respondent Status** Open  
**Due Date** 3/6/2024 12:00:00 AM



14913356\_PXL\_20240228\_154042336.v2.jpg; Added on 2/28/2024 10:48:14 AM by dmychaluk@cm3inc.com



15413320\_PXL\_20240228\_153946766.v2.jpg; Added on 2/28/2024 10:48:15 AM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-201 Art Classroom

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

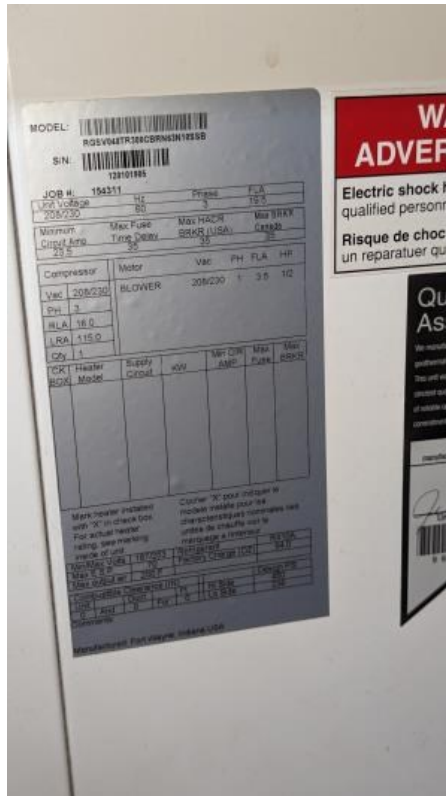
		Design	Proposed	Final	Units
Description	HP-8				
Area Served	Art Classroom 201				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/12/2024 11:23:46 AM:  
Unit nameplate and overview



29321166\_1000010387.v2.jpg; Added on 1/12/2024 11:26:29 AM by dmychaluk@cm3inc.com



29680545\_1000010388.v2.jpg; Added on 1/12/2024 11:26:29 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-201 ART CLASSROOM WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	70.8	69.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	69	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/12/2024 11:05:45 AM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 11:05:45 AM

**Functional Checklist And Issues Log**



# Functional Checklist And Issues Log

## WSHP-201 ART CLASSROOM ISSUES

### ISSUE-1064

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-201 Art Classroom

Coil is dirty and requires cleaning. : Recommend professional cleaning of coils.

**Status** Open  
**Entered** 1/12/2024 11:25:03 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



25486438\_1000010389.v2.jpg; Added on 1/12/2024 11:28:25 AM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1065

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-201 Art Classroom

Rust beginning to form on coil frame, recommend evaluation and remediation of rust as possible.

**Status** Open  
**Entered** 1/12/2024 11:27:34 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



1000010391.v2.jpg; Added on 1/12/2024 11:27:35 AM by dmychaluk@cm3inc.com



1000010392.v2.jpg; Added on 1/12/2024 11:27:35 AM by dmychaluk@cm3inc.com

# WSHP-202 5th Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

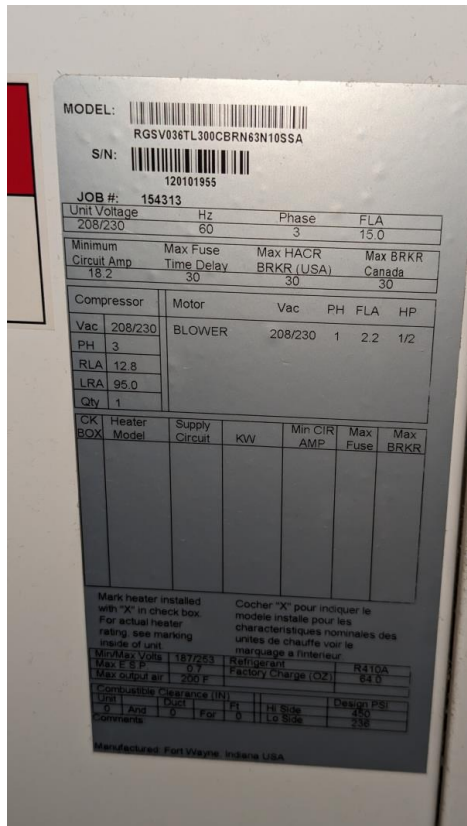
WSHP

In Progress

	Design	Proposed	Final	Units
Description	HP-7			
Area Served	5th Grade Sci 202			
Location	Closet			

## Notes

dmychaluk@cm3inc.com on 1/12/2024 8:26:52 AM:  
 Unit nameplate and overview



PXL\_20240112\_132403824.v2.jpg; Added on 1/12/2024 8:26:52 AM by dmychaluk@cm3inc.com



PXL\_20240112\_132356891.v2.jpg; Added on 1/12/2024 8:26:53 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-202 5TH GRADE WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	70.1	70.7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	60	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/12/2024 8:32:13 AM

Marked complete by dmychaluk@cm3inc.com on 1/12/2024 8:32:13 AM

**Functional Checklist And Issues Log**

**ISSUE-1061**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-202 5th Grade

Coil is dirty and requires cleaning: recommend professional cleaning of coil

**Status** Open  
**Entered** 1/12/2024 8:28:24 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



1000010377.v2.jpg; Added on 1/12/2024 8:28:25 AM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1062

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-202 5th Grade

Thermostat thumb wheel is damaged and missing. : recommend replacement of the thermostat

**Status** Open  
**Entered** 1/12/2024 8:29:30 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



1000010378.v2.jpg; Added on 1/12/2024 8:29:31 AM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-204 5th Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

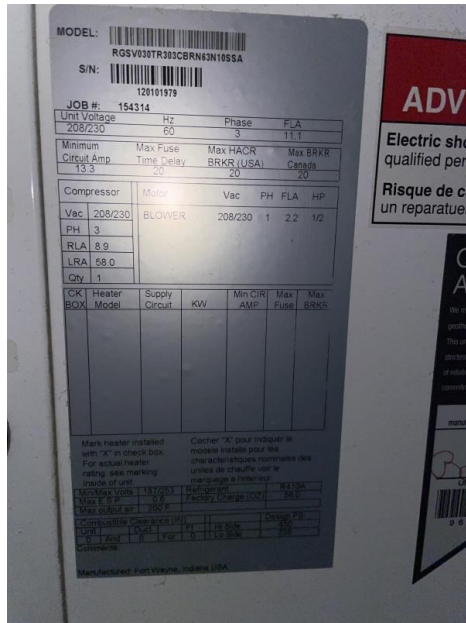
In Progress

		Design	Proposed	Final	Units
Description	HP-9				
Area Served	5th Grade 204				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/11/2024 10:01:19 AM:

Unit nameplate and overview



IMG\_1754.v2.jpg; Added on 1/11/2024 10:01:20 AM by dmychaluk@cm3inc.com



IMG\_1753.v2.jpg; Added on 1/11/2024 10:01:21 AM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-204 5TH GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	72.4	71.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 10:03:32 AM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 10:03:32 AM

**Functional Checklist And Issues Log**

**ISSUE-1033**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-204 5th Grade

Coil is dirty and compacted. : recommend professionally cleaning the coils.

**Status** Open  
**Entered** 1/11/2024 10:02:24 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



IMG\_1755.v2.jpg; Added on 1/11/2024 10:02:25 AM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-205 5th Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-14				
Area Served	5th Grade 205				
Location	Closet				

### Notes

dmychaluk@cm3inc.com on 1/11/2024 9:25:22 AM:  
Unit nameplate and overview



IMG\_1745.v2.jpg; Added on 1/11/2024 9:25:23 AM by dmychaluk@cm3inc.com



IMG\_1744.v2.jpg; Added on 1/11/2024 9:25:24 AM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-205 5TH GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	70.2	70.2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 9:14:11 AM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 9:14:11 AM

**Functional Checklist And Issues Log**

**ISSUE-1029**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-205 5th Grade

Coil is dirty and has multiple sections of bent fins. : recommend cleaning and combing of coil.

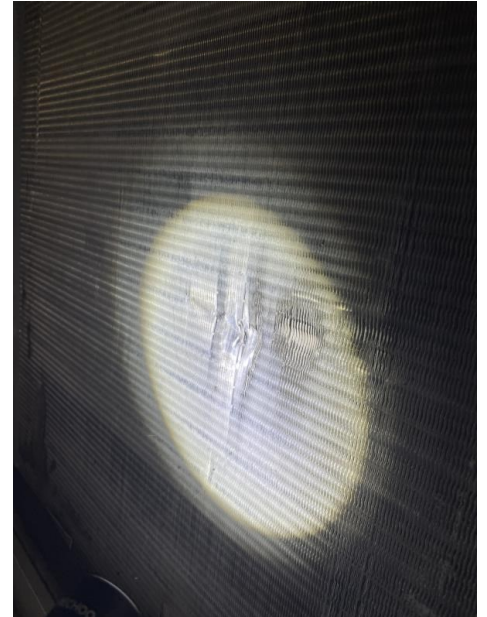
**Status** Open  
**Entered** 1/11/2024 9:27:53 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



IMG\_1750.v2.jpg; Added on 1/11/2024 9:27:54 AM by dmychaluk@cm3inc.com



IMG\_1749.v2.jpg; Added on 1/11/2024 9:27:55 AM by dmychaluk@cm3inc.com



IMG\_1748.v2.jpg; Added on 1/11/2024 9:27:56 AM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**



IMG\_1747.v2.jpg; Added on 1/11/2024 9:27:57 AM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## WSHP-206 4th Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-9				
Area Served	4th Grade 206				
Location	Closet				

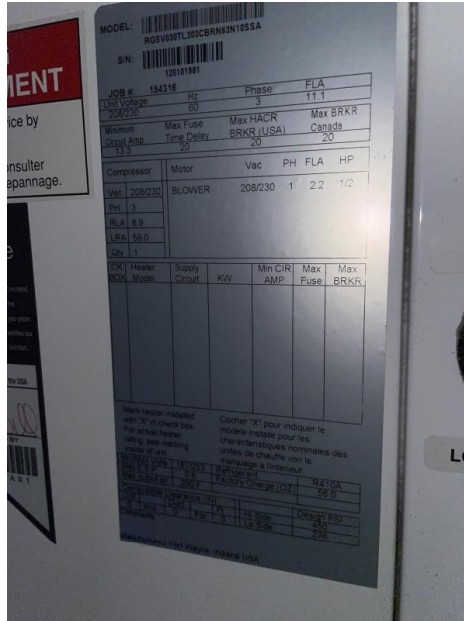
### Notes

dmychaluk@cm3inc.com on 1/11/2024 10:23:06 AM:

Unit nameplate and overview



IMG\_1756.v2.jpg; Added on 1/11/2024 10:23:07 AM by dmychaluk@cm3inc.com



IMG\_1758.v2.jpg; Added on 1/11/2024 10:23:08 AM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-206 4TH GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	71.9	72.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 10:21:18 AM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 10:21:18 AM

**Functional Checklist And Issues Log**



**ISSUE-1034**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-206 4th Grade

Coil is dirty and compacted. : recommend professionally cleaning the coils.

**Status** Open  
**Entered** 1/11/2024 10:24:02 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



IMG\_1759.v2.jpg; Added on 1/11/2024 10:24:03 AM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-207 5th Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-14				
Area Served	5th Grade 207				
Location	Closet				

### Notes

dmychaluk@cm3inc.com on 1/11/2024 9:30:33 AM:

Unit nameplate and overview



image.v2.jpg; Added on 1/11/2024 9:30:34 AM by dmychaluk@cm3inc.com



14488174\_image.v2.jpg; Added on 1/11/2024 9:31:14 AM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-207 5TH GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	71.2	70.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 9:38:07 AM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 9:38:07 AM

**Functional Checklist And Issues Log**

# Functional Checklist And Issues Log

## WSHP-207 5TH GRADE ISSUES

### ISSUE-1030

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-207 5th Grade

Air filter has not been changed for a long period of time. It is compacted and off center of the coil. The filter was changed during the inspection process. : recommend updating PM frequency for this unit.

**Status** Open  
**Entered** 1/11/2024 9:33:18 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



image.v2.jpg; Added on 1/11/2024 9:33:19 AM by dmychaluk@cm3inc.com



09829276\_image.v2.jpg; Added on 1/11/2024 9:34:09 AM by dmychaluk@cm3inc.com



43419791\_IMG\_1751.v2.jpg; Added on 1/11/2024 9:51:43 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1031

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-207 5th Grade

Coil is dirty and requires cleaning.: recommend cleaning the coil of this unit.

**Status** Open  
**Entered** 1/11/2024 9:35:10 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



image.v2.jpg; Added on 1/11/2024 9:35:11 AM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1032

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-207 5th Grade

The zone thermostat thumb wheel is missing and damaged. : recommend replacement of the thermostat

**Status** Open  
**Entered** 1/11/2024 9:39:22 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



PXL\_20240111\_143616677.v2.jpg; Added on 1/11/2024 9:39:22 AM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-208 4th Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

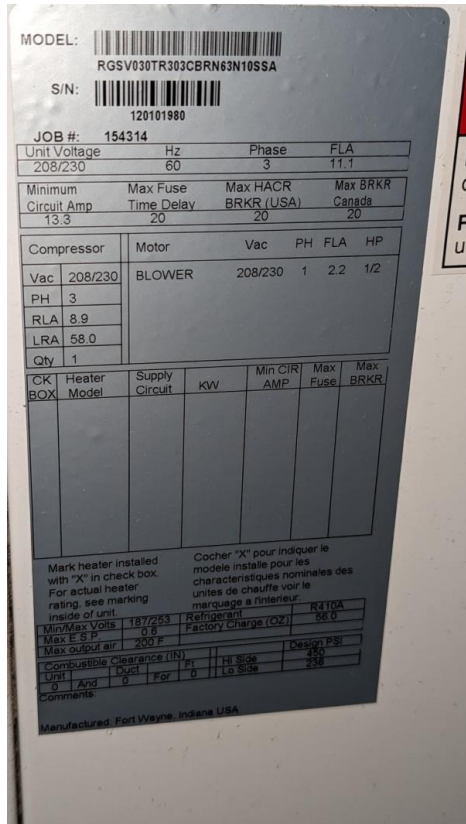
In Progress

		Design	Proposed	Final	Units
Description	HP-9				
Area Served	4th Grade 208				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/11/2024 10:55:47 AM:

Unit nameplate and overview



PXL\_20240111\_155405121.v2.jpg; Added on 1/11/2024 10:55:48 AM by dmychaluk@cm3inc.com



PXL\_20240111\_155358678.v2.jpg; Added on 1/11/2024 10:55:48 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-208 4TH GRADE WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	72.4	71.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 10:47:01 AM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 10:47:01 AM

**Functional Checklist And Issues Log**

**ISSUE-1035**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-208 4th Grade

Coil is dirty and compacted. : recommend professional cleaning of the coil

**Status** Open  
**Entered** 1/11/2024 10:57:29 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



1000010283.v2.jpg; Added on 1/11/2024 10:57:30 AM by dmychaluk@cm3inc.com

# WSHP-209 4th Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

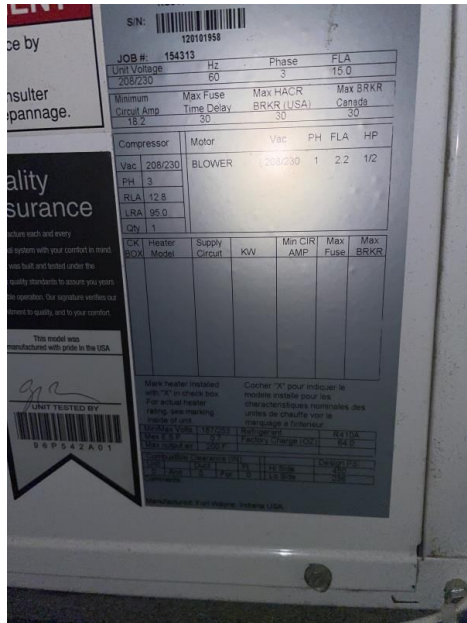
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-14				
Area Served	4th Grade 209				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/11/2024 12:30:30 PM:  
 Unit nameplate and overview



IMG\_1762.v2.jpg; Added on 1/11/2024 12:30:31 PM by dmychaluk@cm3inc.com



IMG\_1760.v2.jpg; Added on 1/11/2024 12:30:32 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-209 4TH GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	73.6	73.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 12:43:19 PM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 12:43:19 PM

**Functional Checklist And Issues Log**

## Functional Checklist And Issues Log

### WSHP-209 4TH GRADE ISSUES

#### ISSUE-1039

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-209 4th Grade

Coil is dirty and requires cleaning. : Recommend professionally cleaning the coils.

<b>Status</b>	Open
<b>Entered</b>	1/11/2024 12:44:13 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	IAQ
<b>Category</b>	Mechanical
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	Open
<b>Due Date</b>	1/18/2024 12:00:00 AM

# Functional Checklist And Issues Log

## ISSUE-1041

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-209 4th Grade

Graphics in the existing Honeywell server are reversed for WSHP 211 and 209. : recommend correction within the new Niagara front end.

<b>Status</b>	<b>Closed</b>
<b>Entered</b>	1/11/2024 12:53:33 PM
<b>Entered By</b>	dmychaluk@cm3inc.com
<b>Priority</b>	Automation
<b>Category</b>	Automation
<b>Assigned To</b>	dmychaluk@cm3inc.com
<b>Respondent Status</b>	<b>Complete</b>
<b>Due Date</b>	1/18/2024 12:00:00 AM
<b>Closed On</b>	2/29/2024 12:17:13 PM

### Responses

dmychaluk@cm3inc.com on 2/29/2024 12:17:13 PM:  
Unit numbers corrected within the niagara system. Issue resolved.

WSHP_209	Profan@cm3	Config Update	3	Y	01/11/2024 12:53:33 PM	1/11/2024 12:53:33 PM	Automation	Automation	dmychaluk@cm3inc.com
WSHP_211	Profan@cm3	Config Update	3	Y	01/11/2024 12:53:33 PM	1/11/2024 12:53:33 PM	Automation	Automation	dmychaluk@cm3inc.com

211\_209.png; Added on 2/29/2024 12:17:13 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1044

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-209 4th Grade

Isolation valve not moving when unit is off or compressor cmd is off. : recommend replacement of the actuator

**Status** Open  
**Entered** 1/11/2024 1:14:52 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



17049968676907985331853502211876.jpg; Added on 1/11/2024 1:14:53 PM by dmychaluk@cm3inc.com

# WSHP-210 4th Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

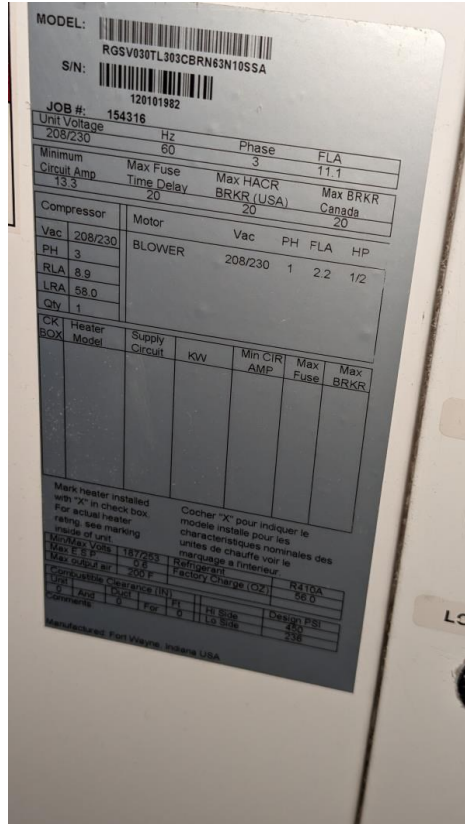
		Design	Proposed	Final	Units
Description	HP-9				
Area Served	4th Grade 210				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/11/2024 11:36:38 AM:  
 Unit nameplate and overview



PXL\_20240111\_155833876.v2.jpg; Added on 1/11/2024 11:36:39 AM by dmychaluk@cm3inc.com



PXL\_20240111\_155840387.v2.jpg; Added on 1/11/2024 11:36:39 AM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-210 4TH GRADE WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Status does not appear to be functional
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	71.0	72.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 11:01:09 AM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 11:01:09 AM

**Functional Checklist And Issues Log**



**ISSUE-1036**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-210 4th Grade

Unit serves a space which used to be a single classroom and is now two classrooms. The thermostat is located in the effective hallway of both classrooms. : recommend evaluation of this setup, if possible install two remote temperature sensors, using the average to control the unit.

**Status** Open  
**Entered** 1/11/2024 11:42:00 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



1000010287.v2.jpg; Added on 1/11/2024 11:42:01 AM by dmychaluk@cm3inc.com



1000010286.v2.jpg; Added on 1/11/2024 11:42:02 AM by dmychaluk@cm3inc.com

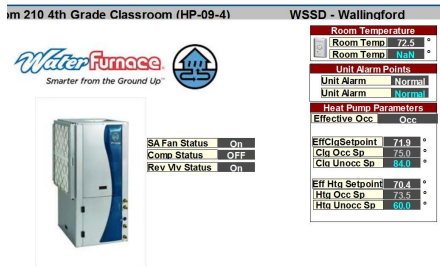
# Functional Checklist And Issues Log

## ISSUE-1037

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-210 4th Grade

reversing valve status not changing state between heating and cooling modes. :  
 recommend verification of point after integration and replacement of controller as needed.

**Status** Closed  
**Entered** 1/11/2024 11:46:16 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Complete  
**Due Date** 1/18/2024 12:00:00 AM  
**Closed On** 2/29/2024 3:30:58 PM



hp.210.rev.png; Added on 1/11/2024 11:46:16 AM by dmychaluk@cm3inc.com

### Responses

dmychaluk@cm3inc.com on 2/29/2024 3:30:58 PM:  
 Reversing valve reporting correctly after integration into the new BAS.

Name	Out	Fa
SpaceTemp	71.6 °F {unackedAlarm}	
EffClgSetpt	73.1 °F {ok}	
EffHtgSetpt	71.1 °F {ok}	
OccupiedCool_Stpnt	74.0 °F {ok} @ def	
OccupiedHeat_Stpnt	70.0 °F {ok} @ def	
UnoccupiedHeat_Stpnt	60.0 °F {ok} @ def	
UnoccupiedCool_Stpnt	84.0 °F {ok} @ def	
OccManCmd	ocOccupied {ok} @ 10	
EffectOccupancy	ocOccupied {ok}	
FanStatus	On {ok}	
AlarmStatus	Off {ok}	
CompStatus	Off {ok}	
AlarmReset	Normal {ok} @ def	
Setpoint	nan °F {ok} @ def	
UnitStatus_mode	hvacAuto {ok}	
RVStatus	Off {ok}	
WaterValveStatus	Off {ok}	
CondenserDischargeTemp	73.1 °F {ok}	
SpaceHumidity	22.175 % {ok}	

hp.210.rv1.png; Added on 2/29/2024 3:30:58 PM by dmychaluk@cm3inc.com

Name	Out	Fault C
SpaceTemp	71.0 °F {unackedAlarm}	
EffClgSetpt	70.2 °F {ok}	
EffHtgSetpt	68.2 °F {ok}	
OccupiedCool_Stpnt	74.0 °F {ok} @ def	
OccupiedHeat_Stpnt	70.0 °F {ok} @ def	
UnoccupiedHeat_Stpnt	60.0 °F {ok} @ def	
UnoccupiedCool_Stpnt	84.0 °F {ok} @ def	
OccManCmd	ocOccupied {ok} @ 10	
EffectOccupancy	ocOccupied {ok}	
FanStatus	On {ok}	
AlarmStatus	Off {ok}	
CompStatus	Off {ok}	
AlarmReset	Normal {ok} @ def	
Setpoint	70.0 °F {overridden} @ 8	
UnitStatus_mode	hvacAuto {ok}	
RVStatus	On {ok}	
WaterValveStatus	Off {ok}	
CondenserDischargeTemp	73.1 °F {ok}	
SpaceHumidity	22.565 % {ok}	

hp.210.rv2.png; Added on 2/29/2024 3:30:58 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1038

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-210 4th Grade

Could be dirty and compacted. : recommend professionally cleaning the coils

**Status** Open  
**Entered** 1/11/2024 11:48:04 AM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



1000010289.v2.jpg; Added on 1/11/2024 11:48:06 AM by dmychaluk@cm3inc.com

**Functional Checklist And Issues Log**

# WSHP-211 Spec Ed

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-14				
Area Served	Spec Ed 211				
Location	Closet				

**WSHP-211 SPEC ED WORK**

## Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	71.3	71.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

## Functional Checklist And Issues Log

**Complete**

**Assigned to** dmychaluk@cm3inc.com

**Created by** dmychaluk@cm3inc.com on 1/11/2024 12:59:58 PM

**Marked complete by** dmychaluk@cm3inc.com on 1/11/2024 12:59:58 PM

WSHP-211 SPEC ED ISSUES

**ISSUE-1040**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-211 Spec Ed

Access hatch to the unit is stuck and requires physical manipulation to lift the door slightly which enables the lock to move. Due to this issue the filter has not been changed since the last cycle on 4/11/22. : Recommend correction of the door to raise it slightly and allow for access to the unit.

**Status** Open  
**Entered** 1/11/2024 12:47:34 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Structural  
**Category** Structural, Access  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM

# Functional Checklist And Issues Log

## ISSUE-1042

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-211 Spec Ed

Thermostat has a broken thumb wheel and requires replacement. : recommend replacement of sensor.

**Status** Open  
**Entered** 1/11/2024 12:58:27 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



PXL\_20240111\_175707926.v2.jpg; Added on 1/11/2024 12:58:27 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

### ISSUE-1043

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-211 Spec Ed

Coil is dirty and requires cleaning. : recommend professional cleaning of the coil.

**Status** Open  
**Entered** 1/11/2024 1:04:34 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



170499624764426841181192746698.v2.jpg; Added on 1/11/2024 1:04:35 PM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-213 3rd Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

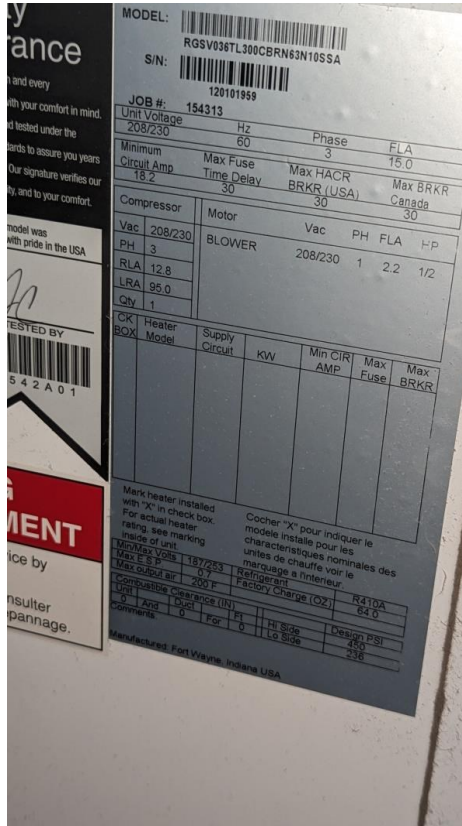
		Design	Proposed	Final	Units
Description	HP-14				
Area Served	3rd Grade 213				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/11/2024 1:34:56 PM:  
Unit nameplate and overview



1000010300.v2.jpg; Added on 1/11/2024 1:34:56 PM by dmychaluk@cm3inc.com



1000010301.v2.jpg; Added on 1/11/2024 1:34:56 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-213 3RD GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	71.3	70.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	71.9	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 1:40:01 PM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 1:40:01 PM

**Functional Checklist And Issues Log**



**ISSUE-1046**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-213 3rd Grade

Unit coil needs cleaning. : recommend professional cleaning of the coil.

**Status** Open  
**Entered** 1/11/2024 1:49:01 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



PXL\_20240111\_183319976.v2.jpg; Added on 1/11/2024 1:49:01 PM by dmychaluk@cm3inc.com

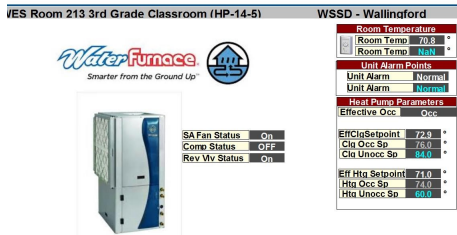
# Functional Checklist And Issues Log

## ISSUE-1047

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-213 3rd Grade

Reversing valve cmd and status not changing between heating and cooling mode. Unit is cooling in heating mode down to 56 Deg F DAT and supplying 71 Deg F in cooling mode: recommend troubleshooting the JCI controller, replacement may be required.

**Status** Closed  
**Entered** 1/11/2024 1:51:24 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Complete  
**Due Date** 1/18/2024 12:00:00 AM  
**Closed On** 2/29/2024 3:27:07 PM



11811316\_WES.213.png; Added on 1/11/2024 1:58:11 PM by dmychaluk@cm3inc.com

## Responses

dmychaluk@cm3inc.com on 2/29/2024 3:27:07 PM:  
 Reversing valve reporting correctly after integration into the new BAS.

SpaceTemp	72.7 °F {unackedAlarm}	
EffClgSetpt	71.9 °F {ok}	
EffHtgSetpt	69.0 °F {ok}	
OccupiedCool_Stpnt	74.0 °F {ok} @ def	
OccupiedHeat_Stpnt	70.0 °F {ok} @ def	
UnoccupiedHeat_Stpnt	60.0 °F {ok} @ def	
UnoccupiedCool_Stpnt	84.0 °F {ok} @ def	
OccManCmd	ocOccupied {ok} @ 10	
EffectOccupancy	ocOccupied {ok}	
FanStatus	On {ok}	
AlarmStatus	Off {ok}	
CompStatus	Off {ok}	
AlarmReset	Normal {ok} @ def	
Setpoint	nan °F {ok} @ def	
UnitStatus_mode	hvacAuto {ok}	
RVStatus	On {ok}	
WaterValveStatus	On {ok}	
CondenserDischargeTemp	73.2 °F {ok}	
SpaceHumidity	26.760 % {ok}	

SpaceTemp	72.6 °F {unackedAlarm}	
EffClgSetpt	76.0 °F {ok}	
EffHtgSetpt	74.0 °F {ok}	
OccupiedCool_Stpnt	74.0 °F {ok} @ def	
OccupiedHeat_Stpnt	72.0 °F {ok} @ def	
UnoccupiedHeat_Stpnt	60.0 °F {ok} @ def	
UnoccupiedCool_Stpnt	84.0 °F {ok} @ def	
OccManCmd	ocOccupied {ok} @ 10	
EffectOccupancy	ocOccupied {ok}	
FanStatus	On {ok}	
AlarmStatus	Off {ok}	
CompStatus	Off {ok}	
AlarmReset	Normal {ok} @ def	
Setpoint	nan °F {ok} @ def	
UnitStatus_mode	hvacAuto {ok}	
RVStatus	Off {ok}	
WaterValveStatus	Off {ok}	
CondenserDischargeTemp	75.3 °F {ok}	
SpaceHumidity	27.080 % {ok}	

HP.213.RV2.png; Added on 2/29/2024 3:27:07 PM by dmychaluk@cm3inc.com

HP.213.rv1.png; Added on 2/29/2024 3:27:07 PM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-214 3rd Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

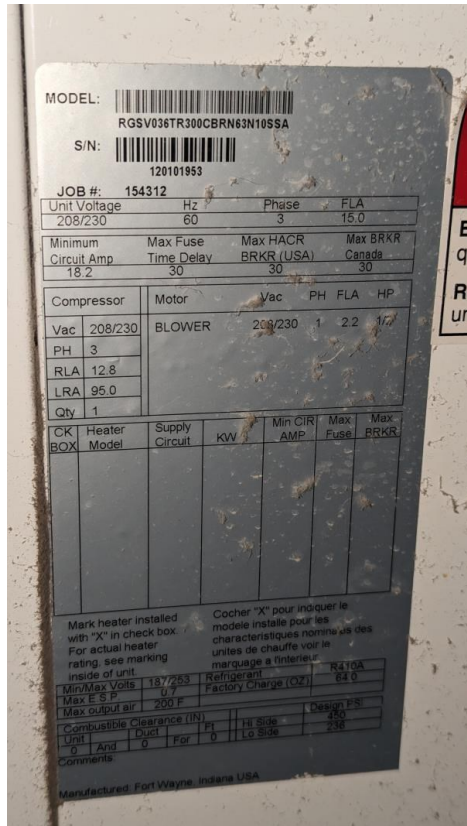
WSHP

In Progress

	Design	Proposed	Final	Units
Description	HP-14			
Area Served	3rd Grade 214			
Location	Closet			

### Notes

dmychaluk@cm3inc.com on 1/11/2024 1:36:36 PM:  
Unit nameplate and overview



1000010304.v2.jpg; Added on 1/11/2024 1:36:36 PM by dmychaluk@cm3inc.com



1000010303.v2.jpg; Added on 1/11/2024 1:36:37 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-214 3RD GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	Bad	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	----	73.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	73.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 1:39:44 PM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 1:39:44 PM

**Functional Checklist And Issues Log**



**ISSUE-1045**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-214 3rd Grade

Coil is dirty should be cleaned. : recommend professional cleaning of the coil.

**Status** Open  
**Entered** 1/11/2024 1:37:39 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



1000010302.v2.jpg; Added on 1/11/2024 1:37:39 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1048

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-214 3rd Grade

Fan status not reporting correctly, with fan off or on status shows on. : Recommend verification of point and correction of controller if required.

**Status** Closed  
**Entered** 1/11/2024 2:13:36 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Complete  
**Due Date** 1/18/2024 12:00:00 AM  
**Closed On** 2/29/2024 3:21:25 PM

### WES Room 214 3rd Grade Classroom (HP-14-6)



SA Fan Status	On
Comp Status	Off
Rev Vlv Status	Off

WES.214.Fansts.png; Added on 1/11/2024 2:13:36 PM by dmychaluk@cm3inc.com

## Responses

dmychaluk@cm3inc.com on 2/29/2024 3:21:25 PM:  
 Fan status now changing state after integration and correct point mapping occurred.

### WSSD\_WES\_1/HP\_14\_214\_FanStatus

Timestamp	Trend Flags	Status	Value
23-Feb-24 12:06:25 PM EST	{start}	{ok}	On
23-Feb-24 4:24:24 PM EST	{}	{ok}	Off
24-Feb-24 7:30:13 AM EST	{}	{ok}	On
24-Feb-24 3:00:17 PM EST	{}	{ok}	Off
26-Feb-24 5:00:19 AM EST	{}	{ok}	On
26-Feb-24 4:00:15 PM EST	{}	{ok}	Off
27-Feb-24 6:00:19 AM EST	{}	{ok}	On
27-Feb-24 4:00:16 PM EST	{}	{ok}	Off
28-Feb-24 6:00:20 AM EST	{}	{ok}	On
28-Feb-24 3:30:21 PM EST	{}	{ok}	Off
29-Feb-24 7:00:21 AM EST	{}	{ok}	On

HP.214.Fs.png; Added on 2/29/2024 3:21:25 PM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-215 31Spec Ed

Project / Wallingford Elementary School / Water Source Heat Pumps

WSHP

In Progress

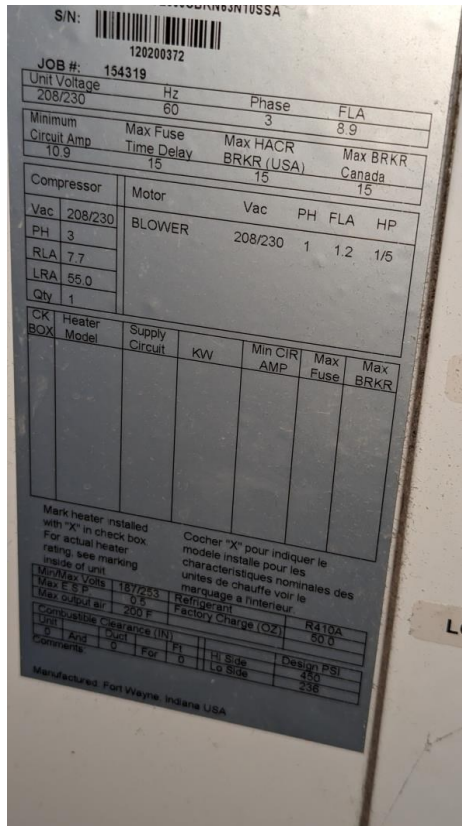
		Design	Proposed	Final	Units
Description	HP-13				
Area Served	Spec Ed 215				
Location	Closet				

### Notes

dmychaluk@cm3inc.com on 1/11/2024 2:17:35 PM:  
Unit nameplate and overview



1000010311.v2.jpg; Added on 1/11/2024 2:17:36 PM by dmychaluk@cm3inc.com



1000010312.v2.jpg; Added on 1/11/2024 2:17:36 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-215 31SPEC ED WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	----	74.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	72	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 2:18:12 PM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 2:18:12 PM

**Functional Checklist And Issues Log**

**ISSUE-1049**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-215 31Spec Ed

Coil is dirty and requires cleaning. : recommend professional cleaning of coil.

**Status** Open  
**Entered** 1/11/2024 2:19:45 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



1000010310.v2.jpg; Added on 1/11/2024 2:19:46 PM by dmychaluk@cm3inc.com

Functional Checklist And Issues Log

# WSHP-221 3rd Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

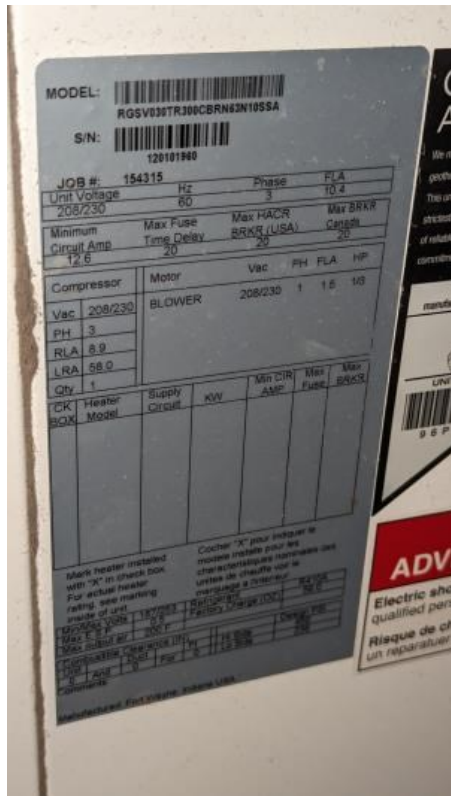
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-15				
Area Served	3rd Grade 221				
Location	Closet				

## Notes

dmychaluk@cm3inc.com on 1/11/2024 2:46:51 PM:  
Unit nameplate and overview



06951982\_1000010320.v2.jpg; Added on 1/11/2024 2:57:06 PM by dmychaluk@cm3inc.com



07420739\_1000010319.v2.jpg; Added on 1/11/2024 2:57:07 PM by dmychaluk@cm3inc.com

### Functional Checklist And Issues Log

WSHP-221 3RD GRADE WORK

#### Functional Checklist

AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	71.8	71.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	72	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 2:40:49 PM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 2:40:49 PM

**Functional Checklist And Issues Log**

# Functional Checklist And Issues Log

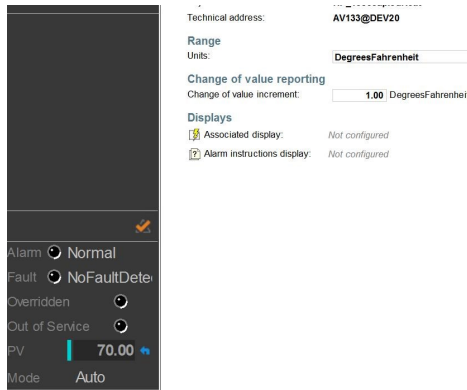
WSHP-221 3RD GRADE ISSUES

## ISSUE-1050

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-221 3rd Grade

Occupied heating setpoint not allowing an override through existing honeywell EBI software. : Recommend correction and verification of point once new system is brought into Niagara.

**Status** Closed  
**Entered** 1/11/2024 2:49:07 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Complete  
**Due Date** 1/18/2024 12:00:00 AM  
**Closed On** 2/29/2024 1:52:24 PM



WES.221.nohe.png; Added on 1/11/2024 2:49:07 PM by dmychaluk@cm3inc.com

## Responses

dmychaluk@cm3inc.com on 2/29/2024 1:52:24 PM:  
 Unit integrated into Niagara and will now accept override commands. Issue resolved.

Name	Unit	Fault Cause
SpaceTemp	72.1 °F {unackedAlarm}	
EffClgSetpt	71.9 °F {ok}	
EffHtgSetpt	69.9 °F {ok}	
OccupiedCool_Stpnt	74.0 °F {ok} @ def	
OccupiedHeat_Stpnt	72.0 °F {ok} @ def	
UnoccupiedHeat_Stpnt	60.0 °F {ok} @ def	
UnoccupiedCool_Stpnt	84.0 °F {ok} @ def	
OccManCmd	ocOccupied {ok} @ 10	
EffectOccupancy	ocOccupied {ok}	
FanStatus	On {ok}	
AlarmStatus	Off {ok}	
CompStatus	Off {ok}	
AlarmReset	Normal {ok} @ def	
Setpoint	74.0 °F {overridden} @ 8	
UnitStatus_mode	hvacAuto {ok}	
RVStatus	On {ok}	
WaterValveStatus	Off {ok}	
CondenserDischargeTemp	73.6 °F {ok}	
SpaceHumidity	23.405 % {ok}	
lon11NcTempOffset	-0.800 °C {ok} @ def	

Override.png; Added on 2/29/2024 1:52:24 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1051

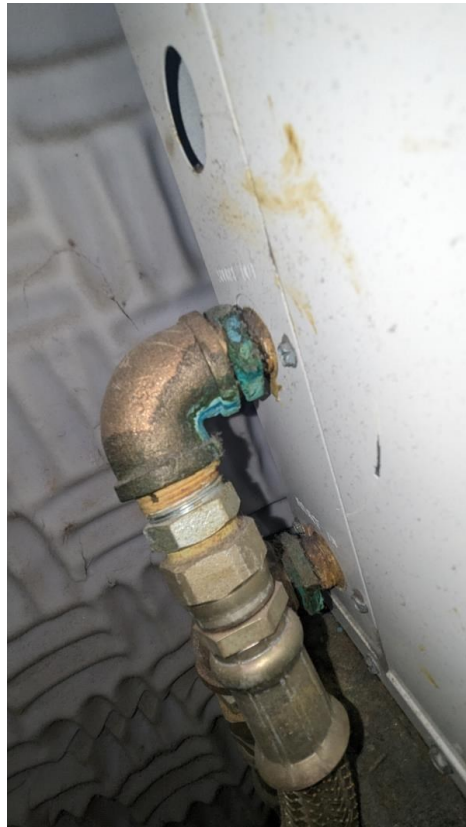
Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-221 3rd Grade

Corrosion found in fittings for inlet and outlet piping on the unit. : Recommend extending fittings if possible to allow for easier panel removal and to correct corrosion on fittings.

**Status** Open  
**Entered** 1/11/2024 3:08:26 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Mechanical  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/18/2024 12:00:00 AM



PXL\_20240111\_193806118.v2.jpg; Added on 1/11/2024 3:08:26 PM by dmychaluk@cm3inc.com



PXL\_20240111\_193802769.v2.jpg; Added on 1/11/2024 3:08:27 PM by dmychaluk@cm3inc.com



PXL\_20240111\_195536770.v2.jpg; Added on 1/11/2024 3:08:27 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## WSHP-225 3rd Grade

Project / Wallingford Elementary School / Water Source Heat Pumps

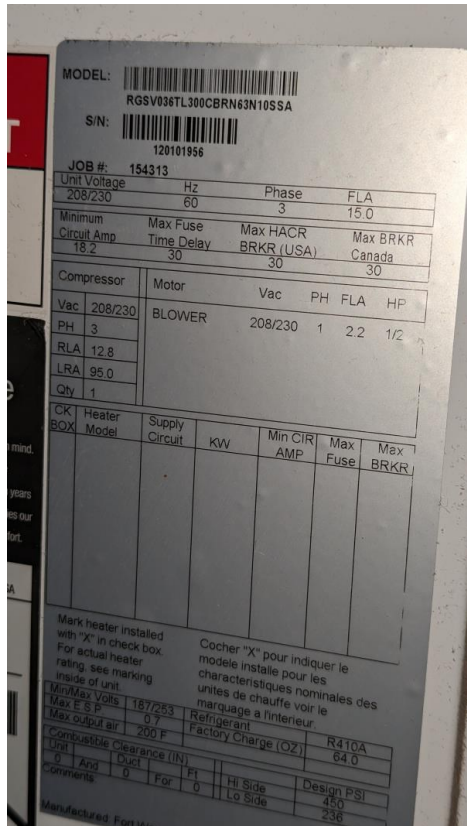
WSHP

In Progress

		Design	Proposed	Final	Units
Description	HP-16				
Area Served	3rd Grade 225				
Location	Closet				

### Notes

dmychaluk@cm3inc.com on 1/11/2024 3:11:26 PM:  
Unit nameplate and overview



PXL\_20240111\_201020587.v2.jpg; Added on 1/11/2024 3:11:26 PM by dmychaluk@cm3inc.com



PXL\_20240111\_201007645.v2.jpg; Added on 1/11/2024 3:11:26 PM by dmychaluk@cm3inc.com

## Functional Checklist And Issues Log

WSHP-225 3RD GRADE WORK

### Functional Checklist

#### AHU Functional Checklist

Controller	Point Name	Units	I/O #	BO	AO 0%	AO 50%	AO 100%	BI	Hand Probe Reading	BAS AI Reading	Pass	Fail	NA	Comments
----	Compressor Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Reversing Valve Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Cmd	DO	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Supply Fan Status	DI	----	----	----	----	----	OK	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Space Temperature	AI	----	----	----	----	----	----	71.0	71.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Occupancy Cmd	DO	----	Bad	----	----	----	----	----	----	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	----
----	Unocc Bypass Switch	DO	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Occupied Setpoint	AI	----	----	----	----	----	----	----	72	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unoccupied Setpoint	AI	----	----	----	----	----	----	----	62	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----
----	Isolation valve	Do	----	Ok	----	----	----	----	----	----	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	----
----	Unit Alarm	DI	----	----	----	----	----	----	----	----	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	----

**Complete**

Assigned to dmychaluk@cm3inc.com

Created by dmychaluk@cm3inc.com on 1/11/2024 3:12:20 PM

Marked complete by dmychaluk@cm3inc.com on 1/11/2024 3:12:20 PM

**Functional Checklist And Issues Log**

**ISSUE-1052**

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-225 3rd Grade

Unit access door is not able to be opened without lifting the door slightly. Due to this issue the filters have not been changed since the last cycle 4/2022

**Status** Closed  
**Entered** 1/11/2024 3:14:43 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** IAQ  
**Category** Mechanical  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Complete  
**Due Date** 1/18/2024 12:00:00 AM  
**Closed On** 2/29/2024 12:01:06 PM



PXL\_20240111\_195748883.v2.jpg; Added on 1/11/2024 3:14:43 PM by dmychaluk@cm3inc.com



PXL\_20240111\_195740824.v2.jpg; Added on 1/11/2024 3:14:44 PM by dmychaluk@cm3inc.com

**Responses**

## Functional Checklist And Issues Log

dmychaluk@cm3inc.com on 2/29/2024 12:01:06 PM:

Filter changed as part of the functional testing process to ensure accurate measurements. Filter technician should be advised of the access door issues.



01813961\_17050040950381045999424820154135 (1).jpg;  
Added on 2/29/2024 12:01:06 PM by dmychaluk@cm3inc.com

# Functional Checklist And Issues Log

## ISSUE-1071

Project / Wallingford Elementary School / Water Source Heat Pumps / WSHP-225 3rd Grade

Thermostat thumb wheel is damaged and needs replacement. : recommend replacement of thermostat

**Status** Open  
**Entered** 1/12/2024 3:47:14 PM  
**Entered By** dmychaluk@cm3inc.com  
**Priority** Automation  
**Category** Automation  
**Assigned To** dmychaluk@cm3inc.com  
**Respondent Status** Open  
**Due Date** 1/19/2024 12:00:00 AM



1000010394.v2.jpg; Added on 1/12/2024 3:47:14 PM by dmychaluk@cm3inc.com

## Issues Log Condensed

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### Issues Log Condensed

CLOSED  
**12** 8.7% of 138

INFO. ONLY  
**0** 0% of 138

AWAIT. VER.  
**0** 0% of 138

OPEN  
**126** 91.3% of 138

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE- 984	Automation	Automation	BAS hot water supply sensor is reading 122 Deg F actual temp is 138 Deg F, sensor appears to be used for monitoring only but should be considered for replacement. : Recommend replacing the sensor.	Open	Open	Boiler-1A	dmychaluk@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 985	Mechanical	Mechanical	Condensate drain line is pinched and kinked requiring correction. : Recommend installation of a 90* coupler to barbed fitting preventing the tubing from bending.	Open	Open	Boiler-1A	dmychaluk@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 986	Automation	Automation	BAS hot water supply sensor is reading 122 Deg F actual temp is 138 Deg F, sensor appears to be used for monitoring only but should be considered for replacement. : Recommend replacing the sensor.	Open	Open	Boiler-1B	dmychaluk@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 987	Mechanical	Mechanical	Boiler water pump has a slow leak and is dripping onto natural gas piping and motor steel mounting. : Recommend correction of leak and correction of affected metals from the water leak.	Open	Open	HWP-3B	dmychaluk@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 989	Mechanical	Mechanical	Condensate drain line is pinched and kinked requiring correction. : Recommend installation of a 90* coupler to barbed fitting preventing the tubing from bending.	Open	Open	Boiler-1B	dmychaluk@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 990	Automation	Automation	Hot water system setpoint has no effect on plant operations, the pump speed nor bypass valve modulate to maintain the new setpoints. All boiler setpoints are fixed inside of the boiler controller and are not affected by the BAS. : Controller is an aged legacy product and should be replaced	Open	Open	HWS- Controls	dmychaluk@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 991	Automation	Automation	Outside air sensor average reporting at 51.5 Deg F, actual is 43.1 Deg F. : Recommend verification of sensors currently connected to the average and replacement of those sensors.	Open	Open	HWS- Controls	dmychaluk@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 992	Mechanical	Mechanical	Slow leak found on drain line. : recommend correction of leak.	Open	Open	HWP-2B	dmychaluk@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 993	Automation	Automation	Common water supply temp for the WSHP loop is 68 Deg F, the Setpoint is 72 Deg F. The heat exchanger valve is not opening, upon raising the setpoint the HX valve still did not open. Further testing will be required however the controller appears to be not functioning per the SOO. After watching the system for a period of time the HX valve did eventually open at a loop supply temp of 66 Deg F and a return of 64 the valve quickly opened to 25% : Recommend replacement of controller or correction of the deadband and PID loop within the honeywell XL50 controller to allow for a more gradual opening of the valve and allow for smoother control.	Open	Open	Controls	bencohen@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 994	Mechanical	Mechanical	Chemical feed canister for the heat pump loop has a leak, unable to determine the leaks source as there is glycol in various places on the canister and ground. : Recommend replacement of canister and proper sealing of inlet and outlet ports.	Open	Open	Controls	bencohen@cm3inc.com	1/11/2024 12:00:00 AM	

### Issues Log Condensed

Issues Log Condensed

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE- 995	Energy	Automation	BAS shows pump speed at 51% however the VFD is actually at 72%/43 Hz. : Recommend verification of output scaling within the Honeywell XI 5000 controller to match the drive settings.	Open	Open	Controls	bencohen@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 996	Energy	Automation	PID loop for the loop bypass running very slow. DP setpoint was dropped 1 PSI below current value, after 20 minutes the pump speed dropped by 2%. and the bypass valve opened 1% : Recommend evaluation of PID settings within the honeywell XI 5000 controller.	Open	Open	Controls	bencohen@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 997	Mechanical	Mechanical	While testing the HX valve gurgling and bubbling was noted in the water piping, possible air locked in the system without a pressure relief. : Recommend further mechanical investigation and installation of pressure relief or cleaning of existing relief valves as needed.	Open	Open	Controls	bencohen@cm3inc.com	1/11/2024 12:00:00 AM	
ISSUE- 999	Automation	Automation	Zone sensor is reading 3 Deg F lower than actual causing the space to overheat. : recommend replacement of the sensor or correcting offset within the controller.	Open	Open	C-109.B Toilet	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE- 1000	IAQ	Mechanical	Coil is dirty and requires cleaning. : Recommend cleaning of coil	Open	Open	WSHP-136 Spec Ed	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE- 1001	Mechanical	Mechanical	Unit needs a coil cleaning and drain line cleaning.	Open	Open	WSHP-133 2nd Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE- 1002	IAQ	Mechanical	Unit requires a coil cleaning	Open	Open	WSHP-131 2nd Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE- 1003	IAQ	Mechanical	Unit requires coil cleaning and drain flushing. : recommend cleaning coils	Open	Open	WSHP-129 2nd Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE- 1004	IAQ	Mechanical	Unit requires coil cleaning and drain line flush	Open	Open	WSHP-130 1st Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE- 1005	Energy	Automation	Zone sensor is reading 65.5 actual temp is 74.9, unit continues to overheat space. : Recommend replacement of zone sensor, controller may be failed as well  <b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 12:07:16 PM: Temperature sensor offset was updated and setpoints corrected to accurately reflect space temperature readings. Issue is resolved.	Closed	Complete	WSHP-128 1st Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	2/29/2024 12:07:16 PM
ISSUE- 1006	Automation	Automation	Fan status and Compressor status shows off or not changing state however the fan is running. When the fan is off the status shows on : recommend troubleshooting the point during integration of the unit. Possible the wrong point is linked in the graphic.	Closed	Complete	WSHP-128 1st Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	2/29/2024 3:36:57 PM

Issues Log Condensed

Issues Log Condensed

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 3:36:57 PM: Fan and compressor status now reporting correctly after integration.</p>									
ISSUE-1007	IAQ	Mechanical	Coil requires cleaning and drain line needs to be flushed.	Open	Open	WSHP-128 1st Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE-1008	Automation	Automation	Unit not responding to setpoint overrides from the Honeywell BAS. : recommend recommissioning upon integration into the Niagara server.	Closed	Complete	WSHP-131 2nd Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	2/29/2024 12:15:49 PM
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 12:15:49 PM: Setpoint linking corrected and updated, unit now responding to setpoint control.</p>									
ISSUE-1009	Automation	Automation	Offset for setpoint dial requires modification. : Recommend reviewing the point and setting within the jci controller.	Open	Open	WSHP-129 2nd Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE-1010	Mechanical	Mechanical	Coil requires cleaning. : Recommend cleaning coil	Open	Open	WSHP-127 2nd Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE-1011	Automation	Automation	Space sensor reading 2 deg f lower than actual. : Recommend replacement of sensor.	Open	Open	WSHP-127 2nd Grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	
ISSUE-1012	Automation	Automation	Zone sensor is reading 5 deg F warmer than actual. : recommend replacement of controller and sensor.	Closed	Complete	WSHP-126 1st grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	2/29/2024 12:06:28 PM
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 12:06:28 PM: Updated offset in the controller, zone temp reading 66 Deg F prior to the update and is now currently reading 73.4. Setpoints updated to reflect the new temperature sensor readings.</p>									
ISSUE-1013	Automation	Automation	Supply fan status and Compressor status not reporting properly, fan status shows on however it is off.	Closed	Complete	WSHP-126 1st grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	2/29/2024 3:34:50 PM
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 3:34:50 PM: Fan status and compressor status now reporting correctly with new integration</p>									
ISSUE-1014	Energy	Automation	In unoccupied mode the effective setpoint is not referenced, the unit is still showing occupied effective setpoints and the fan is cycling every few minutes. : Recommend correction of control logic and replacement of controller as needed.	Open	Open	WSHP-126 1st grade	dmychaluk@cm3inc.com	1/12/2024 12:00:00 AM	

Issues Log Condensed

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1015	Two	Automation	Zone C02 is reading 268 PPM and needs replacement or calibration. : Recommend replacement of this sensor.	Open	Open	RTU-4	dmychaluk@cm3inc.com	1/16/2024 12:00:00 AM	
ISSUE-1016	Automation	Automation	Heat wheel enable setpoints were modified however they do not automatically enable the heat wheel. : Recommend correction of the logic within the XL 5000 controller.	Open	Open	RTU-7	dmychaluk@cm3inc.com	1/16/2024 12:00:00 AM	
ISSUE-1017	Two	Structural, Access	Access door is slightly tilted preventing the lock from turning. : Realignment of door or planing the lower section of the door is required	Open	Open	WSHP-124 1st Grade	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	
ISSUE-1018	IAQ	Mechanical	Filter was not changed with the last change cycle due to door access issues last change in 4/11/22. It was changed during the inspection process on 1/5/23: recommend updating PM schedule for this unit and advising on access restriction issues.  <b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 12:02:51 PM: Filter changed during the inspection process on 1/5/23: recommend updating PM schedule for this unit and advising on access restriction issues.	Closed	Complete	WSHP-124 1st Grade	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	2/29/2024 12:02:51 PM
ISSUE-1019	IAQ	Mechanical	Coil is dirty and requires cleaning. : recommend professional cleaning of coil.	Open	Open	WSHP-125 Spec Ed	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	
ISSUE-1020	Two	Structural, Access	Teaching supplies are stacked in front of the unit preventing access to the unit. : Relocate or stack supplies so that access can be achieved.	Open	Open	UH-Storage 108 1-4	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	
ISSUE-1021	Automation	Automation	Unit is off at the disconnect, there is no LOTO and the unit is unreachable due to storage of items in front of the unit. : Recommend turning the unit back on and verifying functionality.	Open	Open	UH-Storage 108 1-4	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	
ISSUE-1023	Energy	Automation	Unit not responding to occupancy command, holds 68 Deg F setpoints regardless of occupancy mode. : Recommend correction of control logic within the XL 10 controller.	Open	Open	CUH-Stair S-1 CUH 1-4	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	
ISSUE-1024	Automation	Automation	Unit found switched off, possible to overheating issues due to no setpoint control or accurate space temperature readings. : Recommend correction of controller logic so the unit can be left in the "On" position and function as expected.	Open	Open	CUH-Stair S-1 CUH 1-4	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	
ISSUE-1025	Automation	Automation	When sensor was disconnected there was no change in temperature reading. Sensor is reading 3 Deg f below actual. Issue appears to be related to the XL-10 controller which should be replaced or reprogrammed.	Open	Open	CUH-Stair S-1 CUH 1-4	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	
ISSUE-1026	Energy	Automation	Zone sensor reading 3 Deg F lower than actual, space is overheating regularly. : Recommend correction of sensor or programming offsets in the XL 10	Open	Open	CUH-Vest C1.C	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	

Issues Log Condensed

Issues Log Condensed

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1027	Automation	Automation	Unit found turned off at the switch, unsure as to why this was done, unit may overheat the space due to improper setpoints and control. : Recommend correction of programming in the XL10 controller or replacement.	Open	Open	CUH-Vest C1-A CH 1-1	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	
ISSUE-1028	Automation	Automation	Sensor labeled 1-3 however unit is labeled 1-1 in the BAS. : Recommend correction of unit tagging once the unit is integrated into Niagara.	Open	Open	CUH-Vest C1-A CH 1-1	dmychaluk@cm3inc.com	1/17/2024 12:00:00 AM	
ISSUE-1029	Mechanical	Mechanical	Coil is dirty and has multiple sections of bent fins. : recommend cleaning and combing of coil.	Open	Open	WSHP-205 5th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1030	IAQ	Mechanical	Air filter has not been changed for a long period of time. It is compacted and off center of the coil. The filter was changed during the inspection process. : recommend updating PM frequency for this unit.	Open	Open	WSHP-207 5th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1031	Mechanical	Mechanical	Coil is dirty and requires cleaning.: recommend cleaning the coil of this unit.	Open	Open	WSHP-207 5th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1032	Automation	Automation	The zone thermostat thumb wheel is missing and damaged. : recommend replacement of the thermostat	Open	Open	WSHP-207 5th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1033	IAQ	Mechanical	Coil is dirty and compacted. : recommend professionally cleaning the coils.	Open	Open	WSHP-204 5th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1034	IAQ	Mechanical	Coil is dirty and compacted. : recommend professionally cleaning the coils.	Open	Open	WSHP-206 4th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1035	IAQ	Mechanical	Coil is dirty and compacted. : recommend professional cleaning of the coil	Open	Open	WSHP-208 4th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1036	Automation	Automation	Unit serves a space which used to be a single classroom and is now two classrooms. The thermostat is located in the effective hallway of both classrooms. : recommend evaluation of this setup, if possible install two remote temperature sensors, using the average to control the unit.	Open	Open	WSHP-210 4th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1037	Automation	Automation	reversing valve status not changing state between heating and cooling modes. : recommend verification of point after integration and replacement of controller as needed.	Closed	Complete	WSHP-210 4th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	2/29/2024 3:30:58 PM
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 3:30:58 PM: Reversing valve reporting correctly after integration into the new BAS.</p>									

**Issues Log Condensed**

ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1038	IAQ	Mechanical	Could are dirty and compacted. : recommend professionally cleaning the coils	Open	Open	WSHP-210 4th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1039	IAQ	Mechanical	Coil is dirty and requires cleaning. : Recommend professionally cleaning the coils.	Open	Open	WSHP-209 4th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1040	Structural	Structural, Access	Access hatch to the unit is stuck and requires physical manipulation to lift the door slightly which enables the lock to move. Due to this issue the filter has not been changed since the last cycle on 4/11/22. : Recommend correction of the door to raise it slightly and allow for access to the unit.	Open	Open	WSHP-211 Spec Ed	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1041	Automation	Automation	Graphics in the existing Honeywell server are reversed for WSHP 211 and 209. : recommend correction within the new Niagara front end.	Closed	Complete	WSHP-209 4th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	2/29/2024 12:17:13 PM
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 12:17:13 PM: Unit numbers corrected within the niagara system. Issue resolved.</p>									
ISSUE-1042	Automation	Automation	Thermostat has a broken thumb wheel and requires replacement. : recommend replacement of sensor.	Open	Open	WSHP-211 Spec Ed	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1043	Mechanical	Mechanical	Coil is dirty and requires cleaning. : recommend professional cleaning of the coil.	Open	Open	WSHP-211 Spec Ed	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1044	Automation	Automation	Isolation valve not moving when unit is off or compressor cmd is off. : recommend replacement of the actuator	Open	Open	WSHP-209 4th Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1045	Mechanical	Mechanical	Coil is dirty should be cleaned. : recommend professional cleaning of the coil.	Open	Open	WSHP-214 3rd Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1046	Mechanical	Mechanical	Unit coil needs cleaning. : recommend professional cleaning of the coil.	Open	Open	WSHP-213 3rd Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1047	Automation	Automation	Reversing valve cmd and status not changing between heating and cooling mode. Unit is cooling in heating mode down to 56 Deg F DAT and supplying 71 Deg F in cooling mode: recommend troubleshooting the JCI controller, replacement may be required.	Closed	Complete	WSHP-213 3rd Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	2/29/2024 3:27:07 PM
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 3:27:07 PM: Reversing valve reporting correctly after integration into the new BAS.</p>									

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ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1048	Automation	Automation	Fan status not reporting correctly, with fan off or on status shows on. : Recommend verification of point and correction of controller if required.	Closed	Complete	WSHP-214 3rd Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	2/29/2024 3:21:25 PM
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 3:21:25 PM: Fan status now changing state after integration and correct point mapping occurred.</p>									
ISSUE-1049	Mechanical	Mechanical	Coil is dirty and requires cleaning. : recommend professional cleaning of coil.	Open	Open	WSHP-215 31Spec Ed	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1050	Automation	Automation	Occupied heating setpoint not allowing an override through existing honeywell EBI software. : Recommend correction and verification of point once new system is brought into Niagara.	Closed	Complete	WSHP-221 3rd Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	2/29/2024 1:52:24 PM
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 1:52:24 PM: Unit integrated into Niagara and will now accept override commands. Issue resolved.</p>									
ISSUE-1051	Mechanical	Mechanical	Corrosion found in fittings for inlet and outlet piping on the unit. : Recommend extending fittings if possible to allow for easier panel removal and to correct corrosion on fittings.	Open	Open	WSHP-221 3rd Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1052	IAQ	Mechanical	Unit access door is not able to be opened without lifting the door slightly. Due to this issue the filters have not been changed side the last cycle 4/2022	Closed	Complete	WSHP-225 3rd Grade	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	2/29/2024 12:01:06 PM
<p><b>Response from</b> dmychaluk@cm3inc.com on 2/29/2024 12:01:06 PM: Filter changed as part of the functional testing process to ensure accurate measurements. Filter technician should be advised of the access door issues.</p>									
ISSUE-1053	Mechanical	Mechanical	Cap missing from Schrader valve, corrosion found on various fittings in Waterloo cabinet and compressor cabinet. : recommend remediation and correction of corrosion and replacement of cap.	Open	Open	RTU-1	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1054	Automation	Automation	Building static sensor is reading .02 regardless of damper position or unit operation. Additionally it has excessive amount of tubing and is made of poor quality which can pinch and be deformed easily. : recommend replacement of tubing and calibration of sensor.	Open	Open	RTU-1	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1055	Energy	Automation	Heatwheel has poor energy transfer. Outside air temp is 47.5 deg F. supply side of wheel is 48.8 deg f. exhaust of wheel is 70.3 deg F. : recommend servicing of wheel and replacement of pies.	Open	Open	RTU-1	dmychaluk@cm3inc.com	1/18/2024 12:00:00 AM	
ISSUE-1056	Mechanical	Mechanical	Unit is off at the disconnect, compressor wiring removed and compressor off of its mount. Appears unit is being repaired.. : Recommend verification of complete repairs, troubleshoot and provide a repair cost as needed.	Open	Open	WSHP-109 Fac Dining	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	

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ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1057	Automation	Automation	Thermostat missing thumb-wheel dial and requires replacement. : Recommend replacement of thermostat and adding a protective cover over the device.	Open	Open	WSHP-123 Kindergarten	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1058	IAQ	Mechanical	Newly installed filter not properly sitting across coil face. Filter was re-positioned however the coil does require cleaning as this appears to have happened several times during previous filter changes.	Open	Open	WSHP-123 Kindergarten	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1059	Automation	Automation	Zone sensor reading 3 Deg F higher than actual. : recommend calibration of the sensor or replacement if required.	Open	Open	WSHP-122 Kindergarten	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1060	IAQ	Mechanical	Filter not properly sitting on the coil face. Coil requires cleaning, filter was adjusted to cover the filter face. : recommend cleaning of coil and additional instruction on installation of filters.	Open	Open	WSHP-122 Kindergarten	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1061	IAQ	Mechanical	Coil is dirty and requires cleaning: recommend professional cleaning of coil	Open	Open	WSHP-202 5th Grade	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1062	Automation	Automation	Thermostat thumb wheel is damaged and missing. : recommend replacement of the thermostat	Open	Open	WSHP-202 5th Grade	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1063	Mechanical	Mechanical	Active slow leak on the glycol loop for the unit. Actuator is disconnected and needs replacement. : recommend correction of leak and replacement of actuator.	Open	Open	WSHP-122 Kindergarten	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1064	Mechanical	Mechanical	Coil is dirty and requires cleaning. : Recommend professional cleaning of coils.	Open	Open	WSHP-201 Art Classroom	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1065	Mechanical	Mechanical	Rust begining to form on coil frame, recommend evaluation and remediation of rust as possible.	Open	Open	WSHP-201 Art Classroom	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1066	Automation	Automation	Unit labeled CH 1-3 in the BAS, recommend correction of point labeling when the unit is integration into Niagara.	Open	Open	CUH-Corr C6 South	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1067	Automation	Automation	Unit active setpoint not modifying to current occupied setpoints, when adjusting the active setpoint no change is noted. The device is functional when the temperature sensor goes below 67 Deg F however the setpoint is not adjustable: Recommend correction of unit contorl within the XL10 controller.	Open	Open	C-229.A Fac C1-9	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1068	Automation	Automation	Unit active setpoint not modifying to current occupied setpoints, when adjusting the active setpoint no change is noted. The device is functional when the temperature sensor goes below 67 Deg F however the setpoint is not adjustable: Recommend correction of unit contorl within the XL10 controller.	Open	Open	C-101.B Toilet	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	

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ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1069	Automation	Automation	Zone sensor is reading -32 DegF and requires replacement. : Recommend replacement of flush mount temperature sensor.	Open	Open	C-101.F Toilet	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1070	Automation	Automation	Unit active setpoint not modifying to current occupied setpoints, when adjusting the active setpoint no change is noted. The device is functional when the temperature sensor goes below 67 Deg F however the setpoint is not adjustable: Recommend correction of unit control within the XL10 controller.	Open	Open	C-122.A Toilet 1-4	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1071	Automation	Automation	Thermostat thumb wheel is damaged and needs replacement. : recommend replacement of thermostat	Open	Open	WSHP-225 3rd Grade	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1072	Automation	Automation	Unit off at the rocker switch, unit appears to be functional and cycles as expected when enabled, it should be left enabled and setpoints adjusted to meet building comfort : Recommend turning unit on to improve building comfort.	Open	Open	CUH-Corr C6 South	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1073	Automation	Automation	Unit off at its rocker switch and cabinet is locked, will need to gain access to test and verify unit operation.	Open	Open	CUH-Corr C6 North	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1074	Automation	Automation	When setpoint is modified to 73 Deg F the effective setpoint only goes to 69.8. : Recommend verification of setpoint limits and exposing them when the unit is integrated into Niagara.	Open	Open	C-219.A Toilet	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1075	Mechanical	Mechanical	Valve is moving however discharge air from the CUH is 71 Deg F after running for 10 minutes. : recommend troubleshooting the unit and verifying isolation valve positions.	Open	Open	CUH-Corr C-7	dmychaluk@cm3inc.com	1/19/2024 12:00:00 AM	
ISSUE-1076	Automation	Automation	Occupancy command not working correctly. When set to unoccupied the unit stays occupied. : Recommend correction of occupancy when unit is integrated to the bas.	Open	Open	SOV-229 Faculty Office	dmychaluk@cm3inc.com	1/29/2024 12:00:00 AM	
ISSUE-1077	Automation	Automation	Temperature setpoint dial is reflecting the same setpoint regardless of position : Recommend correction within the XL controller.	Open	Open	SOV-226 SGI	dmychaluk@cm3inc.com	1/29/2024 12:00:00 AM	
ISSUE-1079	Automation	Automation	setpoint dial is locked out and has no effect on zone control. : recommend unlocking and allowing for 2 Degree offset control.	Open	Open	SOV-224 SGI	dmychaluk@cm3inc.com	1/29/2024 12:00:00 AM	
ISSUE-1080	Automation	Automation	Unit not responding to thermostat dial position or override of the active setpoint. The current active setpoint is higher than both the occupied cooling and heating setpoint. : Recommend correction of configuration within the XL10 controller.	Open	Open	SOV-223 SGI	dmychaluk@cm3inc.com	1/29/2024 12:00:00 AM	
ISSUE-1081	Automation	Automation	Damper shows 53% in the BAS actual position is 20-30%. : recommend adjustment of the damper actuator on the shaft.	Open	Open	SOV-223 SGI	dmychaluk@cm3inc.com	1/29/2024 12:00:00 AM	

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ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1082	Automation	Automation	Unit has an active setpoint of 75 Deg F with a zone temperature of 70 Deg F, the damper position and reheat valve are not changing. : Recommend correction of programming or replacement of the XL10 controller.	Open	Open	SOV-223 SGI	dmychaluk@cm3inc.com	1/29/2024 12:00:00 AM	
ISSUE-1083	Automation	Automation	Thermostat thumb wheel not functional. : recommend setting to active with a 2 Deg F deadband.	Open	Open	SOV-222 Occ Therapy	dmychaluk@cm3inc.com	1/29/2024 12:00:00 AM	
ISSUE-1084	Automation	Automation	Unit has an active setpoint of 74 Deg F with a zone temperature of 70 Deg F, the damper position and reheat valve are not changing. : Recommend correction of programming or replacement of the XL10 controller.	Open	Open	SOV-222 Occ Therapy	dmychaluk@cm3inc.com	1/29/2024 12:00:00 AM	
ISSUE-1085	Automation	Automation	Active setpoint is 71 Deg F which is higher than the occupied cooling or heating setpoints. Additionally the thumbwheel dial and BAS override has no effect on the VAV active setpoint. : Recommend verification of point mapping in the BAS and troubleshooting the XL 10 controller for issues.	Open	Open	SOV-219 Small Group	dmychaluk@cm3inc.com	1/29/2024 12:00:00 AM	
ISSUE-1086	Automation	Automation	Unit 101.E is actually 101.H in the BAS, appears to have been mislabeled since the system was put in place. This will need to be considered when completing the Niagara BAS integration.	Open	Open	SOV-101.E Guide Office	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1088	Automation	Automation	Zone sensor is failed reading 57.4 Deg F, actual temp is 70.6. Discharge sensor reading 122 Deg F actual is 98.7 : Recommend replacement of both sensors or XL 10 controller if it is deemed failed.	Open	Open	SOV-101.C Exam	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1089	Mechanical	Mechanical	Nurses station has 2 diffusers and two exterior facing walls. The area is significantly colder than other areas of similar size. It appears this was an oversight by the engineer. : recommend review of the space served and adding additional diffusers for this area	Open	Open	SOV-101 Nurse	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1090	Mechanical	Mechanical	Linear diffuser is meant to be in the center of the waiting area in line with the collum Appears there is ample room to achieve this design and will assist with general office comfort conditioning outside air infiltration from the main entrance.	Open	Open	SOV-101 Admin	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1091	Automation	Automation	When thermostat dial is modulated to full cooling the heating valve however the active setpoint does not modulate. : Recommend correction when unit is integrated into niagara	Open	Open	SOV-102 Library-2	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1092	Mechanical	Mechanical	Heat wheel has poor energy transfer, OA inlet is 45.6, outlet is 51.7 with an exhaust outlet of 67 Deg F. Recommend maintenance and replacement of heatwheel pies to ensure proper energy transfer.	Open	Open	RTU-2	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1093	Automation	Automation	Cooling not engaging after modification of setpoints, appears to be an internal programming sequence holding gout cooling command. : Recommend verification of cooling during warmer period, there may be a summer/winter switch in the programming logic of the XL controller. Replacement of controller may be required	Open	Open	RTU-2	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	

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ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1094	Automation	Automation	Unit has a supply humidity setpoint but no supply humidity sensor. : Recommend installation and programming of a supply humidity sensor	Open	Open	RTU-3	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1095	Automation	Automation	Space static sensor tubing is not of high quality and is collapsing on itself. : recommend replacement of tubing to get proper OA reference.	Open	Open	RTU-3	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1096	Automation	Automation	Unit not responding to heating or cooling setpoints at the controller level. Even in automatic mode the controller is attempting to cool down to 55 Deg F supply temp however nothing is engaging inside the unit. Relay is engaging for the compressor and the AAON WSHp board shows Rly 1 lit but the compressor command does not make it through. : Recommend troubleshooting mechanical equipment	Open	Open	RTU-3	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1097	Mechanical	Mechanical	Suply fan is making a vibration while running. : recommend correction of supply fan new blower wheel or motor may be required.	Open	Open	RTU-3	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1098	Mechanical	Mechanical	Water found pooling in the electrical cabinet, valve cabinet, and exhaust s c: recommend sealing cabinets,determining source of leak and correcting.	Open	Open	RTU-4	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1099	Mechanical	Mechanical	Supply fan VFD appears to have been bypassed due to failure. : recommend replacement of the supply fan VFD.	Open	Open	RTU-4	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1100	Mechanical	Mechanical	corrosion found on refrigerant fittings. : Recommend correction of corrosion and sealing as needed.	Open	Open	RTU-4	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1101	Mechanical	Mechanical	OA filters are dirty and require replacement. : recommend replacement of the filters.	Open	Open	RTU-4	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1102	Energy	Automation	Heat wheel enable is not responding as expected when OA is enable setpoint is lowered. : Recommend correction of programming within the XL 5000 controller to proeprly enable the heat wheel.	Open	Open	RTU-4	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1103	Mechanical	Mechanical	Outside air filters are clogged and dirty. : recommend replacement of filters and increasing PM frequency	Open	Open	RTU-5	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1104	Energy	Automation	when OA heat wheel enable setpoint is lowered the heat wheel does not engage manually. Economizer mode also does not enable with modification of parameters. : recommend correction of programming logic in the XL 5000 controller.	Open	Open	RTU-5	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	

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ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1105	Automation	Automation	OA/Mixed damper shows 100% open in the BAS, actual position is closer to 10%. Damper does not modulate when tested at other positions.: Recommend replacement of the XL5000 controller or based on other unit failures integrate a new RTU via Bacnet to the BAS.	Open	Open	RTU-7	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1106	Energy	Mechanical	Curb rubber canvas is failed around the entire unit and is no longer attached. Air is actively flowing out of the curb seal: recommend replacement of curb or attempting to seal the curb.	Open	Open	RTU-7	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1107	Mechanical	Mechanical	heat wheel belt or motor making a loud noise when enabled, heat wheel appears to not have operated for a long period of time. : Recommend servicing of the heat wheel.	Open	Open	RTU-7	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1108	Mechanical	Mechanical	Coil frame is badly rusted and should be remediated or replaced. Replacement of unit may be a viable option in a 5 year plan.	Open	Open	RTU-7	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1109	Mechanical	Mechanical	Compressors appear to be mechanically disabled most likely on low pressure due to recovery tanks and tank of 410A near the unit. The compressors are not engaging on this unit and the OA damper does not open, no cooling available for this unit currently. : Recommend verification of mechanical repairs and proposing repairs as needed.	Open	Open	RTU-7	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1110	Mechanical	Mechanical	Exhaust fan belt starting to show wear, may be slightly off alignment. : recommend verification and correcting belt alignment.	Open	Open	RTU-6	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1111	Mechanical	Mechanical	Outside air filters are dirty and require replacement. : recommend replacement of filters and increasing pm frequency.	Open	Open	RTU-6	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1112	Automation	Automation	oa cfm sensor not reading correctly. ; recommend reprogramming controller to no longer use OA cfm and instead keep a minimum OA damper position	Open	Open	RTU-6	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1113	Energy	Mechanical	Curb rubber canvas is failed around the entire unit and is no longer attached. Air is actively flowing out of the curb seal: recommend replacement of curb or attempting to seal the curb.	Open	Open	RTU-8	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1114	Automation	Automation	Space pressure sensor is reading - values and is missing it's cover. Recommend replacement of sensor.	Open	Open	RTU-8	dmychaluk@cm3inc.com	1/30/2024 12:00:00 AM	
ISSUE-1115	Automation	Automation	Zone sensor is reading 79.8 in the BAS, actual is 75.5. : Recommend replacement of the flush mount sensor and relocation if possible to an area not getting direct radiant heat from the convector.	Open	Open	C-136.A Toilet	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1116	Automation	Automation	Sensor cannot be located, unit not engaging when overridden. Sounds in the off position, turned on however it remained off. : recommend replacement of the XL10 controller for this unit	Open	Open	CUH-Vestibule-CH 1-2	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	

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ID	Priority	Category	Description	Owner Status	Resp. Status	Assoc. With	Assigned To	Due	Date Closed
ISSUE-1117	Automation	Automation	Unocc setpoint has no effect on unit operation. : Recommend troubleshooting XL 10 controller	Open	Open	CUH-Stair CUH-1-9	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1118	Mechanical	Mechanical	Unit found off at the rocker switch. : Recommend keeping unit on as it conditions cold air coming from the stair tower.	Open	Open	CUH-Stair CUH-1-9	dmychaluk@cm3inc.com	1/31/2024 12:00:00 AM	
ISSUE-1171	Mechanical	Mechanical	Severe rust and corrosion found on the tower fan motor mount and assembly. Rust found on vibration isolation as well. Significant corrosion and buildup found on air louver cells which require replacement. : Tower requires replacement rust remediation and correction is not recommended due to the current state of the tower.	Open	Open	Cooling Tower	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1172	Mechanical	Mechanical	Automatic chemical feed location is subpar and requires an overhaul. Either a storage unit designed fro the purpose of chemical feed or relocation to the mechanical room needs to occur. Automatic feed has no power and chemicals are exposed to the elements resulting in dilution of the chemical. : Recommend replacement of automated chemical feed system in conjunction with a new cooling tower. Chemical feed should be moved to the mechanical room and plumbed up to the roof section.	Open	Open	Cooling Tower	dmychaluk@cm3inc.com	2/2/2024 12:00:00 AM	
ISSUE-1312	Energy	Mechanical	Curb rubber canvas is failed around the entire unit and is no longer attached. Air is actively flowing out of the curb seal: recommend replacement of curb or attempting to seal the curb.	Open	Open	RTU-6	dmychaluk@cm3inc.com	2/20/2024 12:00:00 AM	
ISSUE-1313	Automation	Automation	Zone sensor is reading 87 Deg F actual temp is 56 Degf. Local setpoint shows 621 Deg F. Multiple issues present and controller is in a very damp environment. : Recommend replacement of the Honeywell XL10 controller.	Open	Open	UH-1-1 Basement	bencohen@cm3inc.com	2/22/2024 12:00:00 AM	
ISSUE-1316	Automation	Automation	Thermostat thumb wheel broken. : recommend replacement of the thermostat	Open	Open	WSHP-132 Gifted CR	dmychaluk@cm3inc.com	3/1/2024 12:00:00 AM	
ISSUE-1317	Automation	Automation	Unit found off at the disconnect. Turned unit back online and found it to be functional. : Unit should be placed on PM schedule and serviced. The districts HVAC tech informed us that the unit should remain off due to the space not needing heating or cooling.	Open	Open	WSHP-108 Storage	dmychaluk@cm3inc.com	3/1/2024 12:00:00 AM	
ISSUE-1321	Mechanical	Mechanical	Unit off at breaker, no LOTO on the breaker, electrical fault is assumed. : Recommend correction of electrical and mechanical issues, once online add the unit to the BMS for unit control.	Open	Open	WSHP-137- SGI	bencohen@cm3inc.com	3/6/2024 12:00:00 AM	
ISSUE-1322	Mechanical	Mechanical	Unit found off at the disconnect. Unit was enabled and observed to be functional, left unit running for 1 hour with no issues. HVAC facilities reported the unit overheats and access is limited such that the unit cannot be serviced. Unit was requested to be left off. : Recommend replacement of unit with a DSS and installation of insulated ceiling tiles in the MDF closet.	Open	Open	WSHP-120 Data	dmychaluk@cm3inc.com	3/7/2024 12:00:00 AM	

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