



*Quality People. Building Solutions.*

Comfort Systems USA (Arkansas), Inc.  
P.O. Box 16620  
Little Rock, AR 72231  
Phone 501-834-3320  
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**Date:** 4/9/2024

**Return Request:** 4/19/2024

**Project:** LRAFB – Dorm 854 Renovation

**Supplier:** Trane

**Manufacturer:** Trane

**Submittal:** Electric Unit Heaters

**Submittal Number:** 23 00 00-02

**Drawing # and Installation:** Mechanical Drawings

**ARCHITECT**

**ENGINEER**

EECI  
10 Corporate Hill Dr. Suite 100  
Little Rock, AR 72205  
501-244-0511

**GENERAL CONTRACTOR**

HGL Construction  
P.O. Box 1035  
Jacksonville, AR 72099  
501-983-1160

**MECHANICAL SUBCONTRACTOR**

Comfort Systems USA (Arkansas), Inc.  
9924 Landers Rd.  
N. Little Rock, AR 72117  
501-834-3320

Notes:

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|  |
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**CSUSA PROJECT NO.**

**24-7031**

**[joseph@comfortar.com](mailto:joseph@comfortar.com)**

9924 Landers Rd.  
No. Little Rock, AR 72117



# Unit Heater Submittal

**Prepared For:**  
Energy Engineering Consultants, Inc.

**Date:** April 02, 2024

**Sold To:**  
Comfort Systems USA (AR), Inc

**Job Name:**  
LRAFB B854 Dorm Renovation

Trane U.S. Inc. is pleased to provide the following submittal for your review and approval.

## Product Summary

| Qty | Product                      |
|-----|------------------------------|
| 3   | 3.3 KW Electric Unit Heaters |

## Equipment Submitted Based on Plans Dated 29 FEB, 2024

### Submittal Notes:

- Wall Mounted Stratification Thermostat Line Voltage Single Pole (Field Installed)
- Mounting Bracket - Horizontal Discharge (Field Installed)
- 208V / 1 Ph

**Exclusions:** Startup, labor warranty, installation, wiring, rigging, any kind of vibration isolation, seismic isolation, BAS interface/controller, and any other item not specified above.

### Austin Johnson

Project Manager, Equipment  
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### Clayton Kinley

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The attached information describes the equipment we propose to furnish for this project and is submitted for your approval.

*Submittal acceptance and return is a critical step, so please ensure submittals are returned with approval to release to production within **14 days** of submittal date.*

Product performance and submittal data is valid for a period of 6 months from the date of submittal generation. If six months or more has elapsed between submittal generation and equipment release, the product performance and submittal data will need to be verified. It is the customer's responsibility to obtain such verification.

**Tag Data - Electric Unit Heaters (Qty: 3)**

| Item | Tag(s)                 | Qty | Description                  | Model Number |
|------|------------------------|-----|------------------------------|--------------|
| A1   | UH-1,<br>UH-2,<br>UH-3 | 3   | Electric Unit Heaters (UHEC) | UHEC031AACA  |

**Product Data - Electric Unit Heaters****Item: A1 Qty: 3 Tag(s): UH-1, UH-2, UH-3**

Electric Unit Heater

3.3 kW Unit Capacity

1 Phase 60 Cycle

208 Volt Element and Motor

24 Volt Control Transformer

Contactor

Wall Mounted Stratification Thermostat Line Voltage Single Pole (Field Installed)

Mounting Bracket - Horizontal Discharge (Field Installed)

**Product Report - Electric Unit Heaters****Item: A1 Qty: 3 Tag(s): UH-1, UH-2, UH-3**

Job Name: LRAFB B854 Dorm Renovation  
Project Name: Trane Heater Submittal  
Unit Name: UHEC  
Result Name: UH-1

**Base Unit Module**

|                                 |                                     |                                  |                                         |
|---------------------------------|-------------------------------------|----------------------------------|-----------------------------------------|
| Unit Type                       | Electric Unit Heater                | Design Sequence                  | Design Sequence                         |
| Contactor                       | Contactor                           | Wall Mounted Thermostats         | Stratification Line Volt Wall T-Stat    |
| Disconnect Switch Options       | No Disconnects                      | Horiz. & Vert. Mounting Brackets | Mounting Bracket - Horizontal Discharge |
| Separator for Unit Model Number | Separator for AOS Unit Model Number | Development Sequence             | Development Sequence                    |
| Unit Capacity                   | 3.3 kW Unit Capacity                | Element Phase                    | 1 Phase 60 Cycle                        |
| Element and Motor Voltage       | 208 Volt Element and Motor          | 24 Volt Control Transformer      | 24 Volt Control Transformer             |
| Ship Cycle                      | Production Unit                     |                                  |                                         |

**Mechanical Specifications - Electric Unit Heaters****Item: A1 Qty: 3 Tag(s): UH-1, UH-2, UH-3****General - Propeller Type**

Heaters designed for a single circuit, with elements, motor, and control circuits subdivided with factory wired fuses to conform to the National Electric Code and Underwriter's Laboratory, Inc. Standard 1025. All three-phase heaters have balanced phases. All heaters equipped with auto reset thermal overloads which shutdown the element and motor if safe operating temperatures are exceeded. Element, motor and transformer primary fusing are factory installed and wired where required by NEC. Branch circuit fusing installed where required (48 amps and up). Control contactors and control circuit transformers where required are factory installed and wired. Only direct line supply and thermostat connections in the field are required. Built-in fan override provided to purge unit casing of excess heat after unit shutdown. The units are listed with ETL.

Heaters installed and wired in accordance with the manufacturers recommendations and applicable national and local codes. Casings fabricated of die-formed, heavy-gauge steel and finished in high gloss, baked enamel. Supply air drawn through a stamped louver periphery evenly across the heating element, and discharged through an outward drawn venturi. Adjustable discharge louvers provided to control the direction of airflow. A large hinged access door extends the width of the heater and locked in position by quarter-turn fasteners. Heater and supply wiring diagram permanently attached to the inside of the access door. Elements are high mass, all steel tubular finned type, copper brazed. Centrally located and installed in fixed element banks. Motors totally enclosed, all angle industrial rated. Fan blades are axial flow-type designed for quiet efficient operation. Fan speed does not exceed 1600 rpm [26.7 rps.].

Units are to be free from defective material and workmanship for a period of 1 year with the exception of the heating elements which have a 5 year warranty.

**Wall Mounted Thermostat - Heavy-Duty Hydraulic Type**

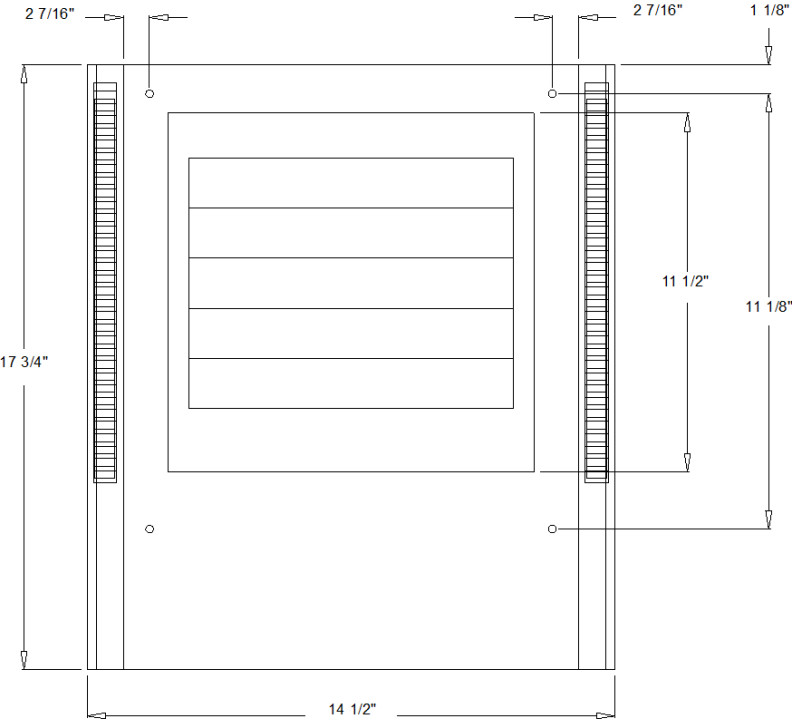
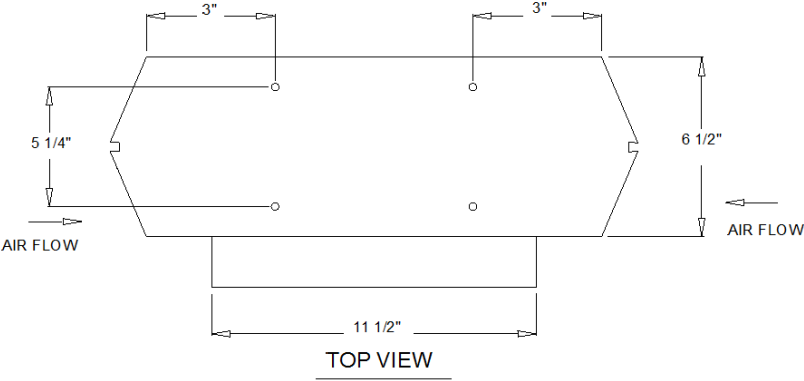
Thermostat range 45 F [7 C] to 90 F [32 C].

**Bearings**

Units utilize sealed bearings to insure permanent lubrication.

Dimensional Drawings - Electric Unit Heaters  
Item: A1 Qty: 3 Tag(s): UH-1, UH-2, UH-3

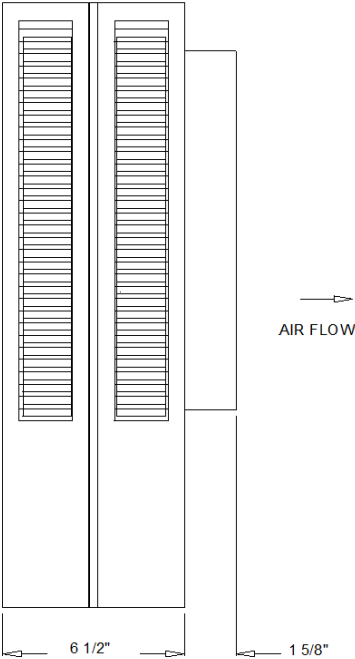
HORIZONTAL MOUNTING  
MOUNTING BRACKET: A5105/B5105  
MOUNTING BRACKET WEIGHT: 11.0 lb  
MINIMUM DISTANCE:  
-CEILING TO UNIT: 12"  
-ADJACENT SURFACE TO UNIT: 12"  
-FLOOR TO UNIT: 84"



FRONT VIEW

| UHEC-031AACA                      |             |
|-----------------------------------|-------------|
| UNIT NET WEIGHT                   | 25.0 lb     |
| CAPACITY - KW                     | 3.3 kW      |
| CAPACITY - BTU/HR                 | 11.2 BTU/hr |
| ELEMENT/MOTOR VOLTAGE             | 208         |
| ELEMENT PHASE                     | 1           |
| STD CONTROL VOLTAGE               | 24          |
| MAX AMP RATING (A)                | 15.9        |
| MIN CIRCUIT FUSE SIZE             | 20A         |
| SUPPLY WIRE GAUGE (60C)           | 12GA        |
| MOTOR HP                          | 1/125       |
| MOTOR RPM                         | 1550        |
| AIRFLOW AT OUTLET                 | 400.0 cfm   |
| APPROX AIR RISE AT OUTLET         | 26.0 F      |
| HORIZONTAL AIR THROW              | 12 FT       |
| REC MAX MOUNT HEIGHT (HORIZONTAL) | 9 FT        |
| REC MAX MOUNT HEIGHT (VERTICAL)   | 9 FT        |

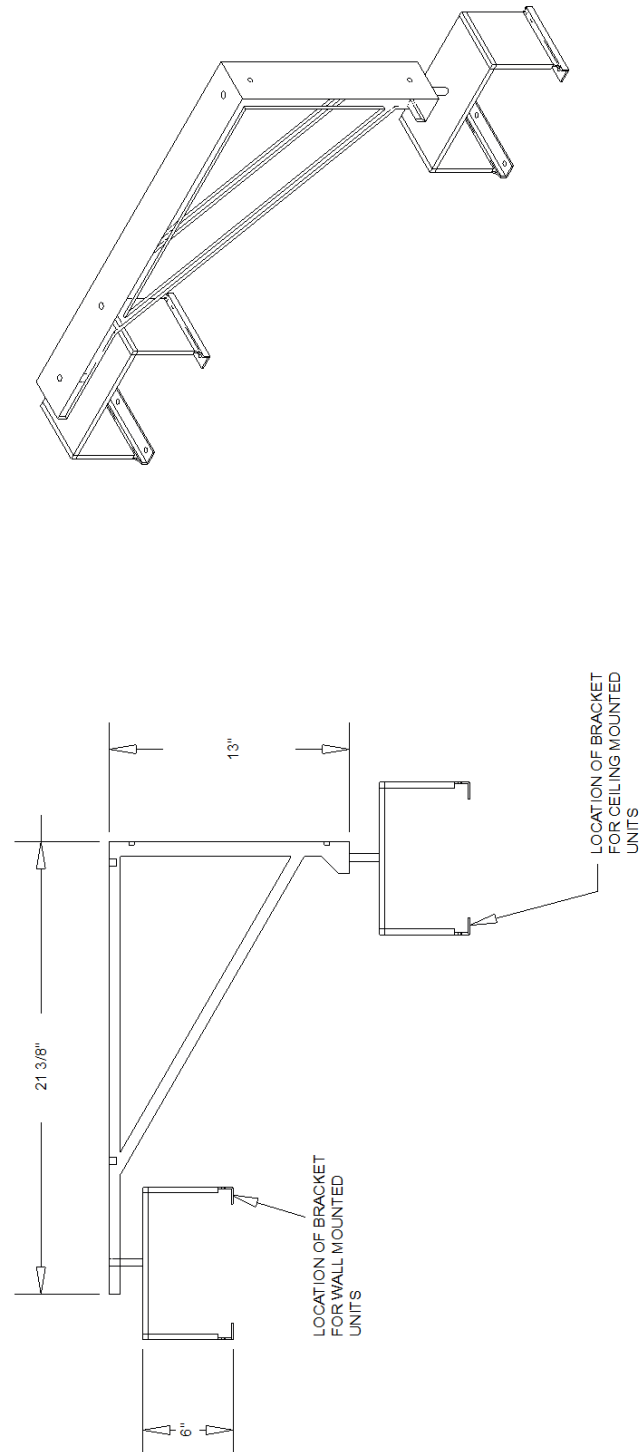
\*AMP RATING FOR 3-PHASE OPERATION



SIDE VIEW

**Weight, Clearance & Rigging - Electric Unit Heaters****Item: A1 Qty: 3 Tag(s): UH-1, UH-2, UH-3**

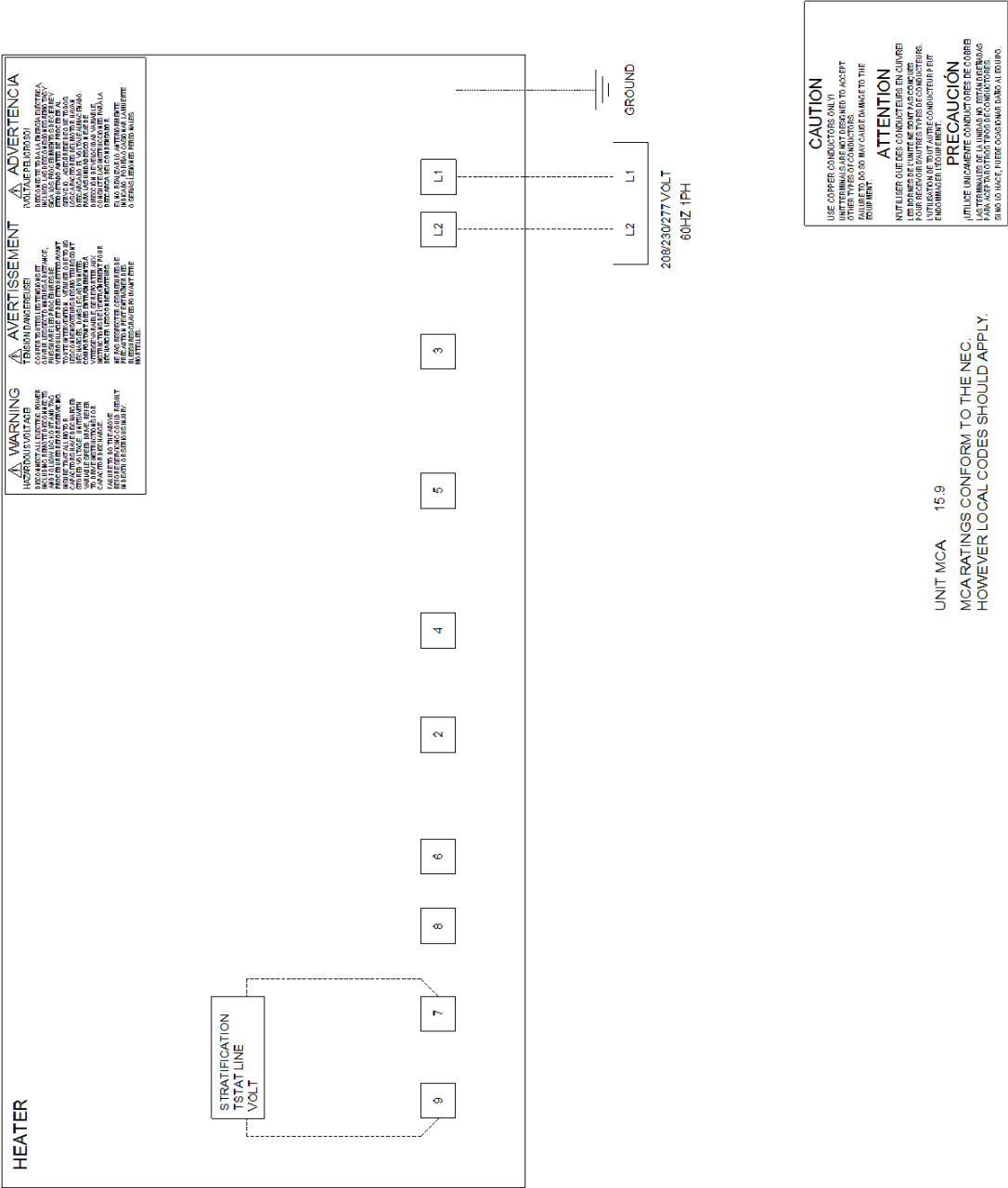
HORIZONTAL DISCHARGE BRACKET



ISOMETRIC VIEW

SIDE VIEW

Field Wiring - Electric Unit Heaters  
Item: A1 Qty: 3 Tag(s): UH-1, UH-2, UH-3





**Field Installed Options - Part/Order Number Summary**

This is a report to help you locate field installed options that arrive at the jobsite. This report provides part or order numbers for each field installed option, and references it to a specific product tag. It is NOT intended as a bill of material for the job.

**Product Family - Electric Unit Heaters**

| Item | Tag(s)                 | Qty | Description                  | Model Number |
|------|------------------------|-----|------------------------------|--------------|
| A1   | UH-1,<br>UH-2,<br>UH-3 | 3   | Electric Unit Heaters (UHEC) | UHEC031AACA  |

| Field Installed Option Description                              | Part/Ordering Number |
|-----------------------------------------------------------------|----------------------|
| Wall Mounted Stratification Thermostat Line Voltage Single Pole | 0236-0718-00-00      |
| Mounting Bracket - Horizontal Discharge                         | 0236-0723-00-00      |