

MUH UNIT HEATERS

APPLICATIONS

Unit mounts either horizontally or vertically. Totally versatile. For factories, warehouses, garages, stores, shipping rooms, power stations, aircraft hangers. Can be used for primary, supplementary, spot, or dual-system heating.

FEATURES

- Wide range of optional control kits are field installable, increasing the MUH adaptability to the specification market.
- Forced air unit heater with 10 power ratings; from 3KW to 50 KW heating output; 208, 240, 277 and 480V, 10,230 to 170,500 BTU/hr.
- 32 compatible models (no need to try to assemble a heating system from 70 or 80 models!)
- Heavy gauge die-formed steel housing. Front & back case is Neutral Grey color while the wrap around steel section is Statuary Bronze color. Small to medium case construction is 20ga. Steel. the larger cabinet is 18 ga. Steel.
- Advanced pull-through air flow design draws air across heating element for more even air distribution and cooler element operation.
- Specially designed venturi outlet to meet that added throw as required in vertical position.

- Branch circuit fusing (when required).
- Completely enclosed fan motor.
- 1- or 3-phase wiring on 5 through 10 KW 208/240V and 15 KW 208V units (field interchangeable).
- Aluminum-finned, copper clad steel sheath heating element has longer useful life, because of cooler sheath temperature and faster heat dissipation.
- 24V control transformer standard on most models, providing a safer and more accurate means of temperature control. 3KW and 5KW, 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).
- 2-speed fan selector switch (25 to 50 KW models).
- Fan delay feature eliminates cold drafts. Element heats up before fan cuts in, then fan continues to distribute heat after element shuts off.
- Ruggedly built, yet lighter weight for easier installation. No piping flues, valves, or traps.
- Individually adjustable discharge louvers to control air flow.

- Choice of optional diffusers for variety of air patterns, maximizing heat concentration and coverage in the vertical position.
- Meets all UL, NEC, and OSHA requirements.

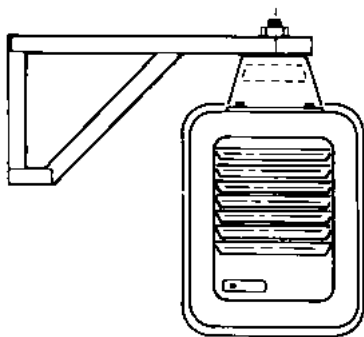


UNIVERSAL WALL & CEILING BRACKET

CATALOG NUMBER	USED ON
B10	MUH03, 05, 07 & 10
B20	MUH15 & 20
B30	MUH25 & 30
B50	MUH40 & 50

CEILING BRACKET

CATALOG NUMBER	USED ON
CMB10	MUH03, 05, 07 & 10
CMB20	MUH15 & 20
CMB30	MUH25 & 30
CMB50	MUH40 & 50



MOUNTING LIMITATIONS

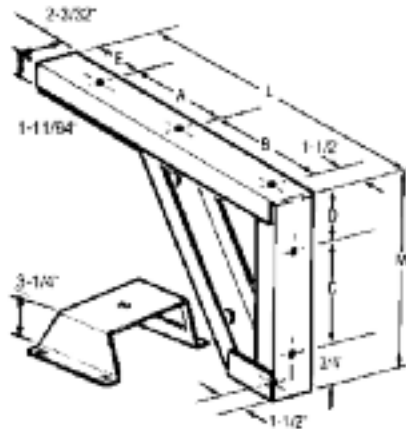
Unit heaters should not be used in potentially explosive atmospheres. The finish is not intended for direct salt spray exposure in marine applications or the highly corrosive atmospheres of swimming pools, chemical storage bins, etc. Do not install unit heaters above recommended maximum mounting height.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

BRACKET SIZE

DIMENSION	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 ¹⁵ / ₁₆ "
M	9 ¹⁵ / ₁₆ "	14 ¹⁵ / ₁₆ "
N	3 ¹ / ₄ "	4 ¹ / ₂ "

OPTIONAL VERTICAL CEILING MOUNTING BRACKET

CATALOG NUMBER	USED ON	STANDARD CARTON	
		QTY.	WT. LBS.
VDMB5	MUH03-05	1	5
VDMB20	MUH07-20	1	7
VDMB50	MUH25-50	1	9



OPTIONAL BUILT-IN CONTROLS AND ACCESSORIES ON MUH HEATERS

FACTORY INSTALLED ONLY††
DESCRIPTION
MUH03 & 05 (208, 208/240, 277V Supply) 24 or 120V Control Transformer and Power Contactor 24 or 120V H.C. Power Contactor
MUH03 & 05 (480V Supply) & MUH07 thru MUH50, Optional 120V Control
2-Stage Control of Elements (See Note 5)
Manual Reset.
Outlet Mesh (Bird Screen) For all MUH Heaters

††Optional built-in controls and accessories factory installed only - Not to be field installed

DIMENSIONS

CATALOG NUMBER	HEIGHT	WIDTH	DEPTH
MUH03 & 05	16"	14"	7 ¹ / ₂ "
MUH07 & 10	21 ³ / ₄ "	19"	7 ¹ / ₂ "
MUH15 & 20	21 ³ / ₄ "	19"	12 ³ / ₄ "
MUH25 & 30	30"	26 ⁵ / ₈ "	11 ³ / ₄ "
MUH40 & 50	30"	26 ⁵ / ₈ "	17 ¹ / ₈ "

OPTIONAL DUST SHIELDS

CATALOG NUMBER	USED ON	WT. LBS.
JRDS8	MUH03-10	3.0
JRDS14	MUH15-20	6.0
JRDS19	MUH25-50	8.0

Dust shields have a two week lead time.



CATALOG UPC		ELECTRICAL DATA			CONTROL ELEMENT			AIR DELIVERY DATA			FAN MOTOR DATA			MOUNTING HEIGHT		HORIZ. THROW		WIRE WT. (LBS.)	
NUMBER	6 85360	VOLTS	PHASE	KW	BTU/HR.	AMPS(3)	VOLT(1)	CONTROL	CFM(2)	FPM(2)	AT(°F)	RPM(2)	HP	HORIZ.	VERT.	HORIZ.	THROW	SIZE	W/BRCKT
MUH0381	04728 7	208	1Ø	3	10.2	14.5	208	N/A	350	800	27°	1600	1/100	8	9	12	12	AWG 12	27
MUH0581	04728 7	208	1-3Ø	5	17	24	24	5A	350	800	45°	1600	1/100	8	9	12	12	AWG 10	27
MUH078	04735 5	208	1-3Ø	7.5	25.6	36	24	5B	650	970	37°	1600	1/30	9	14	18	18	AWG 6	38
MUH108	04741 6	208	1-3Ø	10	34.1	48	24	5B	970	970	49°	1600	1/30	9	14	18	18	AWG 4	38
MUH158	04745 4	208	1-3Ø	15	51.2	72	24	5A	910	1640	52°	1530	1/20	11	20	35	41	AWG 2	53
MUH208	04749 2	208	3Ø	20	68.2	56	24	5A	1320	2060	48°	1500	1/10	12	23	41	41	AWG 4	60
MUH308	04756 0	208	3Ø	30	102.3	84	24	5A	2100/1800	2100/2030	45°/53°	1600/1375	1/4	12	20	50	50	AWG 1	93
MUH508	04766 9	208	3Ø	50	170.5	139	24	5A	3000/2600	3260/2900	53°/61°	1525/1420	1/2	15	25	60	60	AWG 40	114
MUH0321	04716 4	208/240	1Ø	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	12	AWG 12	27
MUH0521	04722 5	208/240	1-3Ø	3.7/5.0	12.6/17.0	18.0/21.0	208/240	5A	350	800	45°	1600	1/100	8	9	12	12	AWG 10	27
MUH072	04730 0	208/240	1-3Ø	5.6/7.5	19.1/25.6	27.0/31.3	24	5B	650	970	37°	1600	1/30	9	14	18	18	AWG 8	38
MUH102	04736 2	208/240	1-3Ø	7.5/10.0	25.6/34.1	36.0/42.0	24	5B	970	970	49°	1600	1/30	9	14	18	18	AWG 6	38
MUH152	04742 3	208/240	3Ø	11.2/15.0	38.2/51.2	31.3/36.1	24	5C	910	1640	52°	1530	1/20	11	20	35	41	AWG 6	53
MUH202	04746 1	208/240	3Ø	15.0/20.0	51.2/68.2	41.2/48.0	24	5C	1320	2060	48°	1500	1/10	12	23	41	41	AWG 4	60
MUH252	04750 8	208/240	3Ø	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	50	AWG 3	93
MUH302	04753 9	208/240	3Ø	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	50	AWG 2	93
MUH402	04760 7	208/240	3Ø	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	25	60	60	AWG 10	114
MUH502	04763 8	208/240	3Ø	37.5/50.0	127.3/170.5	104.2/120.4	24	5A	3000/2600	3260/2900	53°/61°	1525/1420	1/2	15	25	60	60	AWG 30	114
MUH0371	04720 1	277	1Ø	3	10.2	11	277	N/A	350	800	27°	1600	1/100	8	9	12	12	AWG 14	27
MUH0571	04727 0	277	1Ø	5	17	18	277	N/A	350	800	45°	1600	1/100	8	9	12	12	AWG 10	27
MUH077	04734 8	277	1Ø	7.5	25.6	27	24	5B	650	970	37°	1600	1/30	9	14	18	18	AWG 8	38
MUH107	04740 9	277	1Ø	10	34.1	36	24	5B	650	970	49°	1600	1/30	9	14	18	18	AWG 6	38
MUH0341	04718 8	480	3Ø	3	10.2	3.6	24	N/A	350	800	27°	1600	1/100	8	9	12	12	AWG 14	27
MUH0541	04725 6	480	3Ø	5	17	6	24	N/A	350	800	45°	1600	1/100	8	9	12	12	AWG 14	27
MUH074	04732 4	480	3Ø	7.5	25.6	9	24	5B	650	970	37°	1600	1/30	9	14	18	18	AWG 14	38
MUH104	04738 6	480	3Ø	10	34.1	12	24	5B	650	970	49°	1600	1/30	9	14	18	18	AWG 14	38
MUH154	04743 0	480	3Ø	15	51.2	18	24	5C	910	1640	52°	1530	1/20	11	20	35	41	AWG 10	53
MUH204	04747 8	480	3Ø	20	68.2	24	24	5C	1320	2060	48°	1500	1/10	12	23	41	41	AWG 10	60
MUH254	04751 5	480	3Ø	25	85.2	30	24	5C	2100/1800	2100/2030	38°/44°	1600/1375	1/4	13	23	50	50	AWG 8	93
MUH304	04754 6	480	3Ø	30	102.3	36	24	5C	2100/1800	2100/2030	45°/53°	1600/1375	1/4	12	20	50	50	AWG 6	93
MUH404	04761 4	480	3Ø	40	136.4	48	24	5A	3000/2600	3260/2900	42°/49°	1525/1420	1/2	15	25	60	60	AWG 4	114
MUH504	04764 5	480	3Ø	50	170.5	60.2	24	5A	3000/2600	3260/2900	53°/61°	1525/1420	1/2	15	25	60	60	AWG 4	114
MUH0331	04717 1	347	1Ø	3	10.2	8.6	347	N/A	350	800	27°	1600	1/100	8	9	12	12	AWG 14	27
MUH0531	04724 9	347	1Ø	5	17	14.4	347	N/A	350	800	45°	1600	1/100	8	9	12	12	AWG 10	27
MUH073	04731 7	347	1Ø	7.5	25.6	21.6	24	5B	650	970	37°	1600	1/30	9	14	18	18	AWG 14	38
MUH103	04737 9	347	1Ø	10	34.1	28.8	24	5B	650	970	49°	1600	1/30	9	14	18	18	AWG 14	38
MUH0361	04719 5	600	3Ø	3	10.2	2.9	600	N/A	350	800	27°	1600	1/100	8	9	12	12	AWG 14	27
MUH0561	04726 3	600	3Ø	5	17	4.8	600	N/A	350	800	45°	1600	1/100	8	9	12	12	AWG 10	27
MUH076	04733 1	600	3Ø	7.5	25.6	7.3	24	5B	650	970	37°	1600	1/30	9	14	18	18	AWG 14	38
MUH106	04739 3	600	3Ø	10	34.1	9.7	24	5B	650	970	49°	1600	1/30	9	14	18	18	AWG 14	38
MUH156	04744 7	600	3Ø	15	51.2	14.5	24	5C	910	1640	52°	1530	1/20	11	20	35	41	AWG 12	53
MUH206	04748 5	600	3Ø	20	68.2	19.3	24	5C	1320	2060	48°	1500	1/10	12	23	41	41	AWG 12	60
MUH256	04752 2	600	3Ø	25	85.2	24.2	24	5C	2100/1800	2100/2030	38°/44°	1600/1375	1/4	13	23	50	50	AWG 10	93
MUH306	04755 3	600	3Ø	30	102.3	29	24	5C	2100/1800	2100/2030	45°/53°	1600/1375	1/4	12	20	50	50	AWG 8	93
MUH406	04762 1	600	3Ø	40	136.4	38.7	24	5A	3000/2600	3260/2900	42°/49°	1525/1420	1/2	15	25	60	60	AWG 6	114
MUH506	04765 2	600	3Ø	50	170.5	48.3	24	5A	3000/2600	3260/2900	53°/61°	1525/1420	1/2	15	25	60	60	AWG 3	114

NOTES:

- All standard units are supplied with a low voltage control transformer and contactor (24V) except MUH03 & 05, 208, 240 & 277 volt models. Low voltage control on these units is available on made to order. All units are also available on special order for 120 volt control; internal with transformer or external without transformer.
- On dual voltage units CFM, FPM, & RPM ratings are listed at higher voltage operation in Full Line Catalog. 3. On dual phase units maximum amp draw is listed for respective voltage in Full Line Catalog.
- 4, 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 3 Phase. 5C - Optional - made to order - amp load balanced on 3 Phase. * Must use 2-stage Thermostat on 3Ø operation.