

MIGHTY THERM2

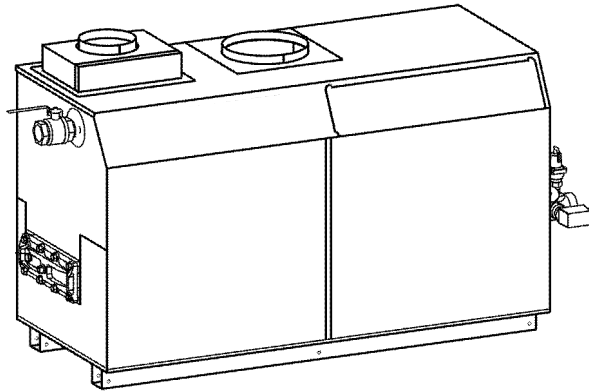
Boiler

MT2H Hydronic Heater

Indoor/Outdoor Sizes 500-2000



Submittal Data



Date:

Project #:

Engineer:

Prepared By:

Bid Date:

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
- Multiple operating gas valve/pressure regulators
- Temperature pressure gauge
- 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 (Std)
☐ 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	630	286
☐	750	750,000	220	638,000	187	1¼	2	725	329
☐	1000	1,000,000	293	850,000	249	1½	2½	820	372
☐	1250	1,250,000	366	1,065,000	312	2	2½	915	415
☐	1500	1,500,000	440	1,278,000	374	2	2½	1010	458
☐	1750	1,750,000	513	1,491,000	439	2	2½	1105	501
☐	2000	2,000,000	586	1,704,000	499	2	2½	1200	544

AHRI Certified Ratings			
Size	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 green or dry wood used in the crate.

Accessories

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

Water Flow Requirements

Size	TEMPERATURE RISE IN DEGREES															
	20°F				11°C				25°F				14°C			
	Flow gpm	H/L feet	Flow lpm	H/L m	Flow gpm	H/L feet	Flow lpm	H/L m	Flow gpm	H/L feet	Flow lpm	H/L m	Flow gpm	H/L feet	Flow lpm	H/L m
500	43	1.7	161	0.5	34	1.1	129	0.3	28	0.9	107	0.3	24	0.7	92	0.2
750	64	3.3	242	1.0	51	2.3	193	0.7	43	1.7	161	0.5	36	1.2	138	0.4
1000	85	5.0	321	1.5	68	3.6	257	1.1	57	3.1	214	0.9	49	2.2	184	0.7
1250	106	8.1	402	2.5	85	6.1	322	1.9	71	4.7	268	1.4	61	3.4	230	1.0
1500	128	10.0	483	3.0	102	7.2	386	2.2	85	5.5	322	1.7	73	4.2	276	1.3
1750	N/R	N/R	N/R	N/R	119	10.5	451	3.2	99	8.4	375	2.6	85	5.8	322	1.8
2000	N/R	N/R	N/R	N/R	136	12.5	515	3.8	113	10.4	429	3.2	97	8.3	368	2.5

NOTE: Headloss (H/L) shown is for the heat exchanger only.

Clearances

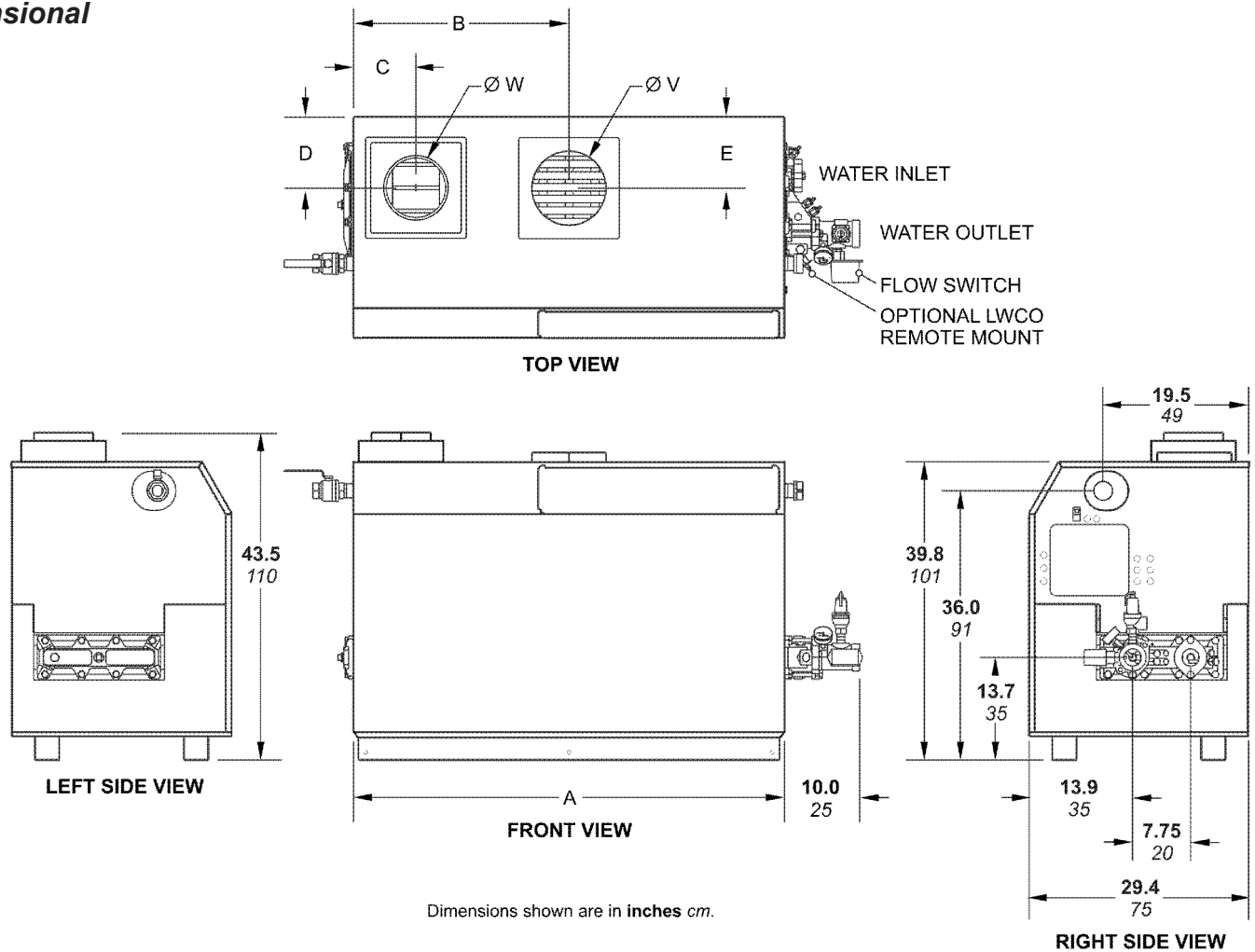
Appliance Surface	Required Clearance From Combustible Material		Suggested Service Access Clearances	
Left Side	1	2.5	24	61
Right Side	1	2.5	24	61
Top	1	2.5	12	30
Back	1	2.5	12	30
Front	1	2.5	36	91
Vent	Per venting system supplier's instructions			

Dimensions in inches cm

Electrical Data

Size	Boiler Circuit			Pump Contacts		
	Voltage	Phase	Overcurrent Protection Rating	Voltage	Phase	Overcurrent Protection Rating
500	120 VAC	Single	15 Amps	120 VAC	Single	15 Amps
750	120 VAC	Single	15 Amps	120 VAC	Single	15 Amps
1000	120 VAC	Single	20 Amps	120 VAC	Single	15 Amps
1250	120 VAC	Single	25 Amps	120 VAC	Single	15 Amps
1500	120 VAC	Single	25 Amps	120 VAC	Single	15 Amps
1750	120 VAC	Single	25 Amps	120 VAC	Single	15 Amps
2000	120 VAC	Single	25 Amps	120 VAC	Single	20 Amps

Dimensional Data



Size	A		B		C		D		E		Air Conn. W	Vent Conn. V		
500	33¾	85	16¾	43	6½	17	10	25	8	20	6	15	8	20
750	45¾	116	22¾	53	6½	17	10	25	9½	24	8	20	10	25
1000	57¾	147	28¾	73	6½	17	10	25	9½	24	8	20	10	25
1250	68¼	173	34	87	10¼	26	10	25	9	23	12	30	12	30
1500	78¾	200	39½	100	10¼	26	10	25	9	23	12	30	12	30
1750	89¼	227	44¾	113	10¼	26	10	25	9	23	12	30	14	36
2000	99¾	253	49¾	127	10¼	26	10	25	9	23	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.