

# UH Series Horizontal Fan Forced Unit Heater

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## HOW TO DESIGNATE A MODEL:

| H             |                | 2             | H            | UH         | 10             | C            | A                   | 1 |
|---------------|----------------|---------------|--------------|------------|----------------|--------------|---------------------|---|
| Element Volts | Phase          | Motor Voltage | Model Series | Element KW | Control System | Transformer  | Control Volts       |   |
| F = 208       | 1 = 1-Phase    | F = 208       | UH           |            | O = None       | O = None     | 1 = 24              |   |
| H = 240       | 2 = 1 or 3-Ph. | H = 240       |              |            | C = Contactor  | A = Included | 2 = 120             |   |
| HF = 240/208  | 3 = 3-Phase    | B = 240 / 208 |              |            | R = Relay      |              | 3 = Element Voltage |   |
| G = 277       |                | G = 277       |              |            |                |              | 4 = 240             |   |
| P = 480       |                | P = 480       |              |            |                |              |                     |   |

Factory Installed Options (use as a suffix on model designation):

S = Summer Fan Switch, F = Fan Delay, D = Disconnect, T = Built-in Thermostat, E = Epoxy Coated

Field Installed Options:

Disconnect Switch, Built-in Thermostat, & Wall / Ceiling Bracket

## Standard Product Models

| MFG CATALOG NUMBER | MFG MODEL NUMBER | KW       | BTUs   | VOLTS  | PH          | AMPS        | CONTROL VOLTS | TEMP RISE F | AIR THROW | CFM  | RECOM'D MOUNTING HT. | WT. (LBS) |
|--------------------|------------------|----------|--------|--------|-------------|-------------|---------------|-------------|-----------|------|----------------------|-----------|
| 06446002           | F1FUH03003       | 3.3      | 11200  | 208    | 1           | 15.9        | 208           | 26          | 26'       | 400  | 9'                   | 36        |
| 06446602           | H1HUH03003       |          |        | 240    | 1           | 13.8        | 240           |             |           |      |                      |           |
| 06447202           | G1GUH03003       |          |        | 277    | 1           | 11.9        | 277           |             |           |      |                      |           |
| 07114802           | H3HUH03C03       |          |        | 240    | 3           | 7.9         | 240           |             |           |      |                      |           |
| 07114902           | F3FUH03C03       |          |        | 208    | 3           | 9.2         | 208           |             |           |      |                      |           |
| 07114002           | P3PUH03CA1       |          |        | 480    | 3           | 4           | 24            |             |           |      |                      |           |
| 06446102           | F1FUH05003       | 5        | 17100  | 208    | 1           | 24.1        | 208           | 40          | 26'       | 400  | 9'                   | 36        |
| 06446702           | H1HUH05003       |          |        | 240    | 1           | 20.8        | 240           |             |           |      |                      |           |
| 06447302           | G1GUH05003       |          |        | 277    | 1           | 18.1        | 277           |             |           |      |                      |           |
| 06449302           | F2FUH05C03       |          |        | 208    | 1 or 3      | 24.1 / 14.0 | 208           |             |           |      |                      | 44        |
| 06449402           | H2HUH05C03       |          |        | 240    | 1 or 3      | 20.8 / 12.1 | 240           |             |           |      |                      |           |
| 06448802           | P3PUH05CA1       |          |        | 480    | 3           | 6.1         | 24            |             |           |      |                      |           |
| 07180502           | F1FUH07CA1       | 7.5      | 25600  | 208    | 1           | 36.1        | 24            | 42          | 36'       | 575  | 9'                   | 40        |
| 07173702           | H1HUH07CA1       |          |        | 240    | 1           | 31.3        | 24            |             |           |      |                      | 41        |
| 07151802           | G1GUH07CA1       |          |        | 277    | 1           | 27.1        | 24            |             |           |      |                      | 41        |
| 06447902           | F3FUH07C03       |          |        | 208    | 3           | 20.8        | 208           |             |           |      |                      | 44        |
| 06449502           | H2HUH07C03       |          |        | 240    | 1 or 3      | 31.3 / 18.1 | 240           |             |           |      |                      |           |
| 06448902           | P3PUH07CA1       |          |        | 480    | 3           | 9.1         | 24            |             |           |      |                      |           |
| 07170902           | F1FUH10CA1       | 10.0     | 34100  | 208    | 1           | 48.1        | 24            | 55          | 36'       | 575  | 9'                   | 42        |
| 06808402           | H1HUH10CA1       |          |        | 240    | 1           | 41.7        | 24            |             |           |      |                      |           |
| 07173802           | G1GUH10CA1       |          |        | 277    | 1           | 36.1        | 24            |             |           |      |                      |           |
| 06449602           | F2FUH10C03       |          |        | 208    | 1 or 3      | 48.1 / 27.8 | 208           |             |           |      |                      |           |
| 06449702           | HF2BUH10C03      | 10 / 7.5 | 34100  | 240    | 1 or 3      | 41.7 / 24.1 | 240           | 55          | 36'       | 575  | 9'                   | 45        |
|                    |                  | 25600    | 208    | 1 or 3 | 36.1 / 20.8 | 208         | 42            | 51          |           |      |                      |           |
| 07114202           | P3PUH10CA1       | 10.0     | 34100  | 480    | 3           | 12.1        | 24            | 55          |           |      |                      |           |
| 06446402           | F1FUH12C03       | 12.5     | 42600  | 208    | 1           | 60.1        | 208           | 49          | 45'       | 800  | 10'                  | 45        |
| 06447002           | H1HUH12C03       |          |        | 240    | 1           | 52.1        | 240           |             |           |      |                      |           |
| 06448102           | F3FUH12C03       |          |        | 208    | 3           | 34.7        | 208           |             |           |      |                      |           |
| 06448602           | H3HUH12C03       |          |        | 240    | 3           | 30.1        | 240           |             |           |      |                      |           |
| 07114302           | P3PUH12CA1       |          |        | 480    | 3           | 15.1        | 24            |             |           |      |                      |           |
| 06446502           | F1FUH15C03       | 15.0     | 51200  | 208    | 1           | 72.1        | 208           | 59          | 45'       | 800  | 10'                  | 54        |
| 06447102           | H1HUH15C03       |          |        | 240    | 1           | 62.5        | 240           |             |           |      |                      |           |
| 06448202           | F3FUH15C03       |          |        | 208    | 3           | 41.7        | 208           |             |           |      |                      |           |
| 06448702           | H3HUH15C03       |          |        | 240    | 3           | 36.1        | 240           |             |           |      |                      |           |
| 07114402           | P3PUH15CA1       |          |        | 480    | 3           | 18.1        | 24            |             |           |      |                      |           |
| 06883002           | F1FUH20CA1*      | 20.0     | 68300  | 208    | 1           | 96.2        | 24            | 47          | 56'       | 1350 | 13'                  | 55        |
| 06884202           | H1HUH20CA1*      |          |        | 240    | 1           | 83.3        | 24            |             |           |      |                      |           |
| 06883102           | F3FUH20CA1       |          |        | 208    | 3           | 55.6        | 24            |             |           |      |                      |           |
| 06884302           | H3HUH20CA1       |          |        | 240    | 3           | 48.2        | 24            |             |           |      |                      |           |
| 06883202           | P3PUH20CA1       |          |        | 480    | 3           | 24.1        | 24            |             |           |      |                      |           |
| 06884402           | F1FUH25CA1       | 25.0     | 85300  | 208    | 1           | 120.2       | 24            | 58          | 56'       | 1350 | 13'                  | 55        |
| 06883302           | H1HUH25CA1       |          |        | 240    | 1           | 104.2       | 24            |             |           |      |                      |           |
| 06884502           | F3FUH25CA1       |          |        | 208    | 3           | 69.5        | 24            |             |           |      |                      |           |
| 06883402           | H3HUH25CA1       |          |        | 240    | 3           | 60.2        | 24            |             |           |      |                      |           |
| 06884602           | P3PUH25CA1       |          |        | 480    | 3           | 30.1        | 24            |             |           |      |                      |           |
| 06884702           | H1HUH30CA1       | 30.0     | 102390 | 240    | 1           | 125         | 24            | 70          | 56'       | 1350 | 13'                  | 60        |
| 06883602           | F3FUH30CA1*      |          |        | 208    | 3           | 83.4        | 24            |             |           |      |                      |           |
| 06884802           | H3HUH30CA1       |          |        | 240    | 3           | 72.3        | 24            |             |           |      |                      |           |
| 06883702           | P3PUH30CA1       |          |        | 480    | 3           | 36.1        | 24            |             |           |      |                      |           |
| 06884002           | P3PUH40CA1       | 40.0     | 136500 | 480    | 3           | 48.2        | 24            | 55          | 56'       | 2275 | 16'                  | 75        |
| 06887802           | P3PUH48CA1       | 48.0     | 163800 | 480    | 3           | 57.8        | 24            | 67          | 56'       | 2275 | 16'                  | 78        |

Disconnect not available

# UH Series Horizontal Fan Forced Unit Heater

3.3 KW THROUGH 48 KW HORIZONTAL DISCHARGE SUSPENDED FAN FORCED UNIT HEATERS  
AVAILABLE IN 1 OR 3 PHASE FOR ALL STANDARD VOLTAGES FROM 208V TO 480V

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Manufactured in U.S.A.

**NOTE:** Louver assembly is square and mounted with screws. Louver can be removed and repositioned for four (4) directional air flow - left - right - up - down with the heater in the horizontal position.

#### FACTORY INSTALLED OPTIONS:

- 24 Volt transformer on 3 KW to 15KW units to convert from line voltage to low voltage remote thermostat operation.
- Summer fan switch to operate the fan only.
- Fan Delay Switch to purge all residual heat from the unit after the heating element has cycled off.
- Powder coated Epoxy finish for corrosive atmospheres.
- Disconnect switch.

#### MAXIMUM RECOMMENDED MOUNTING HEIGHT

|            |        |
|------------|--------|
| 3 - 10 KW  | 9 FT.  |
| 12 - 15 KW | 10 FT. |
| 20 - 30 KW | 13 FT. |
| 40 - 48 KW | 16 FT. |

#### CONSTRUCTION:

Heavy Gauge welded steel cabinet with powder coated finish and control compartment with a hinged and latched access door, simplifying wiring installation & maintenance.

#### HEATING ELEMENT:

Circular copper clad steel sheath element with continuously brazed steel fins formed to match the air delivery pattern of the fan blade.

#### OVERHEAT PROTECTION:

All units come equipped with automatic resetting type limit controls to de-energize the heater should an over-temperature situation occur.

#### FAN and MOTOR:

Totally enclosed, single phase, permanently lubricated, thermally protected motors with unit bearings on 3 KW - 10 KW models and sleeve bearings on 12.5 KW - 48 KW models - mounted with rubber insulators to minimize vibration and noise. Fan assembly enclosed by a heavy gauge, close spaced, chrome plated wire guard.

#### LOUVER ASSEMBLY:

Louvers are individually adjustable for directional control of air flow and the entire assembly can be repositioned in the field from down flow to up flow or left / right directional air flow.

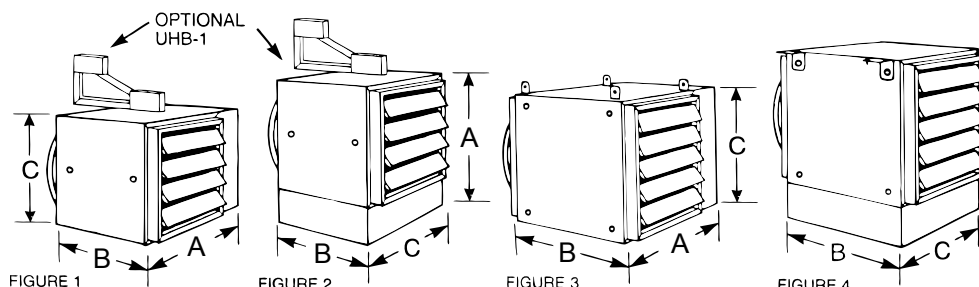
#### TEMPERATURE CONTROLS:

20 KW through 48 KW units and all 480V have built in 24 Volt transformer for low voltage remote thermostat application. 25 KW through 48 KW models available in 2-stage on special order (consult factory).

#### INSTALLATION:

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.

## Product Dimensions & Model Number Designation



| 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" |

3.3 KW THROUGH 15 KW UNIT HEATERS

20 KW THROUGH 48 KW UNIT HEATERS

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.

#### HOW TO DESIGNATE A MODEL:

| Element Volts | Phase          | Motor Voltage | Model Series | Element KW | Control System | Transformer  | Control Volts       |
|---------------|----------------|---------------|--------------|------------|----------------|--------------|---------------------|
| F = 208       | 1 = 1-Phase    | F = 208       | UH           |            | O = None       | O = None     | 1 = 24              |
| H = 240       | 2 = 1 or 3-Ph. | H = 240       |              |            | C = Contactor  | A = Included | 2 = 120             |
| HF = 240/208  | 3 = 3-Phase    | B = 240 / 208 |              |            | R = Relay      |              | 3 = Element Voltage |
| G = 277       |                | G = 277       |              |            |                |              | 4 = 240             |
| P = 480       |                | P = 480       |              |            |                |              |                     |

Factory Installed Options (use as a suffix on model designation):

S = Summer Fan Switch, F = Fan Delay, D = Disconnect, T = Built-in Thermostat, E = Epoxy Coated

Field Installed Options:

Disconnect Switch, Built-in Thermostat, & Wall / Ceiling Bracket

Note: For stainless steel elements - use SS suffix and add 20% to base net cost.