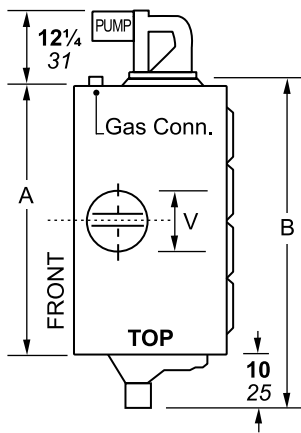
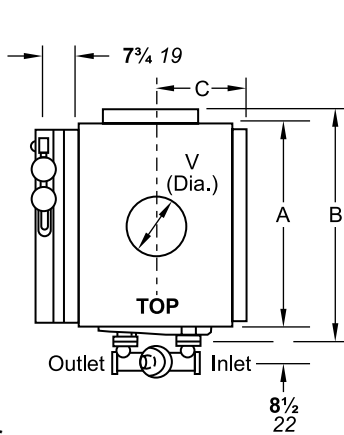
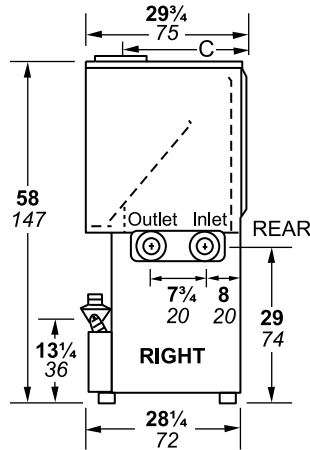


# MIGHTY THERM®

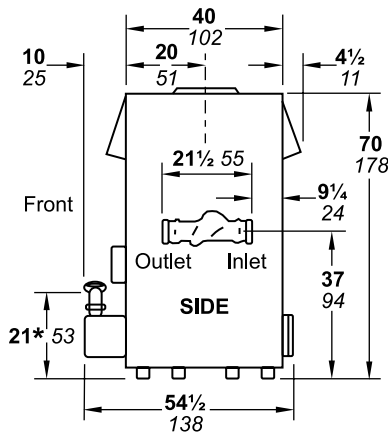
# Commercial Pool Heater



Indoor  
Models 500-1825



Indoor  
Models 2000-5000



\*29" for models 3500 - 5000

AP Commercial Pool Heating Boiler  
Indoor (I)

Indoor Sizes 500-5000

Submittal Data **LAARS**  
Heating Systems Company

Dimensions (nominal) shown  
in inches cm.

## Standard Equipment

- ASME 160 lb. working pressure heat exchanger
- 24V control system
- Operating gas valve/pressure regulator
- Redundant safety gas valve
- Water flow sensing device
- Removable burner tray (500-1825)
- Built-in draft hood
- Glass lined cast iron headers
- Flow control valve (2000-5000)
- Pilot gas regulator
- Redundant safety gas valve
- Electronic temperature control (500-1825)
- Manual reset high limit
- Automatic reset high limit (3050-5000)
- Manual "A" gas valve
- Manual shut-off valve
- Manual pilot valve
- Stainless steel burners
- External water side gaskets
- Integral pump (500-1825)
- Flanged connections
- High gas pressure switch (3050-5000)
- Pressure relief valve (75 PSI)
- 115/24V transformer
- Temperature/pressure gauges
- On/Off/Auto toggle switch
- Power on light

## Minimum Clearances from Adjacent Construction

Recommended Minimum Clearance From	Models 500-1825 Indoor		Models 2000-5000 Indoor	
	inches	cm	inches	cm
Top	30	76	24	61
Water connection side	12*	31	24	61
Pump side	6*	15	24	61
Front	Alcove*		48	122
Rear	8	20	24	61
Vent pipe	6	15	6	15

**NOTE:** Models 500 to 1825 must be installed on non-combustible floors or with base for combustible floors (Laars optional base A.G.A. design certified). Models 2000 to 5000 require installation on non-combustible floors.  
\*For maintenance accessibility (removal of burners, etc.) at least 48" (1220mm) clearance should be provided in front of the boiler, and 24" (610mm) clearance on the water connection and pump sides.

### Specification Data

Indoor Size	Input <sup>1</sup>		Output <sup>1</sup>		Gas Connection Size inches		Water Conn. <sup>2</sup> inches
	MBTU/H	kW	MBTU/H	kW	Natural	LP	
500	500	147	405	119	1	¾	2½
600	600	176	486	143	1	¾	2½
715	715	210	579	170	1	¾	2½
850	850	249	689	202	1	¾	2½
1010	1010	296	818	240	1¼	1	2½
1200	1200	352	972	285	1¼	1	2½
1430	1430	419	1158	339	1¼	1¼	2½
1670	1670	489	1353	396	1½	1¼	2½
1825	1825	535	1478	433	1½	1¼	2½
2000	2000	586	1639	480	1½	1¼	4
2450	2450	718	2009	589	1½	1½	4
3050	3050	894	2501	733	2	1½	4
3500	3500	1025	2870	841	2	1½	4
4050	4050	1186	3321	973	2	2	4
4500	4500	1318	3690	1081	2½	2	4
5000	5000	1465	4100	1201	2½	2	4

- 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. Integral pump included on sizes 500-1825.

### Dimensional Data

Indoor Size	Dimensions <sup>2</sup> - inches cm								Shipping Weight <sup>3</sup>	
	A		B		C		V		lbs	kgs
500	33¾	86	45¼	115	23¾	60	10	25	808	367
600	38¾	98	50¼	128	22¾	58	12	30	819	372
715	44¼	112	55¾	142	22¾	58	12	30	873	396
850	50¾	129	62¼	158	21¾	55	14	36	945	429
1010	58	147	69½	177	20¾	53	16	41	1041	473
1200	66¼	168	77¾	197	20¾	53	16	41	1199	544
1430	76	193	87½	222	19¾	50	18	46	1280	581
1670	85½	217	97	246	19¾	50	18	46	1445	656
1825	92½	235	103¾	264	19¾	50	18	46	1570	713
2000	55½	141	73	185	24½	62	22	56	1950	885
2450	65½	166	83	211	24½	62	24	61	2100	913
3050	78	198	95½	243	24½	62	26	66	2250	1022
3500	88	224	105½	268	24½	62	28	71	2510	1140
4050	100½	255	118	300	24½	62	30	76	2750	1249
4500	110½	281	128	325	24½	62	32	81	2900	1317
5000	123	312	140½	357	24½	62	34	86	3200	1453

- 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. Integral pump included on sizes 500-1825.

### Motor Electrical Data

Sizes	Factory Installed Pumps		
	Power (HP)	Voltage/Phase	Current (Amps)
500—1670	1/2	115/1	5.2
1825	3/4	115/1	7.2