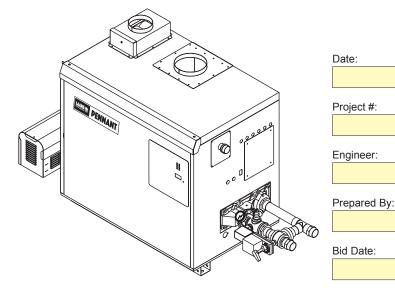
PENNANT



Pum	p-Mounted
Pool	Heater

PNCP | Pump Mounted Pool Heater

Indoor/Outdoor Sizes 500-2000



Project Name:	
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
- · 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
- Automatic reset high limit
- Electronic temperature control with LCD and touchpad
- · PC board for electrical connections
- · Hot surface ignition
- · On/Off toggle switch
- Pump time delay
- · Diagnostic lights
- · Less than 10ppm NOx

Boiler Data

Model:

Boiler PNCP

Number of Units:



Fuel

Natural

Propane

Heat Exchanger

Copper

Cupro-Nickel

Copper, Reversed

Cupro-Nickel, Reversed

Water Trim

Glass-Lined Cast Iron

Bronze Trim

Options

CSD-1 (LWCO not incl.)

CSD-1 & IRI

Low water cutoff









Sizing Data

Size	Input¹ BTU/H	Output ¹ BTU/H	Gas Conn. Size inches ²	Heater Water Conn. Size inches ²	Mixing System Water Conn. Size inches ²	Shipp Wei Ibs		
500	500,000	425,000	11/4	2	2	775	352	
750	750,000	638,000	11/4	2	2	870	395	
1000	999,000	849,000	1½	2½	2	1035	469	
1250	1,250,000	1,062,500	2	2½	2	1130	513	
1500	1,500,000	1,275,000	2	2½	2	1285	583	
1750	1,750,000	1,487,500	2	2½	2	1380	626	
2000	1,999,000	1,699,000	2	2½	2	1510	685	

Size	Input¹ kW	Output¹ kW
500	147	125
750	220	187
1000	293	249
1250	366	312
1500	440	374
1750	513	436
2000	586	498

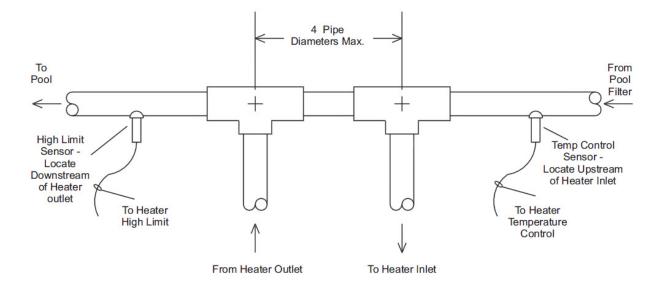
- NOTES: 1. Input and output must be derated 4% per 1000 feet above sea level when installed above 2000 feet altitude.
 - 2. Dimensions are nominal.
 - 3. Shipping weight is approximate, based on previous units shipped and can be affected by several variables including the various weights for optional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

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 Pennant 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 Pennant, to be mounted in the pool water loop, as shown.



Clearances

Appliance Surface	Required Cle Combustib		Suggeste Access C	
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 in			

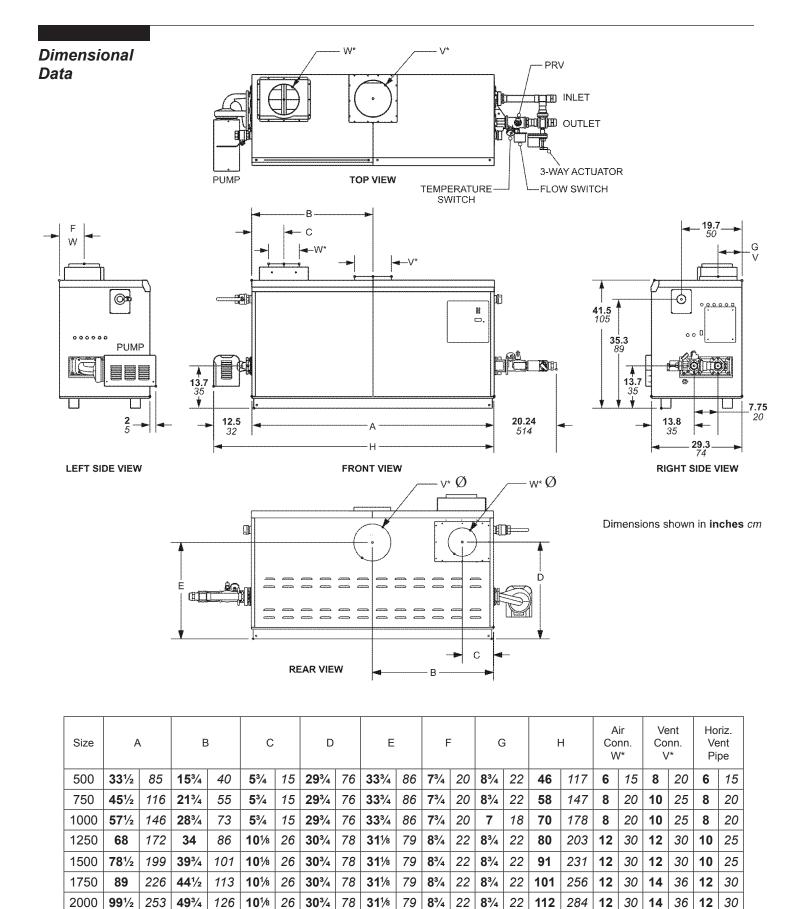
^{*}When vent and/or air is connected to the back, 36" (91cm) is suggested. Dimensions in **inches** $\it cm$

Electrical Data

Model	Е	Boiler / Hea	ter	Pump		Blower(s)	
	Volts	Phase	Amps	Volts	Phase	Amps	
PNCH, PNCV Pump mounted 500-1000	115	Single	Less than 12		Included in Pennant connection	-	Included in Pennant connection
PNCH, PNCV Pump mounted 1250-2000	115	Single	Less than 12	115	Single	Less than 12	Included in Pennant connection

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





*Air and vent connections may be on top or back of the Pennant, and are field convertible

Dimensions in inches cm