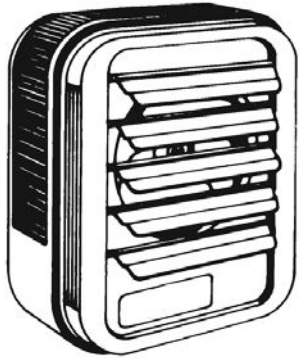




470 Beauty Spot Rd. E  
Bennettsville, SC 29512

**SUBMITTAL SHEET  
MUH-PRO SERIES  
HORIZONTAL/VERTICAL  
UNIT HEATERS**



| CAPACITIES   |
|--|
| 3KW to 10kW<br>208, 240, and 480V<br>1Ø or 3Ø<br>(Voltage and Phase varies with model) |

See Selection Chart for all Options

**MUH-PRO SERIES - HORIZONTAL/VERTICAL UNIT HEATERS**

JOB NAME: \_\_\_\_\_

LOCATION: \_\_\_\_\_

ARCHITECT: \_\_\_\_\_

ENGINEER: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

| TAG/ITEM | QTY. | CATALOG NUMBER | HEATER |       |   | AMPS | CONTROL CKT. VOLTS | MOTOR VOLTS | AIR FLOW |         |
|----------|------|----------------|--------|-------|---|------|--------------------|-------------|----------|---------|
|          |      |                | KW     | VOLTS | Ø |      |                    |             | CFM      | F* RISE |
|          |      |                |        |       |   |      |                    |             |          |         |
|          |      |                |        |       |   |      |                    |             |          |         |
|          |      |                |        |       |   |      |                    |             |          |         |
|          |      |                |        |       |   |      |                    |             |          |         |
|          |      |                |        |       |   |      |                    |             |          |         |
|          |      |                |        |       |   |      |                    |             |          |         |
|          |      |                |        |       |   |      |                    |             |          |         |
|          |      |                |        |       |   |      |                    |             |          |         |
|          |      |                |        |       |   |      |                    |             |          |         |

| ACCESSORIES AND CONTROLS | TAG/ITEM | QTY. | CATALOG NUMBER | DESCRIPTION |
|--------------------------|----------|------|----------------|-------------|
|                          |          |      |                |             |
|                          |          |      |                |             |
|                          |          |      |                |             |

| SUBMITTED BY: | DATE |
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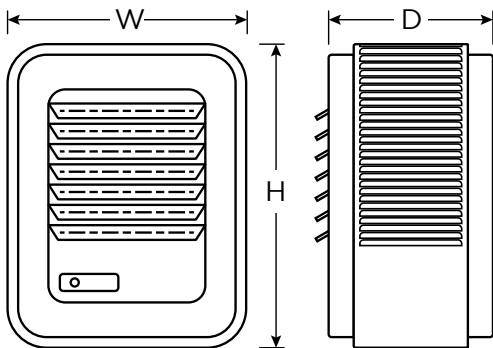
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# ARCHITECT'S AND ENGINEER'S SPECIFICATIONS\*

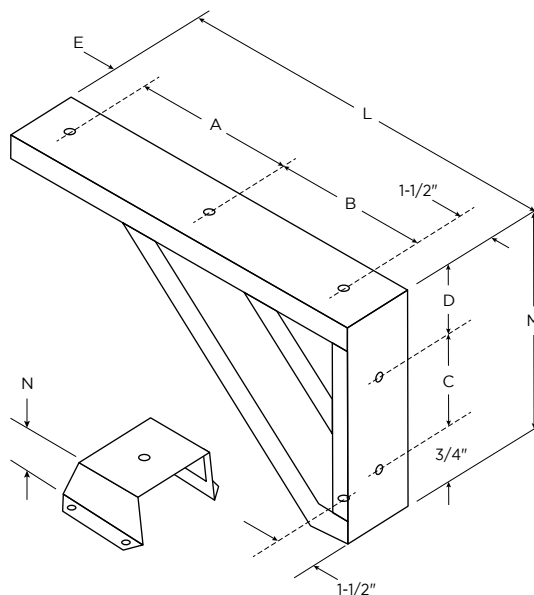
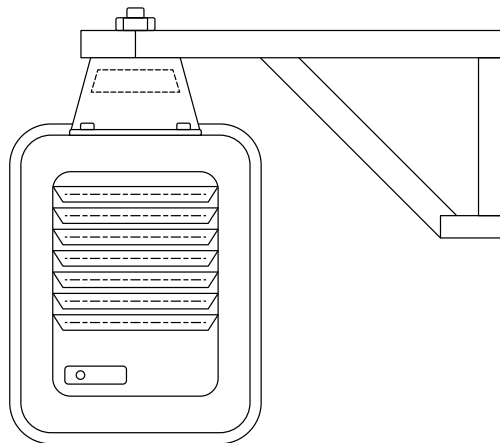
- Unit mounts either horizontally or vertically. Totally versatile. For factories, warehouses, garages, stores, shipping rooms, power stations. Can be used for primary, supplementary, spot, or dual-system eating.
- Each PRO model comes with a built in single stage thermostat, disconnect switch, and 24VAC transformer.
- Each PRO-SSP model comes with a remote mount SmartSeries Plus control, disconnect switch, 24VAC transformer, and B10 mounting bracket all included in the same box.
- PRO-SSP models' SmartSeries® Plus thermostat allows connection to BACnet MS/TP Building Management Systems, along with a digital touchscreen, 7-day programmability, built-in cooling and vacation mode, and keypad lock with no extra components needed.
- Forced air unit heater with 4 power ratings; from 3KW to 10kw (10,326-34,121 btu/h) heating output; 208, 240, 277 and 480V.
- 24 compatible models (no need to try to assemble a heating system from 70 or 80 models!)
- Heavy 18 gauge die-formed steel housing. Finished with a durable, two-toned polyester powder coat finish to resist corrosion, and smartly styled adjustable stainless steel louvers.
- 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 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 all models, providing a safer and more accurate means of temperature control.
- 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).
- 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 flutes, 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.

\*QMark reserves the right to change specifications without prior notice.

### Dimensions and Clearances:



| CATALOG NO. | HEIGHT  | WIDTH | DEPTH  |
|-------------|---------|-------|--------|
| MUH03 & 05  | 16"     | 14"   | 7 1/2" |
| MUH07 & 10  | 21 3/4" | 19"   | 7 1/2" |



|   | 3-20 kW  |
|---|----------|
| A | 7 1/4"   |
| B | 9 1/2"   |
| C | 7 1/4"   |
| D | 11 5/16" |
| E | 2 1/4"   |
| L | 20 1/2"  |
| M | 9 15/16" |
| N | 3 1/4"   |

Approvals: \_\_\_\_\_

**Models & Specifications:**

| ITEM INFORMATION |              | ELECTRICAL DATA |       |     |           |              | AIR DELIVERY DATA<br>FAN MOTOR DATA |          |
|------------------|--------------|-----------------|-------|-----|-----------|--------------|-------------------------------------|----------|
| CATALOG NO.      | UPC          | VOLTS           | PHASE | KW  | AMPS      | CONTROL VOLT | CFM                                 | SHIP WT* |
| MUH0381-PRO      | 685360173818 | 208             | 1     | 3   | 14.5      | 24           | 350                                 | 27 lbs   |
| MUH0381-PRO-SSP  | 685360174631 | 208             | 1     | 3   | 14.5      | 24           | 350                                 | 27 lbs   |
| MUH0581-PRO      | 685360173825 | 208             | 1-3   | 5   | 24        | 24           | 350                                 | 27 lbs   |
| MUH0581-PRO-SSP  | 685360174600 | 208             | 1-3   | 5   | 24        | 24           | 350                                 | 27 lbs   |
| MUH078-PRO       | 685360173832 | 208             | 1-3   | 7.5 | 36        | 24           | 650                                 | 38 lbs   |
| MUH078-PRO-SSP   | 685360174693 | 208             | 1-3   | 7.5 | 36        | 24           | 650                                 | 38 lbs   |
| MUH108-PRO       | 685360173849 | 208             | 1-3   | 10  | 48        | 24           | 650                                 | 38 lbs   |
| MUH108-PRO-SSP   | 685360174716 | 208             | 1-3   | 10  | 48        | 24           | 650                                 | 38 lbs   |
| MUH0321-PRO      | 685360173856 | 208/240         | 1     | 3   | 11.0/12.5 | 24           | 350                                 | 27 lbs   |
| MUH0321-PRO-SSP  | 685360174617 | 208/240         | 1     | 3   | 11.0/12.5 | 24           | 350                                 | 27 lbs   |
| MUH0521-PRO      | 685360173863 | 208/240         | 1-3   | 5   | 18.0/21.0 | 24           | 350                                 | 27 lbs   |
| MUH0521-PRO-SSP  | 685360174648 | 208/240         | 1-3   | 5   | 18.0/21.0 | 24           | 350                                 | 27 lbs   |
| MUH072-PRO       | 685360173870 | 208/240         | 1-3   | 7.5 | 27.0/31.3 | 24           | 650                                 | 38 lbs   |
| MUH072-PRO-SSP   | 685360174679 | 208/240         | 1-3   | 7.5 | 27.0/31.3 | 24           | 650                                 | 38 lbs   |
| MUH102-PRO       | 685360173887 | 208/240         | 1-3   | 10  | 36.0/42.0 | 24           | 650                                 | 38 lbs   |
| MUH102-PRO-SSP   | 685360174662 | 208/240         | 1-3   | 10  | 36.0/42.0 | 24           | 650                                 | 38 lbs   |
| MUH0341-PRO      | 685360173894 | 480             | 3     | 3   | 3.6       | 24           | 350                                 | 27 lbs   |
| MUH0341-PRO-SSP  | 685360174624 | 480             | 3     | 3   | 3.6       | 24           | 350                                 | 27 lbs   |
| MUH0541-PRO      | 685360173900 | 480             | 3     | 5   | 6         | 24           | 350                                 | 27 lbs   |
| MUH0541-PRO-SSP  | 685360174655 | 480             | 3     | 5   | 6         | 24           | 350                                 | 27 lbs   |
| MUH074-PRO       | 685360173917 | 480             | 3     | 7.5 | 9         | 24           | 650                                 | 38 lbs   |
| MUH074-PRO-SSP   | 685360174686 | 480             | 3     | 7.5 | 9         | 24           | 650                                 | 38 lbs   |
| MUH104-PRO       | 685360173924 | 480             | 3     | 10  | 12        | 24           | 650                                 | 38 lbs   |
| MUH104-PRO-SSP   | 685360174709 | 480             | 3     | 10  | 12        | 24           | 650                                 | 38 lbs   |

\*Shipping weight includes mounting bracket

NOTE: All standard units are supplied with a low voltage control transformer and contactor (24V).

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.

**MUH-Pro Bundled Accessories:**

| ACCESSORY                        | DESCRIPTION   |
|----------------------------------|---|
| 24VAC Transformer                | Takes incoming line voltage and drops it to low voltage (24VAC) to be used with low voltage thermostats.  |
| Disconnect Switch                | A three pole non-fused disconnect switch disconnects power to the heater. Design prevents entry into the control compartment until disconnect switch is turned to the OFF position. |
| Built-In Single Stage Thermostat | Built-in single stage thermostat with adjustable knob to have heater run until demand is satisfied.   |

**MUH-Pro+ Bundled Accessories:**

| ACCESSORY                                | DESCRIPTION   |
|--|---|
| 24VAC Transformer                        | Takes incoming line voltage and drops it to low voltage (24VAC) to be used with low voltage thermostats.  |
| Disconnect Switch                        | A three pole non-fused disconnect switch disconnects power to the heater. Design prevents entry into the control compartment until disconnect switch is turned to the OFF position.                                 |
| SmartSeries <sup>®</sup> Plus thermostat | Remote Mount two stage thermostat runs 2/3 elements on stage 1 and full heat for stage 2. Fan cycles on high speed only. Comes with BACnet BMS compatibility, scheduling, cooling mode (Fan-Only), and keypad lock. |
| B10 mounting bracket                     | Used to easily mount the unit heater to the wall  |

Approvals: \_\_\_\_\_

**Optional Mounting Brackets:**

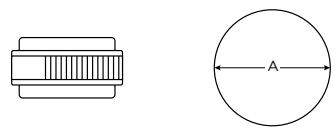
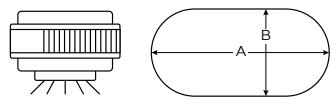
|                         | CATALOG NO. | UPC          | COMPATIBILITY | SHIP WT.* |
|-------------------------|-------------|--------------|---------------|-----------|
| <b>Standard</b>         | B10         | 685360152295 | MUH03-10      | 8 lbs     |
| <b>Ceiling</b>          | CMB10       | 685360152363 | MUH03-10      | 3 lbs     |
| <b>Vertical Ceiling</b> | VDMB5       | 685360152455 | MUH03-05      | 5 lbs     |
|                         | VDMB20      | 685360152462 | MUH07-20      | 7 lbs     |

**Optional Dust Shields:**

| CATALOG NO. | UPC          | COMPATIBILITY | SHIP WT.* |
|-------------|--------------|---------------|-----------|
| JRDS8       | 685360150697 | 3-10 KW units | 5 lbs     |

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 ft. above the floor to prevent accidental contact with the heating element or fan blade which could cause injury.

**Diffuser Selector Tables for Vertical Mounting**

| CATALOG NO. | DESCRIPTION  | COMPATIBILITY | MAX. MOUNTING HEIGHT | (A) DIMENSION | DIFFUSER PATTERN AND AREA   |
|-------------|--|---------------|----------------------|---------------|---|
| —           | <b>No Diffuser:</b><br>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. | MUH03 & MUH05 | 9                    | 18 (A)        |  |
| —           |  | MUH07 & MUH10 | 14                   | 26 (A)        |   |
| MLDS        | <b>Louver Diffuser:</b><br>Permits directional (straight line) air flow as in air curtain application over doorways. Rectangular coverage, Louvers can be turned in either direction.    | MUH03 & MUH05 | 9                    | 25(A) 12(B)   |  |
| MLDM        |  | MUH07 & MUH10 | 14                   | 25(A) 12(B)   |   |

No matter the industry or application, Marley Engineered Products has a robust portfolio of innovative, reliable, high-performance comfort heating and ventilation solutions for all your heating needs.

For more information or assistance on your next project, contact Technical Services at 800-642-4328

Scan the QR code to access additional specs and features



Approvals: \_\_\_\_\_