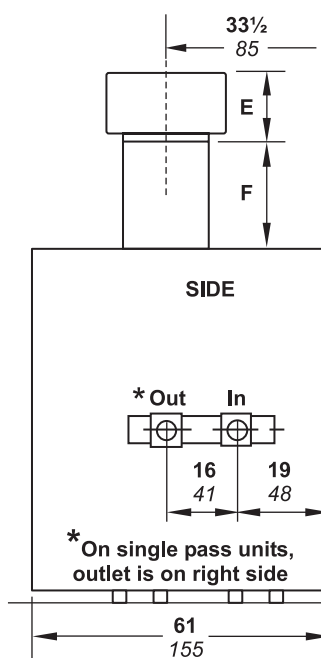
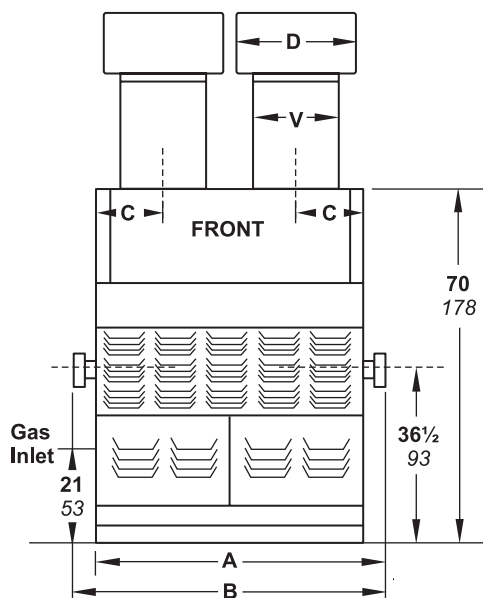
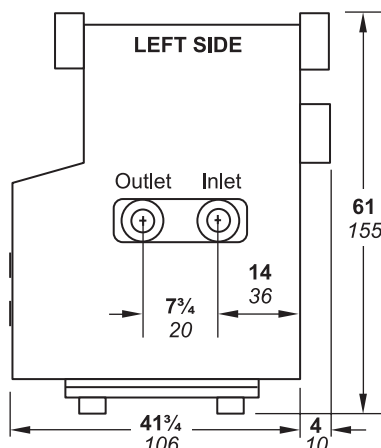
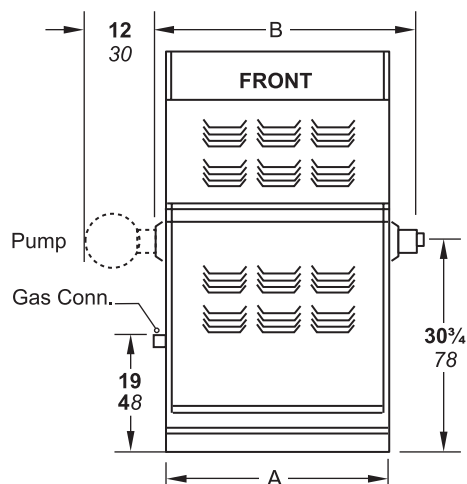


MIGHTY THERM®



Commercial Pool Heater

AP Commercial Pool Heating Boiler Outdoor (E)

Outdoor Sizes 500,000 - 4,500,000 BTU/h

Submittal Data **LAARS**
Heating Systems Company

Outdoor Models 500-1825

Outdoor Models 2200-4500

Dimensions (nominal) shown in inches cm.
*29" 74cm for models 2800-4500

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 (2200-4500)
- Pilot gas regulator
- Redundant safety gas valve
- Electronic temperature control (500-1825)
- Manual reset high limit
- Automatic reset high limit (2800-4500)
- Manual "A" gas valve
- Manual shut-off valve
- Manual pilot valve
- Stainless steel burners
- External water side gaskets
- Integral pump (500-1825)
- High gas pressure switch (2800-4500)
- Pressure relief valve (75 PSI)
- 115/24V transformer
- Temperature/pressure gauges
- On/Off/Auto toggle switch
- Power on light

Motor Electrical Data

Motor	Factory Installed Pumps		
	Sizes	Power (HP)	Voltage/Phase
Electrical	500—1670	1/2	115/1
Data	1825	3/4	115/1

Current (Amps)

5.2

7.2

Specification Data

Outdoor Size	Input ¹		Output ¹		Gas Connection Size inches		Water Conn. ² inches
	MBTU/h	kW	MBTU/h	kW	Natural	LP	
500	500	147	410	120	1	¾	2½
600	600	176	492	144	1	¾	2½
715	715	210	586	172	1	¾	2½
850	850	249	697	204	1	¾	2½
1010	1010	296	828	243	1¼	1	2½
1200	1200	352	984	288	1¼	1	2½
1430	1430	419	1173	344	1¼	1¼	2½
1670	1670	489	1370	401	1½	1¼	2½
1825	1825	535	1497	439	1½	1¼	2½
2200	2205	646	1787	524	1½	1¼	4
2800	2745	804	2224	652	2	1½	4
3200	3150	923	2552	748	2	1½	4
3600	3645	1068	2953	865	2	2	4
4000	4050	1187	3281	961	2½	2	4
4500	4500	1319	3645	1068	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.

Dimensional Data

Dimensional Data													Shipping Weight ³			
Size	Dimensions ² - inches cm												lbs	kgs		
	A		B		C		D		E		F				V	
500	33¾	86	45¼	115	—	—	—	—	—	—	—	—	—	—	855	388
600	38¾	98	50¼	128	—	—	—	—	—	—	—	—	—	—	949	431
715	44¼	112	55¾	142	—	—	—	—	—	—	—	—	—	—	1050	477
850	50¾	129	62¼	158	—	—	—	—	—	—	—	—	—	—	1100	499
1010	58	147	69½	177	—	—	—	—	—	—	—	—	—	—	1240	563
1200	66¼	168	77¾	197	—	—	—	—	—	—	—	—	—	—	1410	640
1430	76	193	87½	222	—	—	—	—	—	—	—	—	—	—	1570	713
1670	85½	217	97	246	—	—	—	—	—	—	—	—	—	—	1622	736
1825	92½	235	103¾	264	—	—	—	—	—	—	—	—	—	—	1725	783
2200	65½	166	83	211	16	41	28¼	72	15	38	24	61	18	46	2320	1053
2800	78	198	95½	243	20	51	28¼	72	15	38	24	61	18	46	2500	1135
3200	88	224	105½	268	23	58	31½	80	16½	42	36	91	20	51	2840	1289
3600	100½	255	118	300	29	74	31½	80	16½	42	36	91	20	51	3175	1142
4000	110½	281	128	325	30½	77	34½	88	18	46	36	91	22	56	3940	1789
4500	123	312	140½	357	34	86	37¾	96	19½	50	36	91	24	61	3790	1721

NOTES: 2. Dimensions are nominal.
3. Integral pump included on sizes 500-1825.

Minimum Clearances from Adjacent Construction

Recommended Minimum Clearance From	Models 500-1825 Outdoor		Models 2200-4500 Outdoor	
	inches	cm	inches	cm
Top	—	—	—	—
Water connection side	24	61	24	61
Pump side	24	61	24	61
Front	Open		Open	
Rear	24	61	24	61
Vent pipe	—	—	—	—

NOTE: Models 500 to 1825 outdoor units are certified for placement on combustible floors. (Never install on carpet.)



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