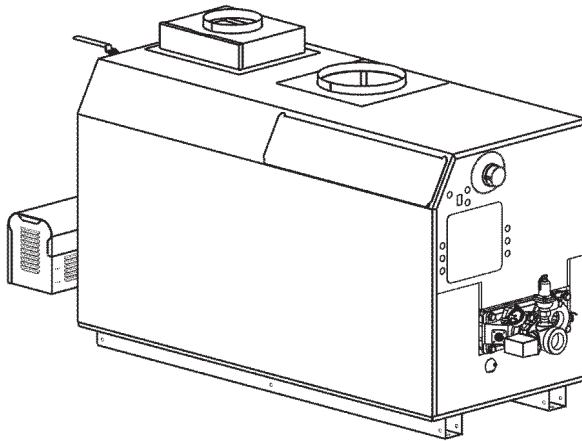


MIGHTY THERM²

Pump-Mounted Boiler

MT2H Hydronic Heater

Indoor/Outdoor Sizes 500-2000



Date:

Project #:

Engineer:

Prepared By:

Bid Date:

Submittal Data

Project Name:

Location:

Contractor:

Standard Equipment

- ASME 160 psi working pressure heat exchanger
- ASME "H" stamp
- Two-stage firing
- Flanged water connections
- Glass-lined headers
- External header gaskets
- 75 psi (517 kPa) ASME rated pressure relief valve
- Flow switch
- Temperature pressure gauge
- Pump, mounted and wired
- Multiple operating gas valve/pressure regulators
- Manual "A" gas valve
- Intake air filter
- Multiple, removable burner trays
- Stainless steel burners
- Built-in draft fan for Category I or III vent systems
- Air pressure switch
- Burner site glass
- 24V control system
- 115/24VAC transformer
- Manual reset high limit
- External controller connections with selector switch
- Hot surface ignition
- On/Off toggle switch
- Pump time delay
- Less than 10 ppm NOx

Boiler Data

Number of Units:

Fuel

- ☐ Natural
☐ Propane

Heat Exchanger

- ☐ Copper (Std)
☐ Cupro-Nickel
☐ Copper, Reversed
☐ Cupro-Nickel, Reversed

Water Trim

- ☐ Glass-Lined Cast Iron
☐ Bronze Trim

Options

- ☐ CSD-1
☐ 200°F Max Controls
☐ Low Water Cutoff
☐ Auto reset high limit
☐ Ignition failure alarm with bell and dry contacts, red trouble and green main gas lights
☐ Reversed heat exchanger



Sizing Data

	Size	Input ¹ BTU/hr.	Input ¹ kW	Output ¹ BTU/hr.	Output ¹ kW	Gas Conn. Size inches ²	Water Conn Size inches ²	Shipping Weight lbs	kg
	500	500,000	147	425,000	125	1¼	2	700	318
	750	750,000	220	638,000	187	1¼	2	765	361
	1000	1,000,000	293	850,000	249	1½	2½	940	426
	1250	1,250,000	366	1,065,000	312	2	2½	1035	469
	1500	1,500,000	440	1,278,000	374	2	2½	1170	531
	1750	1,750,000	513	1,491,000	437	2	2½	1265	574
	2000	2,000,000	586	1,704,000	499	2	2½	1395	633

	Size	AHRI Certified Ratings Combustion Efficiency%	Thermal Efficiency%
	500	85.0	85.0
	750	85.0	85.0
	1000	85.0	85.0
	1250	85.1	85.2
	1500	85.1	85.2
	1750	85.1	85.2
	2000	85.1	85.2

- NOTES:**
1. Input and output must be derated 4% per 1000 feet above sea level when installed above 2000 feet altitude.
 2. Dimensions are nominal.
 3. Shipping weight is approximate based on previous units shipped and can be effected by several variables including the various weights for optional pumps and even the green or dry wood used in the crate.

Accessories

-  Side-wall vent terminal for indoor unit with horizontal venting
-  Vent terminal for outdoor unit
-  Air terminal for outdoor unit
-  Side-wall combustion air terminal for indoor unit with horizontal ducted air
-  Propane conversion kit
-  Natural gas conversion kit

Water Flow Data

Size	Temperature Rise in Degrees							
	20°F	11°C	25°F	14°C	30°F	17°C	35°F	19°C
	Flow gpm	Flow lpm	Flow gpm	Flow lpm	Flow gpm	Flow lpm	Flow gpm	Flow lpm
500	43	161	34	129	28	107	24	92
750	64	242	51	193	43	161	36	138
1000	85	321	68	257	57	214	49	184
1250	106	402	85	322	71	268	61	230
1500	128	483	102	386	85	322	73	276
1750	N/R	N/R	119	451	99	375	85	322
2000	N/R	N/R	136	515	113	429	97	368

Electrical

Data

Size	Boiler Circuit			Pump Circuit		
	Voltage	Phase	Overcurrent Protection Rating	Volts	Phase	Overcurrent Protection Rating
500	120 VAC	Single	20 Amps	Included in Boiler Circuit		
750	120 VAC	Single	20 Amps	Included in Boiler Circuit		
1000	120 VAC	Single	25 Amps	Included in Boiler Circuit		
1250	120 VAC	Single	30 Amps	Included in Boiler Circuit		
1500	120 VAC	Single	30 Amps	Included in Boiler Circuit		
1750	120 VAC	Single	--	120 VAC	Single	15 Amps
2000	120 VAC	Single	--	120 VAC	Single	20 Amps

Pump

Data

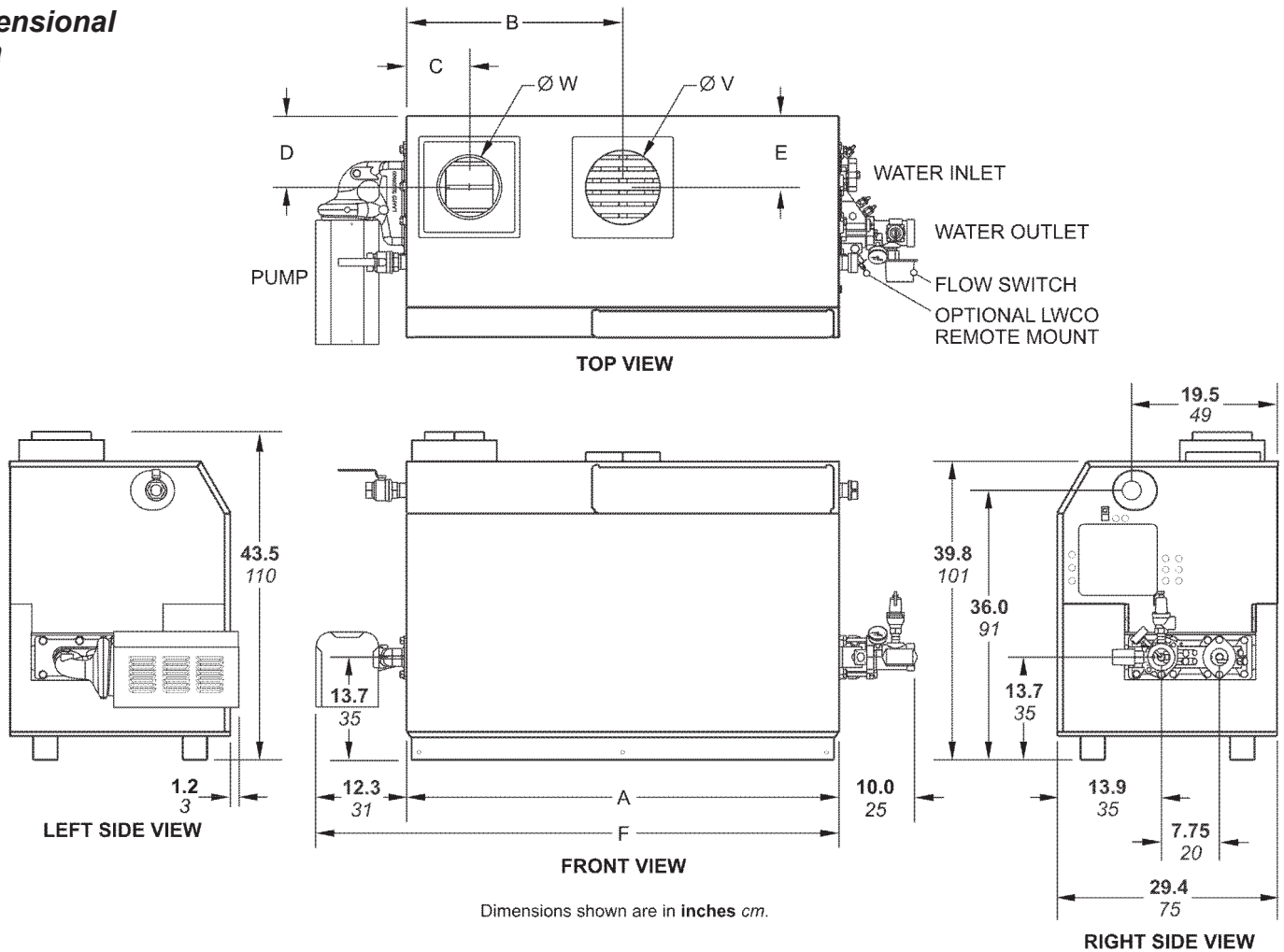
Size	HP	Amps
500	1/3	2.8
750	1/3	2.8
1000	1/2	5.2
1250	1/2	5.2
1500	3/4	7.2
1750	3/4	7.2
2000	1	9.8

Clearances

Appliance Surface	Required Clearance From Combustible Material		Suggested Service Access Clearances	
Left Side	1	2.5	24	61
Right Side	1	2.5	24	61
Top	1	2.5	12	30
Back	1	2.5	12	30
Front	1	2.5	36	91
Vent	Per venting system supplier's instructions			

Dimensions in inches cm

Dimensional Data



Size	A		B		C		D		E		F		Air Conn. W	Vent Conn. V
500	33 ³ / ₄	86	16 ³ / ₄	43	6 ¹ / ₂	17	10	25	8	20	46 ¹ / ₄	117	6 15	8 20
750	45 ³ / ₄	116	22 ³ / ₄	58	6 ¹ / ₂	17	10	25	9 ¹ / ₂	24	58 ³ / ₄	148	8 20	10 25
1000	57 ³ / ₄	147	28 ³ / ₄	73	6 ¹ / ₂	17	10	25	9 ¹ / ₂	24	70 ¹ / ₄	178	8 20	10 25
1250	68 ¹ / ₄	173	34 ¹ / ₄	87	10 ¹ / ₄	26	10	25	9	23	80 ³ / ₄	205	12 30	12 30
1500	78 ³ / ₄	200	39 ¹ / ₂	100	10 ¹ / ₄	26	10	25	9	23	91 ¹ / ₄	232	12 30	12 30
1750	89 ¹ / ₄	227	44 ³ / ₄	113	10 ¹ / ₄	26	10	25	9	23	101 ³ / ₄	258	12 30	14 36
2000	99 ³ / ₄	253	49 ³ / ₄	127	10 ¹ / ₄	26	10	25	9	23	112 ¹ / ₄	285	12 30	14 36

Dimensions shown in inches cm.

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement.