

Job: _____
Engineer: _____
Contractor: _____
Prepared By: _____ Date: _____
Model: _____ Indoor/Outdoor: _____

XTherm®


Type P

Pool Heaters

Models 2505-4005

97% Thermal Efficiency at Full Rate
100% Factory Fire Tested
Maximum Setpoint - 106°F
VERSA IC® Modulating Controller with Color Touchscreen Display
Full Safety Diagnostics with History
Status Display Lights
Cascade up to 4 Heaters – No External Sequencer Required
Modbus RTU BMS Port
CSA Low-Lead Certified ≤ .25% Lead
Maximum Outlet Water Temperature: 160°F
Minimum Inlet Water Temperature: 50°F
Limited Five-Year Primary Heat Exchanger Warranty
Limited Ten-Year Condensing Heat Exchanger Warranty
Limited Twenty-Five-Year Thermal Shock Warranty
BAAQMD Certified Per Rule 9-7.



 Proudly Assembled in the USA

Heat Exchanger

- Headers - Bronze
- ASME H Stamped; 160 PSIG MAWP
- National Board Listed
- Fin Tubing
 - Cupro-Nickel Finned Tubing
- ASME Powder-Coated Tube Sheet
- Silicone High-Temp O-Rings
- ASME Pressure Relief Valve
 - 125 PSIG – Standard
- 150 PSI Air Vent, Auto (2)
- T&P Gauge
- Four-Pass Heat Exchanger
- Stainless Steel Evaporator Plate
- 4 Inch Grooved Copper Water Connections

Control

- 240V, 60Hz, 1Ø, Power Supply
- 240/120V 60Hz Transformer
- 240/24V 60Hz Transformer
- VERSA IC® Integrated Control
- Cascade up to 4 Heaters
- Hot Surface Ignition (HSI)
- Ignition Module
 - ☐ 3-Try – Standard
 - ☐ Single-Try – Option C6
- 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
- High Gas Pressure Switch

- Pump outputs – Pilot Duty
 - Injection Pump
 - System
- Programmable Pump Time Delays
- Color HD Touch Screen Display
- Versa IC Temperature Control
- Water Temperature Sensors (4)
- Sensor Wells (2)
- Cold Water Protection Function
- Modbus RTU BMS Port (Up to 115K Baud Rate, see Cat. No. 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

- Radially-Fired Knitted Burner
- Low NOx : Less than 30 PPM NOx (Nat)

Gas Train

- Fuel
 - ☐ Natural Gas
 - ☐ Propane Gas (Minimum Grade HD5)
- Dual-Seat Combination Valve
- Manual Shut Off Firing Valve

Construction

- Indoor/Outdoor Construction
- Enclosed Front Controls
- PolyTuf Powder Coat Finish
- Rear Connections (Water, Gas, Vent, Electrical, Comb. Air)
- Combustion Air Filter

- Front Connection Low Voltage Wiring
- Design Certified ANSI Z21.13/CSA 4.9

Venting

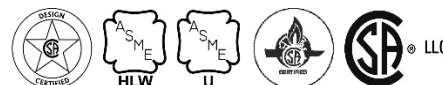
- Vent Termination
 - ☐ D-11 Outdoor or Indoor, Vertical – Option (Cat IV)
 - ☐ D-15 Indoor, Horizontal – Option (Cat IV)
- Extractor – Optional
 - ☐ By others
 - ☐ Not required

Options

- ☐ F-10 Low Water Cut-Off, Remote Probe
- ☐ I-6 High Limit, Auto Reset, Adj., 100-240°F
- ☐ I-12 High Limit, Manual Reset, Adj., 100-240°F
- ☐ S-1 Low Gas Pressure Switch, Manual Reset
- ☐ Z-12 Condensate Treatment Kit

Additional Options or Accessories

☐ _____



Raypak®
A Rheem® Company

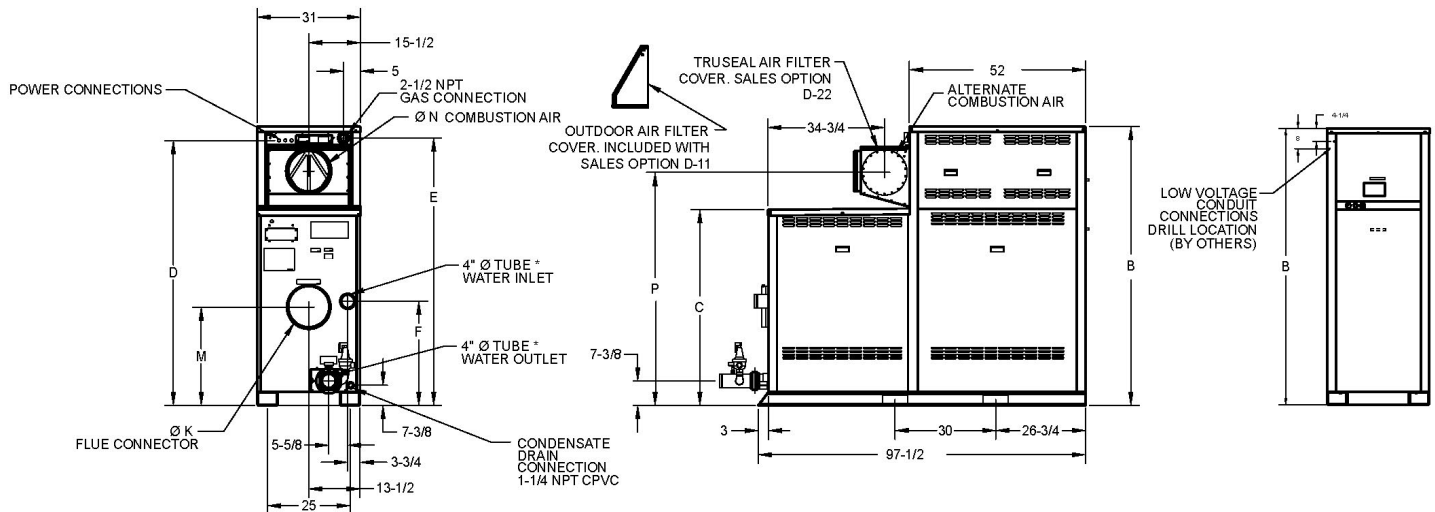
XTherm® - Type P

Models 2505-4005

Model _____

NOTE: Primary/Secondary plumbing arrangement is mandatory for proper operation.

	Clearances (in)						
	Front	Rear	Right	Left	Top	Floor	Vent
Combustible Minimum	24	12	1	1	0	0	1
Minimum Service	30	36	24	1	12	N/A	N/A



Model (P -)	MBTUH		Dimensions (in.)								Amp** Draw	Thermal Efficiency (BTS-2000)	Shipping Weight (Lbs.)	
	Input	Output	B	C	D	E	F	K Flue	M	N C/A				P
<input type="checkbox"/> 2505	2501	2425	68-1/4	43-1/2	64-1/8	65	21-1/4	10	18-1/2	10	54-5/8	12	97%	2656
<input type="checkbox"/> 3005	3000	2910	73-1/4	48-1/2	69-1/8	70	26-1/4	10	23-1/2	10	59-1/2	15		2775
<input type="checkbox"/> 3505	3500	3395	78-1/4	53-1/2	74	75	31-1/4	10	28-1/2	12	64-3/4	17		2925
<input type="checkbox"/> 4005	4000	3880	83-1/4	58-1/2	79	80	31	12	29-1/4	12	69-5/8	20		3058

* Water connections are grooved copper tube.

** Amp draw is for heater only and does not include pumps or accessories.

Model	Internal Heater Pump		External Injection Pump	
	HP	Amp Draw	HP	Amp Draw
<input type="checkbox"/> 2505	1.5	8.2	1.0	7
<input type="checkbox"/> 3005	1.5	8.2	1.5	8.2
<input type="checkbox"/> 3505	1.5	8.2	1.5	8.2
<input type="checkbox"/> 4005	3.0	16	1.5	8.2

Pumps are 240VAC/1PH.

External injection pump ships loose for field installation.

The Chart below represents performance capacity for injection pump as provided with the unit. Pipe size is determined by velocity not to exceed 7.5 ft. per second.

Sys Ret Temp (#F)	Model 2505 (30°F Delta T)				Model 3005 (30°F Delta T)				Model 3505 (32°F Delta T)				Model 4005 (33°F Delta T)			
	Supply Temp (#F)	Flow GPM	Pipe Max Eq Ft		Supply Temp (#F)	Flow GPM	Pipe Max Eq Ft		Supply Temp (#F)	Flow GPM	Pipe Max Eq Ft		Supply Temp (#F)	Flow GPM	Pipe Max Eq Ft	
			3"	4"			3"	4"			3"	4"			3"	4"
60	144	57	230	450	146	67	110	110	148	76	100	100	144	91	100	100
80	144	75	230	450	146	87	110	110	148	99	100	100	144	120	100	100
100	144	109	230	450	146	125	110	110	148	140	100	100	144	175	100	100

HIGH FIRE CONDITIONS

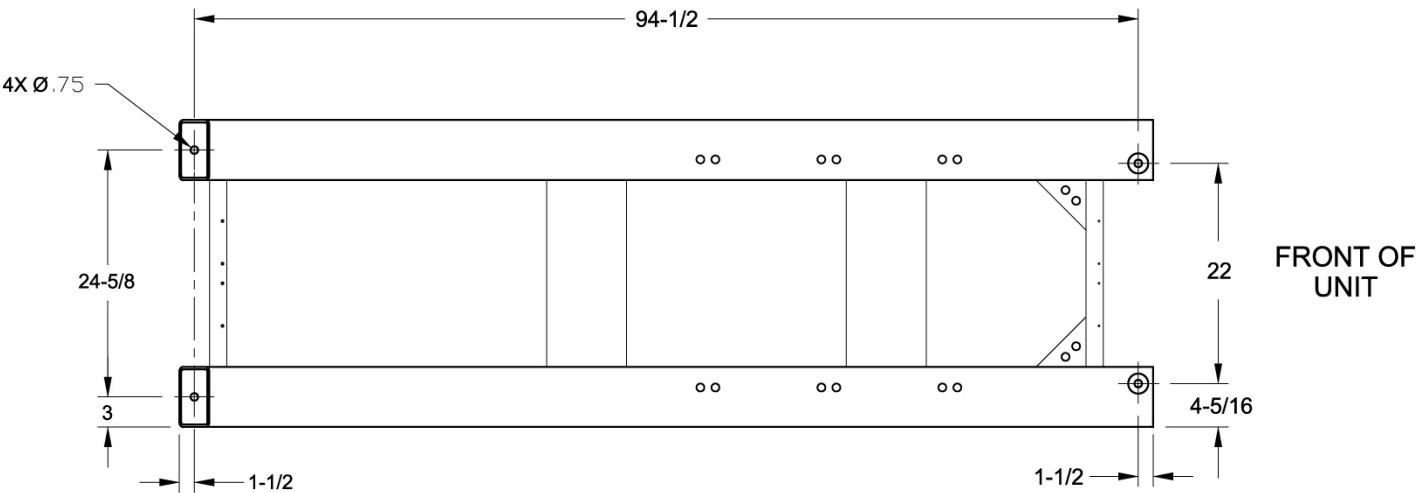
XTherm® - Type P

Models 2505-4005

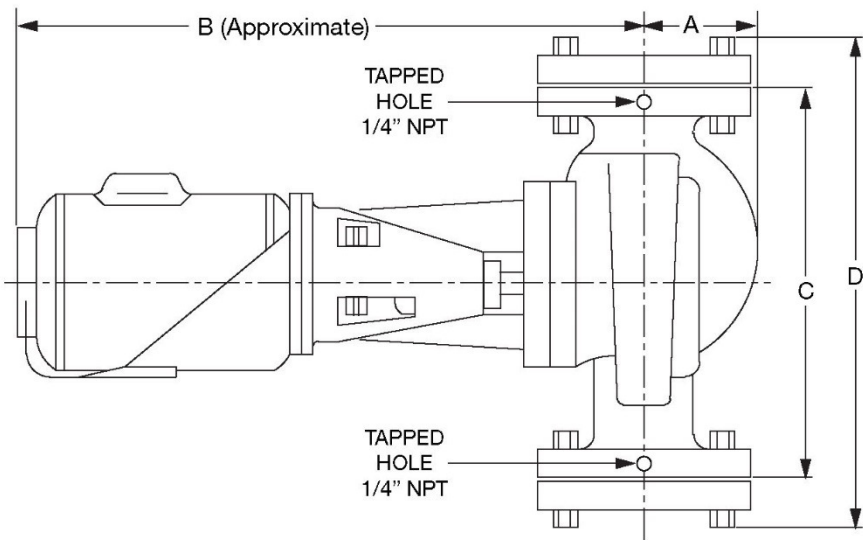
Model _____

NOTE: Primary/Secondary plumbing arrangement is mandatory for proper operation.

Base Anchor Bolt Pattern
Models 2005 - 4005



Injection Pump – Field Installed in Inlet Piping



2" NPT Flanges Included

Model	A	B	C	D
<input type="checkbox"/> 2505	3-1/2	18	13-1/2	16-1/8
<input type="checkbox"/> 3005		18-1/2		
<input type="checkbox"/> 3505		19		
<input type="checkbox"/> 4005				

