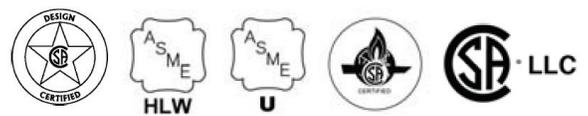




**Product Submittal for XTherm® - Type P
Pool Heater
Models 1005A-2005A**

Date: _____ Job: _____ Location: _____
Equipment Tags: _____ Engineer: _____ Contractor: _____
Model: _____ Notes: _____
Prepared by: _____ Indoor Outdoor Gas Type: Natural Gas Propane

- 97% thermal efficiency at full rate
- 100% factory fire-tested
- VERSA IC® integrated controller with 7" color touchscreen display
- Raymote™ remote connectivity provided standard
- Full safety diagnostics with history
- Status display lights
- Cascade up to 8 heaters – no external sequencer required
- Maximum outlet water temperature setpoint: 104°F (40°C)
- Minimum acceptable inlet water temperature: 50°F (10°C)
- Limited 25-year thermal shock warranty
- Limited 5-year primary heat exchanger warranty
- Limited 10-year secondary heat exchanger warranty
- Maximum Pool Setpoint 106°F (41°C) (104°F [40°C] default))
- On/Off operation
- SCAQMD Rule 1146.2 certified, Low NOx < 20 ppm
- Primary/secondary piping mandatory for proper operation
- Proudly assembled in the USA



Features and Options
Heat Exchanger

- Bronze headers
- ASME HLW stamped; 80 PSIG MAWP
- National board registered
- Fin tubing
 - Copper (standard)
 - A-3 Cupronickel
- ASME powder-coated tube sheet
- Silicone high-temp O-rings
- ASME pressure relief valve
 - 75 PSIG (standard)
 - ___ PSIG (optional)
- Air bleed valve, manual
- T&P gauge
- Stainless steel condensing heat exchanger - U stamped
- Boiler pump: bronze, 120V, 1Ø, 60Hz

Power

- 120V, 60Hz, 1Ø, power supply
- 120/24V, 60Hz, transformer

Control

- VERSA IC® 7" (178 mm) color HD touchscreen display
- Raymote™ Wi-Fi remote connectivity
- Cascade up to 8 heaters
- Cascade interstage delay settings
- Ignition Module
 - 3-Try (standard)
 - C-6 Single-try
- Remote flame sensor
- Fixed high limit, manual reset, 180°F
- On/Off power switch
- Flow switch
- Blocked vent pressure switch
- Freeze protection
- Alarm dry contact
- Programmable pump time delays

- Water temperature sensors 10KΩ (2 mtd, 1 loose, 1 well)
- Cold water protection
- Blocked condensate switch
- Modbus RTU BMS Port (Up to 115K baud rate, See Cat. 5000.73)
 - B-85 BMS Gateway, Modbus RTU to Modbus TCP, N2 Metasys, BACnet IP, or BACnet MS/TP
 - B-86 BMS Gateway, Modbus RTU to LonWorks

Burner

- Hot surface ignition (HSI)
- Radially-fired knitted burner

Gas Train

- Fuel
 - Natural gas
 - Propane (minimum grade HD-5)
- Zero governor regulator
- Dual-seat combination valve
- Electronic firing mode (P)

Construction

- Indoor/outdoor construction
- Enclosed front controls
- PolyTuf powder coat finish
- Rear connections (water, gas, vent, electrical, combustion air, condensate drain)
- Combustion air filter
- Design certified ANSI Z21.10.3/CSA 4.3
- CSA Low-Lead Certified ≤ .25% Lead
- Front connection low-voltage wiring

Venting, cat IV

- D-11 Vent termination, outdoor (shipped loose)
- D-15 Vent termination, sidewall (shipped loose)
- D-23 Outdoor vent supports (shipped loose)
- D-37 Motorized combustion air damper (shipped loose)
- D-18 Adapter, heater flue (shipped loose)
- D-19 Adapter, flue termination (shipped loose)
- D-32 Adapter, PVC vent with vent temp switch (factory-installed only)
- D-33 Adapter, Centrotherm™ polypro (shipped loose)

Options

- E-5 Boiler alarm with 4" bell
- E-15 Alarm with buzzer
- F-10 Low water cut-off, remote probe
- I-14 High limit, adj. auto reset 180°F max
- I-20 High limit, adj. manual reset 180°F max
- M-1 Safety valve, motorized
- M-10 Safety valve, solenoid
- M-15 Safety valve, vent valve (requires M-1 or M-10)
- S-1 Low gas pressure switch, manual reset
- S-2 High gas pressure switch, manual reset
- Z-9 Thermometer
- Z-12 Condensate treatment kit

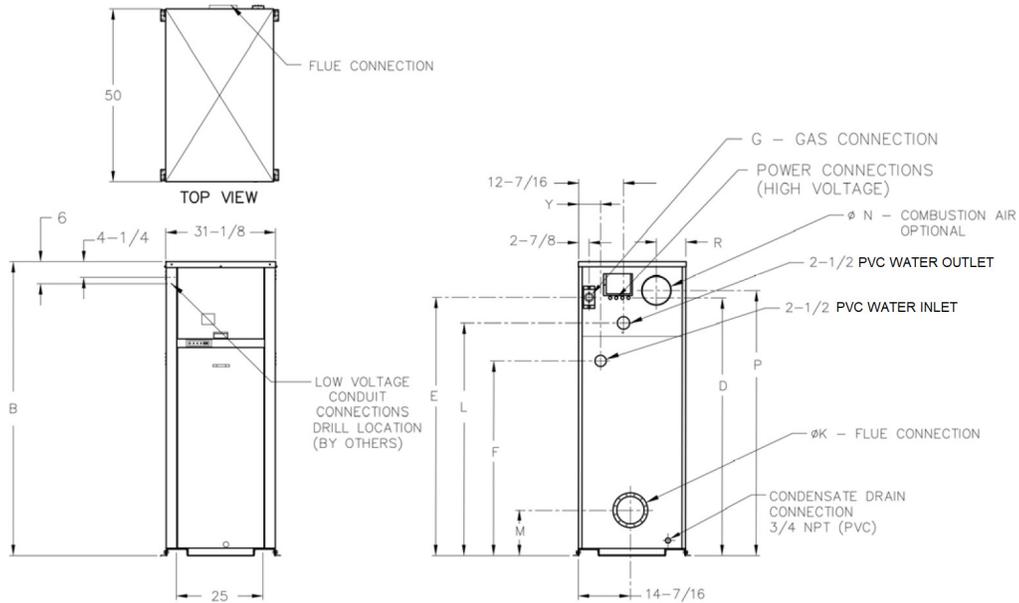
Additional options or accessories

- _____

Regulatory agency requirements

- G-15 CSD-1 field upgrade

Job: _____



Ratings shown are for elevations up to 4,500 ft. De-rate above 4,500 ft; consult factory. No hardware changes below 10,000 ft.
 *For propane gas, all models are 1" NPT.

Model P-	MBTUH (kWh)		Dimensions - inches (mm)												Shipping Weight lbs. (kg)
	Input	Output	B Height	D	E	F	G* NPT	K Flue Ø	L	M	N C/A Ø	P	R	Y	
<input type="checkbox"/> 1005A	999 (292.8)	969 (284)	55-1/8 (1400.2)	45 (1143)	47-1/8 (1197)	36-1/2 (927.1)	1-1/4	6	40-1/16 (1017.6)	11-1/2 (292.1)	6	47-1/8 (1197)	8-1/16 (204.8)	6-1/16 (154)	1065 (483.1)
<input type="checkbox"/> 1505A	1500 (439.6)	1455 (426.4)	67-1/8 (1705)	57 (1447.8)	59-1/16 (1500.2)	38-1/2 (978)	1-1/4	8	52-1/16 (1322.4)	12-5/8 (320.7)	8	59-1/8 (1501.8)	8-3/16 (208)	6-1/16 (154)	1234 (559.7)
<input type="checkbox"/> 2005A	1999 (585.8)	1939 (568.3)	81-1/8 (2060.6)	71 (1803.4)	71-3/16 (1808.2)	38-1/2 (978)	2	8	64-1/16 (1627.2)	12-5/8 (320.7)	8	73-1/8 (1857.4)	8-3/16 (208)	6-1/4 (158.8)	1461 (662.7)

Ratings shown are for elevations up to 4,500 ft. De-rate above 4,500 ft; consult factory. No hardware changes below 10,000 ft.
 *For propane gas, all models are 1" NPT.

CLEARANCES		
Heater Side	Minimum Clearances from Combustible Surfaces in. (mm)	Minimum Service Clearance in. (mm)
Front	24" (609)	24" (609)
Rear	12" (305)	36" (914)
Right Side	1" (25)	24" (610)
Left Side	1" (25)	1" (25)
Top	0	10" (254)
Floor *	0	N/A
Vent	1" (25)	N/A

Model	Amp Draw*	
	Heater**	Accessories**
<input type="checkbox"/> 1005A	12	10
<input type="checkbox"/> 1505A	12	14
<input type="checkbox"/> 2005A	18	17

*Separate power connections are factory-supplied and separate supply breakers must be field-supplied.
 **Current draw is for heater only (supply breaker must have delayed trip).