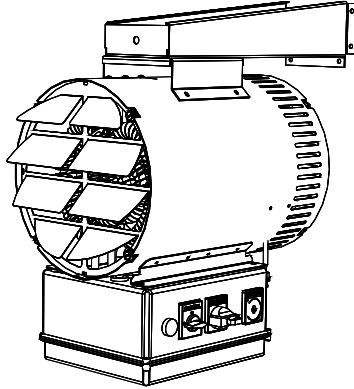




SUBMITTAL SHEET
QWD SERIES

**WASHDOWN CORROSION-
RESISTANT UNIT HEATER**

CAPACITIES

2.0-47 kW | 120-600V
1Ø or 3Ø

Thermostat Range: 40°-120° F
Air Movement: 700-2400 CFM

See Selection Chart for Options

JOB NAME: _____

LOCATION: _____

ARCHITECT: _____

ENGINEER: _____

CONTRACTOR: _____

SUBMITTED BY: _____ DATE: _____

TAG/ITEM	QTY.	CATALOG NUMBER	HEATER			AMPS	BUILT-IN CONTROL	AIR MOVEMENT		
			KW	VOLTS	Ø			CFM	THROW	TEMP. RISE

ACCESSORIES AND CONTROLS	TAG/ITEM	QTY.	CATALOG NUMBER	DESCRIPTION

SUBMITTED BY:	DATE

APPROVED BY:	DATE

QWD SERIES

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS*

Wash-down, corrosion resistant unit heater(s) shall be supplied by QMark®, a Marley Engineered Products® Brand, Bennettsville, SC, USA, and shall be of the KW rating, voltage and phase specified in the schedule. They shall be fan-forced type heating units, certified to cULus and ABS, and listed for corrosive areas and NEMA4X wash-down requirements.

SAFETY: Built in over temperature protection shall be provided by an automatic reset thermal cutout.

HEAT EXCHANGER: The heating elements shall be industrial grade, Type 316 corrosion resistant stainless steel sheathed with stainless steel fins for maximum heat dissipation. The elements are to be attached to junction box with leak resistant stainless steel fittings. Optional monel finned tubular elements available.

ENCLOSURE: Heating elements and motor are enclosed in a round, heavy 16-gauge 304 stainless steel shroud for corrosion resistance and assembled with stainless steel hardware. All controls are located in a NEMA 4X molded fiberglass control enclosure mounted beneath the heater cabinet. Optional epoxy painted parts available.

FAN MOTOR ASSEMBLY: The fan and motor assembly shall include a totally enclosed, permanently lubricated, ball bearing UL recognized motor, epoxy coated for corrosion resistance. The fan

shall be aluminum with corrosion resistant coating, directly connected to the motor, and be dynamically balanced. An epoxy sealed thermal fan delay shall be provided to allow the fan to continue to operate after heating thermostat has been satisfied to maximize transfer of generated heat to space being heated. Adjustable, stainless steel, louvered outlet grille can be rotated 90° to direct airflow up, down, left or right. Heavy gauge, 304 stainless steel rear grille protects against accidental contact with the fan blade.

MOUNTING: The heater comes complete with a 304 stainless steel swivel mounting bracket which can be used either for wall or ceiling mounting. Four field-supplied 3/8-16 threaded rods can also be used for ceiling installation on specific units.

OPTIONAL BUILT-IN CONTROLS: The controls are completely factory prewired and tested and enclosed in a non-metallic NEMA4X box. This control center shall include automatic reset over-temperature protector, contactors, fan delay relay, motor contactor and fused transformer for 24V control circuit. Convenient terminal blocks are included for remote thermostat connection. Optional factory installed offering includes an adjustable thermostat—single and two stage, pilot light, heat/fan selector switch, disconnect switch, 120v control circuit, and a manual reset.

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

Models & Specifications:

ITEM INFORMATION		ELECTRICAL DATA				MOTOR			AIR FLOW			2-STAGE CONTROL	SHIP WT.
CATALOG NO.		VOLTS	PHASE	TOTAL AMPS*	KW	HP	VOLTS	PHASE	RISE**	CFM	THROW		
QWD02112		120	1	16.7	2.0	—	120	1	9°F	700	—	—	60 lbs
QWD02812		208	1	9.6		—	208	1	9°F	700	—	—	60 lbs
QWD02212		240	1	8.3		—	240	1	9°F	700	—	—	60 lbs
QWD03112		120	1	25	3.0	—	120	1	14°F	700	—	—	60 lbs
QWD03812		208	1	14.4		—	208	1	14°F	700	—	—	60 lbs
QWD03212		240	1	12.5		—	240	1	14°F	700	—	—	60 lbs
QWD03712		277	1	10.8		—	277	1	14°F	700	—	—	60 lbs
QWD03832		208	3	8.3		—	208	1	14°F	700	—	—	60 lbs
QWD03232		240	3	7.2	5.0	—	240	1	14°F	700	—	—	60 lbs
QWD03432		480	3	3.6		—	480	1	14°F	700	—	—	60 lbs
QWD05812		208	1	24		—	208	1	23°F	700	—	—	60 lbs
QWD05212		240	1	20.8		—	240	1	23°F	700	—	—	60 lbs
QWD05712		277	1	18.1		—	277	1	23°F	700	—	—	60 lbs
QWD05412		480	1	10.4		—	480	1	23°F	700	—	—	60 lbs
QWD05832		208	3	13.9		—	208	1	23°F	700	—	—	60 lbs
QWD05232		240	3	12		—	240	1	23°F	700	—	—	60 lbs
QWD05432		480	3	6		—	480	1	23°F	700	—	—	60 lbs
QWD07812		208	1	36.1		7.5	—	208	1	34°F	700	—	—
QWD07212		240	1	31.3	—		240	1	34°F	700	—	—	60 lbs
QWD07712		277	1	27.1	—		277	1	34°F	700	—	—	60 lbs
QWD07412		480	1	15.6	—		480	1	34°F	700	—	—	60 lbs
QWD07832		208	3	20.8	—		208	1	34°F	700	—	—	60 lbs
QWD07232		240	3	18	—		240	1	34°F	700	—	—	60 lbs
QWD07432		480	3	9	10	—	480	1	34°F	700	—	—	60 lbs
QWD10212		240	1	41.7		—	240	1	22°F	1450	—	—	60 lbs
QWD10712		277	1	36.1		—	277	1	22°F	1450	—	—	60 lbs
QWD10412		480	1	20.8		—	480	1	22°F	1450	—	—	60 lbs
QWD10832		208	3	27.8		—	208	1	22°F	1450	—	—	60 lbs
QWD10232		240	3	24.1		—	240	1	22°F	1450	—	—	60 lbs
QWD10432		480	3	12	12.5	—	480	1	22°F	1450	—	—	60 lbs
QWD12812		208	1	60.1		—	208	1	27°F	1450	—	—	60 lbs
QWD12212		240	1	52.1		—	240	1	27°F	1450	—	—	60 lbs
QWD12832		208	3	34.7		—	208	1	27°F	1450	—	—	60 lbs
QWD12232		240	3	30.1		—	240	1	27°F	1450	—	—	60 lbs
QWD12432		480	3	15	15	—	480	1	27°F	1450	—	—	60 lbs
QWD-234-U11L-0150I		347	1	47		¼	347	1	21°F	2400	50'	1A	130 lbs
QWD-234-U11L-0150D		208	3	44		¼	208	1	21°F	2400	50'	1A	130 lbs
QWD-234-U11L-0150K		240	3	39		¼	240	1	21°F	2400	50'	1A	130 lbs
QWD-234-U11L-0150U		480	3	20		¼	480	1	21°F	2400	50'	1A	130 lbs
QWD-234-U11L-0150Z		600	3	16	20	¼	600	1	21°F	2400	50'	1A	130 lbs
QWD-234-U11L-0200U		480	3	26		¼	480	1	28°F	2400	50'	1A	130 lbs
QWD-234-U11L-0200Z		600	3	21	25	¼	600	1	28°F	2400	50'	1A	130 lbs
QWD-234-U11A-0250U		480	3	32		¼	480	1	35°F	2400	50'	1B	130 lbs
QWD-234-U11A-0250Z		600	3	26	30	¼	600	1	35°F	2400	50'	1B	130 lbs
QWD-234-U11A-0300U		480	3	38		¼	480	1	42°F	2400	50'	1B	130 lbs
QWD-234-U11A-0300Z		600	3	31	35	¼	600	1	42°F	2400	50'	1B	130 lbs
QWD-234-U11A-0350U		480	3	44		¼	480	1	48°F	2400	50'	1B	130 lbs
QWD-234-U11A-0350Z		600	3	35	38.4	¼	600	1	48°F	2400	50'	1B	130 lbs
QWD-234-U11A-0390U		480	3	48		¼	480	1	54°F	2400	50'	1B	130 lbs
QWD-234-U11A-0390Z		600	3	38		¼	600	1	54°F	2400	50'	1B	130 lbs
QWD-234-U11A-0470Z		600	3	47	47	¼	600	1	64°F	2400	50'	1B	130 lbs

Note: Stock heaters ordered with custom options subject to longer delivery. *Total Amps = Heating element and motor amps. **Approximate air temperature rise.
 2-Stage heaters can be field wired as single stage. 1A = Optional 2-stage control, unbalanced (option 'X'). 1B = Optional 2-stage control, balanced (option 'X')

Approvals: _____

Factory Built-in Options — 2kW-12.5kW Models:

SUFFIX	DESCRIPTION
T	Thermostat
L	Pilot Light
S	Selector Switch
D	Disconnect Switch
M	Manual Reset
P	Epoxy Coating

NOTE: Monel elements are subject to longer lead times. Please contact factory for details. All units other than standard models are non-returnable.

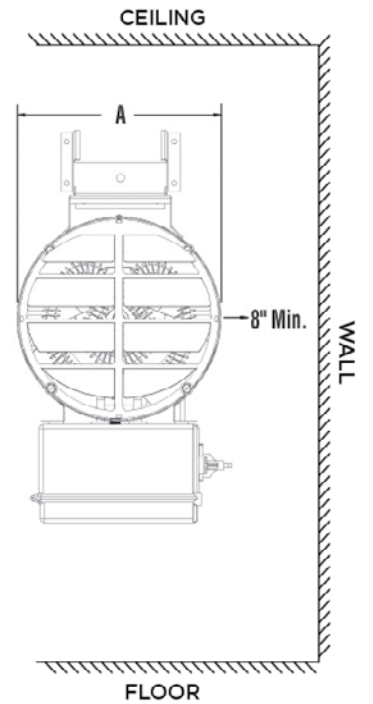
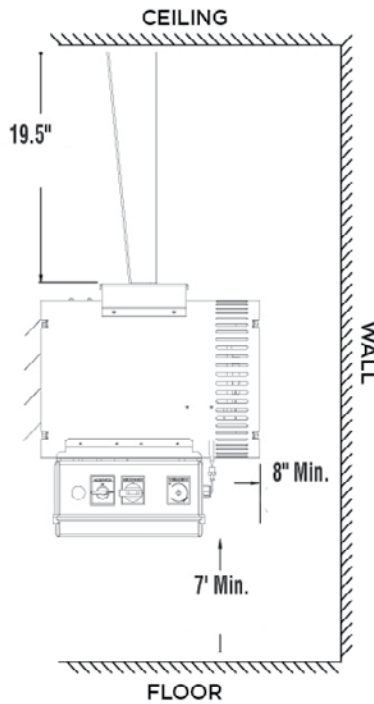
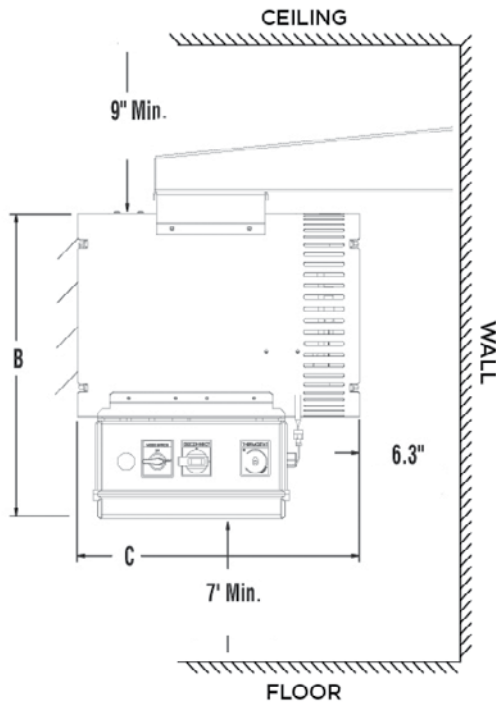
Factory Built-in Options — 15kW-47kW Models:

CATALOG NO.	DESCRIPTION
B	Delete swivel mounting bracket. Heater installs from the ceiling with field furnished threaded rods
D	Power disconnect switch
F8	Fan motor fusing with disconnecting contactor
L	"Heater on" pilot light
M	Secondary manual reset overtemperature cutout. Required for U.S. Coast Guard and ABS Approved designs
S	Three-position selector switch (heater-standby-fan)
T	1-Stage Built-in thermostat 40° to 100° F
	2-Stage Built-in thermostat 40° to 120° F. <i>Must be installed with 2-Stage Control, X</i>
V	120 volt control circuit
X	2-Stage Control

Remote Room Thermostat:

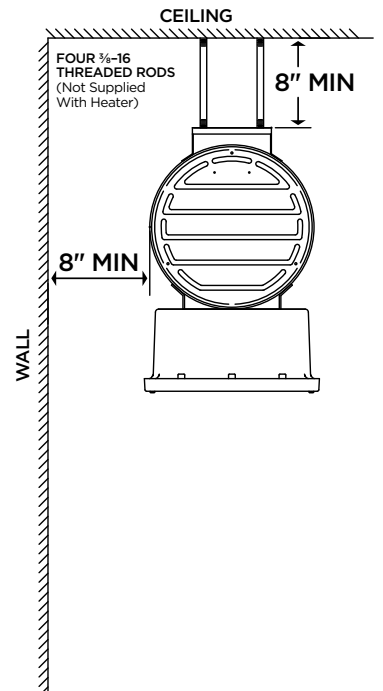
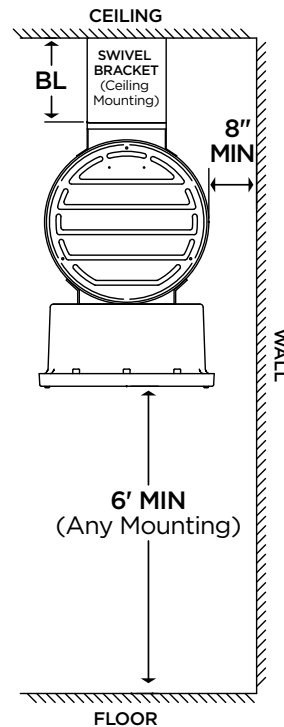
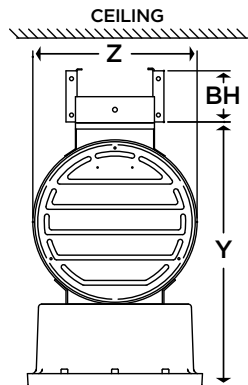
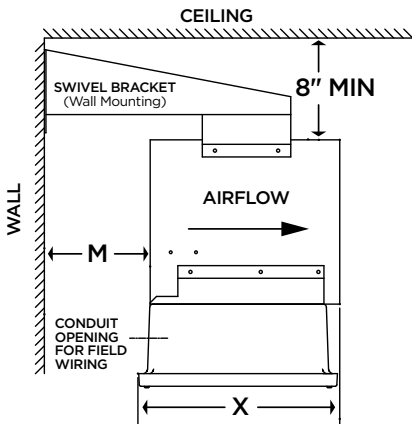
CATALOG NO.	SWITCH TYPE	TYPE	RATING	TEMP RANGE	TAMPERPROOF	THERMOMETER	AMPS	PILOT DUTY	COMPATIBILITY
WT11A	Positive snap action switch	SPDT	NEMA 4X rated	40°F-110°F	No	No	25A @ 120-277V	125VA	2kW-12.5kW
1004328	Bulb	SPDT	NEMA 4X	40°-110°F	No	No	25A @ 120-240V 22A @ 277V	125VA	15kW-47kW
1026347	2-Stage Bulb	2 SPDT	NEMA 4X	40°-100°F	No	No	25A @ 120-240V 22A @ 277V	125VA	

Dimensions and Clearances: 2kW-12.5kW Models



KW	A	B	C	D
2-10	13"	19 ½"	18"	19 ½"
12.5	20"	31"	27"	24 ⅙"

Dimensions and Clearances: 15kW-47kW Models



OVERALL			MOUNTING HOLES		
X	Y	Z	BH	BL	M
24 ½"	26"	20"	7 ⅞"	22 ¼"	5"

How to Order: 2kW-12.5kW

Example:

QWD	05	4	3	2	C	T	L	S	D	0	0	0
-----	----	---	---	---	---	---	---	---	---	---	---	---

Model: **QWD**

Wattage: **02** = 2.0, **03** = 3.0, **05** = 5.0, **07** = 7.5, **10** = 10.0, **12** = 12.5

Voltage: **1** = 120V, **8** = 208V, **2** = 240V, **1** = 277V, **4** = 480V

Phase: **1, 3**

Control Voltage: **1** = 120V, **2** = 24V

Generation: **C**

Notes: Two elements are only used on single phase heaters rated 2 & 5 KW.
Six elements are only used on all heaters rated > 20 KW
Contact Marley Sales Representative for additional configuration details

Painted Elements:
O = Standard Stainless Steel Construction,
P = Painted Assembly

Manual Reset: **O** = None,
M = Manual Reset Limit

Monel Element: **O** = Standard Elements,
E = Monel Elements

Disconnect Switch: **O** = None,
D = Disconnect Switch

Mode Switch: **O** = None, **S** = Heat/Fan Mode Switch

Pilot Light: **O** = None, **L** = Pilot Light

Thermostat: **O** = None, **T** = Thermostat

How to Order: 15kW-47kW

Example:

QWD	-	234	-	U11	R	-	0050	T	-	ELST
-----	---	-----	---	-----	---	---	------	---	---	------

Model: **QWD**

Series: **234**

Agency Approvals: **N11** = No Agency, **U11** = cULus

Elements Qty /Shroud I.D.: **A** = 6 Elements / KW>12,
L = 3 Elements / KW>12

KW Rating: **0150** = 15.0, **0200** = 20.0, **0250** = 25.0, **0300** = 30.0,
0350 = 35.0, **0390** = 38.4, **0470** = 47.0

Options:
B = Delete swivel mounting bracket. Heater installs from the ceiling with field furnished threaded rods,
D = Power disconnect switch,
E = Monel finned tubular elements,
F8 = Fan motor fusing with disconnecting contactor,
L = "Heater on" pilot light,
S = Three-position selector switch (heater-standby-fan),
T = 1- Stage Built-in thermostat 40 to 100° F (5 to 38° C) range, 2- Stage Built-in thermostat 40 to 120° F (5 to 49° C) range (Option "X" required),
V = 120 volt control circuit,
X = 2-Stage Control

Voltage Code: **B** = 120/1, **C** = 208/1, **D** = 208/3, **I** = 347/1,
J = 240/1, **K** = 240/3, **N** = 277/1, **T** = 480/1, **U** = 480/3, **Z** = 600/3

Notes: Two elements are only used on single phase heaters rated 2 & 5 KW.
Six elements are only used on all heaters rated > 20 KW
Contact Marley Sales Representative for additional configuration details

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: _____