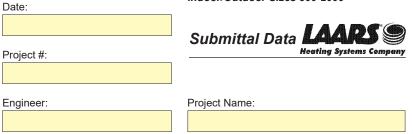
## **MIGHTY THERM2®**

# Pump-Mounted **Pool Heater**

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Pump Mounted Pool Heater

Indoor/Outdoor Sizes 500-2000



repared By:	Location:

Contractor:

#### Standard Equipment

- ASME 160 psi working pressure heat exchanger
- · ASME "H" stamp
- Flanged water connections
- Glass-lined cast iron headers
- External header gaskets
- 75 psi (517 kPa) ASME rated pressure relief valve
- Flow switch
- Temperature and pressure gauge
- · Pump mounted and wired

- Mixing system for low temperature protection
- Multiple operating gas valve/ pressure regulators
- · Manual "A" gas valve
- Intake air filter

Bid Date:

- · Multiple, removable burner trays
- Stainless steel burners
- Built-in draft fan(s) for Category I or III venting
- · Air pressure switch
- · Burner site glass

- · 24V control system
- 115/24VAC transformer
- · Manual reset high limit
- · Hot surface ignition
- On/Off toggle switch
- · Pump time delay
- · Diagnostic lights
- Less than 10ppm NOx
- External controller connections with selector switch

#### **Boiler Data**

#### **Number of Units:**



#### Fuel

Natural
Propane

#### **Heat Exchanger**

Copper

Cupro-Nickel

Copper, Reversed

Cupro-Nickel, Reversed

#### **Options**

CSD-1 (LWCO not incl.)

Low water cutoff

Ignition failure alarm with bell and dry contacts, red trouble lights and green main gas lights







#### Sizing Data

	Size	Input¹ BTU/H	Input¹ kW	Output <sup>1</sup> BTU/H	Output¹ kW	Gas Conn. Size inches <sup>2</sup>	Water Conn. Size (inches²	System Water Conn. Size inches <sup>2</sup>	Shippi Weigh Ibs	
	500	500,000	147	425,000	125	11/4	2	2	760	345
	750	750,000	220	638,500	187	11/4	2	2	855	388
	1000	999,000	293	849,000	249	1½	21/2	2	1020	463
	1250	1,250,000	366	1,062,500	311	2	21/2	2	1115	506
	1500	1,500,000	440	1,275,000	374	2	2½	2	1260	572
	1750	1,750,000	513	1,487,500	436	2	21/2	2	1365	619
	2000	1,999,000	586	1,699,000	498	2	2½	2	1495	678

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 affected by several variables including the various weights for optional pumps and even the green or dry wood used in the crate.

Heater

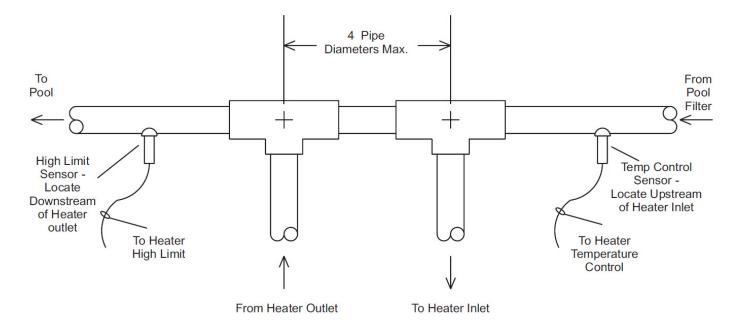
Mixing

#### Accessories

- Side-wall vent terminal for indoor unit (required for side-wall venting)
- Side-wall combustion air terminal for indoor unit (required only for ducted combustion air)
- Exhaust vent terminal for outdoor unit
- Combustion air intake for outdoor unit

# Piping and Sensor Location

The Mighty Therm2 Pool Heater is shipped with a field-installed mixing system, and must be piped in primary-secondary style, as shown. A remote pool temperature sensor and remote pool temperature high limit are wired to the Mighty Therm2, to be mounted in the pool water loop, as shown.



# Clearances

Appliance Surface	Required Cle Combustib		Suggested Service Access Clearances		
Left Side	1	2.5	24	61	
Right Side	1	2.5	24	61	
Тор	1	2.5	12	30	
Back*	1	2.5	12	30	
Front	1	2.5	36	91	
Vent	Per ventir supplier's i	0 ,			

<sup>\*</sup>When vent and/or air is connected to the back, 36" (91cm) is suggested. Dimensions in  ${\bf inches}\ cm$ 

### Electrical Data

		Single Circuit Size	Two Circuit Size		
Model	Volts	Phase	(Heater & Pump)	Heater	Pump
MT2P 500 - 750			20 Amps	15 Amps	15 Amps
MT2P 1000	120	Single	25 Amps	20 Amps	15 Amps
MT2P 1250 - 1500	120	Olligic	30 Amps	25 Amps	15 Amps
MT2P 1750 - 2000			N/A	25 Amps	20 Amps

# Pump Data

Sizes	Power (HP)	Current (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	1	9.8
2000	1	9.8

#### Dimensional Data

