

# 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.



**WARNING:** This product can expose you to chemicals including nickel which is known to the State of California to cause cancer, and chromium, which is known to the State of California to cause birth defects and/or reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**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.

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:**

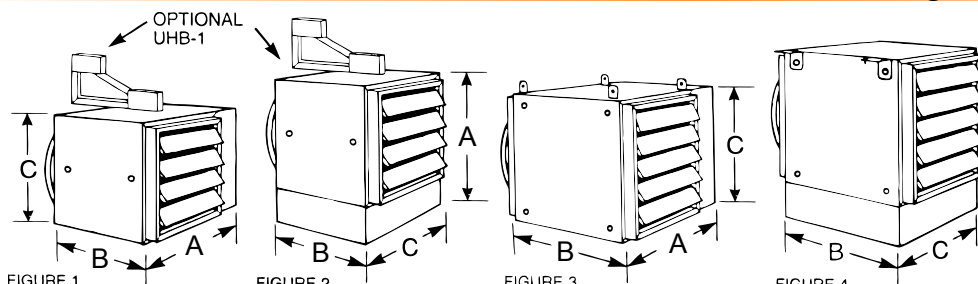
20 KW through 48 KW units and all 480V have built in 24 Volt transformer for low voltage remote thermostat application. 25 KW through 48 KW models available in 2-stage on special order (consult factory).

**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 5/8" for 20 KW units and larger. Optional wall / ceiling mounting brackets are available for all units.

**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 5/8" threaded rod.

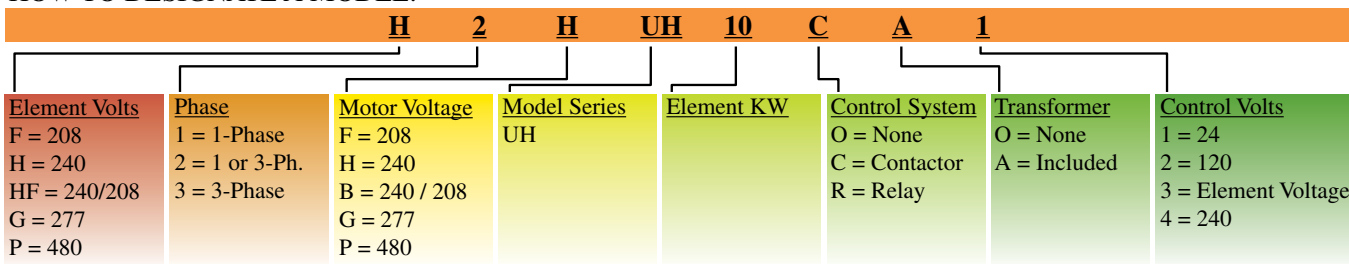
*Factory & Field Installed Accessories*

FACTORY INSTALLED OPTIONS		
SUFFIX	DESCRIPTION	LIST
CA1F	Heat purge fan delay switch includes 24V transformer and contactor on 208-240-277 volt units	249
CA2F	Heat purge fan delay switch includes 120v transformer and contactor on 208--240-277 volt units	249
F	Heat purge fan delay switch on 480v units CA1 low voltage transformer and contactor included	144
S	Summer Fan Switch	71
CA1	24v Transformer (3.3 KW - 15 KW units) & Contactor	182
CA2	120v Transformer (3.3 KW - 15 KW units) & Contactor	182
E	Epoxy Coating	137
T	SPST Thermostat (40°F - 110°F)	84
D	30 Amp Disconnect Switch: 0-24 Amps	346
	40 Amp Disconnect Switch: 24.1-32 Amps	398
	80 Amp Disconnect Switch: 32.1-64 Amps	498
	100 Amp Disconnect Switch: 64.1-80 Amps	610

FIELD INSTALLED ACCESSORIES			
MFG CATALOG NUMBER	MFG MODEL NUMBER	DESCRIPTION	LIST
06462302	DCS303	30 Amp Disconnect Kit: 0-24 Amps	295
06462402	DCS403	40 Amp Disconnect Kit: 24.1-32 Amps	347
06462502	DCS803	80 Amp Disconnect Kit: 32.1-64 Amps	455
06462602	DCS1003	100 Amp Disconnect Kit: 64.1-80 Amps	458
06879902	TUH1	25 Amp SPST Thermostat (40°F - 110°F)	90
06991002	UHB-1	wall / ceiling bracket 3.3 KW - 15 KW units	122
06991102	UHB-3	wall / ceiling bracket 20 KW - 30 KW units	138
06991202	UHB-4	wall / ceiling bracket 35 KW - 48 KW units	176

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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)	LIST
06446002	F1FUH03003	3.3	11200	208	1	15.9	208	26	26'	400	9'	36	826
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	864
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						
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	1331
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					44	
06448902	P3PUH07CA1			480	3	9.1	24					44	
07170902	F1FUH10CA1	10.0	34100	208	1	48.1	24	55	36'	575	9'	42	1467
06808402	H1HUH10CA1			240	1	41.7	24					42	
07173802	G1GUH10CA1			277	1	36.1	24					42	
06449602	F2FUH10C03			208	1 or 3	48.1 / 27.8	208					42	
06449702	HF2BUH10C03	10 / 7.5	34100	240	1 or 3	41.7 / 24.1	240	55	36'	575	9'	45	1521
07114202	P3PUH10CA1	10.0	34100	480	3	12.1	24	55				51	
06446402	F1FUH12C03	12.5	42600	208	1	60.1	208	49	45'	800	10'	45	2361
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	2598
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	3565
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	4201
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	4864
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	6216
06887802	P3PUH48CA1	48.0	163800	480	3	57.8	24	67	56'	2275	16'	78	7761

\*Disconnect not available