



# **Indoor Air Quality Assessment**

**Timberlane Regional School District  
2/10/2021**

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Equipment Assessment

## Summary

The Trane Indoor Air Quality Assessment is intended to provide guidance as it relates to the operation and potential updates to your HVAC system(s) and equipment to provide for the best possible indoor air quality (IAQ) in support of infection control and prevention during the pandemic that we are currently facing.

The transmission of Covid-19 may occur in a variety of ways and circumstances, many of the aspects of which are currently not known. HVAC systems, products, services and other offerings are still in the early stages of testing to evaluate their effectiveness in reducing the spread of Covid-19, including through the air in closed environments. With that being said, we are making recommendations in this report based upon our systems knowledge and the most up to date guidance we have received.

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# Assessment Overview

The U.S. Centers of Disease Control and Prevention (CDC) and World Health Organization (WHO) both published recommendations for occupying workplaces in areas with a COVID-19 outbreak<sup>12</sup>. In addition, two leading industry trade associations, ASHRAE and REHVA, published guidance for operating building HVAC systems under these circumstances.<sup>34</sup>

	<b>ASHRAE Guideline</b>
 <p><b>DILUTE</b></p>	Proper ventilation ensures that plenty of fresh, outdoor air comes into the building to dilute the buildup of indoor contaminants. Adjusting building ventilation is one tool that can influence indoor air quality.
 <p><b>EXHAUST</b></p>	Getting exhaust air out efficiently is equally important – including recirculated air from kitchens, restrooms and combustion systems.
 <p><b>CONTAIN</b></p>	Maintaining indoor humidity levels within the ASHRAE recommended range maximizes the comfort of building occupants while avoiding the likelihood of harmful microbial growth in the building.
 <p><b>CLEAN</b></p>	Of increasing concern is the HVAC system’s ability to reduce micro-organisms, such as mold, bacteria and viruses.

<sup>1</sup> Interim Guidance for Businesses and Employers to Plan and Respond to COVID-19, CDC

<sup>2</sup> Getting your workplace ready for COVID-19, WHO, dated 3 March 2020

<sup>3</sup> ASHRAE Position Document on Infectious Aerosols, dated 14 April 2020

<sup>4</sup> REHVA COVID-19 guidance document, dated 3 April 2020



# Pollard School



# Pollard School

## PE-AHU-1 Basement

ERU Module: Renew Aire (8)20x20x2 Filter

Model: C3000

Serial: COL-5799

Exhaust Fan Module: York (1)BX-56 Belt

Model: AP80

Serial: CDKM04677D

Supply Fan Module: York (1)BX-57 Belt

Model: FSAFSAAP80 (4)20X25X2 Filter

Serial: CDKM04678D

DX Coil Module: York

Model: FSAFSAAP80

Serial: CDKMO4678D

\*\*SUPPLY FAN BEARINGS BAD

\*\*UNIT ERV ELEMENT NEEDS CLEANING

\*\*ALL MODULES INTERIOR AND ASSOCIATED BLOWER WHEELS NEED CLEANING

## PE-AHU-9 Mezzanine

ERU Module:

(A) Renew Aire

Model: C2250

Serial: C015801 (12)20x20x2

(B) Renew Aire

Model: C2250

Serial: C015802

Exhaust Fan Module: York (1)BX-52

Model: AP60

Serial: CDKM-04670D

Supply Fan Module: York (1)AX-52

Model: AP60 (4)20x20x2

Serial: CDKM-04670D

DX Coil Module: York

Model: CA0060927.25

Serial: DDKM-20026B

\*\*UNIT ERV ELEMENT NEEDS CLEANING

\*\*ALL MODULES INTERIOR AND ASSOCIATED BLOWER WHEELS NEED CLEANING

**Pollard School**

**PE-AHU-6 Office AHU/Library**

Carrier/Bryant  
Model: 48HJD008--  
53T (4)16X25X2  
Serial: 15100G40452

\*\*UNIT FUNCTION TEST OK. HEAT EXCHANGER INTACT WHERE VISABLE. UNIT SHOWING AGE, CONVENTION  
THERMOSTAT

**WING 127-128 EXH. FAN**

\*NO LONGER IN SERVICE\*  
Greenheck  
Model: GB84XQXD  
Serial: 87J03007

**PE-AHU-1 Classroom**

York  
Model: DH090C00A2AAA6A (4)16X25X2  
Serial: NOD769043 (1)A-49

\*\*UNIT FUNCTION TESTED OK

**PE-EF-1**

Greenheck (1)L318 Belt  
Model: GB90-4  
Serial: 96A19739

\*\*CHANGED BELT WHILE ON SITE TO GET FUNCTIONAL, CUSTOMER SUPPLIED

**PE-EF-2**

Greenheck (1)L318 Belt  
Model: GB-80-4  
Serial: 96A19738

\*\*CHANGED BELT WHILE ON SITE TO GET FUNCTIONAL, CUSTOMER SUPPLIED

**PE-EF-3**

Greenheck (1)L318 Belt  
Model: GB-80-4  
Serial: 96A19739

\*\*CHANGED BELT WHILE ON SITE TO GET FUNCTIONAL, CUSTOMER SUPPLIED

**Pollard School**

**PE-Z-PACK**

York (4)16X25X2  
Model: Y23CC02A1IABBH (6)20X25X2  
Serial: NOE7824358 (2)B-56  
(2)B-62 Exhaust

\*\*UNIT MISSING (1) MIST ELIMINATOR 15-1/2X25X1  
\*\*UNIT FUNCTION TESTED  
\*\*UNIT INTERIOR AND COILS NEED CLEANING

**PE-EF-4 Roof by Kitchen Exhaust Fan**

Greenheck  
Model: GB-80-4  
Serial: 96A19740

\*\*UNIT NOT FUNCTIONAL

**PE-RTU-1 GYM ROOF**

REZNOR  
Model: HRPB400-8 (2)16X20X2  
Serial: EAVA66K1N05038 (4)20X25X2  
(1)6855 Gates Belt

\*\*UNIT FUNCTION TESTED, DUE TO UNIT AGE AND CONDITION STRONGLY SUGGEST REPLACEMENT

**PE-RERU-1 CLASSROOMS 104,106,302,304,306**

DES CHAMPS  
Model: PV-W2P-WPE (4)18X24X2  
Serial: 42895 (1)AX-35

\*\*SUPPLY BLOWER BEARINGS & SHAFT NEEDED ASAP  
\*\*UNIT FUNCTION TESTED, HEAT VALVE, DAMPERS FUNCTIONAL. FULL CLEANING NEEDED

**PE-RERU-3 CLASSROOMS 107,109,307,308,309,310**

DES CHAMPS  
Model: PV-W3P-WPE (4)20X25X2  
Serial: 42897 (1)AX-42  
(1)BX-42

\*\*UNIT FUNCTION TESTED, HEAT VALVE, DAMPERS FUNCTIONAL. FULL CLEANING NEEDED

**Pollard School**

**PE-RERU-2 CLASSROOMS 103,105,301,303,305**

DES CHAMPS

Model: PV-W2P-WPE

(4)18X24X2

Serial: 42896

(1)AX-36

(1)AX-35

**\*\*UNIT FUNCTION TESTED, HEAT VALVE, DAMPERS FUNCTIONAL. FULL CLEANING NEEDED**

**AHU 4 & 5 SUSPENDED IN CAFETERIA, STAGE**

Make: Unknown (Each)

Model: N/A (Each)

Serial: N/A (Each)

**\*\*BOTH UNITS NO LONGER FUNCTIONAL AND SLATED TO BE REPLACED**

# Timberlane Performing Arts Center



# Timberlane Performing Arts Center

## PAC-AHU-ERU-1

Exhaust Fan Module: Greenheck (2)AP-68 Belt

Model: BGQ-240HP30

Serial: 01H00563

(EF-2)

ERU Module: DesChamps (3)20x24x2 Return

Model: SERIES854-SPL (3)20x24x2 Outdoor Air

serial: 43402

Supply Fan Module: Greenheck(2)AP-67 Belt

Model: BGQ-240HP30

Serial: 01H00564

(SF-2)

AHU Module: Trane (12)20x20x2 (2)B-1006

(4)20x25x2

Model: MCCA030MAM0C0B0D00A000000000AC

Serial(s): K01H11904C K01H12074C

K01H11905C K01H12075C

K01H11903C K01H12077C

K01H11906C K01H12073C

AHU Exhaust Module: Greenheck

Model: BSQ-420-30X (2)AP-103

Serial: 01H00602

(EF-1)

\*\*ERU MODULE NO ELEMENT ACCESS FOR INSPECTION WITHOUT PANEL DELAMINATION

\*\*SYSTEM MODULES NEED CLEANING

\*\*NOTED OIL DRIP ON INTERIOR SOLENOID MANUAL STEM, WHICH IS INDICATIVE OF ACTIVE LEAK

\*\*UNIT FUNCTION TEST OK. HEAT EXCHANGER INTACT WHERE VISABLE. UNIT SHOWING AGE, CONVENTIONAL THERMOSTAT



# Timberlane Regional Middle School



# Timberlane Regional Middle School

## MS-EF-3 Undefined Area Served

Penn Ventilator  
Model: DX-7B (1)4L240  
Serial: NA  
\*\*UNIT RUNNING, NEEDS BELT

## Greenheck Roof Wing Connector

Model: G60DGEX-OD  
Serial:88F04817  
\*\*DIRECT DRIVE, NOT ON AT TIME OF INSPECTION.

## Penn Ventilator (REF-1)

Model: DX-16B (1) Gates 6832 Belt  
Serial: NA  
\*\*MISSING COVER BOLT, WHEEL OFF BALANCE, PULLEYS BADLY WORN AND SHOULD BE REPLACED

## NO TAG NAMEPLATE INFO - Rear Wing Center

Model: NA  
Serial: NA  
\*\*DIRECT DRIVE, NOT ON AT TIME OF INSPECTION.

## Penn Ventilator - Front Wing Close To Upper Roof

Model: DX-9B (1) 3L220  
Serial: NA  
\*\*BELT NEEDS REPLACING, UNIT NOT ON AT TIME OF INSPECTION

## Penn Ventilator - (REF-5) Front Wing, Front Building Roof

Model: FMX10Q  
Serial: NA  
\*\*DIRECT DRIVE, NOT ON AT TIME OF INSPECTION.

## Greenheck - Kitchen

Model: CUBE-300-20-6 (2) A-43  
Serial: 107788460702  
\*\*UNIT NOT ON AT TIME OF INSPECTION

## MS-UNIT HEATER-1A

TRANE  
Model: RM46A004  
Serial: S88G51915  
\*\*NO FILTER CURRENTLY IN UNIT MEASURE (1)12-1/2x31x1 NEEDED FOR COIL  
\*\*UNIT VERY AGED SUGGEST REPLACEMENT

**Middle School**

**MS-UNIT HEATER-2 WOODSHOP (S.P.E.D. ENTRY RAMP)**

TRANE  
Model: HUVC1251BK0H2A01000J331011100  
Serial: T08F40097  
(1)15-1/4x65-1/2x1  
\*\* HEAT VALVE NOT AT TIME OF TEST  
\*\*UNIT NEEDS CLEANING, FILTER CHANGE

**MS-UNIT HEATER-1 OLD WOOD SHOP WORKSHOP (S.P.E.D CLASSROOM)**

TRANE  
Model: HUVC1251BK0H2B01002J331011100  
Serial: T08F40098  
(1)15-1/4x65-1/2x1  
\*\* HEAT VALVE NOT AT TIME OF TEST  
\*\*UNIT NEEDS CLEANING, FILTER CHANGE

**MS-UNIT HEATER-1A**

**MS-UNIT HEATER**

**MS-UNIT HEATER**

**MS-UNIT HEATER-3A**

**MS-UNIT HEATER-4**

**MS-UNIT HEATER-4A**

\*\*UNITS NO LONGER IN SERVICE AND NEED NOT BE CHECKED PER SCHOOL PERSONNEL

**MS-AHU-CAFÉ**

CARRIER  
Model: 50-TJ-D24ABA6A0A0A0 (1)BX-46  
Serial: 1613P1S199 (6)20x25x2  
\*\*UNIT OPERATION TESTED, DAMPER, HEAT, INDUCER FAN  
\*\*UNIT NEEDS CLEANING

**MS-AHU-1**

CARRIER  
Model: 50AJ-040-E-611FF (2)5VX550 Belt  
Serial: 1606U06914 (10)20x24x4  
\*\*UNIT OPERATION TESTED, CRANKCASE HEATERS 1A & 1B FAILED, BELTS NEED REPLACEMENT, ECONOMISER D  
ACTUATOR TESTED, FOUND OPERATIONAL, BLADE GEARING STRIPPED.

**MS-AC-1 MAIN OFFICE**

YORK  
Model: DH090C00P4AAA1A (1)6857 GATES  
Serial: NMJM140343 (4)20x25x2  
\*\*UNIT OPERATION TESTED, FOUND WORN BEARINGS ON INDOOR BLOWER, NEED REPLACING.

**Middle School**  
**MS-AHU-2**

CARRIER

Model: 50AJ-AJ-040E-611FF (2)5VX550 Belt

Serial: 1006U06909 (10)20x24x2

\*\*UNIT OPERATION TESTED, FOUND CIRCUIT 1 COMPRESSOR 1 -2 CRANKCASE HEATERS NOT WORKING, BELTS NEED REPLACEMENT AND IS NOISY ON START UP.

**MS-MAU-3 MUSIC AREA**

CARRIER

Model: 48TME007---601-- (1)A40 Belt

Serial: 2407G20369 (2) 16x25x2

\*\*UNIT OPERATION TESTED, FOUND BELT NEEDS REPLACING. HEAT EXCHANGER FOUND FAILED NEEDS REPLACEMENT. LOCKED TAGGED UNIT FOR SAFETY. CUSTOMER MAY CHANGE. ECONOMIZER MODULE ALSO FOUND FAILED. DX COOLING NOT CHECKED AT THIS TIME, LOW AMBIENT

**MS-MAU-1 MUSIC AREA**

CARRIER

Model: 48TME005-A-601-- (1)A36 Belt

Serial: 2507640261 (2)16x25x2

\*\*UNIT OPERATION TESTED, FOUND ECONOMISER MODULE AND MOTOR FAILED. HEAT EXCHANGER FOUND FAILED, NEEDS REPLACEMENT. LOCKED TAGGED UNIT FOR SAFETY. CUSTOMER MAY CHANGE. MULTIPLE OTHER COMPONENTS FOUND FAILED AS WELL.

**MS-AHU-ERU-9 MEZZANINE**

YORK

Model: AP80 (12)20x20x2

Serial: CMJM02080D (4)20x25x2

SF-1 (1)BX56

EF-1 (1)AX54

\*\*ENERGY RECOVERY MODULE VERY DIRTY AND NEEDS COMPLETE CLEANING. ALL OTHER UNIT FUNCTIONS TESTED AND FOUND OPERATIONAL

**MS-HV-2 SERVES 1500 WING**

CARRIER

Model: 50TJ-020-6810A (4)20x20x2

Serial: 2707U79897 (4)18x20x2

(1)BX50

\*\*UNIT FUNCTION CHECKED, FOUND DAMPERS VERY LOOSE AND NOT OPERATING CORRECTLY. FOUND WORN ACTUATOR COG AS WELL AND NEEDS REPLACEMENT.

**Middle School**

**MS-HV-1 SERVES 8TH GRADE SCIENCE**

CARRIER

Model: 50TJ-020-6810A (4)20x20x2

Serial: 2707U19996 (4)16x20x2

(1)BX50

\*\*UNIT FUNCTION CHECKED, FOUND BELT NEEDS REPLACEMENT.

OUTDOOR DAMPERS BIND AND DO NOT OPEN AS DESIGNED.

**MS-RTU-2 GYMNASIUM**

CARRIER

Model: 48TCFD16A3A6A0A0GO (6)20x25x2

Serial: 2820P17884 (1)BX46

\*\*UNIT NEW\*\*

**MS-RTU-1 GYMNASIUM**

CARRIER

Model: 48TCED24A2A6A6F0G0 (6)18x24x2

Serial: 0420P05573 (1)BX67

\*\*UNIT NEW\*\*

**MS-BCU-1 FACULTY LOUNGE**

**MS-BCU-2 LOCKER ROOM**

\*\*UNITS NO LONGER IN SERVICE AND NEED NOT BE CHECKED PER SCHOOL PERSONNEL

Model: 50TJ-020-6810A (4)20x20x2

Serial: 2707U79897 (4)18x20x2

(1)BX50

\*\*UNIT FUNCTION CHECKED, FOUND DAMPERS VERY LOOSE AND NOT OPERATING CORRECTLY.

FOUND WORN ACTUATOR COG AS WELL AND NEEDS REPLACEMENT

# Timberlane Regional High School



# Timberlane Regional High School

## HS-AHU-3

### AHU Module: YORK

Model: CP125FC7.50280 (2)B60  
Serial: ADKM009721 (4)18x24x2  
Job: 011039270101A  
Tag: AHU-1-3REV

\*\*UNABLE TO VERIFY FACE/BYPASS DAMPER OPERATION  
\*\*CABINET INSULATION IN PIPING DOG HOUSE SEPARATING FROM PANELS

### Condenser Module: YORK

Model: HB240C00A2AAA1B  
Serial: NHMM090383

## HS-EF-13

Penn Ventilator  
Model: DX11B (1)L423  
Serial: NA

\*\*BELT NEEDS CHANGING, OUTER HOUSING DAMAGED CONNECTED ONLY WITH TEX SCREW

## HS-EF-KITCHEN

CAPTIVE AIR SYSTEMS  
Model: NCA36HPFA (2)BX38  
Job: 362499 8/10/05

\*\*NEEDS BELTS REPLACED, NOT RUNNING AT TIME OF INSPECTION

## HS-EF-16

Penn Ventilator  
Model: DX24B (1)A34

\*\*BELT NEEDS CHANGING, NOT RUNNING AT TIME OF INSPECTION  
\*\*OUTTER HOUSING MISSING (1) STUD AND MISSING (1) NUT

## HS-EF UPPER ROOF NEAR WOODSHOP (EF-2)

GREENHECK  
Model: CUBE-121-4-X (1)AP20  
Serial: 14332830808

\*\*BELT NEEDS CHANGING, NOT RUNNING AT TIME OF INSPECTION

**High School**

**HS-EF UPPER ROOF NEAR BOILER CHIMNEY (EF-1)**

GREENHECK

Model: CUBE-121-4-X (1)6721 GATES

Serial: 114332820808

\*\*BELT NEEDS CHANGING, NOT RUNNING AT TIME OF INSPECTION

**HS-EF UPPER ROOF NEAR WOODSHOP (EF-3)**

GREENHECK

Model: CUBE-121-4-X (1)3L200

Serial: 114332840808

\*\*UNIT NOT ON AT TIME OF INSPECTION

**HS-EF UPPER ROOF NEAR WOODSHOP (EF-4)**

GREENHECK

Model: CUBE-121-4-X (1)3L200

Serial: 114332860808

\*\*UNIT NOT ON AT TIME OF INSPECTION

**HS-RERU-14 300 WING**

DES CHAMPS (2)18x24x2 Outdoor Air

Model:PV-W2P-WPH (2)18x24x2 Return Air

Serial: 41802 (1)AX33 Exhaust

(1)AX33 Supply

\*\*ALL DAMPERS MANUIPULATE ON POWER DOWN OF UNIT. HEAT EXCHANGE ELEMENT VERY DIRTY APPEARS BEYOND USEFUL LIFE. EVIDENCE OF MULTIPLE ROOF LEAKS NOTED IN SUPPLY FAN CABINET. REMAINING COILS IN UNIT NEED CLEANING NOTED THAT CONDENSER FINS ARE DETERIORATING IN SPOTS. EXPOSED WIRING ON CONTROL SIDE OF CONDENSER IS BRITTLE AND SHOWING AGE. CONSIDERATION SHOULD BE MADE TO UNIT UPGRADE

**HS-RTU NEAR WOODSHOP (RTU-2)**

TRANE

Model: THC063A3R0A17E080A1020600B (1)A26

Serial: 826100770L (2)20x30x2

\*\*FOUND MISSING ECONOMISER BLANK OFF PLATE BELOW HOOD, LEAVES CABINET OPEN TO ENVIORNMENT MIST ELIMINATOR, UNIT CABINET, COILS NEED CLEANING

**HS-RTU NEAR WOODSHOP (RTU-1)**

TRANE

Model: THC063A3R0A17E080A1020600 (1)6828 GATES

Serial:825100772L (2)20x30x2

\*\*FOUND MISSING ECONOMISER BLANK OFF PLATE INSIDE FILTER CABINET. CURRENTLY CABINET IS OPEN TO ENVIRONMENT. MIST ELIMINATOR, UNIT CABINET, COILS NEED CLEANING

**High School**

**HS-RTU NEAR WOODSHOP, STREET SIDE (RTU-1)**

TRANE

Model: THC060E3R0A0TG200000000010 (1)A29

Serial: 102711610L (4)16x25x2

\*\*FOUND NORMAL WEAR OF UNIT. MIST ELIMINATOR NEEDS CLEANING

**HS-RERU-15 300 WING**

DES CHAMPS

Model: PVMZ3070 (1)AX48 Supply

Serial: 41810 (1)BX38 Exhaust

(2)20x20x2 Outdoor Air

(2)16x20x2 ALUM. WASHABLE

\*\*UNIT IS IN EXTREMELY POOR CONDITION. ENTIRE CABINET, HEAT EXCHANGE ELEMENT, FAN, HOUSING, MOTOR PLUGGED WITH SAWDUST. UNIT NEEDS REPLACEMENT

NEW BELTS NEEDED.

**HS-EF ABOVE GYM ADDITION**

PENN VENTILATOR

Model: NA

\*\*UNIT IS DIRECT DRIVE AND FUNCTIONING WELL

**HS-EF-19 NEXT TO GYM UPPER ROOF**

PENN VENTILATOR

Model: DX-11B (1)6823 Gates

\*\*FOUND BELT TOO BIG FOR APPLICATION. NEEDS TO BE RESIZED AND REPLACED

**HS-EF-20 MID ROOF NEXT TO GYM - FIELD SIDE**

PENN VENTILATOR

Model:DX-08B (1)5720 POWERBAND

\*\*FOUND ORIGINAL BELT BROKEN. CUSTOMER SUPPLIED REPLACEMENT. HAD TO RESIZE TO ABOVE LISTED IN ORDER TO GET SHROUD INSTALLED. UNIT RUNNING

**HS-EF-21 MID ROOF NEXT TO GYM - FIELD SIDE**

PENN VENTILATOR

Model: DX-14B (1)L424 POWERBAND

\*\*FOUND MOTOR, SHIVE NEED REPLACEING. BEARINGS OF MOTOR FAILED. CUSTOMER WORKING ON REPLACING. UNIT NOT OPERATIONAL

\*\*MOTOR: WEG

\*\*SHIVE: 3-3/4 O.D

FRAME:C48

RPM 1730

H.P 1/2

115/208-230

**High School**

**HS-EF-22 NEXT TO GYM CLOSEST TO FIELD**

PENN VENTILATOR

Model:DX-11B

(1)3L240

\*\*BELT NEEDS ADJUSTMENT. SHROUD TORN AT ATTACHMENT STUD. UNIT RUNNING

**HS-EF LOW ROOF, FIELD SIDE**

PENN VENTILATOR

Model: N/A

(1)3L220

\*\*BELT NEEDS REPLACEMENT. UNIT NOT RUNNING AT TIME OF INSPECTION

**HS-MAU-4**

CARRIER

Model: 48TCED08A2A5A0A0A0

(1)AX52

Serial: 0517P32709

(4)16x20x2

\*\*HEAT EXCHANGER VISUALLY OK, BLOWER OK, ADJUSTED BELT TENSION. DAMPER CONTROLLED THROUGH BAS. MIST ELIMINATORS NEED CLEANING.

**HS-EF-18**

PENN VENTILATOR

Model: DX-16B

(1)6829 POWERBAND

\*\*BELT OVERSIZED FOR APPLICATION, NEEDS RESIZE AND REPLACEMENT. MOTOR RUNNING BUT BEARINGS FAILING, CUSTOMER WILL ADDRESS. UNIT RUNNING AT THIS TIME.

**HS-MAU-3**

CARRIER

Model: 48TCED08A2A5A0A0A0

(1)AX52

Serial: 0117P43798

(4)16x20x2

\*\*HEAT EXCHANGER VISUALLY OK, BLOWER OK, ADJUSTED BELT TENSION. DAMPER CONTROLLED THROUGH BAS. MIST ELIMINATORS NEED CLEANING.

**HS-MAU-1**

CARRIER

Model: 48TCED08A2A5A0A0A0

(1)AX52

Serial: 0117P43799

(4)16x20x2

\*\*HEAT EXCHANGER VISUALLY OK, BLOWER OK, ADJUSTED BELT TENSION. DAMPER CONTROLLED THROUGH BAS. MIST ELIMINATORS NEED CLEANING.

**High School**

**HS-MAU-2**

CARRIER

Model: 48TCED08A2A5A0A0A0 (1)AX52  
Serial: 0417P31232 (4)16x20x2

\*\*HEAT EXCHANGER VISUALLY OK, BLOWER OK, ADJUSTED BELT TENSION. DAMPER CONTROLLED THROUGH BAS. MIST ELIMINATORS NEED CLEANING.

**HS-EF-17**

PENN VENTILATOR

Model: BX-16B (1)L429

\*\*BELT OVERSIZED FOR APPLICATION, NEEDS RESIZE AND REPLACEMENT FROM LISTED SIZE. UNIT OFF AT TIME OF INSPECTION

**HS-AHU-2 MEZZANINE**

Exhaust Module: YORK

Model:AP80 (1)AX51  
Serial:CKJM00825D

Supply Module: YORK

Model:AP80 (1)B60  
Serial:CKJM00825D (4)20x20x2

\*\*MISSING FILTER END SPACERS, LOCATED ON SITE AND INSTALLED.

\*\*BEARINGS ON MOTOR AND FAN NOISY, NEED GREASE

ERU Module: (A) LOSSNAY

Model:C-2250 (6)20x20x2  
Serial:G004064

(B) LOSSNAY

Model:C-2250 (6)20x20x2  
Serial:G004063

\*\*HEAT EXCHANGER CORES DIRTY, NEED TO BE CLEANED / REPLACED

Coil Module A: YORK

Model:CA0062827.25X040G10CC020S035X009L  
Serial:DKJM10528B

Coil Module B: YORK

Model:AP80  
Serial:CKJM00647D

\*\*NO ACCESS THROUGH DUCT FOR COIL FACE INSPECTION / CLEANING

**High School**

**HS-AHU-1 MEZZANINE**

**Supply Module: YORK**

Model:AP60 (1)B56  
Serial:CKJM00779D (2)20x20x2  
(2)16x20x2

\*\*DAMAGED FAN SHROUD FROM FAN CONTACT

**Exhaust Module: YORK**

Model:AP60 (1)AX51  
Serial:CKJM00779D

**ERU Module:"A" LOSSNAY**

Model:C2250 (6)20x20x2  
Serial:G004066

**"B" LOSSNAY**

Model:C2250 (6)20x20x2  
Serial:G004065

**Coil Module: YORK**

Model:AP60 DP-HC-SA-MC  
Serial: CKJM00648D

\*\*UNIT CABINETS NEED CLEANING, ERU EXCHANGER CORES NEED CLEANING / REPLACEMENT

**RERU-1**

DES CHAMPS 4-18X24X2 FILTERS  
M/N: PV-W2P-WPH SF=1- AX33  
S/N: 41614 EF=1- A33

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**RERU-3**

DES CHAMPS 4-18X24X2 FILTERS  
M/N: PV-W2P-WPH SF=1- AX33  
S/N: 41799 EF=1- AX33

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**RERU-4**

DES CHAMPS  
M/N: PV-W3P-WPH 4-20X25X2 FILTERS  
S/N: 41615 SF=1- GATES 9447  
EF=1- BX42

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**High School**

**RERU-7**

DES CHAMPS

M/N: PV-W3P-WPH

S/N: 41804

4-20X25X2 FILTERS

SF=1- A42

EF=1- AX38

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*EXHAUST FAN SHAFT BEARINGS ARE FAILED AND NEED TO BE REPLACED\*

**RERU-11**

DES CHAMPS

M/N: PV-W3P-WPH

S/N: 41808

4-20X25X2 FILTERS

SF=1- BX42

EF=1- BX40

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**RERU-8**

DES CHAMPS

M/N: PV-W3P-WPH

S/N: 41805

4-20X25X2 FILTERS

SF=1- AX42

EF=1- A36

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**RERU-10**

DES CHAMPS

M/N: PV-W3P-WPH

S/N: 41806

4-20X25X2 FILTERS

SF=1- BX42

EF=1- AX36

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**High School**

**RERU-5**

DES CHAMPS

M/N: PV-W3P-WPH

S/N: 41803

4-20X25X2 FILTERS

SF=1- AX40

EF=1- AX42

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**RERU-6**

DES CHAMPS

M/N: PV-W2P-WPH

S/N: 41800

4-18X24X2 FILTERS

SF=1- AX33

EF=1- AX33

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**RERU-2**

DES CHAMPS

M/N: PV-W2P-WPH

S/N: 41801

4-18X24X2 FILTERS

SF=1- A35

EF=1- AX34

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**RERU-9**

DES CHAMPS

M/N: PV-W3P-WPH

S/N: 41807

4-20X25X2 FILTERS

SF=1- AX42

EF=1- AX42

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**High School**

**AC-2**

YORK

M/N: D1EE060A25BDC

S/N: NCKM022884

1-20X30X1 FILTER

1-14X30X1 FILTER

SF=1- AX36

\*ALL BELTS ARE SEVERELY WORN\*

\*COOLING ONLY UNIT\*

**AC-1**

YORK

M/N: DH090COOP2AAA1A

S/N: NCKM023599

4-20X25X2 FILTERS

SF=1- AX55

\*ALL BELTS ARE SEVERELY WORN\*

\*COOLING ONLY UNIT\*

**RERU-13**

DES CHAMPS

M/N: PV-W3P-WPH

S/N: 41809

4-20X25X2 FILTERS

SF=1- BX42

EF=1- AX40

\*ALL BELTS ARE SEVERELY WORN\*

\*BYPASS DAMPER DID NOT MOVE WHEN UNIT POWERED DOWN\*

\*ALL HEAT EXCHANGER ELEMENTS NEED TO BE REPLACED\*

**EF-1A**

PENN VENTILATION

1- 6823 POWERATED BELT

M/N:DX06B

\*BELT WORN AND NEEDS TO BE

REPLACED\*

**EF-2A**

PENN VENTILATION

1- 3L220

M/N:DX068

\*BELT WORN AND NEEDS TO BE

REPLACED\*

**EF-2B**

PENN VENTILATION

1-3L220

M/N:DX06B

\*BELT BROKEN\*

\*LEFT POWER OFF\*

**High School**

**EF-5** GREENHECK  
M/N:BG-8-4X-QD  
S/N: 88A04937  
1- POWERATED 6719 BELT

\*BELT WORN AND NEEDS TO BE  
REPLACED\*  
\*UNIT NOT RUNNING\*

**EF-2C** PENN VENTILATION  
M/N:DX08B 1- 3L220

**EF-13A** PENN VENTILATION  
1- 3L220  
\*BELT SEVERELY WORN\* M/N:DX06B  
\*MOTOR STUCK AND HOT TO THE TOUCH\*  
\*MOTOR NEEDS TO BE REPLACED\*  
\*LEFT POWER OFF TO UNIT\*

**EF-13B** PENN VENTILATION  
1-3L220  
M/N:DX06B  
\*BELT SEVERELY WORN\*

**EF-12A** PENN VENTILATION  
1-3L220  
M/N:DX06B  
\*BELT SEVERELY WORN\*

**EF-REF-1** GREENHECK  
1-3L220  
M/N:CUBE-14  
S/N: 85H06814  
\*BELT SEVERELY WORN\*  
\*UNIT NOT RUNNING\*

**EF-7B** PENN VENTILATION  
1-3L220  
M/N:DX06B  
\*BELT SEVERELY WORN\*

**High School**

**EF-REF-3** GREENHECK  
1-3L220  
M/N:CUBE-14  
S/N: 85H06816  
  
\*BELT SEVERELY WORN\*  
\*UNIT NOT RUNNING\*

**EF-REF-2** GREENHECK  
1-3L220  
M/N:CUBE-14  
S/N: 85H06815  
  
\*BELT SEVERELY WORN\*  
\*UNIT NOT RUNNING\*

**EF-REF-6** GREENHECK  
1-3L220  
M/N:CUBE-14  
S/N:85H06819  
  
\*BELT SEVERELY WORN\*  
\*UNIT NOT RUNNING\*

**EF-REF-5** GREENHECK  
1-3L220  
M/N:CUBE-14  
S/N:85H06818  
  
\*BELT SEVERELY WORN\*  
\*UNIT NOT RUNNING\*

**EF REF-4** GREENHECK  
1-3L220  
M/N:CUBE-14  
S/N: 85H06817  
  
\*BELT SEVERELY WORN\*  
\*UNIT NOT RUNNING\*

**EF-7A** PENN VENTILATION  
1- 3L220  
M/N:DX08B  
  
\*BELT SEVERELY WORN\*  
\*MOTOR IS SEIZED AND NEEDS TO BE REPLACED\*

## High School

**EF-4** PENN VENTILATION  
1-3L220  
M/N:DX08B  
\*BELT SEVERELY WORN\*

**EF- NO UNIT TAG/ DIRECT DRIVE**  
M/N: G-90-DGEX-OD  
S/N: 85E03637  
GREENHECK  
\*UNIT NOT RUNNING\*



# Sandown North Elementary School



# Sandown North Elementary School

## SN-AHU-6

Coil Module:  
YORK

Model: AP105  
Serial: CLJM01015D  
\*\*CABINET NEEDS CLEANING

ERU Module:(A)  
LOSSNAY

Model:C3000 (8)20x20x2  
Serial:G004080

(B) LOSSNAY  
Model:C3000 (8)20x20x2  
Serial:G004081

\*\*BOTH MODULES EXCHANGE CORES NEED CLEANING/REPLACEMENT

Exhaust Fan Module: YORK

Model: AP105 (1)BX-50  
Serial:CLJM01010D

\*\*VYNL DUCT TRANSITION TORN AT FAN SHROUD DISCHARGE

Supply Fan  
Module: YORK

Model: AP105 (1)BX-60  
Serial: CLJM01010D (6)20x20x2

\*\*HEAT COIL 3-WAY VALVES LEAKING AT STEMS, MAINTENANCE WILL BE ADDRESSING

## SN-AHU-3

Coil Module:  
YORK

Model: AP60  
Serial:CLJM01034D  
\*\*NO CURRENT ACCESS CUT FOR COIL FACE CLEANING, CABINET NEEDS CLEANING

ERU Module:  
LOSSNAY

Model:C2260 (4)20x20x2  
Serial:H004143

\*\*UNIT NAMEPLATE MOUNTED ON TRUSS SIDE, NO ACCESS

\*\*EXCHANGE CORES NEED CLEANING/REPLACEMENT

\*\*DOOR NEEDS TO BE REMOVED FOR CORE REMOVAL

Exhaust Fan Module: YORK

Model:AP60 (1)AX46  
Serial:CLJM01032D

**Sandown North**

Supply Fan  
Module: YORK

Model:AP60 (1)BX52  
Serial:CLJM01032D (4)16x20x2  
\*\*NEEDS NEW BELT, FAN BEARINGS NOISY

**SN-AHU-5**

Exhaust  
Module: YORK

Model:AP80 (1)AX55  
Serial:CLJM011091D  
\*\*CABINET NEEDS CLEANING  
\*\*MIX / O.A DAMPER DOES NOT CLOSE OFF OUTSIDE AIR WHEN UNIT IS SHUT  
DOWN

Supply Module:  
YORK

Model:AP80 (1)BX57  
Serial: CLJM01030D (6)16x20x2  
\*\*CABINET NEEDS CLEANING  
\*\*BELT NEEDS REPLACING AND TENSION ADAJUSTED

Coil Module:  
YORK

Model:AP80  
Serial: CLJM01030D  
\*\*COULD NOT VERIFY FACE / BY-PASS DAMPER OPERATING CORRECTLY.  
CURRENTLY OPEN TO HEAT COIL

**SN-EF-5D**

GREENHECK  
Model:CUE95-D  
Serial: 00J21197  
  
\*\*DIRECT DRIVE FAN, UNIT OPERATING WELL

**SN-EF-5A**

GREENHECK  
Model:CUBE-140-7-C (1)4L240  
Serial:00J21574  
  
\*\*UNIT NOT IN OPEARTION AT TIME OF INSPECTION

**SN-EF-5B**

GREENHECK  
Model:CUBE-140-7-G (1)4L240  
Serial:00J21573  
  
\*\*UNIT NOT IN OPERATION AT TIME OF INSPECTION

**Sandown North**

**SN-CUH-ENTRY**

MESTEK  
Model: W1-1100-02 (1)9x19-1/2x1/2 WASHABLE  
Serial: 10/12/00

\*\*FILTER PLUGGED UNIT OPERATIONAL, CABINET AND COIL NEED CLEANING

**SN-CUH-"A"WING DOOR 2**

MESTEK  
Model: W1-1100-02 (1)9x19-1/2x1/2 WASHABLE  
Serial: 10/12/00

\*\*FILTER PLUGGED UNIT OPERATIONAL, CABINET AND COIL NEED CLEANING

**SN-CUH-GUIDANCE / NURSE**

MESTEK  
Model: W1-1100-02 (1)9x19-1/2x1/2 WASHABLE  
Serial: 10/12/00

\*\*FILTER PLUGGED UNIT OPERATIONAL, CABINET AND COIL NEED CLEANING

**SN-CUH-  
CAFETERIA**

MESTEK  
Model: W1-1100-02 (1)9x19-1/2x1/2 WASHABLE  
Serial: 10/12/00

**SN-CUH-"C"WING ENTRANCE**

MESTEK  
Model: W1-1100-02 (1)9x19-1/2x1/2 WASHABLE  
Serial: 10/12/00

**SN-CUH-"B"WING ENTRANCE**

MESTEK  
Model: W1-1100 (1)9x19-1/2x1/2 WASHABLE  
Serial: 10/12/00

**Sandown North**

**SN-AHU-1**

Exhaust

Module: YORK

Model:AP60 (1)AX51

Serial:CKJM00779D

Supply Module:

YORK

Model:AP60 (1)B56

Serial:CKJM00779D (2)20x20x2

(2)16x20x2

\*\*FAN WAS RUBBING, SHROUD SEPARATED

ERU Module:(A) LOSSNAY

Model:C-2250 (6)20x20x2

Serial:G004066

(B) LOSSNAY

Model:C-2250 (6)20x20x2

Serial:G004065

Coil Module:

YORK

Model:AP60

Serial:CKJM00648D

\*\*CABINETS NEED CLEANING

**SN-AHU-2**

Exhaust

Module: YORK

Model:AP105FE (1)B56

Serial:CLJM01016D

\*\*FOUND BELT OFF PULLEYS, RE-INSTALLED, RESET LOW TEMP SAFETY

Supply Module:

YORK

Model:AP105FE (2)BX55

Serial:CLJM01016D (6)20x20x2

ERU Module: (A) LOSSNAY

Model:C-3000 (8)20x20x2

Serial:G-0040788

(B) LOSSNAY

Model:C-3000 (8)20x20x2

Serial:G-0040798

\*\*CABINETS NEED CLEANING

**SN-AHU-**

Supply Module:

YORK

Model:AP60 (1)AX50

Serial:CLJM01088D

Exhaust

Module: YORK

Model:AP60 (1)BX52

**Sandown North**

Serial:CLJM01087D

(4)16x20x2

\*\*CABINETS NEED CLEANING

**SN-AHU-4**

YORK

Model:AP105

(1)AX56

Serial:CLJM01094D

(1)BX56

(6)20x20x2

\*\*UNIT FUNCTION TESTED, CABINETS NEED CLEANING



# Danville Elementary School



# Danville Elementary School

## DE-RTU

YORK  
Model:DH090C00A2AAA6A (1)A49  
Serial:N007690404 (4)16x25x2

\*\*ROOFTOP DUCTWORK NEEDS SUPPORTS REPAIRED. EVAPORATOR NEEDS CLEANING.

## DE-EF

PENN VENTILATOR  
Model: --2XB

\*\*NO BELT PRESENT, WHEEL BEARINGS NEED REPLACING

## DE-EF-NEXT TO CAFETERIA

GREENHECK  
Model:G-85 DCEXQD  
Serial:85J00068

\*\*DIRECT DRIVE

## DE-EF-KITCHEN (KEF-1)

GREENHECK  
Model:CUBE-200-10 (1)AP25  
Serial:118152070907

\*\*NEW BELT NEEDED

## DE-MUA-KITCHEN

CAPTIVE AIRE  
Model:A2-L350-G15 (1)AX47  
Job:954139 06-23-09 (3)20x20x2 WASHABLE ALUM. EXTERIOR

\*INTERNAL FURNACE

MODINE

Model:NFG350TFRNS14A1

Serial:1032609-2824

Input:350,000

\*\*UNIT NEEDS BELT ADJUSTMENT, WILL NOT MAKE AIRFLOW SWITCH WITH LOOSE BELT

## DE-AHU-2-HIGH ROOF

YORK  
Model:CP24FC553208 (1)AP49 EXHAUST  
Serial:AGJM008286 (1)AX49 SUPPLY  
Job:001038090101A (4)24x24x2

\*CONDENSER\*

YORK

Model:YC090C00A2ALA4

Serial:1H6641394

\*\*AIR HANDLER NEEDS FULL CLEANING

**Danville**

**DE-EF-ABOVE MAIN ENTRANCE**

PENN VENTILATOR  
Model:FX10SR

\*\*DIRECT DRIVE, MOTOR SEIZED NEEDS REPLACEMENT FOR OPERATION

**DE-EF-SIDE GYM LOW ROOF**

PENN VENTILATOR  
Model:FX10SR

\*\*DIRECT DRIVE, MOTOR BURNT, NEEDS REPLACEMENT FOR OPERATION

**DE-AHU-7-GYM**

Exhaust Module:YORK

Model:AP120 (1)A64

Serial:CGJM05779D

\*\*VYNL BOOT TORN AT SHROUD OF FAN ASSEMBLY, CABINET DIRTY NEEDS CLEANING,  
BELT REPLACED

Supply Module:YORK

Model:AP120 (1)AP67

Serial:CGJM05779D (4)20x20x2

(2)20x24x2 ((WITHOUT SPACERS, IF SPACERS USED  
TOTAL (6)20x20x2))

\*\*NEEDS NEW BELT, VYNL BOOT NO LONGER ATTACHED FROM SHROUD TO CABINET AND  
NEEDS REWORK

HW Coil Module:YORK

Model:BA0061230-00X057G02H80165032WH022

Serial:DFJM29010B

Job:00-103-809-09

Unit Tag:906-01520-400

\*\*COIL NEEDS TO BE CLEANED

\*\*FOUND UNIT OFF BY HAND-OFF-AUTO SWITCHES, AFTER TESTING RETURNED SWITCHES  
TO OFF POSITION

**DE-CUH-CEILING NEXT TO ROOM 101**

TRANE (1)15x41-1/2x1

Model:TUVA007HH5CS2BG14GSP

Serial:S87M89479

\*\*UNIT NEEDS FULL CLEANING, FILTER PLUGGED

**AHU-6**

YORK

M/N:FS-FM

S/N: CFJM05571D

4-16X16X2

SF=1-AX46

\*NEEDS BELTS AND FILTERS REPLACED\*

\*UNIT NEEDS CLEANING\*



# Atkinson Academy



# Atkinson Academy

## RERU-4

DesChamps

Model: PVW2PWPE

(2)18x24x2 Outdoor Air

Serial: 42356

(2)18x24x2 Return Air

(1)AX33 Exhaust

(1)AX33 Supply

\*\*UNIT NOT CURRENTLY RUNNING, CONTROL TRANSFORMER BREAKER TRIPPED AND NEEDS FURTHER TROUBLESHOOTING

\*\*NEEDS NEW BELTS AND FILTERS, CABINET CLEANED. UNIT SHOWING AGE AND DETERIORATION, HEAT EXCHANGE ELEMENT

REQUIRES CLEANING/REPLACEMENT. EXPOSED WIRES IN CONDENSER SECTION BRITTLE AND NEED REWORK.

## EF - BACK ROOF

GREENHECK

Model: GB-8-4X-QD

Serial: 88A04945

\*\*UNIT APPEARS ABANNONED, HAS NOT RUN IN LONG TIME

## RTU ERV - ERVB - 1420

MICROMETAL

Model: ERVB-1420

(2)20x25x2

Serial: D23HC0

(2)15x20x1 WASHABLE O.A

(1)BX48 Exhaust

(1)BX49 Supply

(1) O.E.M WHEEL BELT: SLICONE ( SUGGEST LINKBELT )

\*\*OUOTDOOR DAMPERS WONT CLOSE FULLY. UNIT OPERATIONAL. NEEDS BELTS REPLACED, CABINET WASHED

## EF - BACK ROOF

GREENHECK

Model: GB-8-4X-QD

Serial: 88B00887

\*\*UNIT NO LONGER IN USE, DISCONNECT SWITCH REMOVED AND WIRES BARE

## EF-6 REAR ROOF

GREENHECK

Model: QUE-100-C

Serial: 01C28298

\*\*UNIT IS DIRECT DRIVE AND RUNNING AS DESIGNED

## EF - REAR ROOF

GREENHECK

Model: CE9DGE

Serial: 610425

\*\*UNIT ABANNONDED, DIRECT DRIVE

**Atkinson**

**RERU-3**

Des Champs

Model: PV-W2P-WPE

(2)18x24x2 Outdoor Air

Serial: 42355

(2)18x24x2 Return Air

(1)AX33 Exhaust

(1)AX33 Supply

\*\*UNIT NEEDS NEW BELTS / FILTERS AND CABINET CLEANED. CONDENSER WIRING NEEDS REWORK, OXYDIZED AND BRITTLE

\*\*O.A DAMPER BLADE GASKETS NEED REPLACEMENT

**RAHU-1 - UPPER ROOF AHU**

YORK

Model: CP85FC50208

(4)24x24x2

Serial: ACKM009587

(1)AX50

\*\*UNIT CABINET NEEDS CLEANING, NEW BELT. RETURN / O.A DAMPER ACTUATOR NEEDS FURTHER TROUBLESHOOTING

**EF - LOW ROOF BETWEEN ERU DUCTWORK**

GREENGECK

Model: CBE14-4

Serial: 610454

\*\*UNIT DIRECT DRIVE, APPEARS NO LONGER IN USE

**ATTIC ERV**

LIFEBREATH

Model: 1200DD

(2) O.E.M WASHABLE ELEMENT

Serial: MBAF0220070489

\*\*UNIT FILTERS PLUGGED, NEED WASHING. CABINET, EXCHANGE MEDIUM AND BLOWER WHEELS CLEANED.

**ATTIC AHU-2**

CARRIER

Model: FX4CNF048000AAAA

(1)18x18x1 Duct Mount

Serial: 1307A88224

\*\*UNIT CABINET AND COIL NEED CLEANING, NOT EXCESSIVELY DIRTY

**ATTIC AHU-1**

CARRIER

Model: FX4CNF048000AAAA

(1)18x18x1 Duct Mount

Serial: 1707A2495

\*\*UNIT CABINET AND COIL NEED CLEANING, NOT EXCESSIVELY DIRTY

**Atkinson**

**RERU-1**

Des Champs

Model: PV-W2P-WPE

Serial: 42354

(2)18x24x2 Outdoor Air

(2)18x24x2 Return Air

(1)AX33 Exhaust

(1)AX33 Supply

\*\*UNIT NEEDS NEW BELTS / FILTERS AND CABINET CLEANED. CONDENSER WIRING NEEDS REWORK, OXYDIZED AND BRITTLE

\*\*O.A DAMPER BLADE GASKETS NEED REPLACEMENT

**RERU-2**

Des Champs

Model: PV-W3P-WPE

Serial: 42357

(2)20x25x2 Outdoor Air

(2)20x25x2 Return Air

(1)AX42 Exhaust

(1)AX42 Supply

\*\*UNIT NEEDS NEW BELTS / FILTERS AND CABINET CLEANED. CONDENSER WIRING NEEDS REWORK, OXYDIZED AND BRITTLE

\*\*O.A DAMPER BLADE GASKETS NEED REPLACEMENT

**KITCHEN EF-**

**CAPTIVE-AIRE SYSTEMS**

M/N:NCA16FA

1-AX26 BELT

\*BELT VERY LOOSE, NEEDS REPLACEMENT\*

**EF-1**

GREENHECK

M/N:CUBE-200-7

1-AX26 BELT

S/N:01C28678

\*BELT VERY LOOSE, NEEDS REPLACEMENT\*

\*UNIT NOT RUNNING\*

**AHU-1**

YORK

Model: AP35FS

Serial: CCKM034981

(2)16X20X2

SF=(1)4L460

RF=(1)AX42

\*FILTERS AND BELTS NEED REPLACEMENT\*

\*UNIT NEEDS TO BE CLEANED\*

**Atkinson**

**EF-3**

GREENHECK  
M/N:BSQ-120-7  
S/N:01C27515

1-AX38 BELT

**AHU-3**

YORK  
Model: AP35FS  
Serial: CCKM034981

ENERGY RECOVERY FILTERS (16)  
20X20X2  
(6)20X20X2  
SF=(1)BX59  
RF=(1)BX56

\*FILTERS AND BELTS NEED REPLACEMENT\*  
\*UNIT NEEDS TO BE CLEANED\*

**AHU-4**

YORK  
Model: AP35DPLCMB  
Serial: CCKM03489D

ENERGY RECOVERY FILTERS (6)  
20X20X3  
(2)16X20X2  
SF=(1)AX48

\*FILTERS AND BELT NEED REPLACEMENT\*  
\*UNIT NEEDS TO BE CLEANED\*

**EF-4**

GREENHECK  
M/N:BSQ-140HP-10  
S/N:01C27534

**MAIN ENTRANCE CUH-**

MESTEK  
S/N: 3/21/01

M/N: W1-1110-04  
\*FILTER NEEDS TO BE  
CLEANED\*

8.75X19.5X1  
FILTER

# Sandown Central School



# Sandown Central School

## SC-EF-Main Roof

NO TAG INFORMATION (1)6838 POWERBAND

\*\*UNIT OFF AT TIME OF INSPECTION

## SC-EF-BACK SIDE ROOF

GREENHECK  
Model:GB-080 (1)3L200  
Serial:01E03209

\*\*UNIT OPERATIONAL, NEEDS NEW BELT

## SC-EF-FRONT SIDE ROOF

GREENHECK  
Model:GB-080 (1)3L210  
Serial:01H11407

\*\*MOTOR BAD, COVER SHROUD MISSING SCREWS

## SC-EF-6

GREENHECK  
Model:GB-8-4 (1)L320  
Serial:88B01671

\*\*BELT FOUND OFF, TOO SMALL FOR APPLICATION, NEEDS RESIZING. MOTOR FOUND ON

## RTU-STREET SIDE

CARRIER  
Model:50TFF008A511 (1)A48  
Serial:1406G30717 (4)16x20x2

\*\*MECHANICAL COOLING FOUND IN OPERATION, NEEDS FURTHER TROUBLESHOOTING

\*\*EVAPORATOR NEEDS CLEANING, HEAT NOT PRESENT IN UNIT

## SC-EF-BACK ROOF

GREENHECK  
Model:GB8-4-XOD (1)6820 POWERBAND  
Serial:88A04942

\*\*UNIT RUNNING, NEEDS CLEANING AND BELT ADJUSTED

## RTU-REAR OF BUILDING

CARRIER  
Model:50TFF08A511 (1)AX48  
Serial:1606G50587 (4)16x20x2

\*\*DUCT SUPPORTS NEED REPAIR ON ROOF, OIL STAINS PRESENT UNDER CONDENSER COIL,  
UNIT SHOULD BE LEAK CHECKED

\*\*EVAPORATOR COIL NEEDS CLEANING

**Sandown  
Central**

**SC-CUH-COMPUTER LAB**

HERMAN NELSON

\*NO TAG INFO\* (1)10x36-1/2x1  
\*\*COIL WARM BUT NO FAN FUNCTION WHEN ENABLED AT UNIT

**SC-CUH-CEILING MOUNT**

TRANE (1)15x41-1/2x1  
Model:TUVA07HH5C52BG14G12  
Serial:S87M87614  
\*\*FILTER PLUGGED, NEEDS REPLACEMENT. UNIT NEEDS CLEANING

**AHU-2**

YORK M/N:DP-HC-MA-LC-DI-A  
S/N: CHKM-06819D  
RF=1-AX52  
SF=1-AX52 4-20X20X2  
\*NEEDS BELTS AND FILTERS REPLACED\*  
\*UNIT NEEDS CLEANING\*

**AHU-1**

YORK M/N:FS-AF-MB  
S/N: CHKM-  
RF=1-BX57 06920D  
SF=1-BX58  
6-20X20X2  
ENERGY RECOVERY FILTERS: 6-20X20X2  
\*NEEDS BELTS AND FILTERS REPLACED\*  
\*UNIT NEEDS CLEANING\*  
\*ENERGY RECOVERY MEDIA NEEDS TO BE REPLACED\*  
\*OUTSIDE AIR DAMPERS DON'T FULLY CLOSE AND GET HUNG UP\*

**GYM AHU-**

YORK M/N: ??  
2-20X25X2 FILTERS S/N: ??  
\*COULD NOT ACCESS UNIT,  
SCISSOR LIFT NEEDED\*

**MAIN ENTRANCE CUH**

MESTEK  
M/N: F1-1050-02  
FILTER= 1-19.5X8.75X1 S/N:07/16/01  
\*WASHABLE METAL FILTER IS DIRTY

# Timberlane Regional SAU Office



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## SAU-LOWER LEVEL

CARRIER

Model:FB4CNF060

(1)20x20x1

Serial:2613A84920

\*\*UNIT CABINET AND COIL NEED CLEANING, MAINTENANCE WILL ADDRESS

\*\*UNIT FILTER 1"-2" SHORT FRONT TO BACK. SUGGESTED TO MAKE UP METAL SPACER TO ALLOW FILTER TO PROPERLY SIT WITHOUT GAPS

## SAU-ATTIC-EAST

CARRIER

Model:40RUAA08A2A3A0A0A0

(1)A39

Serial:3413U32230

(3)20x20x2 Ceiling Diffusers In Space

\*\*UNIT HAS NO FILTERS IN ATTIC

## SAU-ATTIC-WEST

BRYANT

Model:FB4ANF060000AFAA

(3)20x20x2 Ceiling Diffusers In Space

Serial:1501A57254

\*\*UNIT CABINET AND COIL NEED CLEANING, MAINTENANCE WILL ADDRESS

## Summary

In summary, Timberlane Regional School District is on the correct path to achieve improved Indoor Air Quality in response to the COVID-19 Pandemic.

The below findings and recommendations can be made to improve the amount of outside air entering the building; but additional steps need to be taken;

This should include:

- The installation of MERV 13 (Min) Filters in all air-handling units that recirculate air and that are capable of receiving such filters without modification. Requisite with the installation of these filters is the increased frequency of filter replacement due to increased static.
- Upgrade and replace existing district Building Automation System (BAS). Trane will work with TRDS to establish product specifications and associated budgets for the upgrades at each corresponding school.
- The addition of humidity sensors to monitor and ensure humidity does not go too low or too high. Add space pressure sensors to monitor and control space pressure properly. Upon installation of upgraded Trane BAS, initiate programming changes for ventilation and exhaust fan control, and maximize efficiency for position on economizers.
- The installation of bipolar ionization and/or UVGI (Ultra Violet Germicidal Irradiation) air cleaning technology in air recirculating equipment that is not 100% outdoor air. Currently identified as the HVAC equipment serving the buildings throughout your district.
- The installation of portable room air cleaners for offices/confined spaces that cannot introduce outside air.
- Addressing the repairs and recommended troubleshooting of HVAC equipment noted above in the findings for each of the nine (9) buildings.

Sincerely,

Luke Llewellyn / Rory Beard