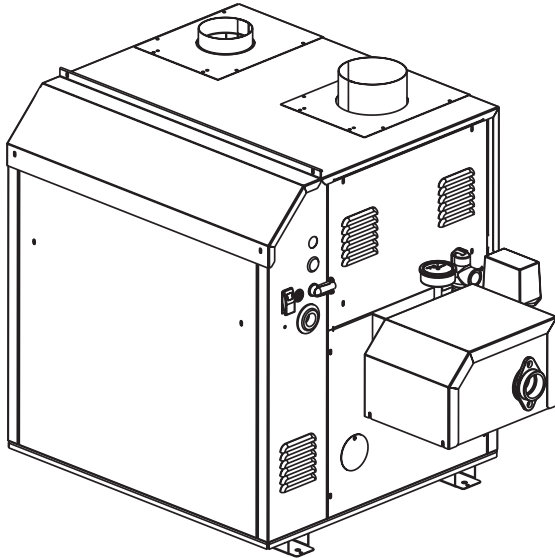


MIGHTY THERM²

Pump Mounted Boiler

MT2H 400 Hydronic Heater

Indoor/Outdoor Sizes



Date:

Project #:

Engineer:

Prepared By:

Bid Date:

Submittal Data



Project Name:

Location:

Contractor:

Standard Equipment

- Certified for indoor or outdoor use
- Low NOX emissions
- ASME 160 psi working pressure heat exchanger
- ASME "H" stamp
- Pump, mounted and wired
- Flanged water connections
- Glass-lined headers
- External header gaskets
- 75psi (517kPa) ASME rated pressure relief valve
- Temperature pressure gauge
- Water flow switch
- 24V control system
- 115/24V transformer
- Temperature controller
- Manual reset high limit
- On-off firing
- Hot surface ignition
- On/off toggle switch
- CSD-1 compliant
- Removable burner tray(s)
- Multiple operating gas valve/press regs
- Manual "A" gas valve
- Burner site glass
- Intake air filter
- Built-in fan for Category I or III vent systems
- Blower pre- & post-purge
- Air pressure switch
- Blocked vent switch

Controller Features

- PI temperature controller
- Outdoor reset with ratios of 0.4 to 3.6
- Warm weather shutdown
- Indicator lights for power, heat call, DHW call & WWSD
- Indirect DHW operation
- Automatic boiler differential
- Pump pre-purge, post-purge and exercise
- Outdoor air sensor
- Codes for sensor errors

Boiler Data

Number of Units:

Fuel

- ☐ Natural
☐ Propane

Heat Exchanger

- ☐ Copper
☐ Cupro-Nickel
☐ Copper, Reversed
☐ Cupro-Nickel, Reversed

Water Trim

- ☐ Glass-Lined Cast Iron
☐ Bronze Trim

Options

- ☐ Low Water Cutoff



Sizing Data

Model	Input		Output		Gas Conn Size	Water Conn. Size	Shipping Weight	
	BTU/h	kW	BTU/h	kW	NPT	NPT	lbs	kg
MT2H0400	399,000	116.9	340,000	99.6	3/4	1-1/2	350	159

- NOTES:
- 1. Input and output must be de-rated 4% per 1000 feet above sea level when installed above 2000 feet altitude.
 - 2. Dimensions are nominal.
 - 3. For other boiler ratings:
Boiler Horsepower: $HP = \frac{\text{Output}}{33,475}$ Radiation Surface: $EDR \text{ sq. ft.} = \frac{\text{Output}}{150}$

Accessories

- ☐ Side-wall vent terminal for indoor installation (required for side-wall venting)
- ☐ Side-wall combustion air terminal for indoor installation (required only for ducted combustion air)
- ☐ Outdoor vent terminal and combustion air terminal

Water Flow Data

Size	TEMPERATURE RISE							
	20°F Flow gpm	11°C Flow lpm	25°F Flow gpm	14°C Flow lpm	30°F Flow gpm	17°C Flow lpm	35°F Flow gpm	19°C Flow lpm
400	34	129	27	102	23	87	19	72

Clearances

Appliance Surface	Required Clearance from Combustible Material		Suggested Service Access Clearance	
	inches	<i>cm</i>	inches	<i>cm</i>
Left Side	1	2.5	24	61.0
Right Side	1	2.5	24	61.0
Top	1	2.5	12	30.5
Back*	1	2.5	12	30.5
Front	1	2.5	36	91.4
Vertical Vent** (Category 1)	6	15.2		
Horizontal Vent (Category 3)	per UL1738 venting system supplier's instructions			

* When vent and/or combustion air connects to the back, recommended clearance is 36" 91*cm*.

** 1" when b-vent is used.

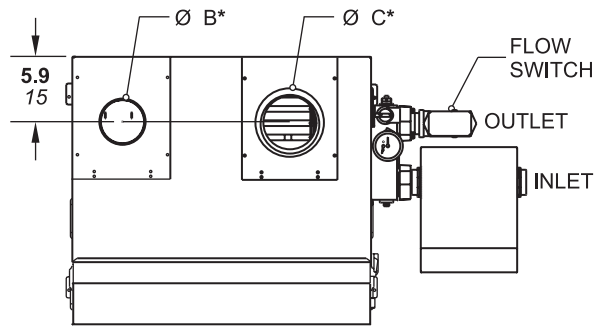
Electrical Data

Size	Boiler / Heater Circuit Size			Pump	Blower
	Volts	Phase	Amps		
200–400	120	Single	15	Included in Boiler Connection	Included in Boiler Connection

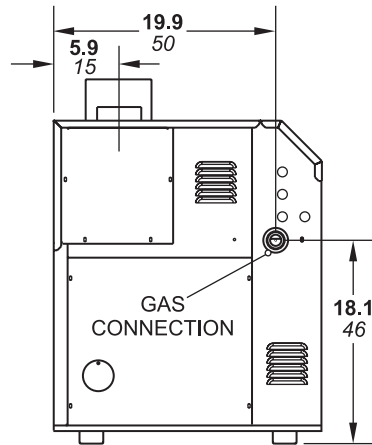
Pump Data

Size	HP	Amps
400	1/6	2.0

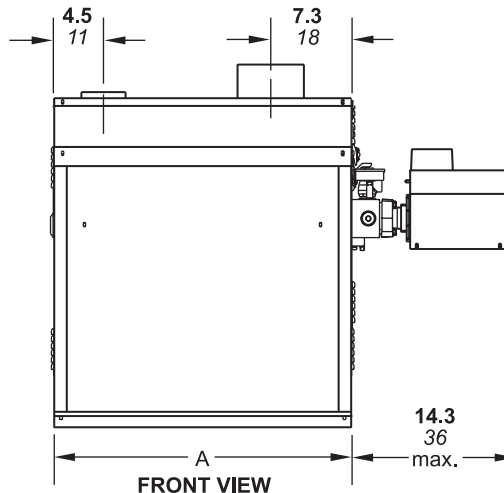
Dimensional Data



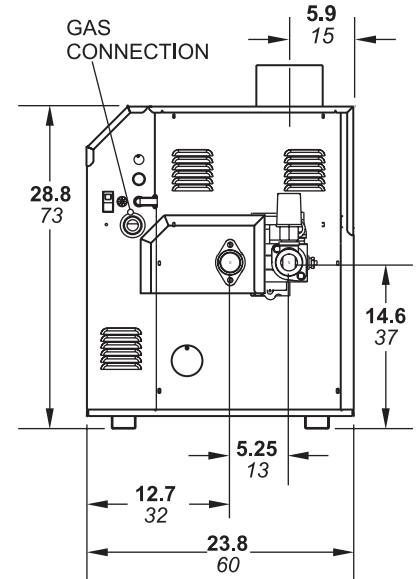
TOP VIEW



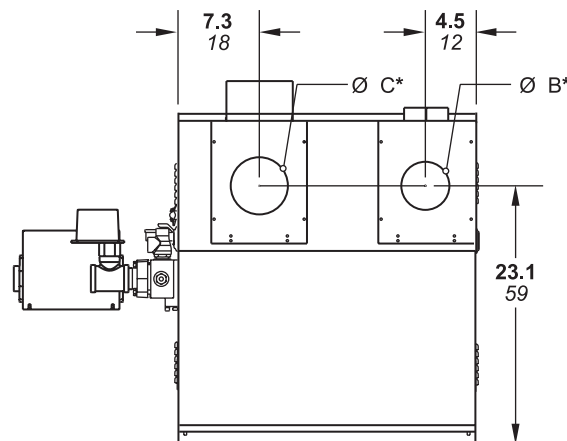
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



REAR VIEW

Dimensions shown in **inches cm.**

Size	A		Air Conn. B*		Vent Conn. C*		Horiz Vent Pipe	
	in	cm	in	cm	in	cm	in	cm
400	33½	85	6	15	7	18	6	15

*Air and vent connections may be on top or back of the Mighty Therm2, and are field convertible.

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