

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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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 air 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

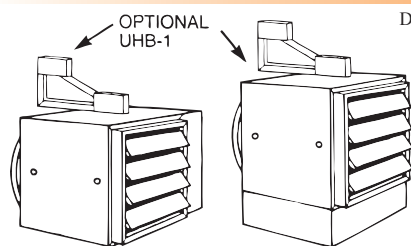


FIGURE 1

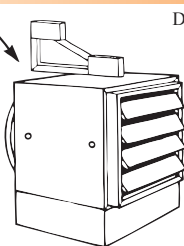


FIGURE 2

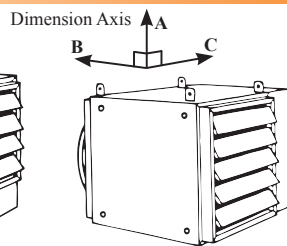


FIGURE 3

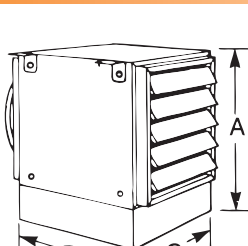


FIGURE 4

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"

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:

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

UH Series Horizontal Fan Forced Unit Heater

Standard Product Models

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UPC 686334	MODEL	KW	BTU'S	VOLTS	PH	AMPS	CONTROL VOLTS	TEMP RISE °F	AIR THROW	CFM	RECOM'D MOUNTING HT.	WT. (LBS.)		
644600	F1FUH03003	3.3	11,200	208	1	16	208	26	26'	400		36		
644662	H1HUH03003			240	1	14	240							
644723	G1GUH03003			277	1	12	277							
711487	H3HUH03C03			240	3	8	240							
711494	F3FUH03C03			208	3	9	208							
711401	P3PUH03CA1			480	3	4	24							
644617	F1FUH05003	5	17,100	208	1	24	208	40	26'	400		9'	36	
644679	H1HUH05003			240	1	21	240							
644730	G1GUH05003			277	1	18	277							
644938	F2FUH05C03			208	1 or 3	24.1/14.0	208						44	
644945	H2HUH05C03			240	1 or 3	20.8/12.1	240							
644884	P3PUH05CA1			480	3	6	24							
644624	F1FUH07CA1	7.5	25,600	208	1	36	24	42	36'	575			40	
688550	H1HUH07CA1			240	1	31	24						41	
644747	G1GUH07CA1			277	1	27	24						41	
644792	F3FUH07C03			208	3	21	208						44	
644952	H2HUH07C03			240	1 or 3	31.3/18.1	240							
644891	P3PUH07CA1			480	3	9	24							
644631	F1FUH10CA1	10	34,100	208	1	48	24	55	36'	575			42	
644693	H1HUH10CA1			240	1	42	24							
644754	G1GUH10CA1			277	1	36	24							
644969	F2FUH10C03			208	1 or 3	48.1/27.8	208						45	
644976	HF2HUH10C03	10/7.5	34,100	240	1 or 3	41.7/24.1	240	55						51
			25,600	208	1 or 3	36.1/20.8	208	42						
711425	P3PUH10CA1	10	34,100	480	3	12	24	55	49	45'	800		10'	45
644648	F1FUH12C03	13	42,600	208	1	60	208							
644709	H1HUH12C03			240	1	52	240							
644815	F3FUH12C03			208	3	35	208							
644860	H3HUH12C03			240	3	30	240							
711432	P3PUH12CA1			480	3	15	24							
644655	F1FUH15C03	15	51,200	208	1	72	208	59	45'	800		54		
644716	H1HUH15C03			240	1	63	240							
644822	F3FUH15C03			208	3	42	208							
644877	H3HUH15C03			240	3	36	240							
711449	P3PUH15CA1			480	3	18	24							
688307	F1FUH20CA1	20	68,300	208	1	96	24	47	56'	1350		13'		55
688420	H1HUH20CA1			240	1	83	24							
688314	F3FUH20CA1			208	3	56	24							
688437	H3HUH20CA1			240	3	48	24							
688321	P3PUH20CA1			480	3	24	24							
688444	F1FUH25CA1	25	85,300	208	1	120	24	58	56'	1350				55
688338	H1HUH25CA1			240	1	104	24							
688451	F3FUH25CA1			208	3	70	24							
688345	H3HUH25CA1			240	3	60	24							
688468	P3PUH25CA1			480	3	30	24							
688475	H1HUH30CA1	30	102,390	240	1	125	24	70	56'	1350				60
688369	F3FUH30CA1			208	3	83	24							
688482	H3HUH30CA1			240	3	72	24							
688376	P3PUH30CA1			480	3	36	24							
688406	P3PUH40CA1	40	136,500	480	3	48	24	55	56'	2275		16'		75
688789	P3PUH48CA1	48	163,800	480	3	58	24	67	56'	2275				78

Factory & Field Installed Accessories

FACTORY INSTALLED OPTIONS	
SUFFIX	DESCRIPTION
F	Heat purge fan delay switch for 208 / 240 / 277V units (includes contactor & transformer)
	Heat purge fan delay switch for 480V units (contactor & transformer standard in unit)
S	Summer fan switch
CA1	24V Transformer (3.3 KW - 15 KW units) & Contactor
CA2	120V Transformer (3.3 KW - 15 KW units) & Contactor
E	Epoxy Coating
T	SPST Thermostat
D	Disconnect Switch - 30 Amps
	Disconnect Switch - 40 Amps
	Disconnect Switch - 80 Amps
	Disconnect Switch - 100 Amps

FIELD INSTALLED ACCESSORIES		
UPC 686334	MODEL	DESCRIPTION
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