



Lochinvar[®]
High Efficiency Water Heaters, Boilers and Pool Heaters

**XLP
Pool Heater Package
Submittal Sheet**

XPN-Sub-01

XLP POOL HEATER PACKAGE SUBMITTAL

JOB NAME _____

LOCATION _____

ARCH./ENGR. _____

WHOLESALE _____

MECH. CONTRACTOR _____

MODEL NO. _____

TYPE GAS _____

Btu/hr INPUT _____

Btu/hr OUTPUT _____

NOTES

STANDARD FEATURES

- › **Up to 97% Thermal Efficiency***
- › **Modulating Burner with 5:1 Turndown**
 - › Direct-Spark Ignition
 - › Low NOx Operation
 - › Sealed Combustion
 - › Low Gas Pressure Operation
- › **Vertical & Horizontal Direct-Vent**
 - › Category IV venting up to 100 feet
 - › PVC, CPVC or AL29-4C Venting up to 100 Feet
 - › Factory Supplied Sidewall Vent Termination
- › **Integral Boiler Heat Exchanger**
 - › ASME Certified, "H" Stamped
 - › 316L Stainless Steel
 - › Gasketless Heat Exchanger
 - › 160 psi Working Pressure
 - › Highly efficient, condensing design
- › On/Off Switch
- › Adjustable High Limit w/ Manual Reset
- › Flow Switch
- › Pool Temperature Sensor
- › Inlet & Outlet Temperature Sensors
- › Flue Temperature Sensor
- › Low Air Pressure Switch
- › 50 psi ASME Relief Valve
- › Temperature & Pressure Gauge
- › Cast Iron Pump
- › Expansion Tank
- › Pressure Reducing Valve/Auto Fill Valve
- › Condensate Trap
- › Zero Clearances to Combustible Material
- › 10 Year Limited Warranty (See Warranty for Details)
- › **External Cupro-Nickel Pool Heat Exchanger**
 - › Salt Water Ready
 - › Flanged Connections for Pool Water

- › **SMART SYSTEM Digital Operating Control**
 - › 2 line, 16 Character Display
 - › Dual Level Password Security
 - › Built in Cascading Sequencer for up to 8 Heaters
 - › Building Management System Integration with 0-10 VDC Input
 - › Low Water Flow Safety Control & Indication
 - › Pool Temperature Readout
 - › Inlet & Outlet Temperature Readout
 - › Freeze Protection
 - › Service Reminder
 - › Time Clock
- › **Data Logging**
 - › Hours Running
 - › Ignition Attempts
 - › Last 10 Lockouts
- › **Low Voltage Terminal Strip**
 - › 24 VAC Auxiliary Device Relay
 - › Auxiliary Proving Switch Contacts
 - › Flow Switch Contacts
 - › Alarm on Any Failure Contacts
 - › Runtime Contacts
 - › System Sensor Contacts
 - › Cascade Contacts
 - › 0-10 VDC BMS External Control Contact

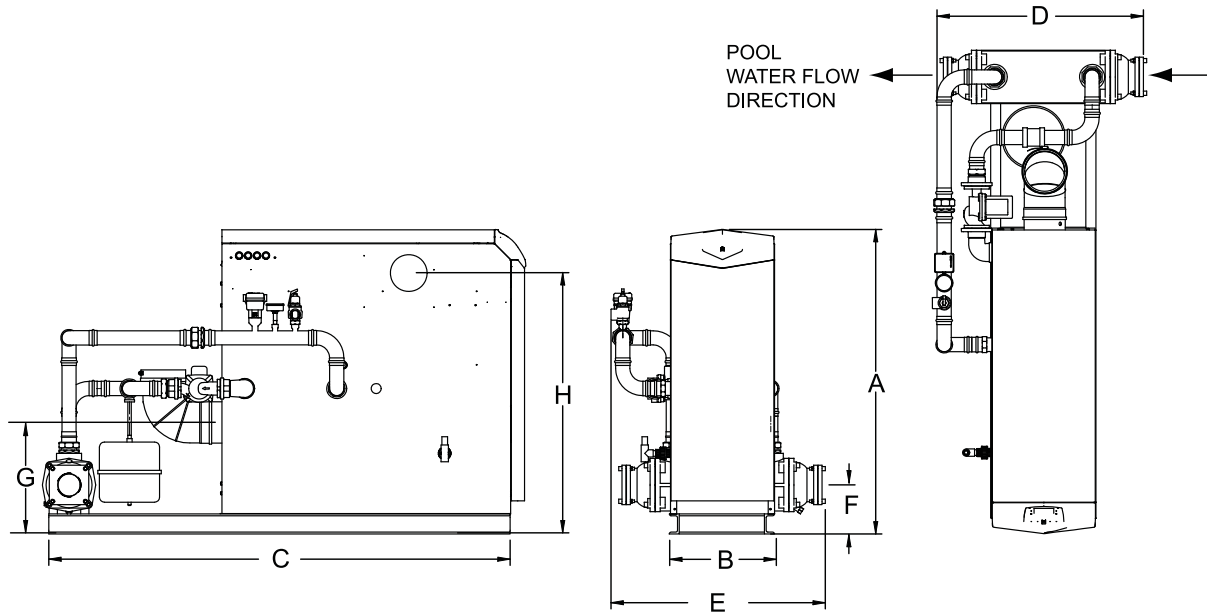
OPTIONAL EQUIPMENT

- Alarm Bell on Any Failure
- Condensate Neutralization Kit
- High Gas Pressure Switches w/ Manual Reset (500-800)
- Low Gas Pressure Switches w/ Manual Reset (500-800)
- Low Water Cutoff w/Manual Reset & Test
- Stainless Steel Vent Kits (700-800)
- Stack Frame
- DHW Priority Piping
- Room Air Filter Kit

FIRING CODES

- M9 Standard Construction
- M7 California Code
- M13 CSD1 / FM / GE Gap (500-800)

KNIGHT XL Commercial Boiler Dimensions & Specifications



Model Number	Btu Output*	A	B	C	D	E	F	G	H	Water Conn.	Gas Conn.	Vent Size	Air Inlet	Pool Flow	Pressure Drop	Ship. Wt.
XPN399	372,038	45-1/2"	15-3/4"	53"	23-1/4"	23-1/2"	6-1/2"	16-3/4"	37"	2-1/2"	1"	4"	4"	93	0.73	465
XPN500	467,297	45-1/2"	15-3/4"	55"	23-1/4"	23-1/2"	6-1/2"	16-3/4"	38"	2-1/2"	1"	4"	4"	117	1.15	497
XPN600	567,364	45-1/2"	15-3/4"	63"	23-1/4"	23-1/2"	6-1/2"	16-3/4"	39"	2-1/2"	1-1/2"	4"	4"	142	1.72	534
XPN700	660,423	45-1/2"	15-3/4"	68"	30"	32-1/4"	7-1/4"	16-3/4"	39"	3"	1-1/2"	6"	4"	166	0.55	634
XPN800	773,268	45-1/2"	15-3/4"	69"	30"	32-1/4"	7-1/4"	16-3/4"	39"	3"	1-1/2"	6"	4"	194	0.80	671

Notes: Change 'N' to 'L' for L.P. Gas Model. No deration on L.P. models. Performance data based on manufacturer test results. 120 VAC /15 AMP circuit required. All dimensions shown in inches.

* BTU output based on 80 degree pool water and a delta t of 8 degrees across the pool heat exchanger

VENTING OPTIONS

- Direct Vent Vertical
- Direct Vent Horizontal
- Vertical Vent with Sidewall Air Intake
- Sidewall Vent with Rooftop Air Intake
- Vertical Vent with Optional Room Air
- Sidewall Vent with Optional Room Air



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