

# *UH Series Horizontal Fan Forced Unit Heater*

## **CABINET:**

Cabinet shall be fabricated of die formed heavy gauge welded steel and finished with durable powder coated paint. An internal shroud is provided around the heating element to ensure uniform airflow delivery across the entire face of heating elements. The enclosed motor and fan are isolated to minimize vibration and noise level. The control compartment is provided with a hinged and latched access door for easy installation and maintenance.

## **ELEMENTS:**

Elements are all steel tubes with highest quality Nickel-Chromium resistance wire embedded in compacted efficient dielectric to ensure proper heat transfer. Steel helical fins are machine crimped and brazed to steel tube for effective transfer of heat.

## **MOTOR:**

Motors shall be totally enclosed, all angle industrial rated. Motor is single phase with voltage rating same as heater primary voltage. Single speed permanently lubricated thermally protected motors with unit bearings on 3-10 KW units. Two speed thermally protected motors with sleeve bearings on 12.5 – 48 KW units. Sleeve bearing motors are lubricated for 5 years continuous or 10-year intermittent use.

## **WIRING:**

Heaters shall be designed for a single circuit with elements, motor and control circuits wired in accordance with the latest national electric code or applicable local codes and ETL listed complying with UL Standard 2021. All three-phase heaters shall have balanced equal phases.

## **LIMIT CONTROLS:**

All units shall have built in automatic reset thermal cutouts to shut down motor and elements if safe operating temperatures are exceeded. Fan purge to dissipate residual heat from elements on heater shut down is a factory-installed option.

## **CONTROLS:**

Contactors and control circuit transformers, where required, are factory installed and wired. Single stage control on 3-20 KW units. 25 KW through 48 KW unit can be operated as 2 stage. Control options (Field installed).

- Disconnect switch – disconnects all ungrounded connections
- Thermostat – wall mounted or unit mounted

## **MOUNTING:**

Unit Heaters can be mounted with the motor shaft from horizontal to downward at 45° off horizontal. Pre-drilled holes and installed threaded nuts provided to allow hanging by threaded rods - 1/4" for units up to 15 KW and 5/16" for 20 KW units and larger. Optional wall / ceiling mounting brackets are available for all units. The louver assembly can be rotated 90 degrees to direct airflow in any direction.

# UH Series Horizontal Fan Forced Unit Heater

## SUBMITTAL DATA, UH SERIES

|       |         |          |      |
|-------|---------|----------|------|
| AGENT | PROJECT | ENGINEER | DATE |
|       |         |          |      |

|                  |  |  |  |  |  |
|------------------|--|--|--|--|--|
| TAG              |  |  |  |  |  |
| QTY.             |  |  |  |  |  |
| MODEL NUMBER     |  |  |  |  |  |
| VOLTS / PHASE    |  |  |  |  |  |
| KW               |  |  |  |  |  |
| THERMOSTAT       |  |  |  |  |  |
| CONTROL OPTIONS  |  |  |  |  |  |
| MOUNTING BRACKET |  |  |  |  |  |
| NOTES            |  |  |  |  |  |
|                  |  |  |  |  |  |
|                  |  |  |  |  |  |



| FIELD INSTALLED ACCESSORIES |         |   |
|-----------------------------|---------|---|
| UPC#                        | MODEL   | DESCRIPTION                                   |
| 686334                      |         |   |
| 646239                      | DCS303  | 30 Amp Disconnect Kit                         |
| 646246                      | DCS403  | 40 Amp Disconnect Kit                         |
| 646253                      | DCS803  | 80 Amp Disconnect Kit                         |
| 646260                      | DCS1003 | 100 Amp Disconnect Kit                        |
| 687997                      | TUH1    | 25 Amp SPST Thermostat Kit                    |
| 699105                      | UHB-1   | wall / ceiling bracket - 3.3 KW - 15 KW units |
| 699112                      | UHB-3   | wall / ceiling bracket - 20 KW - 30 KW units  |
| 699129                      | UHB-4   | wall / ceiling bracket - 35 KW - 48 KW units  |

**NOTE:** Factory installed heat purge fan delay option (F) requires unit to have CA1 or CA2 factory installed

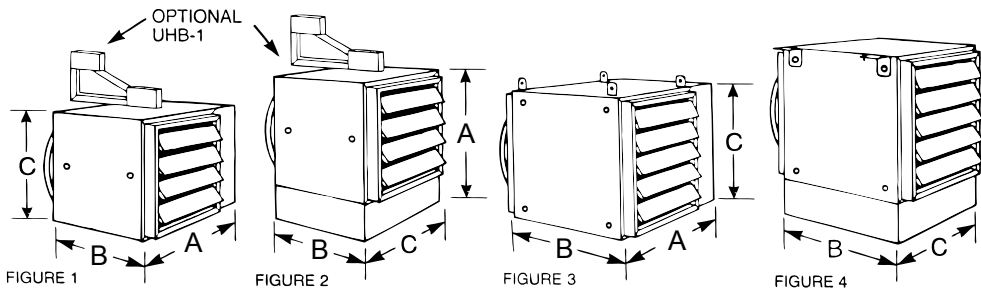


FIGURE 1 3.3 KW THROUGH 15 KW UNIT HEATERS

FIGURE 2 20 KW THROUGH 48 KW UNIT HEATERS

| Dimensions                             | A   | B   | C   |
|--|-----|-----|-----|
| <b>Figure 1:</b><br>3.3, 5, 7.5, 10 KW | 20" | 11" | 13" |
| <b>Figure 2:</b><br>12.5, 15 KW        | 22" | 11" | 15" |
| <b>Figure 3:</b><br>20, 25, 30 KW      | 24" | 17" | 17" |
| <b>Figure 4:</b><br>40, 48 KW          | 26" | 23" | 19" |

Figures 3 & 4 shown with standard mounting tabs for units over 20 KW. Optional UHB-3 and UHB-4 wall brackets are available. 3.3 KW thru 15 KW units can be mounted using 1/4" threaded rod. 20 KW thru 48 KW units can be mounted using 5/16" threaded rod.