

## HUHAA SERIES UNIT HEATER



### IDEAL SPACES

- Factories
- Warehouses
- Garages
- Stairwells
- Shipping Docks
- Power Stations
- Mechanical Rooms

### COLORS

- Statuary Bronze

### DIMENSIONS

- Varies (see diagram)

### TEMP RANGE

- 40°– 90°F

### CFM

- 350 – 3000



- Wide range of optional control kits are field-installable, increasing the unit's adaptability to specification market
- Small- to medium-case construction is 20-gauge steel with larger cabinet 18-gauge steel; completely enclosed fan motor
- Advanced pull-through air flow design draws air across heating element for even air distribution and cooler element operation
- Specially designed venturi outlet to meet required additional air throw in vertical position
- Branch circuit fusing (when required)
- 2-speed fan selector switch (25 to 50 kW models) and optional fan-only switch for air movement with no heat
- 1- or 3-phase wiring on 5 kW through 10 kW 208/240V and 15 kW 208V units (field-interchangeable)
- Aluminum-finned, copper-clad steel sheath heating element extends life due to cooler sheath temperature and faster heat dissipation
- 24V control transformer standard on most models, providing safer and more accurate means of temperature control. 3 kW and 5 kW, 208-277V, have line voltage controls as standard (24V control available on made-to-order basis)
- Automatic reset linear thermal cut-out, capillary type, provides protection over entire length of element areas (manual reset protection available on made-to-order basis)
- No piping flues, valves or traps needed for installation
- Individual stainless steel adjustable louvers to direct air flow

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For Technical Services, Call 800-642-4328

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 **BERKO**<sup>®</sup>  
A Marley Engineered Products Brand

# HUHAA SERIES UNIT HEATER

## MODELS & SPECIFICATIONS

CATALOG NO.	UPC 6-85360	ELECTRICAL DATA					CONTROL VOLT (1)	2 STAGE ELEMENT CONTROL	AIR DELIVERY DATA FAN MOTOR DATA				MOUNTING HEIGHT			HORIZ. THROW	WIRE SIZE	SHIP W.T. (LBS.) W/ BRCKT
		VOLTS	PHASE	KW	BTU/HR.	AMPS (3)			CFM (2)	FPM (2)	ΔT(*F)	RPM (2)	HP	HORIZ.	VERT.			
HUHAA320	03688 5	208	1	3	10.2	14.5	208	N/A	350	800	27°	1600	1/100	8	9	12	AWG 12	24
HUHAA520*	03697 7	208	1-3	5	17	24	208	5A	350	800	45°	1600	1/100	8	9	12	AWG 10	27
HUHAA720	03701 1	208	1-3	7.5	25.6	36	24	5B	650	970	37°	1600	1/30	9	14	18	AWG 6	38
HUHAA1020	03673 1	208	1-3	10	34.1	48	24	5B	650	970	49°	1600	1/30	9	14	18	AWG 4	38
HUHAA1520	03677 9	208	1-3	15	51.2	72	24	5A	910	1640	52°	1530	1/20	11	20	35	AWG 2	53
HUHAA2020	03680 9	208	3	20	68.2	56	24	5A	1320	2060	48°	1500	1/10	12	23	41	AWG 4	60
HUHAA3020	03685 4	208	3	30	102.3	84	24	5A	2100/1800	2100/2030	45°/53°	1600/1375	1/4	12	20	50	AWG 1	93
HUHAA5020	03694 6	208	3	50	170.5	139	24	5A	3000/2600	3260/2900	53°/61°	1525/1420	1/2	15	25	60	AWG 4/0	114
HUHAA324	03689 2	208/240	1	2.2/3.0	7.5/10.2	11.0/12.5	208/240	N/A	350	800	27°	1600	1/100	8	9	12	AWG 12	27
HUHAA524*	03698 4	208/240	1-3	3.7/5.0	12.6/17.0	18.0/21.0	208/240	5A	350	800	45°	1600	1/100	8	9	12	AWG 10	27
HUHAA724	03702 8	208/240	1-3	5.6/7.5	19.1/25.6	27.0/31.3	24	5B	650	970	37°	1600	1/30	9	14	18	AWG 8	38
HUHAA1024	03674 8	208/240	1-3	7.5/10.0	25.6/34.1	36.0/42.0	24	5B	650	970	49°	1600	1/30	9	14	18	AWG 6	38
HUHAA1524	03678 6	208/240	3	11.2/15.0	38.2/51.2	31.3/36.1	24	5C	910	1640	52°	1530	1/20	11	20	35	AWG 6	53
HUHAA2024	03681 6	208/240	3	15.0/20.0	51.2/68.2	41.2/48	24	5C	1320	2060	48°	1500	1/10	12	23	41	AWG 4	60
HUHAA2524	03683 0	208/240	3	18.7/25.0	63.8/85.2	52.0/60.0	24	5A	2100/1800	2100/2030	38°/44°	1600/1375	1/4	13	23	50	AWG 3	93
HUHAA3024	03686 1	208/240	3	22.5/30.0	76.7/102.3	63.0/72.3	24	5A	2100/1800	2100/2030	45°/53°	1600/1375	1/4	12	20	50	AWG 2	93
HUHAA4024	03692 2	208/240	3	30.0/40.0	102.3/136.4	83.4/96.4	24	5A	3000/2600	3260/2900	42°/49°	1525/1420	1/2	15	28	60	AWG 1/0	114
HUHAA5024	03695 3	208/240	3	37.5/50.0	127.3/170.5	104.2/120.0	24	5A	3000/2600	3260/2900	53°/61°	1525/1420	1/2	15	25	60	AWG 3/0	114
HUHAA327	03690 8	277	1	3	10.2	11	277	N/A	350	800	27°	1600	1/100	8	9	12	AWG 14	27
HUHAA527	03699 1	277	1	5	17	18	277	N/A	350	800	45°	1600	1/100	8	9	12	AWG 10	27
HUHAA727	03703 5	277	1	7.5	25.6	27	24	5B	650	970	37°	1600	1/30	9	14	18	AWG 8	38
HUHAA1027	03675 5	277	1	10	34.1	36	24	5B	650	970	49°	1600	1/30	9	14	18	AWG 6	38
HUHAA348	03691 5	480	3	3	10.2	3.6	24	N/A	350	800	27°	1600	1/100	8	9	12	AWG 14	27
HUHAA548	03700 4	480	3	5	17	6	24	N/A	350	800	45°	1600	1/100	8	9	12	AWG 14	27
HUHAA748	03704 2	480	3	7.5	25.6	9	24	5B	650	970	37°	1600	1/30	9	14	18	AWG 14	38
HUHAA1048	03676 2	480	3	10	34.1	12	24	5B	650	970	49°	1600	1/30	9	14	18	AWG 14	38
HUHAA1548	03679 3	480	3	15	51.2	18	24	5C	910	1640	52°	1530	1/20	11	20	35	AWG 10	53
HUHAA2048	03682 3	480	3	20	68.2	24	24	5C	1320	2060	48°	1500	1/10	12	23	41	AWG 10	60
HUHAA2548	03684 7	480	3	25	85.2	30	24	5C	2100/1800	2100/2030	38°/44°	1600/1375	1/4	13	23	50	AWG 8	93
HUHAA3048	03687 8	480	3	30	102.3	36	24	5C	2100/1800	2100/2030	45°/53°	1600/1375	1/4	12	20	50	AWG 6	93
HUHAA4048	03693 9	480	3	40	136.4	48	24	5A	3000/2600	3260/2900	42°/49°	1525/1420	1/2	15	28	60	AWG 4	114
HUHAA5048	03696 0	480	3	50	170.5	60.2	24	5A	3000/2600	3260/2900	53°/61°	1525/1420	1/2	15	25	60	AWG 4	114

NOTE: All standard units are supplied with a low voltage control transformer and contactor (24V) except HUHAA-3 and 5 KW, 208V, 240V and 277V models. Low voltage control on these units is available on made to order. All units are also available on special order for 120V control; internal with transformer or external without transformer. On dual-voltage units CFM, FPM, & RPM ratings are listed at higher voltage operation. On dual-phase units maximum amp draw

is listed for respective voltage. 25 thru 50 KW models having two-speed motors and dual CFM ratings are listed in Full Line Catalog. 5A. Standard; 5B. Optional - made to order - amp load unbalanced on three-phase; 5C. Optional - made to order - amp load balanced on three-phase.

\*Must use two-stage Thermostat on 3Ø operation.

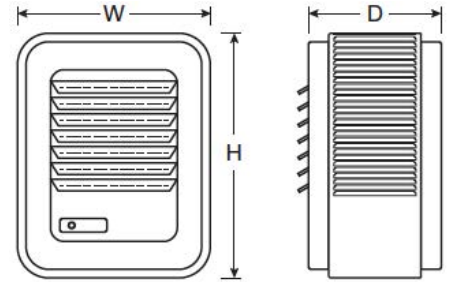
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## DIMENSIONS

CATALOG NO.	HEIGHT (IN)	WIDTH (IN)	DEPTH (IN)
HUHAA03 & 05	16	14	8-1/2
HUHAA07 & 10	21-3/4	19	8-1/2
HUHAA15 & 20	21-3/4	19	13-3/4
HUHAA25 & 30	30	26-5/8	13-3/4
HUHAA40 & 50	30	26-5/8	18-1/8



## OPTIONAL FIELD-INSTALLED CONTROLS

CATALOG NO.	UPC	DESCRIPTION	ELECTRICAL RATING	COMPATIBLE WITH
UHMT1	6 85360 15241 7	Single Pole Internal Thermostat-Temp Range: 40°- 85°F	25A @ 120, 240VAC Res. 22A @ 277VAC Res.	All HUHAA Series Heaters (except 5 KW, 208V - 3PH, 208/240V - 3PH, 277V)
UHMT2	6 85360 15242 4	Two Stage Internal Thermostat-Temp Range: 40°- 85°F	25A @ 120, 240VAC Res. 22A @ 277VAC Res. 125VA	5 KW, 208V, 3-PH and 208/240V 3-PH, 208V: 15, 20, 30 and 50 KW, 208/240V: 25, 30, 40 and 50 KW, 480V: 40 and 50 KW heaters
HUHAAFS	6 85360 03661 8	Internal Summer Fan Switch 480, 600V.A.C. 1,2 OR 3 PH	Pilot Duty 6A, 600VAC Res. 2 HP	All HUHAA Series Heaters
HUHAARFS1	6 85360 03671 7	Remote Summer Fan Switch (Line Voltage)	2 HP, 250-480VAC	All HUHAA Series Heaters
HUHAARFS2	6 85360 03672 4	Remote Summer Fan Switch with Relay (24V Coil-Single Pole Normally Open)	6 AFL, 35 ALR, 250VAC, 60Hz 3 AFL, 18 ALR, 480VAC, 60Hz	All HUHAA Series Heaters (except 3 and 5 KW, 208V, 208/240V, 277V) Units unless optional control transformer is supplied
HUHAAHRT	6 85360 03662 5	Heat Recovery Thermostat with Relay (24V Coil-Single Pole Normally Open) Hi - 120°F, Low - 60°F	6 AFL, 35 ALR, 250VAC, 60Hz 3 AFL, 18 ALR, 480VAC, 60Hz	All HUHAA Series Heaters (except 3 and 5 KW, 208V, 208/240V, 277V) Units unless optional control transformer is supplied
HUHAADS25	6 85360 03659 5	Power Disconnect Switch (3-Pole)	30A @ 600VAC, Res.	HUHAA348, HUHAA548, HUHAA748, HUHAA327, HUHAA1048, HUHAA324, HUHAA320, HUHAA527, HUHAA1548, HUHAA524
HUHAADS60	6 85360 03660 1	Power Disconnect Switch (3-Pole)	80A @ 600VAC, Res.	HUHAA520, HUHAA2048, HUHAA727, HUHAA2548, HUHAA724, HUHAA720, HUHAA1027, HUHAA1524, HUHAA3048, HUHAA1024, HUHAA1020, HUHAA2024, HUHAA4048, HUHAA2020, HUHAA2524, HUHAA5048

NOTE: Any field installed options assembled in the factory require added surcharge. See price book for charges. HUHAAADS60 disconnect switch is not suitable for field installation on 7.5kw and 10kw unit heaters.

## DIFFUSER SELECTOR TABLES FOR VERTICAL MOUNTING

CATALOG NO.	DESCRIPTION	CATALOG NO.	MAX. MOUNTING HEIGHT	(A) DIMENSION	DIFFUSER PATTERN AND AREA
NONE NONE	WITHOUT DIFFUSER No diffuser needed where a straight downflow air pattern is required. For maximum air throw, remove louvers. Any of three diffusers can be added to basic heater.	3 AND 5 7-1/2 AND 19	9 14	18 26	
NONE NONE		15 20	20 23	35 40	
NONE NONE		25 30	23 20	63 55	
NONE NONE		40 50	28 25	70 63	
HUHAALDS HUHAALDM		3 AND 5 7-1/2 AND 19	9 14	25(A) 12(B) 39(A) 19(B)	
HUHAALDM	15 20	18 20	50(A) 25(B) 56(A) 28(B)		
HUHAALDL	25 30	23 20	72(A) 36(B)		
HUHAALDL	40 50	24 22	88(A) 44(B) 80(A) 40(B)		

## HUHAA SERIES UNIT HEATER

### OPTIONAL MOUNTING BRACKETS

CATALOG NO.	UPC	COMPATIBLE WITH	SHIP WT. (LBS)
B10	6 85360 15229 5	3-10 KW units	8
B20	6 85360 15230 1	15-20 KW units	10
B30	6 85360 15231 8	25-30 KW units	13
B50	6 85360 15232 5	40-50 KW units	15

### OPTIONAL CEILING MOUNTING BRACKETS

CATALOG NO.	UPC	COMPATIBLE WITH	SHIP WT. (LBS)
CMB10	6 85360 15236 3	3-10 KW units	3
CMB20	6 85360 15237 0	15-20 KW units	4
CMB30	6 85360 15238 7	25-30 KW units	5
CMB50	6 85360 15239 4	40-50 KW units	6

### OPTIONAL VERTICAL CEILING MOUNTING BRACKETS

CATALOG NO.	UPC	COMPATIBLE WITH	SHIP WT. (LBS)
VDMB5	6 85360 15245 5	3-5 KW units	5
VDMB20	6 85360 15246 2	7.5-20 KW units	7
VDMB50	6 85360 15247 9	25-50 KW units	9

**MOUNTING LIMITATIONS:** Unit heaters should not be used in potentially explosive atmospheres. The finish is not intended for direct salt spray exposure in marine applications or the highly corrosive atmospheres of swimming pools, chemical storage bins, etc. Do not install unit heaters above recommended maximum mounting height. Obstructions must not block unit heater air inlet or discharge. Heaters must be mounted at least 7ft. above the floor to prevent accidental contact with the heating element or fan blade which could cause injury.

### FACTORY-INSTALLED OPTIONS FOR CONTROLS & ACCESSORIES

DESCRIPTION
3 and 5 KW (208, 208/240, 277V Supply) 24 or 120V Control Transformer and Power Contactor 24 or 120V H.C. Power Contactor
3 and 5 KW (480V Supply) and 7.5-50 KW Optional 120V Control
2-Stage Control of Elements (See Note 5)
Manual Reset
Outlet Mesh (Bird Screen) for all HUHAA Heaters

NOTE: Any factory-installed options require added surcharge. See price book for charges or contact factory.

### BRACKET SIZE

DIMENSION	3-20 kW (IN.)	25-50 kW (IN.)
A	7-1/4	9-7/16
B	9-1/2	14-3/8
C	7-1/4	12-1/8
D	11-5/16	2-1/16
E	2-1/4	3
L	20-1/2	28-15/16
M	9-15/16	14-15/16
N	3-1/4	4-1/2

