Job:

# XTherm® - Type P

## Pool Heaters Models 1005A-2005A

Engineer:

Contractor:

Prepared By:       Date:

Model:       Indoor/Outdoor:

97% Thermal Efficiency at Full Rate

100% Factory Fire Tested

VERSA IC® Controller with 7” color touchscreen display

Raymote™ remote connectivity provided standard

Maximum Outlet Water Temperature Setpoint: 104°F

Minimum Acceptable Inlet Water Temperature: 50°F

CPVC Water Manifold

Full Safety Diagnostics with History

Status Display Lights

Cascade up to 4 heaters – No external sequencer needed

Limited Twenty-Five-Year Thermal Shock Warranty

Limited Five-Year Primary Heat Exchanger Warranty

Proudly Made in the USA



Limited Ten-Year Secondary Heat Exchanger Warranty

On/Off Operation

#### Heat Exchanger

* Bronze Headers
* ASME HLW Stamped; 75 PSIG MAWP
* National Board Listed
* Cupro Nickel Fin Tubing
* ASME Powder-Coated Tube Sheet
* Silicone High Temp O-Rings
* ASME Pressure Relief Valve

75 PSIG – Standard

* Manual Air Bleed Valve
* T&P Gauge
* Stainless Steel Condensing Heat Exchanger – U stamped
* Stainless Steel Evaporator Plate
* Boiler Pump: Bronze, 120V, 1∅, 60Hz

#### Control

* 120V, 60Hz, 1Ø, Power Supply
* 120/24V 60Hz Transformer
* VERSA IC®
* 7” color HD touchscreen display
* Raymote™ Wi-Fi remote connectivity
* Ignition Module

3-Try – Standard

Single-Try – Option C-6

* Remote Flame Sensor
* High Limit Fixed Manual 180ºF
* On/Off Power Switch
* Flow Switch
* Blocked Vent Pressure Switch
* Freeze Protection
* Alarm Dry Contact
* Pump Time Delay
* Blocked Condensate Switch
* Water Temperature Sensors (2 mounted, 2 loose with wells)
* Cold Water Protection

#### Burner

* Hot Surface Ignition (HSI)
* Ultra-Low NOx: Less than 20 PPM

(Natural Gas Only)

#### Gas Train

* Fuel

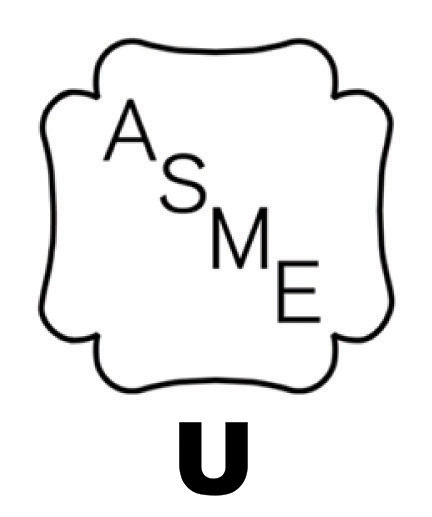
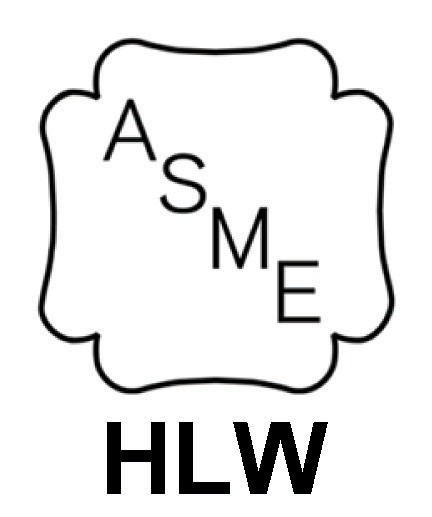
Natural Gas

Propane (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, Comb. Air, Cond. Drain)
* Combustion Air Filter



* Design Certified ANSI Z21.56/CSA 4.3
* Front Connection Low Voltage Wiring
* CSA Low Lead Certified ≤ .25% Lead

#### Venting

* Vent Termination, Cat IV

Outdoor or Indoor, Vertical –   
Option D-11

Indoor, Horizontal – Option D-15

* Extractor – Optional, Cat II

By others

Not required

#### Options

D-32 PVC Vent Connection (Factory Mounted Only)

D-33 Polypropylene Vent Connection

F-10 Low Water Cut-Off, Remote Probe

I-5 High Limit, Manual Reset, Adj., 100-200°F

S-1 Low Gas Pressure Switch,   
Manual Reset

S-2 High Gas Pressure Switch, Manual Reset

Z-12 Condensate Treatment Kit

#### Additional Options or Accessories

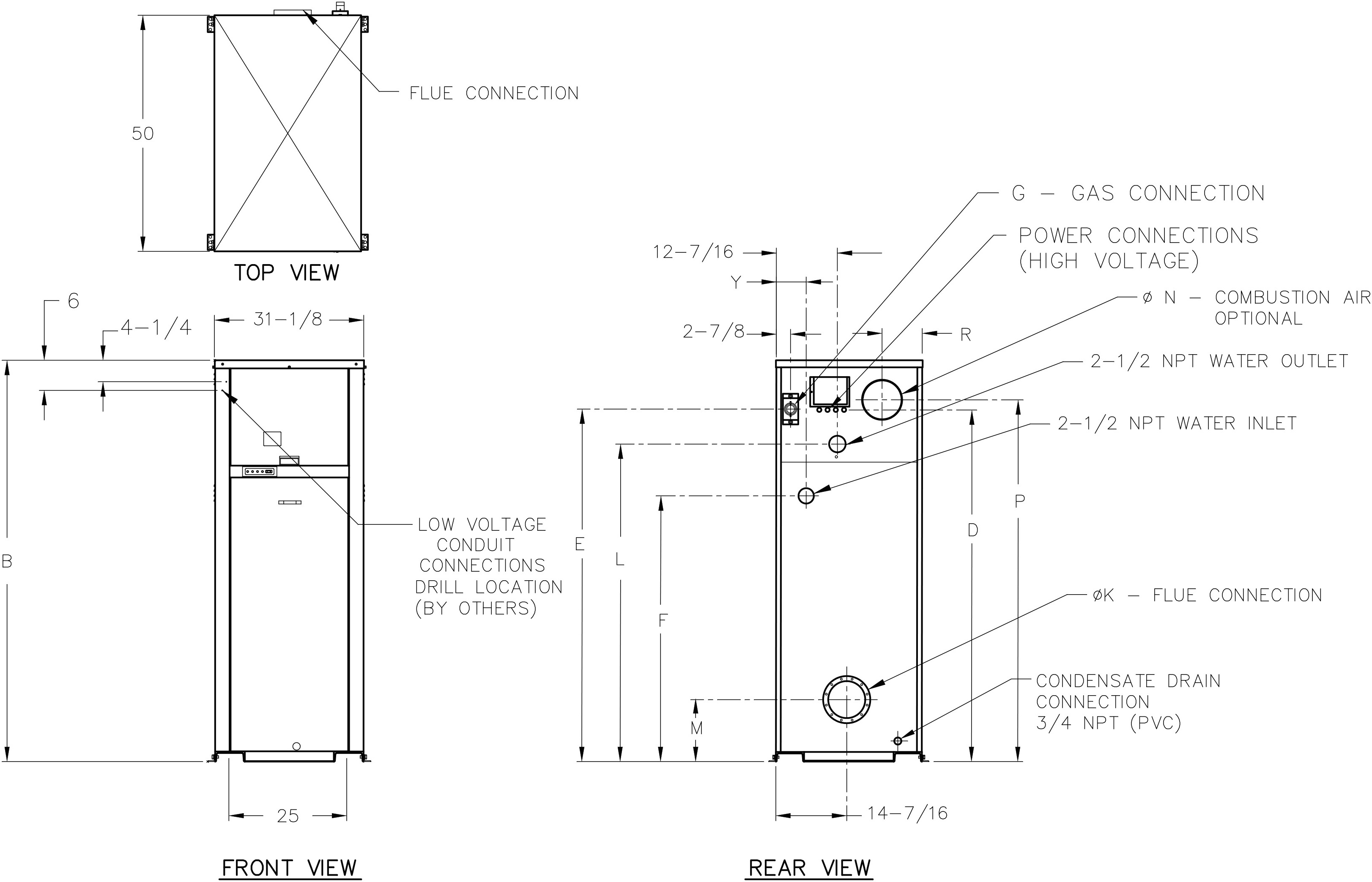
XTherm – Type P

Models 1005A-2005A Model

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

**CLEARANCES (in.)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Front** | **Rear** | **Right** | **Left** | **Top** | **Floor** | **Vent** |
| **Certified Minimum** | 24 | 12 | 1 | 1 | 0 | 0 | 1 |
| **Minimum Service** | 24 | 36 | 24 | 1 | 10 | N/A | N/A |



|  |  |  |
| --- | --- | --- |
| Model | Amp Draw | |
| Heater † | Accessories † |
| 1005A | 12\*\* | 10 |
| 1505A | 12\*\* | 14 |
| 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).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model (P-)** | **MBTUH** | | **Dimensions (in)** | | | | | | | | | | | | **Ship Weight (Lbs.)** |
| **B Height** | **D** | **E** | **F** | **G\* NPT** | **K**  **Flue Ø** | **L** | **M** | **N C/A Ø** | **P** | **R** | **Y** |
| **Input** | **Output** |
| 1005A | 999 | 969 | 55-1/8 | 45 | 47-1/8 | 36-1/2 | 1-1/4 | 6 | 40-1/16 | 11-1/2 | 6 | 47-1/8 | 8-1/16 | 6-1/16 | 1065 |
| 1505A | 1500 | 1455 | 67-1/8 | 57 | 59-1/16 | 38-1/2 | 1-1/4 | 8 | 52-1/16 | 12-5/8 | 8 | 59-1/8 | 8-3/16 | 6-1/16 | 1234 |
| 2005A | 1999 | 1939 | 81-1/8 | 71 | 71-3/16 | 38-1/2 | 2 | 8 | 64-1/16 | 12-5/8 | 8 | 73-1/8 | 8-3/16 | 6-1/4 | 1461 |

|  |  |
| --- | --- |
| Note: Ratings shown are for elevations up to 2,000 feet. For installations at elevations  above 2,000 feet, please consult the factory for additional instructions. | \* For Propane Gas, all models are 1 NPT |