BOARD OF EDUCATION
Julian Del Real-Calleros • Gary Hardie Jr., Ed.D.
Alfonso Morales, Esq. • Alma Carina Castro, Ed.D.• Maria G. Lopez
Superintendent: Dr. Patrick Gittisriboongul, Ed.D.

ADDENDUM 001

For

BID# 15MOT26

Lynwood HS Bullis & Mark Twin ES HVAC Replacement Project

Non-DSA

April 14, 2026

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents. Acknowledge receipt of this Addendum in space provided on the Bid Form. Failure to acknowledge may subject Bidder to disqualification.

1. Bid Schedule

1.1- Reference to **Bid Schedule**

1.2- See attached **Revised Bid Schedule ADD01**

1.2-1. Revise **Bid Schedule activities,** to update construction substantial completion day, as outlined below.

Scheduled Activities	Dates	Time
Substantial Complete	**Tuesday, July 21, 2026**	

The District reserves the right to change and/or modify the submittal schedule.

NOTICE IS HEREBY GIVEN that Lynwood Unified School District, acting by and through its Board of Education, will receive up to, but not later than the above-stated date and time, Bid Proposals for the Work of the Project described above.

2. Bid SPECIAL PROVISIONS/SPECIAL CONDITIONS

2.1- Reference to **Bid SPECIAL PROVISIONS/SPECIAL CONDITIONS**

2.2- See attached **Bid SPECIAL PROVISIONS/SPECIAL CONDITIONS ADD01**

2.2-1.1. ADD to **Bid Special Conditions SP-21, and SP-22,** as outlined below.

SP-21. Multiple Crews Requirement

The Contractor shall deploy **separate, dedicated crews for each School Site**, including one crew assigned to the Lynwood HS Bullis and a separate crew assigned to the Mark Twain ES. Work shall be performed **concurrently across all Sites** and shall not be executed in a sequential manner.
The Contractor shall provide sufficient manpower, supervision, and resources to maintain parallel work activities to meet the Project schedule and required completion dates.

SP-22. Fire Watch Requirement

In the event the fire alarm system is placed on test, impaired, or temporarily out of service due to construction activities, the Contractor shall be fully responsible for providing a **continuous fire watch** in accordance with applicable codes and regulations.
The fire watch shall be maintained for the entire duration of the impairment and shall be performed by qualified personnel. All associated costs shall be included in the Contractor's bid, and no additional compensation will be provided by the District.

3. TECHNICAL SPECIFICATIONS

3.1- Reference to **TECHNICAL SPECIFICATIONS - SECTION 00 00 02 - PROJECT DIRECTORY**

3.2- See attached **TECHNICAL SPECIFICATIONS- SECTION 00 00 02 - PROJECT DIRECTORY ADD01**

- 3.2-1.1. Revise **Lynwood High School Technical Specifications – Section 00 00 02 – Project Directory,** to include Architect and Engineers Professional stamps, per attachment.
- 3.2-1.2. Revise **Mark Tawin Elementary Technical Specifications – Section 00 00 02 – Project Directory,** to include Architect and Engineers Professional stamps, per attachment.

3.3- Reference to **PLUMBING SPECIFICATIONS - SECTION 22 00 00**

3.4- See attached **PLUMBING SPECIFICATIONS - SECTION 22 00 00 ADD01**

- 3.4-1.1. Revise Page 4 OF **Lynwood High School Technical Specifications – Section 22 00 00 – PLUMPING SPECIFICATIONS,** to remove item (b) from Part 2 Products section B, 1. See cloud for changes.
- 3.4-1.2. Revise Page 4 OF **Mark Twain Elementary Technical Specifications – Section 22 00 00 – PLUMPING SPECIFICATIONS,** to remove item (b) from Part 2 Products section B, 1. See cloud for changes.

4. MECHANICAL DRAWINGS SET

4.1- Reference to **LYNWOOD HIGH SCHOOL MECHANICAL SCHEDULES SHEET M-0.2.**

4.2- See attached **LYNWOOD HIGH SCHOOL MECHANICAL SCHEDULES SHEET M-0.2 ADD01**

- 4.2-1.1. Revise Remark 4 on Packaged Rooftop Heat Pump Unit Schedule. See clouds with B1 for changes, per attachment.
- 4.2-1.2. Revise Note 4 on Packaged Rooftop Heat Pump Unit Schedule. See clouds with B1 for changes, per attachment.
- 4.2-1.3. 3. Added Detail 1/M-0.2. See clouds with B1 for changes, per attachment.
- 4.2-1.4. Revise Remark note# 6, to revise condensate pipes to be a copper pipes.

4.3- Reference to **MARK TWAIN ELEMENTARY SCHOOL MECHANICAL SCHEDULES SHEET M-0.2.**

4.4- See attached **MARK TWAIN ELEMENTARY SCHOOL MECHANICAL SCHEDULES SHEET M-0.2. ADD01**

- 4.4-1.1. Revise Remark 4 on Packaged Rooftop Heat Pump Unit Schedule. See clouds with B1 for changes, per attachment.
- 4.4-1.2. Revise Note 4 on Packaged Rooftop Heat Pump Unit Schedule. See clouds with B1 for changes, per attachment.
- 4.4-1.3. 3. Added Detail 1/M-0.2. See clouds with B1 for changes, per attachment.
- 4.4-1.4. Revise Remark note# 6, to revise condensate pipes to copper pipes.

4.5- Reference to **LYNWOOD HIGH SCHOOL MECHANICAL DETAILS SHEET M-0.3.**

4.6- See attached **LYNWOOD HIGH SCHOOL MECHANICAL DETAILS SHEET M-0.3 ADD01**

- 4.6-1.1. Removed note 4 from detail 2/M-0.3. See clouds for changes.
- 4.6-1.2. Revised condensate pipe material note on detail 2/M-0.3. See clouds for changes.

4.7- Reference to **MARK TAWIN ELEMENTARY SCHOOL MECHANICAL DETAILS SHEET M-0.3.**

4.8- See attached **ELEMENTARY SCHOOL MECHANICAL DETAILS SHEET M-0.3 ADD01**

- 4.8-1.1. Removed note 4 from detail 2/M-0.3. See clouds for changes.

4.8-1.2. Revised condensate pipe material note on detail 2/M-0.3. See clouds for changes.

5. PRODUCT CUT SHEETS

5.1- ADD **MyStat v2 IAQ Product Cut Sheet** to revise the project thermostat model, per the attachment.

5.2- ADD **ClimaVision Central Control Unit XR Product Cut Sheet** to the project, per the attachment.

3. TECHNICAL SPECIFICATIONS

DIVISION 0 – INTRODUCTORY PAGES

SECTION 00 00 02 - PROJECT DIRECTORY ADD01

PART 1 - GENERAL

Owner:
714-999-3511 PHONE
emorales@mylusd.org

Lynwood Unified School District
11321 Bullis Road
Lynwood, CA 90262
Director of Facilities: Eric Morales

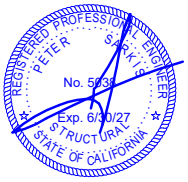
Mechanical Engineering:
714-693-2277 PHONE
None FAX
abanerjee@oed-inc.com

Optimum Energy Design
5200 E. La Palma
Anaheim, CA 92807
Principal-in-Charge: *Abby Banerjee*

ARCHITECT AND ENGINEERS PROFESSIONAL STAMPS

1. **Structural Engineer:** Peter Sarkis
   Petra Structural Engineers
   17981 SkyPark Circle, Suite O
   Irvine, CA 926140
   (949) 404-3351

   Seal:



2. **Electrical Engineer:** Rolando E. Sotelo
   Optimum Energy Design
   5200 E. La Palma Ave
   Anaheim, CA 92807
   (714)693-2277

   Seal:



3. **Mechanical Engineer:** Abby Banerjee
   Optimum Energy Design
   5200 E. La Palma Ave
   Anaheim, CA 92807
   (714)693-2277

   Seal:



-END OF SECTION-

selected without proper regard to the requirements of the job will not be approved. No more than one proposed alternate will be considered for each item.

5. Alternate items installed without Engineer's approval will be replaced with specified items at Contractor's expense.

6. The Architect or his authorized representative shall be the sole judge as to the quality and suitability of proposed alternate equipment, fixtures or materials. Decisions of the Architect or that of his representative shall be final and conclusive.

1.9 UNINSPECTED WORK

A. The Contractor shall not allow or cause any of his work to be covered up or closed in until it has been inspected, tested, approved by all authorities have jurisdiction, and until Project Record drawings have been properly annotated.

B. Should any of his work be covered up or closed in before such inspection, he shall, at his own expense, uncover the work to the satisfaction of the inspection party. All related repair work cost shall be borne by the Contractor.

1.10 RECORD DRAWINGS (Also see General Conditions)

A. Contractor shall provide and keep up-to-date a complete "as-built" record set of blueline prints which shall show every change from the original drawings and the exact "as-built" locations and sizes of the work provided under this Section of the specifications. This set shall include locations, dimensions, depth of buried piping, cleanouts, shut-off valves, sewer invert locations, plugged wyes, tees, etc. where applicable. On completion of the work, the Contractor shall incorporate all as-built information on a set of reproducible tracings provided by the Architect and this set of reproducibles shall be delivered to the Architect.

1.11 GUARANTEES (Also see General Conditions)

A. Contractor shall guarantee the entire plumbing and piping systems unconditionally for a period of one (1) year after final acceptance. If, during this period, any materials, equipment, or any part of the systems fail to function properly, the Contractor shall make good the defects promptly and without any expense to the Owner.

B. Contractor shall be responsible for all damage to any part of the premises caused by leaks in pipelines or equipment furnished and installed under this Section for a period of one (1) year after date of acceptance of his work.

C. All equipment and fixtures shall carry manufacturer's warranty against defective parts or poor workmanship for not less than one (1) year. See specific equipment specifications for extended warranty requirements.

2. PART 2 – PRODUCTS

2.1 MATERIALS AND EQUIPMENT (See Schedules on Drawings)

A. General: All materials, as specified or required in the work, shall be new, free from defects and imperfections. All manufactured shall comply with California Assembly Bill 1953.

B.

1. Air Conditioning Condensate Drain Piping.

(a) Shall be Type "M" copper below roof and indoor.

2. All exposed piping at plumbing fixtures shall be chrome plated yellow brass except exposed pipes in

DIVISION 0 – INTRODUCTORY PAGES

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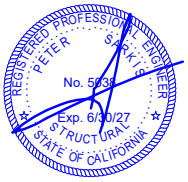
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4. MECHANICAL DRAWINGS SET

(E) AC UNIT & (N) HEAT PUMP UNIT MODEL # REFERENCES

BUILDING NO. PER SCHEDULE TAG	BLDG NAME DISTRICT SITE PLAN	TAG	NOMINAL TONNAGE	MODEL NO. (EXISTING EQUIPMENT)	WEIGHT (EXISTING UNIT)	VOLT/PHASE/HZ	MANUFACTURER	MODEL NO. (NEW EQUIPMENT)	DUCT CONNECTION CONFIGURATION
A	MAIN OFFICE	M-1	4	50HJQ005---601	500	460/3/60	CARRIER	50FCQA05A2M6-3A0A0	DOWNSHOT
F	BLDG F	F-1	4	50LJQ005-641	500	460/3/60	CARRIER	50FCQA05A2M6-3A0A0	DOWNSHOT
		F-2	3	50LJQ004-641	490	460/3/60	CARRIER	50FCQA04A2M6-3A0A0	DOWNSHOT
		F-3	4	50LJQ005-641	500	460/3/60	CARRIER	50FCQA05A2M6-3A0A0	DOWNSHOT
		F-4	4	50LJQ005-641	500	460/3/60	CARRIER	50FCQA05A2M6-3A0A0	DOWNSHOT
G	BLDG G	G-1	4	50LJQ005-641	500	460/3/60	CARRIER	50FCQA05A2M6-3A0A0	DOWNSHOT
		G-2	3	50LJQ004-641	490	460/3/60	CARRIER	50FCQA04A2M6-3A0A0	DOWNSHOT
		G-3	3	50LJQ004-641	490	460/3/60	CARRIER	50FCQA04A2M6-3A0A0	DOWNSHOT

1. SEE ABOVE - "(E) AC UNIT & (N) HEAT PUMP UNIT MODEL # REFERENCES".

MARK TWAIN ELEMENTARY SCHOOL - PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE

TAG	MFR & MODEL #	TONS	COOLING CAPACITY TOTAL(MBTU)	COOLING CAPACITY SENS(MBTU)	ARI EER/ SEER	MIXED AIR TEMP DB/WB (°F)	HEATING (MBTU)	SUPPLY FAN SA (CFM)	SUPPLY FAN OSA(CFM)	SUPPLY FAN ESP	SUPPLY FAN RPM	SUPPLY FAN BHP	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	OPERATING WEIGHT (LBS) UNIT	OPERATING WEIGHT (LBS) ECON.	OPERATING WEIGHT (LBS) TOTAL WEIGHT	REMARKS
M-1	CARRIER 50FCQA05A2M6-3A0A0	4	49.92	37.82	-/14.30	80/67	46.10	1600	★	1.00	1958	.81	460	3	60	2.5	11	15	488	59	547	1,2,3,4,5,6,7,8
F-1	CARRIER 50FCQA04A2M6-3A0A0	4	49.92	37.82	-/14.30	80/67	46.10	1600	★	1.00	1958	.81	460	3	60	2.5	11	15	488	59	547	1,2,3,4,5,6,7,8
F-2	CARRIER 50FCQA05A2M6-3A0A0	3	36.98	27.93	-/14.30	80/67	34.10	1200	★	1.00	1946	.54	460	3	60	2	10	15	482	59	541	1,2,3,4,5,6,7,8
F-3	CARRIER 50FCQA05A2M6-3A0A0	4	49.92	37.82	-/14.30	80/67	46.10	1600	★	1.00	1958	.81	460	3	60	2.5	11	15	488	59	547	1,2,3,4,5,6,7,8
F-4	CARRIER 50FCQA05A2M6-3A0A0	4	49.92	37.82	-/14.30	80/67	46.10	1600	★	1.00	1958	.81	460	3	60	2.5	11	15	488	59	547	1,2,3,4,5,6,7,8
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REMARK:

1. PROVIDE HAIL GUARD.
   PROVIDE MERV-13 FILTER FOR ROOF TOP HEAT PUMP UNIT.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. PROVIDE PERMANENT LABEL FOR EACH HEAT PUMP UNIT BY CONTRACTOR. LABEL IDENTIFICATION SHALL BE PER DISTRICT DIRECTION.
4. PRE-PURCHSED ELECTROMECHANICAL CONTROLS WITH NEW CARRIER SUSTEMVU CONTROLLER. NEW CARRIER CLIMAVISION MYSTAT V2 IAQ WITH CO2 SENSOR. SEE DETAIL 1/M0.2 FOR MORE INFORMATION.
5. PROVIDE 100% DRY BULB ECONOMIZER. ULTRA LOW LEAK ECONOMIZER ORIENTATION TO MATCH EXISTING. ADJUSTABLE DRY BULB SENSOR BELIMO. PAINTED RAIN HOOD WITH ALUMINUM FILTER 100%. BAROMETRIC RELIEF.
6. PROVIDE CONDENSATE DRAIN FOR UNIT WITH TYPE 'M' COPPER AND SOLDERED FITTINGS. PAINT PER DISTRICT STANDARD.
7. UNITS ARE PRE-PURCHASED BY DISTRICT. CONTRACTOR SUBMITTALS FROM DISTRICT/OWNER.
8. PROVIDE NEW SEISMIC CLIPS TO EXISTING CURB.

NOTE:

1. PROVIDE MERV 13 FILTER FOR ALL HP UNITS.
2. SEE ABOVE - "MARK TWAIN ELEMENTARY SCHOOL - PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE" FOR EQUIPMENT TAG NUMBER.
3. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
4. CONTRACTOR TO CONNECT ALL NEW UNITS TO NEW CLIMAVISION MYSTAT V2 IAQ. SEE DETAIL 1/M0.2 FOR MORE INFORMATION.
5. SEE ABOVE - "MARK TWAIN ELEMENTARY SCHOOL - PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE" FOR ELECTRICAL INFORMATION AND ACCESSORIES.
6. EXISTING ROOF CURB TO REMAIN. FOR DAMAGED ROOF CURB REPLACEMENT, CONTRACTOR TO PROVIDE UNIT COST FOR CURB REPLACEMENT AND ASSOCIATED ROOFING.

★ CONTRACTOR TO MEASURE EXISTING OUTSIDE AIR PRIOR TO REMOVAL OF UNIT & SUBMIT TO ENGINEER FOR REVIEW & SHALL MAKE ALL NECESSARY ADJUSTMENTS PER ENGINEER COMMENTS.

PRODUCT DATA SHEET

ClimaVision Central Control Unit XR

A powerful wall-mounted system manager that provides in-depth, real-time insight and control.

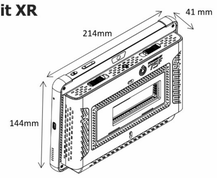


CCU XR | Part # 7C-CC-K10K-IA

- Local User Interface to system
  - View space temperatures and equipment operating conditions
  - Make scheduling and setpoint adjustments
  - Color coding of alerts for ease of management
- Wi-Fi Gateway to Cloud
- Wireless Commissioning Tool
- VVT/VAV Air Source Equipment Controller
- Gateway to third-party devices (like energy meters) or BAS

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ClimaVision Central Control Unit XR



MECHANICAL

Dimensions	8.4" x 5.7" x 1.6" (214 mm x 144 mm x 41 mm)
Mounting	(2) #8 screws over standard electrical junction box
Screen	8" display, 1280 x 800
Operating Temp	32°F to 122°F (0°C to 50°C)
Termination	Common Pogo Pin termination for USB port and +5V DC power
Microprocessor	Processor 8 core (4 high performance + 4 low power)
HVAC Control	Up to 5 stages of heating/cooling, up to 5 fan stages, 0-10V modulating output for heating/cooling valves (no VFD), and a dehumidifier or humidifier

I/O

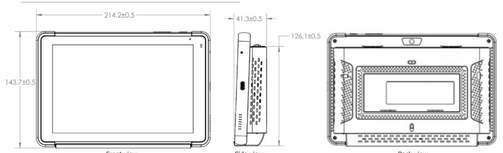
Inputs	A. (2) 0-10V analog inputs B. (4) 10k thermistor inputs
Outputs	C. (4) 0-10V or 4-20V mA analog outputs D. (7) 110V@0.3A to 24V@1A relays

ELECTRICAL

Supply	24V AC/DC +/- 15% | 5 VA (typical), 10 VA (max)
Battery	3.7V, 2400mAH, Lithium Polymer

COMMUNICATIONS

Bluetooth	2.4 GHz; used for pairing ClimaVision devices
Mesh	900 MHz IEEE 802.15.4-compliant; used for device communication on mesh network
Wired	3-wire sensor bus to ClimaVision communicating sensors (Molex connector) 4-wire RS-485 port for wired communication to controllers Ethernet port to connect to a private network or the internet. Also supports BACnet/IP for integration. USB-A port for integration to 3rd-party devices (requires USB-A to 3-pin terminal adapter)
Wi-Fi	Wi-Fi to connect to internet

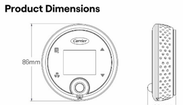


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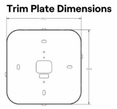
ClimaVision MyStat v2 IAQ (7C-TS-C4K-C2)

Specification	
Compatible Equipment	Rooftop Package Unit, Heat Pump Unit, PTAC Units, 2 Pipe Fan Coil Unit, and 4 Pipe Fan Coil Unit
Screen	LCD, 1.8"
Temperature	Operating range between 32°F – 122°F (0 – 50°C); typical accuracy of +/- 1 °F or 0.5°C
Humidity	Sensing range between 0 to 100% RH; Typical accuracy of +/- 2% RH
Occupancy	Passive Infra Red (PIR) with detection range of 4m with 110 -degree angle
CO2* (Different part number)	400 - 5000ppm ± 50ppm accuracy± 2.5% measured value up to 400 - 1000ppm ± 50ppm accuracy ± 3% measured value up to 1001 - 2000 ppm
Power	24V AC/DC (+/-15%) with nominal power consumption of less than 0.3W
Bluetooth	Bluetooth (BLE 5.1) for commissioning, location analysis or communication to wireless sensors
Wireless Mesh	906-924 MHz IEEE 802.15.4-compliant for communication to CCU 868.3MHz IEEE 802.15.4-compliant for EU region
Wired	Industry standard RS485 for Modbus or BACnet (coming soon)
Inputs	(1) Universal input which can accept Thermistor (NTC 10K Type 2), 0-10VDC, or Dry Contact. (Can be configured as: Discharge Air Temp, Generic Alarm (N/O or N/C), Key Card Sensor, or Door/Window Sensor (N/C or AI), or Fan Run Status (N/O or N/C)
Outputs	(3) Digital/Relay outputs rated at 0.3A, 120V ac or 1.0A, 24 V ac/dc resistive load (2) Universal outputs configurable as Relay (0.3A, 120V ac or 1.0A, 24 V ac/dc resistive load) or 0-10 VDC
Trim Plate Dimensions	4.84 inches" x 4.84 inches" (123 mm x 123 mm)
Dimensions	3-3/8" Diameter x 1-1/4" Depth | 86mm Diameter x 32mm Depth

Product Dimensions



Trim Plate Dimensions



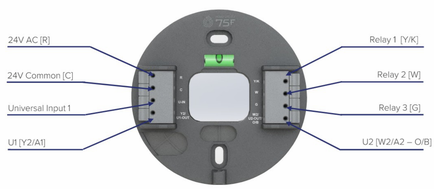
ClimaVision MyStat v2 IAQ (7C-TS-C4K-C2)

Configurations

The MyStat v2 IAQ v2 provides a highly flexible hardware footprint to accommodate diverse mechanical needs:

Configuration Type	Dedicated Relays (3)	Universal Outputs (2)	Total Control Points
Standard 5-Relay	3 Stages (Heat/Cool/Fan)	2 Additional Relays	5 Relays
Mixed Mode	3 Stages (Heat/Cool/Fan)	2 Analog (0-10V)	3 Relays / 2 Analog
Hybrid Staging	3 Stages (Heat/Cool/Fan)	1 Relay / 1 Analog	4 Relays / 1 Analog

Inputs/Outputs (on base plate)



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NOTE:

1. CONTRACTOR IS RESPONSIBLE TO COORDINATE CONTROLS WITH CARRIER TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
2. EACH RTU SHALL HAVE ONE (1) THERMOSTAT EACH AND CONNECT TO THE CENTRAL CONTROLLER VIA WIFI. CONTRACTOR TO PROVIDE LOW VOLTAGE WIRING FROM THERMOSTAT TO UNIT PER MANUFACTURER GUIDELINES.
3. CONTRACTOR SHALL INSTALL CENTRAL CONTROLLER PER MANUFACTURER GUIDELINES. PROVIDE SUBMITTAL AND LOCATION PRIOR TO INSTALLATION. COORDINATE WITH ELECTRICAL TO PROVIDE POWER TO CENTRAL CONTROLLER AS REQUIRED.
4. CONTRACTOR SHALL PROVIDE TRAINING TO THE DISTRICT FOR THIS CONTROL SYSTEM PRIOR TO TURNING OVER THE PROJECT TO THE DISTRICT.
5. CONTRACTOR SHALL INTERFACE AND CONNECT TO THE CARRIER CLOUD FOR MOBILE APP AND REMOTE CONNECTIVITY AND COORDINATE WITH DISTRICT TO CONNECT TO INTERNET.
6. PLEASE CONTACT TRAVON CHADWICK WITH SIGLER FOR PRICING ON CLIMAVISION CONTROLS. OFFICE: (714) 578-5142 | CELL: (714) 453-7165 | TCHADWICK@SIGLERS.COM

CLIMAVISION THERMOSTAT AND CENTRAL CONTROLLER

SCALE NONE

1

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER — ABBY "BAKEVIEW" — No. M29253 Exp. 6/30/27 — MECHANICAL — STATE OF CALIFORNIA

PROJECT NAME:

MARK TWAIN ELEMENTARY SCHOOL
12315 THROSON AVE,
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	04/13/2026	BID ADD 1

JOB NO: 501-26-0015
DATE: 04/13/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT:
ENGINEER: OED

CONSULTANT

STAMP

SHEET DESCRIPTION:

MECHANICAL SCHEDULES

SHEET NO:

M-0.2 ADD01

(E) AC UNIT & (N) HEAT PUMP UNIT MODEL # REFERENCES

BUILDING NO. PER SCHEDULE TAG	BLDG NAME DISTRICT SITE PLAN	TAG	NOMINAL TONNAGE	MODEL NO. (EXISTING EQUIPMENT)	WEIGHT (EXISTING UNIT)	VOLT/PHASE/HZ	MANUFACTURER	MODEL NO. (NEW EQUIPMENT)	DUCT CONNECTION CONFIGURATION
C	BLDG C	C-1	4	50LJQ005-641	500	460/3/60	CARRIER	50FCQA05A2M6-3A0A0	DOWNSHOT
		C-2	4	50LJQ005-641	500	460/3/60	CARRIER	50FCQA05A2M6-3A0A0	DOWNSHOT
		C-3	4	50LJQ005-641	500	460/3/60	CARRIER	50FCQA05A2M6-3A0A0	DOWNSHOT
		C-4	4	50LJQ005-641	500	460/3/60	CARRIER	50FCQA05A2M6-3A0A0	DOWNSHOT

1. SEE ABOVE - "(E) AC UNIT & (N) HEAT PUMP UNIT MODEL # REFERENCES".

LYNWOOD HIGH SCHOOL - PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE

TAG	MFR & MODEL #	TONS	COOLING CAPACITY TOTAL(MBTU)	COOLING CAPACITY SENS(MBTU)	ARI EER/ SEER	MIXED AIR TEMP DB/WB (°F)	HEATING (MBTU)	SUPPLY FAN SA (CFM)	SUPPLY FAN OSA(CFM)	SUPPLY FAN ESP	SUPPLY FAN RPM	SUPPLY FAN BHP	ELECTRICAL V	ELECTRICAL PH	ELECTRICAL HZ	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	OPERATING WEIGHT (LBS) UNIT	OPERATING WEIGHT (LBS) ECON.	OPERATING WEIGHT (LBS) TOTAL WEIGHT	REMARKS
C-1	CARRIER 50FCQA05A2M6-3A0A0	4	49.92	37.82	-/14.30	80/67	46.10	1600	*	1.00	1958	.81	460	3	60	2.5	11	15	488	45	533	1,2,3,4,5,6,7,8
C-2	CARRIER 50FCQA05A2M6-3A0A0	4	49.92	37.82	-/14.30	80/67	46.10	1600	*	1.00	1958	.81	460	3	60	2.5	11	15	488	45	533	1,2,3,4,5,6,7,8
C-3	CARRIER 50FCQA05A2M6-3A0A0	4	49.92	37.82	-/14.30	80/67	46.10	1600	*	1.00	1958	.81	460	3	60	2.5	11	15	488	45	533	1,2,3,4,5,6,7,8
C-4	CARRIER 50FCQA05A2M6-3A0A0	4	49.92	37.82	-/14.30	80/67	46.10	1600	*	1.00	1958	.81	460	3	60	2.5	11	15	488	45	533	1,2,3,4,5,6,7,8

REMARK:

1. PROVIDE HAIL GUARD.
   PROVIDE MERV-13 FILTER FOR ROOF TOP HEAT PUMP UNIT.
2. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
3. PROVIDE PERMANENT LABEL FOR EACH HEAT PUMP UNIT BY CONTRACTOR. LABEL IDENTIFICATION SHALL BE PER DISTRICT DIRECTION.
4. PRE-PURCHSED ELECTROMECHANICAL CONTROLS WITH NEW CARRIER SOLSTEMV2 CONTROLLER. NEW CARRIER CLIMAVISION MYSTAT V2 IAQ WITH CO2 SENSOR. SEE DETAIL 1/M0.2 FOR MORE INFORMATION.
5. PROVIDE 100% DRY BULB ECONOMIZER. ULTRA LOW LEAK ECONOMIZER ORIENTATION TO MATCH EXISTING. ADJUSTABLE DRY BULB SENSOR BELIMO. PAINTED RAIN HOOD WITH ALUMINUM FILTER (40% - BAROMETRIC RELIEF).
6. PROVIDE CONDENSATE DRAIN FOR UNIT WITH TYPE 'M' COPPER AND SOLDERED FITTINGS. PAINT PER DISTRICT STANDARD.
7. UNITS ARE PRE-PURCHASED BY DISTRICT. OBTAIN SUBMITTALS FROM DISTRICT/OWNER.
8. PROVIDE NEW SEISMIC CLIPS TO EXISTING CURB.

NOTE:

1. PROVIDE MERV 13 FILTER FOR ALL HP UNITS.
2. SEE ABOVE - "LYNWOOD HIGH SCHOOL - PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE" FOR EQUIPMENT TAG NUMBER.
3. INSTALL NEW ROOF TOP HEAT PUMP UNIT PER MANUFACTURER GUIDELINES.
4. CONTRACTOR TO CONNECT ALL NEW UNITS TO NEW CLIMAVISION MYSTAT V2 IAQ. SEE DETAIL 1/M0.2 FOR MORE INFORMATION.
5. SEE ABOVE - "LYNWOOD HIGH SCHOOL - PACKAGED ROOFTOP HEAT PUMP UNIT SCHEDULE" FOR ELECTRICAL INFORMATION AND ACCESSORIES.
6. EXISTING ROOF CURB TO REMAIN. FOR DAMAGED ROOF CURB REPLACEMENT, CONTRACTOR TO PROVIDE UNIT COST FOR CURB REPLACEMENT AND ASSOCIATED ROOFING.

* CONTRACTOR TO MEASURE EXISTING OUTSIDE AIR PRIOR TO REMOVAL OF UNIT & SUBMIT TO ENGINEER FOR REVIEW & SHALL MAKE ALL NECESSARY ADJUSTMENTS PER ENGINEER COMMENTS.

NOTE:
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PRODUCT DATA SHEET

ClimaVision Central Control Unit XR

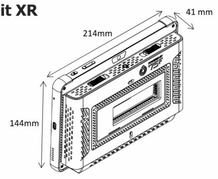
A powerful wall-mounted system manager that provides in-depth, real-time insight and control.



CCU XR | Part # 7C-CC-K10K-IA

- Local User Interface to system
  - View space temperatures and equipment operating conditions
  - Make scheduling and setpoint adjustments
  - Color coding of alerts for ease of management
- Wi-Fi Gateway to Cloud
- Wireless Commissioning Tool
- VVT/VAV Air Source Equipment Controller
- Gateway to third-party devices (like energy meters) or BAS

ClimaVision Central Control Unit XR



MECHANICAL

Dimensions	8.4" x 5.7" x 1.6" (214 mm x 144 mm x 41 mm)
Mounting	(2) #8 screws over standard electrical junction box
Screen	8" display, 1280 x 800
Operating Temp	32°F to 122°F (0°C to 50°C)
Termination	Common Pogo Pin termination for USB port and +5V DC power
Microprocessor	Processor 8 core (4 high performance + 4 low power)
HVAC Control	Up to 5 stages of heating/cooling, up to 5 fan stages, 0-10V modulating output for heating/cooling valves (no VFD), and a dehumidifier or humidifier

I/O

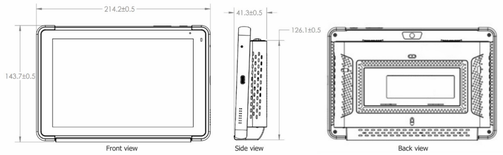
Inputs	A. (2) 0-10V analog inputs B. (4) 10k thermistor inputs
Outputs	C. (4) 0-10V or 4-20V mA analog outputs D. (7) 110V@0.3A to 24V@1A relays

ELECTRICAL

Supply	24V AC/DC +/- 15% | 5 VA (typical), 10 VA (max)
Battery	3.7V, 2400mAH, Lithium Polymer

COMMUNICATIONS

Bluetooth	2.4 GHz; used for pairing ClimaVision devices
Mesh	900 MHz IEEE 802.15.4-compliant; used for device communication on mesh network
Wired	3-wire sensor bus to ClimaVision communicating sensors (Molex connector) 4-wire RS-485 port for wired communication to controllers Ethernet port to connect to a private network or the internet. Also supports BACnet/IP for integration. USB-A port for integration to 3rd-party devices (requires USB-A to 3-pin terminal adapter)
Wi-Fi	Wi-Fi to connect to internet



ClimaVision MyStat v2 IAQ (7C-TS-C4K-C2)

Specification	
Compatible Equipment	Rooftop Package Unit, Heat Pump Unit, PTAC Units, 2 Pipe Fan Coil Unit, and 4 Pipe Fan Coil Unit
Screen	LCD, 1.8"
Temperature	Operating range between 32°F – 122°F (0 – 50°C); typical accuracy of +/- 1 °F or 0.5°C
Humidity	Sensing range between 0 to 100% RH; Typical accuracy of +/- 2% RH
Occupancy	Passive Infra Red (PIR) with detection range of 4m with 110 -degree angle
CO2* (Different part number)	400 - 5000ppm ± 50ppm accuracy± 2.5% measured value up to 400 - 1000ppm ± 50ppm accuracy ± 3% measured value up to 1001 - 2000 ppm
Power	24V AC/DC (+/-15%) with nominal power consumption of less than 0.3W
Bluetooth	Bluetooth (BLE 5.1) for commissioning, location analysis or communication to wireless sensors
Wireless Mesh	906-924 MHz IEEE 802.15.4-compliant for communication to CCU 868.3MHz IEEE 802.15.4-compliant for EU region
Wired	Industry standard RS485 for Modbus or BACnet (coming soon)
Inputs	(1) Universal input which can accept Thermistor (NTC 10K Type 2), 0-10VDC, or Dry Contact. (Can be configured as: Discharge Air Temp, Generic Alarm (N/O or N/C), Key Card Sensor, or Door/Window Sensor (N/C or AI), or Fan Run Status (N/O or N/C)
Outputs	(3) Digital/Relay outputs rated at 0.3A, 120V ac or 1.0A, 24 V ac/dc resistive load (2) Universal outputs configurable as Relay (0.3A, 120V ac or 1.0A, 24 V ac/dc resistive load) or 0-10 VDC
Trim Plate Dimensions	4.84 inches" x 4.84 inches" (123 mm x 123 mm)
Dimensions	3-3/8" Diameter x 1-1/4" Depth I 86mm Diameter x 32mm Depth

Product Dimensions



Trim Plate Dimensions



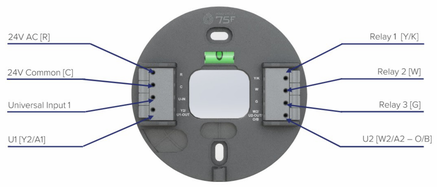
ClimaVision MyStat v2 IAQ (7C-TS-C4K-C2)

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Configuration Type	Dedicated Relays (3)	Universal Outputs (2)	Total Control Points
Standard 5-Relay	3 Stages (Heat/Cool/Fan)	2 Additional Relays	5 Relays
Mixed Mode	3 Stages (Heat/Cool/Fan)	2 Analog (0-10V)	3 Relays / 2 Analog
Hybrid Staging	3 Stages (Heat/Cool/Fan)	1 Relay / 1 Analog	4 Relays / 1 Analog

Inputs/Outputs (on base plate)



CLIMAVISION THERMOSTAT AND CENTRAL CONTROLLER

SCALE NONE | 1

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER — ABBY BARRETT — No. M29253 Exp. 6/30/27 — MECHANICAL — STATE OF CALIFORNIA

PROJECT NAME:

LYNWOOD HIGH SCHOOL
(LIKE FOR LIKE)
12124 BULLIS RD
LYNWOOD, CALIFORNIA 90262

No.	Rev. Date	Description

JOB NO: 501-26-0009
DATE: 03/02/2026
DRAWN: VZ
CHECK: ZF
ARCHITECT:
ENGINEER: OED

CONSULTANT

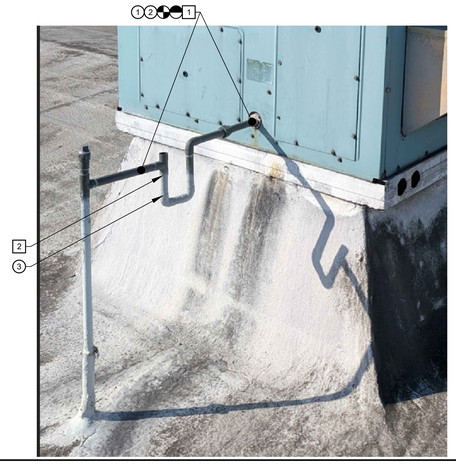
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SHEET DESCRIPTION:

MECHANICAL SCHEDULES

SHEET NO:

M-0.2 ADD01



CONSTRUCTION GENERAL NOTES:

1. ALL CONDENSATE DRAIN PIPING TO SLOPE AT 1% MIN.
2. FIELD VERIFY EXISTING INDOOR CONDENSATE DRAIN IS INSULATED AND DISCHARGES TO AN APPROVED RECEPTOR WITH A 1-1/2" AIR GAP MINIMUM.
3. ALL FIXTURES, EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.

DEMOLITION KEYNOTES:

1 POINT OF DISCONNECTION FOR CONDENSATE DRAIN AT (E) MECH. UNIT ON ROOF. TYPICAL FOR 4 MECH. UNITS.

2 REMOVE EXISTING P-TRAP AT (E) MECH. UNIT. EXISTING CONDENSATE DRAIN TO BE CAPPED. EXISTING CONDENSATE DRAIN DOWN THRU ROOF TO REMAIN.

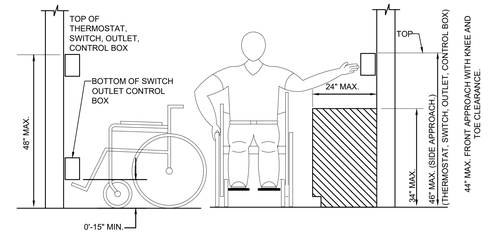
CONSTRUCTION KEYNOTES:

(1) POINT OF CONNECTION AT NEW MECH. UNIT ON ROOF. TYPICAL FOR 4 MECH. UNITS.

(2) PROVIDE NEW 3/4"CD CONNECTION TO NEW MECH. UNIT ON ROOF. SEE MECH. DRAWINGS FOR MECH. UNIT LOCATION.

(3) PROVIDE NEW 3/4"CD PLUG & VENTED P-TRAP. SEE DETAIL NUMBER FOR ON THIS SHEET.

CONDENSATE P-TRAP REPLACEMENT FOR ALL MECHANICAL UNITS | SCALE NONE | 4



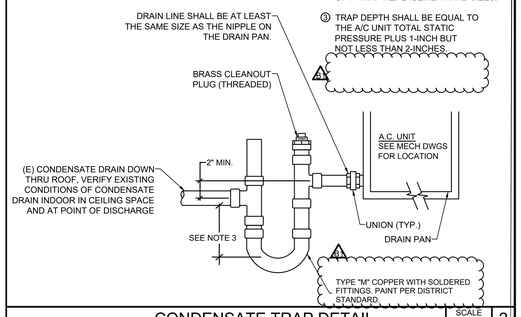
ADA CONTROL DEVICE MOUNTING HEIGHT DETAIL | SCALE NONE | 3

NOTES:

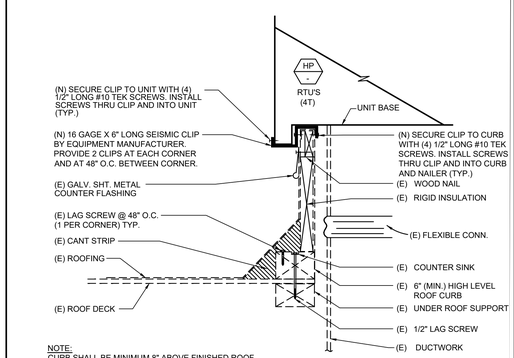
(1) ALL CONDENSATE DRAIN LINES WITHIN BUILDING SHALL BE INSULATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 22 00 00, PLUMBING SPECIFICATIONS.

(2) SEE DETAIL DRAWING FOR DESCRIPTION OF P-TARP REPLACEMENT AND SIZES.

(3) TRAP DEPTH SHALL BE EQUAL TO THE A/C UNIT TOTAL STATIC PRESSURE PLUS 1-INCH BUT NOT LESS THAN 2-INCHES.



CONDENSATE TRAP DETAIL | SCALE NONE | 2



NOTE:
CURB SHALL BE MINIMUM 8" ABOVE FINISHED ROOF

ROOFTOP HP UNIT MOUNTING W/ (E) CURB | SCALE NONE | 1

oed optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER ZAHI F. BAKERY No. M29253 Exp. 6/30/27 MECHANICAL STATE OF CALIFORNIA

PROJECT NAME:

LYNWOOD HIGH SCHOOL
(LIKE FOR LIKE)
12124 BULLIS RD
LYNWOOD , CALIFORNIA 90262

No.	Rev. Date	Description
1	04/13/2026	BID ADD 1

JOB NO:	501-26-0009
DATE:	04/13/2026
DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	
ENGINEER:	OED

CONSULTANT

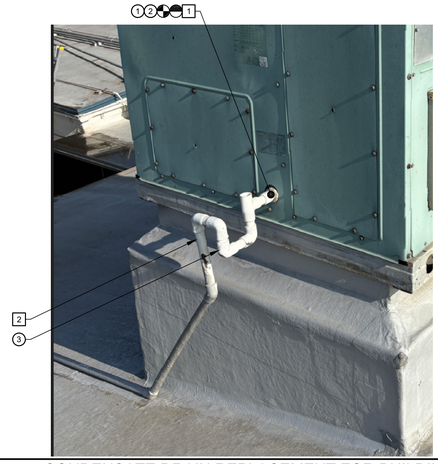
STAMP

SHEET DESCRIPTION:

MECHANICAL DETAILS

SHEET NO:

M-0.3 ADD01



CONDENSATE DRAIN REPLACEMENT FOR BUILDING A, F AND G MECHANICAL UNITS — SCALE NONE — 4

CONSTRUCTION GENERAL NOTES:

1. ALL CONDENSATE DRAIN PIPING TO SLOPE AT 1% MIN.
2. FIELD VERIFY CONDENSATE DRAIN POINT OF DISCHARGES TO AN APPROVED RECEPTOR WITH A 1-1/2" AIR GAP MINIMUM.
3. ALL FIXTURES, EQUIPMENT, PIPING AND MATERIALS SHALL BE LISTED.

DEMOLITION KEYNOTES:

1 POINT OF DISCONNECTION FOR CONDENSATE DRAIN AT (E) MECH. UNIT ON ROOF. TYPICAL FOR 4 MECH. UNITS.

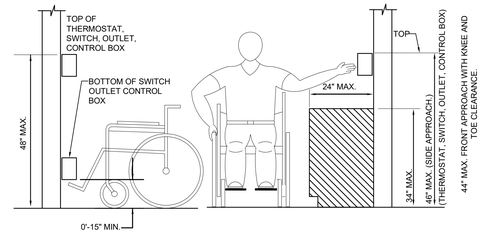
2 REMOVE EXISTING P-TRAP AND ALL CONDENSATE DRAIN PIPING ON ROOF.

CONSTRUCTION KEYNOTES:

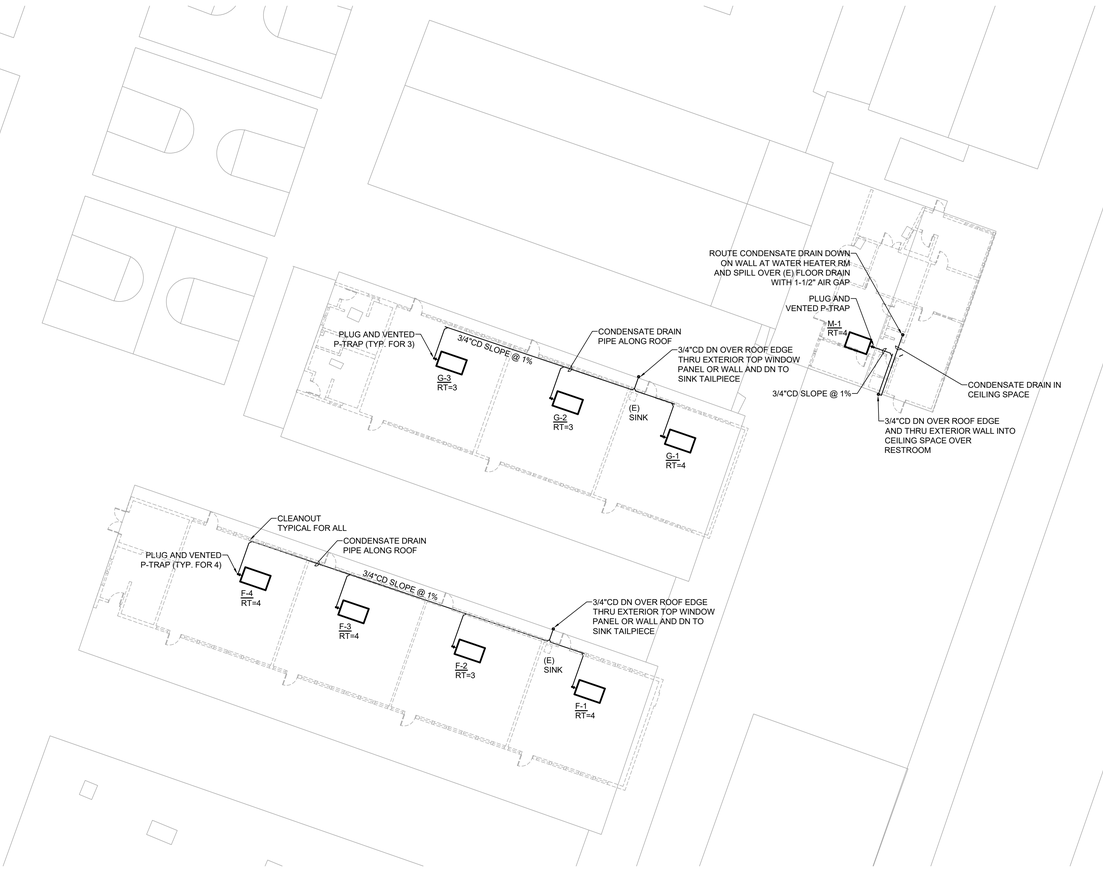
1 POINT OF CONNECTION AT NEW MECH. UNIT ON ROOF. TYPICAL FOR 4 MECH. UNITS.

2 PROVIDE NEW 3/4"CD CONNECTION TO NEW MECH. UNIT ON ROOF. SEE MECH. DRAWINGS FOR MECH. UNIT LOCATION.

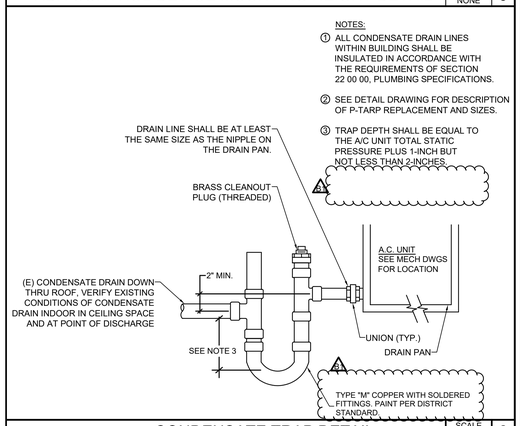
3 PROVIDE NEW 3/4"CD PLUG & VENTED P-TRAP. SEE DETAIL NUMBER FOR ON THIS SHEET.



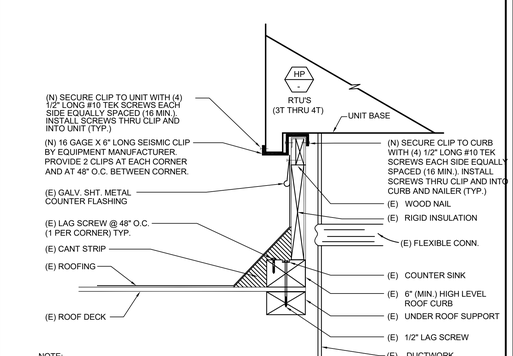
ADA CONTROL DEVICE MOUNTING HEIGHT DETAIL — SCALE NONE — 3



SITE / ROOF - CONDENSATE DRAIN REPLACEMENT FOR BUILDING A, F AND G MECHANICAL UNITS — SCALE NONE — 5



CONDENSATE TRAP DETAIL — SCALE NONE — 2



NOTE:
1. CURB SHALL BE MINIMUM 8" ABOVE FINISHED ROOF.
2. COORDINATE WITH EOR FOR FIELD CHANGES OR ANY DISCREPANCIES OCCUR BETWEEN THIS DETAIL AND EXISTING CONDITIONS.

ROOFTOP HP UNIT MOUNTING W/ (E) CURB — SCALE NONE — 1

optimum energy design
Consulting Engineers
5200 E. La Palma Ave
Anaheim, CA 92807
Telephone (714) 693-2277

STAMP

REGISTERED PROFESSIONAL ENGINEER ABBY "BAKEVIEW" MECHANICAL No. M29253 Exp. 6/30/27 STATE OF CALIFORNIA

PROJECT NAME:

MARK TWAIN ELEMENTARY SCHOOL
12315 THROSON AVE,
LYNWOOD, CA 90262

No.	Rev. Date	Description
1	04/13/2026	BID ADD 1

JOB NO:	501-26-0015
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DRAWN:	VZ
CHECK:	ZF
ARCHITECT:	
ENGINEER:	OED

CONSULTANT

STAMP

SHEET DESCRIPTION:

MECHANICAL DETAILS

SHEET NO:

M-0.3 ADD01

5. PRODUCT CUT SHEETS



Carrier

ClimaVision

MyStat v2 IAQ

Part # 7C-TS-C4K-C2

A Smart, Simple Way To Deliver Zone And Two-stage Equipment Control with IAQ

The ClimaVision MyStat v2 IAQ is a compact smart thermostat designed for versatile HVAC control across offices, retail, healthcare, places of worship, restaurants, schools, and hospitality settings. Engineered for multi-unit environments where balancing occupant comfort and operational cost is essential, it provides reliable control and flexibility for up to five outputs. The MyStat v2 IAQ provides the necessary control for a variety of single-zone equipment. A core component of the Carrier ClimaVision ecosystem, MyStat v2 IAQ balances an approachable design with energy-saving automation to enable maximum adaptability.

Features and Benefits

Flexible Equipment Control: Supports a variety of single-zone equipment with (3) dedicated relay outputs and (2) universal outputs that can be configured to meet various equipment configurations as relays or analog outputs.

Enhanced Connectivity: As a native part of the ClimaVision ecosystem, it delivers rapid Commissioning via Bluetooth pairing and communicates with the Central Control Unit (CCU) over a secure 900 MHz wireless mesh network.

Versatile Wired Options: Provides wired RS485 communication for integration to building automation systems via Modbus and BACnet (Client/Server mode coming soon).

Wireless ClimaVision Sensor Support: Equipped with Bluetooth LE for connecting to other BLE sensors like the Wireless Door/Window Sensor or the Wireless Multi Sensor. Up to 7 wireless sensors can be paired to a single zone device.

Advanced IAQ Sensing: Features onboard sensors for temperature, humidity, occupancy, and CO2 sensing for enhanced indoor air quality monitoring.

Retrofit-Friendly Wiring: Includes onboard circuitry to support wire savers, designed to eliminate the need for new cabling or C-wires in existing installations.

Comprehensive I/O Support: Features (1) universal input that can be configured for a variety of sensors including thermistors and dry contact inputs.

Intuitive Interface: Features a 1.8" TFT LCD display with illuminating user buttons for a functional and approachable user experience.

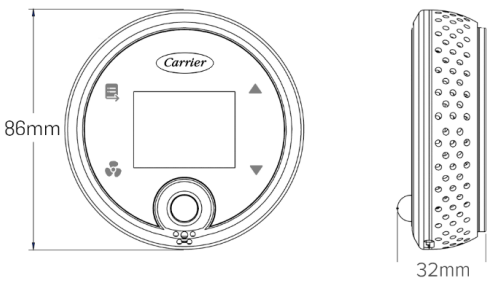
Future-Proof Maintenance: Supports over-the-air (OTA) firmware updates through the ClimaVision CCU to maintain system security and feature parity.



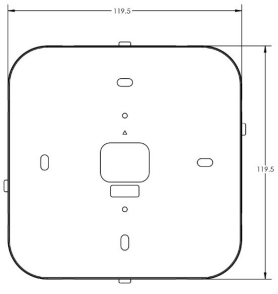
ClimaVision MyStat v2 IAQ (7C-TS-C4K-C2)

Specification	
Compatible Equipment	Rooftop Package Unit, Heat Pump Unit, PTAC Units, 2 Pipe Fan Coil Unit, and 4 Pipe Fan Coil Unit
Screen	LCD, 1.8”
Temperature	Operating range between 32°F – 122°F (0 – 50°C); typical accuracy of +/- 1 °F or 0.5°C
Humidity	Sensing range between 0 to 100% RH; Typical accuracy of +/- 2% RH
Occupancy	Passive Infra Red (PIR) with detection range of 4m with 110 -degree angle
CO2* (Different part number)	400 - 5000ppm ± 50ppm accuracy± 2.5% measured value up to 400 - 1000ppm ± 50ppm accuracy ± 3% measured value up to 1001 - 2000 ppm
Power	24V AC/DC (+/-15%) with nominal power consumption of less than 0.3W
Bluetooth	Bluetooth (BLE 5.1) for commissioning, location analysis or communication to wireless sensors
Wireless Mesh	906-924 MHz IEEE 802.15.4-compliant for communication to CCU 868.3MHz IEEE 802.15.4-compliant for EU region
Wired	Industry standard RS485 for Modbus or BACnet (coming soon)
Inputs	(1) Universal input which can accept Thermistor (NTC 10K Type 2), 0-10VDC, or Dry Contact. (Can be configured as: Discharge Air Temp, Generic Alarm (N/O or N/C), Key Card Sensor, or Door/Window Sensor (N/C or AI), or Fan Run Status (N/O or N/C)
Outputs	(3) Digital/Relay outputs rated at 0.3A, 120V ac or 1.0A, 24 V ac/dc resistive load (2) Universal outputs configurable as Relay (0.3A, 120V ac or 1.0A, 24 V ac/dc resistive load) or 0-10 VDC
Trim Plate Dimensions	4.84 inches” x 4.84 inches” (123 mm x 123 mm)
Dimensions	3-3/8” Diameter x 1-1/4” Depth | 86mm Diameter x 32mm Depth

Product Dimensions



Trim Plate Dimensions



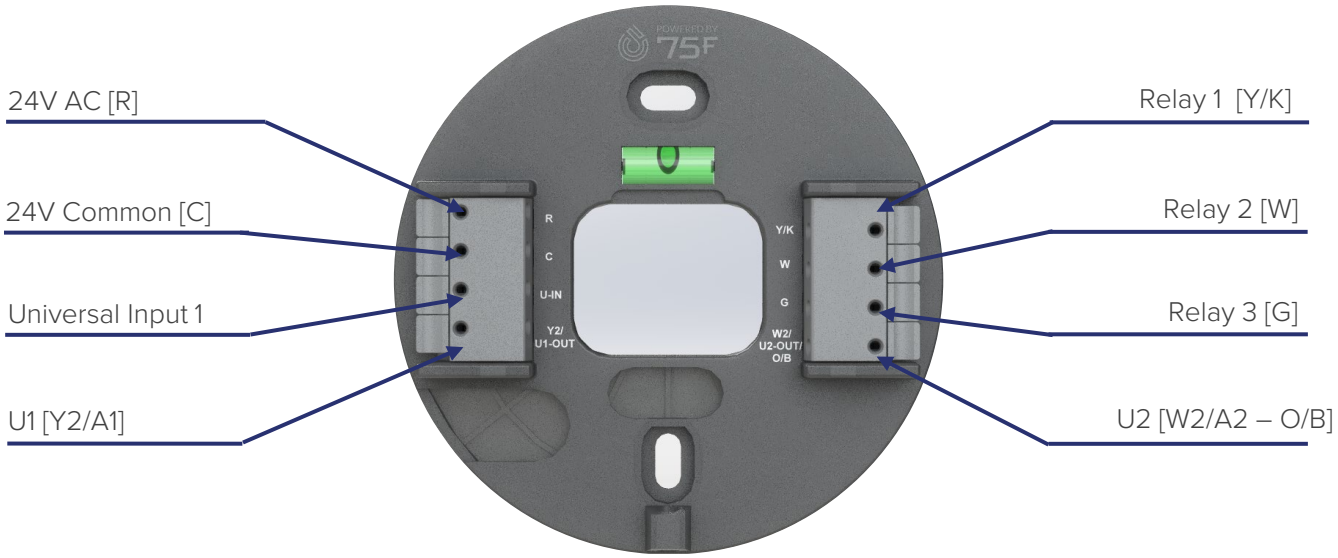
ClimaVision MyStat v2 IAQ (7C-TS-C4K-C2)

Configurations

The MyStat v2 IAQ v2 provides a highly flexible hardware footprint to accommodate diverse mechanical needs:

Configuration Type	Dedicated Relays (3)	Universal Outputs (2)	Total Control Points
Standard 5-Relay	3 Stages (Heat/Cool/Fan)	2 Additional Relays	5 Relays
Mixed Mode	3 Stages (Heat/Cool/Fan)	2 Analog (0-10V)	3 Relays / 2 Analog
Hybrid Staging	3 Stages (Heat/Cool/Fan)	1 Relay / 1 Analog	4 Relays / 1 Analog

Inputs/Outputs (on base plate)



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ClimaVision Central Control Unit XR

A powerful wall-mounted system manager that provides in-depth, real-time insight and control.



CCU XR | Part # 7C-CC-K10K-IA

- Local User Interface to system
  - View space temperatures and equipment operating conditions
  - Make scheduling and setpoint adjustments
  - Color coding of alerts for ease of management
- Wi-Fi Gateway to Cloud
- Wireless Commissioning Tool
- VVT/VAV Air Source Equipment Controller
- Gateway to third-party devices (like energy meters) or BAS

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ClimaVision Central Control Unit XR

What do you get when you combine a state-of-the-art control supervisor and an applied equipment controller? Answer: the ClimaVision Central Control Unit XR (CCU XR), a removable wall-mounted tablet, on-site user interface for building management, and gateway to the ClimaVision cloud.

Customers appreciate real-time data visualization, zone and equipment-specific performance and status. The elegant and modern design allows the tablet to snap easily and securely into place to the control mote with a spring-based locking slider.

With the CCU XR, get all the features of the base CCU with faster processing speeds, more memory, more inputs, and a drop-proof design.

CCU XR



Part # 7C-CC-K10K-IA

OVERVIEW

The Central Control Unit (CCU XR) is a wall-mounted communication gateway. It connects ClimaVision terminal devices via the local 900 MHz wireless mesh network and connects to Modbus devices via RS485. The data it collects from these devices is then sent to the ClimaVision cloud with a Wi-Fi or LAN connection.

The CCU also acts as a zoned RTU/AHU controller. It aggregates all the terminal zone data to make more informed decisions about how control the air source for optimal comfort and energy savings.

KEY FEATURES

- Controls air sources for VVT and VAV systems.
- The CCU XR can support up to 48 terminal equipment modules for each system.
- Proactive, predictive control in conjunction with Carrier cloud servers; operates connected to the ClimaVision cloud or standalone without an internet connection.
- Acts as a gateway to third-party devices and building automation systems via BACnet or Modbus.
- Intuitive 8” Android-based user interface
- Strong, permanent magnets and metal locking tabs help with feel and secure alignment
- Capable of handling Edge AI algorithm for fast response

ADDITIONAL FEATURES

- Easy mobile pairing, configuration and settings setup
- Status of zones and ability to adjust parameters
- Schedule and setpoint adjustments
- Alerts with severity color coding

COMPATIBLE APPLICATIONS

- VVT (Air source + system management)
- VAV (Air source + system management)
- Outside Air Optimization (Economizer) with Smart Node
- VVT Bypass Control Director

INCLUDED

CCU XR
(7C-CC-K10K-IA)



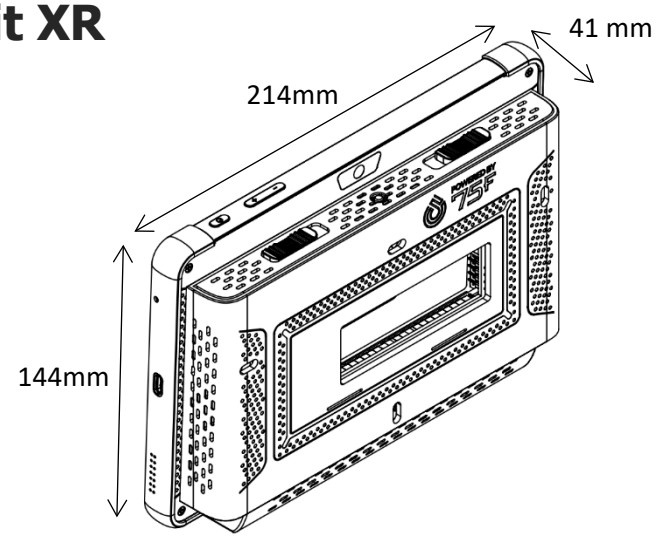
CCU-XR Tablet
(7C-CC-C9K-X)
For replacement



Control Mote Board
(7C-CC-C11K-IA)
For replacement

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ClimaVision Central Control Unit XR



MECHANICAL

Dimensions	8.4" x 5.7" x 1.6" (214 mm x 144 mm x 41 mm)
Mounting	(2) #8 screws over standard electrical junction box
Screen	8" display, 1280 x 800
Operating Temp	32°F to 122°F (0°C to 50°C)
Termination	Common Pogo Pin termination for USB port and +5V DC power
Microprocessor	Processor 8 core (4 high performance + 4 low power)
HVAC Control	Up to 5 stages of heating/cooling, up to 5 fan stages, 0-10V modulating output for heating/cooling valves (no VFD), and a dehumidifier or humidifier

I/O

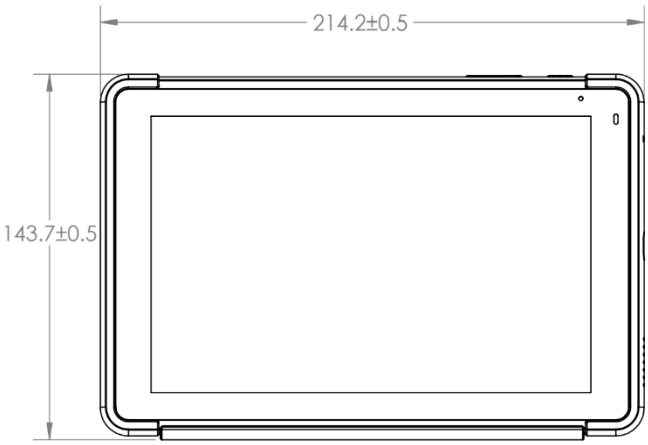
Inputs	A. (2) 0-10V analog inputs B. (4) 10k thermistor inputs
Outputs	C. (4) 0-10V or 4-20V mA analog outputs D. (7) 110V@0.3A to 24V@1A relays

ELECTRICAL

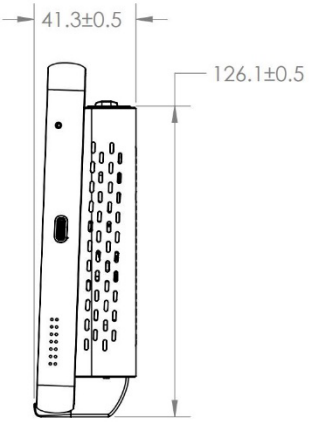
Supply	24V AC/DC +/- 15% | 5 VA (typical), 10 VA (max)
Battery	3.7V, 2400mAH, Lithium Polymer

COMMUNICATIONS

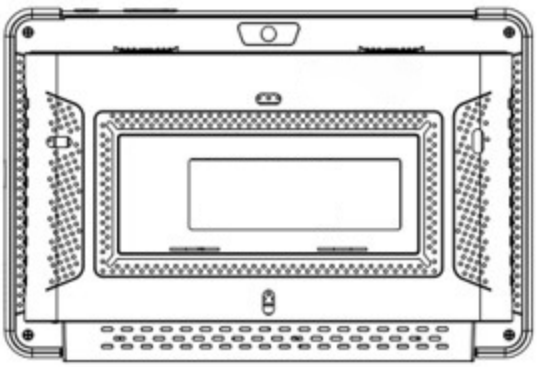
Bluetooth	2.4 GHz; used for pairing ClimaVision devices
Mesh	900 MHz IEEE 802.15.4-compliant; used for device communication on mesh network
Wired	3-wire sensor bus to ClimaVision communicating sensors (Molex connector) 4-wire RS-485 port for wired communication to controllers Ethernet port to connect to a private network or the internet. Also supports BACnet/IP for integration. USB-A port for integration to 3rd-party devices (requires USB-A to 3-pin terminal adapter)
Wi-Fi	Wi-Fi to connect to internet



Front view



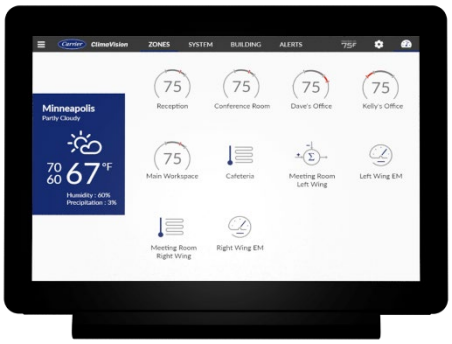
Side view


Back view

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ClimaVision Central Control Unit XR

This page highlights the differences between the CCU and the CCU XR

CCU		CCU XR
		
Standard Android Tablet Typical Android tablet construction, no protective case 8" display, 1200x800 resolution	**Case**	**Extra-Rugged** Scratch-resistant screen Drop proof from the top of a ladder 8” display, 1280 x 800 resolution
Quad-core Cortex – Fair computational power Suitable for everyday tasks; not capable of intensive AI tasks	**Core**	**Eight-core Processor (**Quad Cortex-A76 + Quad Cortex-A55**)** Up to 10x faster processing speeds. Capable of edge AI inference and running demanding tasks efficiently
2GB System Memory and 16GB Storage Flash. Connect up to 35 devices	**Capacity**	4GB System Memory and 32GB Storage Flash. Connect up to 48 devices
Standard (2) 0-10V analog inputs (2) 10k thermistor inputs (4) 0-10V analog outputs (7) 1A relays	**I/O**	**Advanced** (2) 0–10V analog inputs (4) 10k thermistor inputs (7) 1A relays (4) analog outputs 10/100 Ethernet port No tool connectors
Not Compatible Not designed for heavy computation, making this model unsuitable for intensive tasks like AI training	**AI Inference**	**Training in Edge Scenarios** Runs pre-trained AI models and inference on edge scenarios — linear regression, decision trees, or neural networks

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