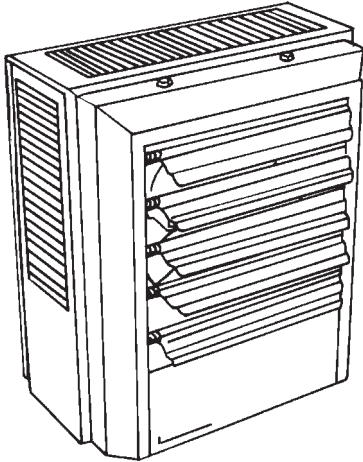




A Marley Engineered Products Brand

470 Beauty Spot Rd. E, Bennettsville, SC 29512

SUBMITTAL SHEET
HUHAA SERIES
HORIZONTAL / VERTICAL
UNIT HEATER



CAPACITIES

3KW through 50KW
208, 240, 277, 480V
1Ø or 3Ø
(Voltage & Phase
varies with model)

See Selection Chart

TAG	QTY.	CATALOG NUMBER	HEATER			AMPS	CONTROL CKT. VOLTS	MOTOR VOLTS	AIR FLOW		NO. OF STAGES
			KW	VOLTS	Ø				CFM	F° RISE	

ACCESSORIES
AND
CONTROLS

TAG	QTY.	CAT. NO.	DESCRIPTION

SUBMITTED BY:	DATE

APPROVED BY:	DATE

**OPTIONAL FACTORY INSTALLED
CONTROLS & ACCESSORIES**

(Factory Installed Only - Not to be Field Installed)

3 & 5 KW Heaters with 208, 208/240 or 277 Volt Supply • Control Transformer (120 or 24 Volt Sec.) • Power Contactor (120 or 24 Volt Holding Coil)
Optional 120 Volt control • 3 & 5 KW with 480 Volt supply and 7.5 KW thru 50 KW.
Two Stage Element Control (See Note 5 Page 2)
Manual Reset
Bird Screen (Outlet Mesh)

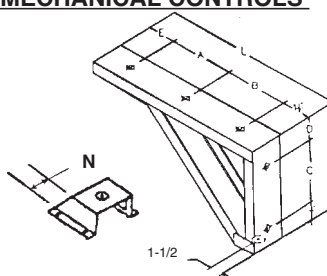
OPTIONAL FIELD INSTALLED ELECTRICAL CONTROLS

CAT. NO.	ACCESSORY	ELECTRICAL RATING	USE WITH
UHMT1	Single Pole Internal Thermostat - Temp. Range: 40F - 85F	25A @ 120, 240VAC Res. 22A @ 277VAC Res.	All HUHAA Series Heaters (except 5 KW, 208V - 3PH, 208/240V - 3PH, 277V)
UHMT2	Two-Stage Internal Thermostat - Temp. Range: 40F - 85F	22A @ 120, 240VAC Res. 22A @ 277VAC Res 125V, A: Pilot Duty	5 KW, 208 volt 3 ph & 208/240 volt 3 ph, 208 volt: 15, 20, 30 & 50 KW, 208/240 volt: 25, 30, 40 & 50 KW, 480 volt: 40 &* 50 KW heaters.
HUHAAFS	Internal Summer Fan Switch	6A, 600VAC Res 2 Hp - 250, 480, 600VAC	All HUHAA Series Heaters
HUHAARFS1	Remote Summer Fan Switch (Line Voltage)	2 HP, 250-480VAC	All HUHAA Series Heaters
HUHAARFS2	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 & 5 KW & 208, 208/240 & 277 volt units, unless optional control transformer is supplied)
HUHAHRT	Heat Recovery Thermostat with Relay (24V Coil-Single Pole Normally Open) Hi - 120F, Low - 60F	6 AFL, 35 ALR, 250VAC, 60Hz 3 AFL, 18 ALR, 480VAC, 60Hz	All HUHAA Series Heaters (except 3 & 5 KW & 208, 208/240 & 277 volt units, unless optional control transformer is supplied)
HUHAADS25	Power Disconnect Switch (3 Pole)	30A @ 600VAC, Res	HUHA348, HUHA548, HUHA748, HUHA327, HUHA1048, HUHA324, HUHA320, HUHA527, HUHA1548, HUHA524
HUHAADS60	Power Disconnect Switch (3 Pole)	63A @ 600VAC, Res.	HUHA520, HUHA2048, HUHA727, HUHA2548, HUHA724, HUHA720, HUHA1027, HUHA1524, HUHA3048, HUHA1024, HUHA1020, HUHA2024, HUHA4048, HUHA2020, HUHA2524, HUHA5048

NOTE: Any field installed options assembled in the factory require added surcharge.

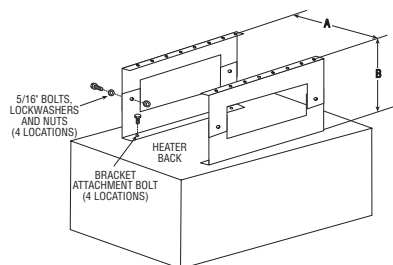
OPTIONAL FIELD INSTALLED MECHANICAL CONTROLS

UNIVERSAL WALL & CEILING MOUNTING BRACKET CATALOG NO.	CEILING MOUNTING BRACKET CATALOG NO.	USED ON HEATER KW
B10	CMB10	3.5, 7.5, & 10
B20	CMB20	15 & 20
B30	CMB30	25 & 30
B50	CMB50	40 & 50



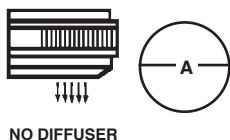
DIM	3-20KW	25-50KW
A	7-1/4"	9-7/16"
B	9-1/2"	14-3/8"
C	7-1/4"	12-1/8"
D	1-15/16"	2-1/16"
E	2-1/4"	3"
L	20-1/2"	28-5/16"
N	3-1/4"	4-1/2"

CATALOG NO.	KW	A	B
VDMB5	3 - 5 KW	6" (152mm)	6 1/8" (156mm)
VDMB20	7.5 - 20 KW	8 7/8" (225mm)	6 1/8" (156mm)
VDMB50	25 - 50 KW	12 1/2" (318 mm)	12 1/8" (308mm)



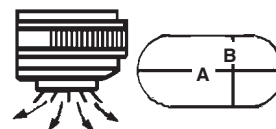
DIFFUSER	HEATER KW	MAX MNT. HT.	A DIM
NONE	3 & 5	9	18
NONE	7.5 & 10	14	26
NONE	15	20	35
NONE	20	23	40
NONE	25	23	63
NONE	30	20	55
NONE	40	28	70
NONE	50	25	63

DIFFUSER PATTERN AND AREA



NO DIFFUSER

DIFFUSER CAT. NO.	USED ON HEATER KW	MAX. MNT. HT.	A DIM	B DIM
HUHAALDS	3 & 5	9	25	12
HUHAALDM	7.5 & 10	14	39	19
HUHAALDM	15	18	50	25
HUHAALDM	20	20	56	28
HUHAALDL	25	23	68	32
HUHAALDL	30	20	72	36
HUHAALDL	40	24	88	44
HUHAALDL	50	22	80	40



LOUVER DIFFUSER

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS*

Furnish and install type HUHAA horizontal / vertical unit heaters as manufactured by Berko, A Marley Engineered Products Brand, Bennettsville, SC with heating and air delivery capacities as shown on the heating schedule.

The cabinet shall be made of 18 gauge die formed furniture grade steel. Individual adjustable louvers with 30 degrees downward stops shall be furnished to provide desired control of discharge air. All metal surfaces of the enclosure shall be phosphate coated to resist corrosion and finished in a durable polyester powder coat finish. Mounting brackets designed for either ceiling or wall swivel mounting shall be furnished as shown on the heating schedule.

Heaters shall be of the draw-through air flow design to eliminate the element hot spots and extend design life.

Fans shall be aluminum, directly connected to fan motor, and designed specifically for unit heater application.

Low voltage control 24 volt transformers shall be standard on models 7.5 KW and greater (Optional 120V), to allow safer more precise temperature control.

Individual optional field installable control kits shall be available for all models. All controls shall have pig tails and spade terminals for ease of wiring to centrally located terminal board. All heaters of 63 amperes or less shall be provided with power disconnect switches (field installed kits or factory installed).

All heaters shall be UL Listed and meet the requirements of the National Electrical Code.

For safety, the electric heating bank shall consist of metal sheath heating elements. The elements shall consist of 80/20 Nichrome wire encased in refractory material (MGO) and have a copper clad steel sheath for strength and corrosion resistance, and aluminum fins for faster heat transfer. Automatic reset thermal overload protection shall be of the linear capillary type wired for instantaneous de-energizing in case of the thermal overload. Heating bank to have protective air inlet louvers.

All heaters drawing in excess of 48 amperes shall be provided with factory installed subdivided and fused circuits of 48 amps or less.

Motors shall be totally enclosed, designed for continuous heavy-duty all-angle operation and equipped with built-in thermal overload protection, with stainless steel louvers. Motors used on 25 thru 50 KW models shall be rated for two speed operation.

* Berko reserves the right to change specifications without prior notice.