

# 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.**



**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.
- Made in U.S.A.

**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).

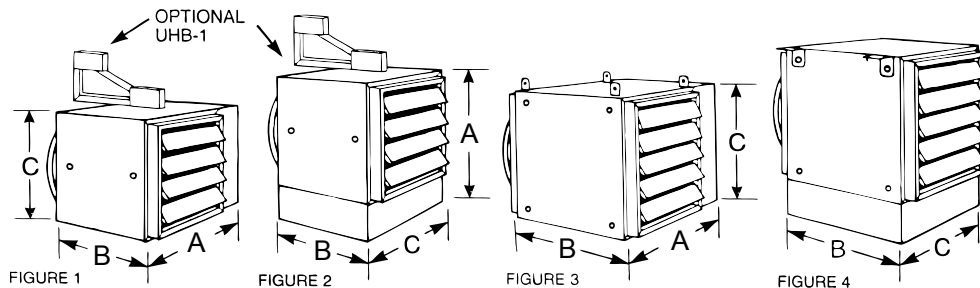
**INSTALLATION:**

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 3/16" for 20 KW units and larger. Optional wall / ceiling mounting brackets are available for all units.

MAXIMUM RECOMMENDED MOUNTING HEIGHT	
3 - 10 KW	9 FT.
12 - 15 KW	10 FT.
20 - 30 KW	13 FT.
40 - 48 KW	16 FT.

**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.

*Product Dimensions & Model Number Designation*



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

FIGURE 1 3.3 KW THROUGH 15 KW UNIT HEATERS

FIGURE 2 20 KW THROUGH 48 KW UNIT HEATERS

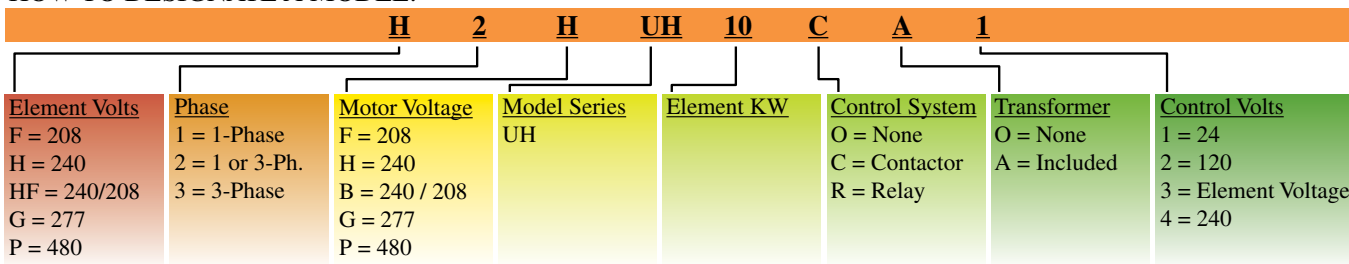
Figures 3 & 4 shown with standard mounting tabs for units over 20 KW. Optional UHB-3 and UHB-4 wall brackets are available. 3.3 KW thru 15 KW units can be mounted using 1/4" threaded rod. 20 KW thru 48 KW units can be mounted using 3/16" threaded rod.

*Factory & Field Installed Accessories*

FACTORY INSTALLED OPTIONS			FIELD INSTALLED ACCESSORIES			
SUFFIX	DESCRIPTION		MFG CATALOG NUMBER	MFG MODEL NUMBER	DESCRIPTION	
CA1F	Heat purge fan delay switch includes 24v transformer and contactor on 208-240-277 volt units		06462302	DCS303	30 Amp Disconnect Kit	
CA2F	Heat purge fan delay switch includes 120v transformer and contactor on 208-240-277 volt units		06462402	DCS403	40 Amp Disconnect Kit	
F	Heat purge fan delay switch on 480v units CA1 low voltage transformer and contactor included		06462502	DCS803	80 Amp Disconnect Kit	
S	Summer Fan Switch		06462602	DCS1003	100 Amp Disconnect Kit	
CA1	24v Transformer (3.3 KW - 15 KW units) & Contactor		06879902	TUH1	25 Amp SPST Thermostat Kit (40°F - 110°F)	
CA2	120v Transformer (3.3 KW - 15 KW units) & Contactor		06991002	UHB-1	wall / ceiling bracket 3.3 KW - 15 KW units	
E	Epoxy Coating		06991102	UHB-3	wall / ceiling bracket 20 KW - 30 KW units	
T	SPST Thermostat (40°F - 110°F)		06991202	UHB-4	wall / ceiling bracket 35 KW - 48 KW units	
D	Disconnect Switch - 30 Amps; 0-24 Amps					
	Disconnect Switch - 40 Amps; 24.1-32 Amps					
	Disconnect Switch - 80 Amps; 32.1-64 Amps					
	Disconnect Switch - 100 Amps; 64.1-80 Amps					

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## HOW TO DESIGNATE A MODEL:



### 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							
07114202	P3PUH10CA1	25600	208	1 or 3	36.1 / 20.8	208	42	51											
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