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ELU Heating Boiler Submittal Sheet

Models: Heating only ELU-85WBN / E	LU-120WBN / ELU-150WBN / ELU-199WBN – Wali Mount Models
JOB NAME:	
LOCATION:	
ARCH. / ENGR.:	
WHOLESALER:	
MECH. CONTRACTOR:	
MODEL NUMBER: BTU/H	R INPUT LOW - HIGH FIRE: TYPE OF GAS:
NOTES:	
<ul> <li>Heat Exchanger</li> <li>Type 441 Stainless Steel Water Tube ASME "Heat Construction</li> <li>National Board listed</li> <li>XTRATECH Heat Exchanger provides 150% to pening area versus traditional water tube desivery low pressure drop, a gasketless water seal, circuit water tube combustion heat exchanger of superior heat transfer capabilities</li> <li>30 PSI Relief Valve for all ELU models</li> <li>Modulating burner with up to 10 to 1 turndown</li> <li>Up to 96% AFUE</li> <li>High-Grade Stainless-Steel Burner Design</li> <li>Spark Ignition with Ignition Transformer</li> <li>Shipped Ready for Natural Gas Operation - Preconversion Kits are Included</li> <li>Flame safety probe to monitor flame</li> <li>Integrated Control System</li> <li>Digital operating control with LCD display to pumonitor boiler operation</li> <li>Pump outputs for Boiler Pump - System Pump with Timed Domestic Hot Water priority</li> <li>Programmable settings: Outdoor Heating Curves Supply Set Point - Step Sequence for delayed resmall zones - Boost Function - Field Program Steminders with date or runtime activation</li> <li>Connection Board - Line voltage terminal strip / 60 Hertz power / low voltage terminal strip</li> </ul>	protection switch and clean out for easy maintenance  Vents in PVC - CPVC - Polypropylene - Stainless Steel  Intake and exhaust vents up to 100 feet in 2-inch or 150 feet in 3-inch pipe (ELU-199WBN vents in 3-inch ONLY)  Built-in highly efficient ECM pump  Built-in Three-Way Valve for easy connection to an external indirect water heater  Built-in automatic bypass prevents need for expensive primary / secondary piping in smaller heating systems  15 Year Limited Residential Warranty  Manual reset high temperature limit  Included wall mount bracket  Corrugated condensation hose  Automatic air vent installed on boiler  Additional Fittings for Relief Valve installation  Included 2 and 3-inch vent screens (2 each)  Piping adapter kit (ELU-85WBN - ELU120WBN Models)  Outdoor Sensor  Tridicator to monitor temperature and pressure  0-10 VDC input for Building Management System (with optional Analog Clip-In Board)  Optional  Indirect Water Heater Sensor (7250P-325)  with 120 VAC  3" Polypro Flex Vent Kit (8400P-001)
<ul> <li>contacts - Cascade wiring</li> <li>Boiler output regulation (Adjustment of boiler to 50 percent)</li> </ul>	utput from 100
<ul> <li>Built in water pressure switch</li> <li>Error History Logging – Last 10 Error Codes</li> <li>Factory Default Freeze Protection Parameters</li> </ul>	<ul> <li>□ 3" Stainless Steel Termination Vent Kit (V1000)</li> <li>□ 4" Stainless Steel Termination Vent Kit (V2000)</li> </ul>
- Tactory Delaute Freeze Fronction Farameters	☐ Condensate Neutralizer (7450P-212)

Optional Analog Clip-In Board – 0-10 VDC Input (3319457)

LP-714 Rev. 6.23.20

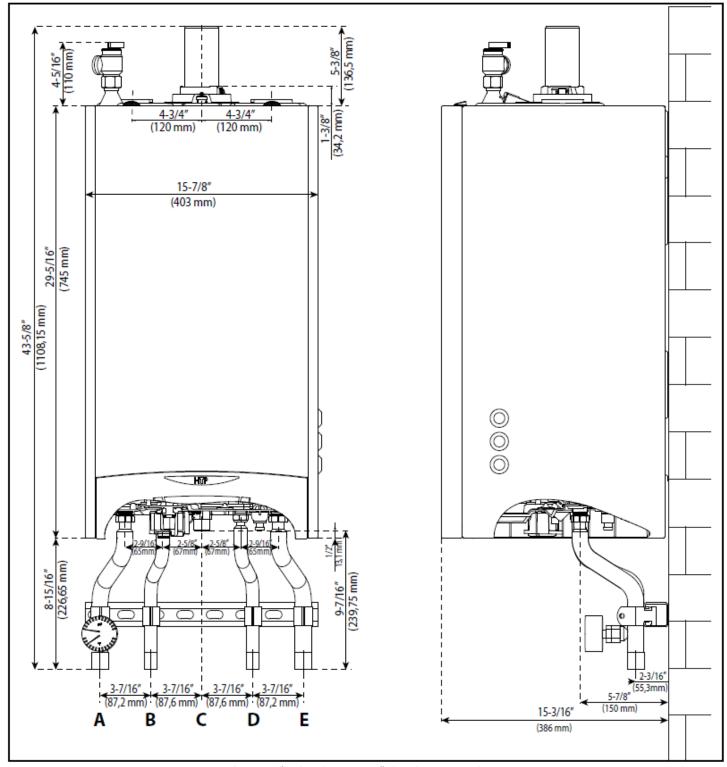


Figure 1 – Boiler Dimensions – NOTE: All Dimensions Are Approximate

Model	ELU-85WBN / ELU-120WBN		
A – Central Heating Supply	1"		
B – Return from Indirect Water Heater	3/4"		
C – Gas Inlet	3/4"		
D – Domestic Hot Water Inlet	Not Used		
E – Central Heating Return	1"		
F – Pressure Relief Valve			

Table 1 – Boiler Adapter Dimensions

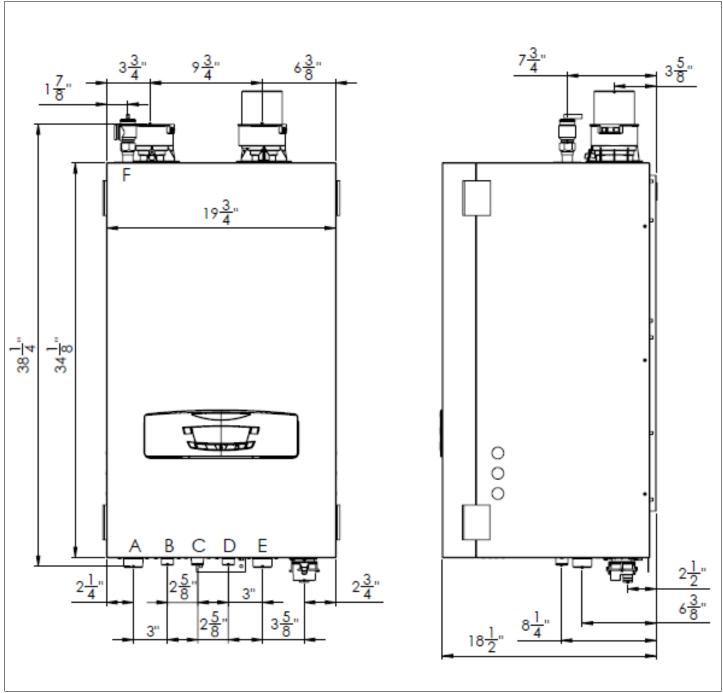


Figure 2 – Boiler Dimensions – NOTE: All Dimensions Are Approximate

Model	ELU-150WBN / ELU-199WBN		
A - Central Heating Supply	1 1/4" NPT		
B - Supply to Indirect Water Heater	3/4" NPT		
C - Gas Inlet	3/4" NPT		
D	N/A		
E - Central Heating Return	1 1/4" NPT		
F - Pressure Relief Valve	3/4" NPT		

Table 2 – Boiler Adapter Dimensions

	Model	ELU-85WBN	ELU-120WBN	ELU-150WBN	ELU-199WBN			
	Туре	Boiler						
	Installation	Indoor, Wall Hung, Fully Condensing						
Minimum / Maximum Input (Btu/Hr) <sup>1</sup>		9,400 / 85,000	13,200 / 120,000	15 000 /150 000	NG	19,700 / 197,000		
				15,000 / 150,000	LP	19,200 / 192,000		
D	OE AFUE² (%)	96	95	95	95			
Heating Capacity <sup>1, 2</sup> (MBH)		79	111	139	184			
Net AHRI Rating, Water (MBH <sup>)2</sup>		69	97	121	160			
ı	Flue System	Category IV, Sealed Combustion Direct Vent, Power Vent						
Minimum – Maximum Exhaust Vent Run³		2" (6 - 100 feet), 3" (6 - 150 feet)			3" (6 - 150 feet)			
Minimum – Maximum Intake Air Pipe Run <sup>3</sup>		2" (0 - 100 feet), 3" (0 - 150 feet) 3" (0 - 150 fee						
Approved E	xhaust Vent Materials³	PVC, CPVC, PP, Stainless Steel						
Shipp	ping Weight (lbs)	78	84	115	115 125			
Gas Supply	NG	3.5" to 10.5" WC						
Pressure	LP	8" to 13" WC						
P	ower Supply	120V 60 Hz, less than 12A						
General Operating Conditions		Ambient Temperature Range: 33 – 104 <sup>0</sup> F (0.6 – 40 <sup>0</sup> C) Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9						
lgı	nition System Direct Electronic Ignition / Flame Rectification							
В	urner System		Premixed Fuel Modulation / Stainl	less Steel Burner				
Gas	s Valve System	Air Ratio Valve						
	w	15	19.75″					
Dimensions	н	29-5/16"		38.25″				
	D	15-3/16″		18.5"				
Approximate Full Boiler Weight (lbs)		88.2	88.6	115		130		
Boiler Wa	ter Content (Gallons)	1.1 1.2 2		2.7				
Boiler Setpo	int Temperature Range	6	68 – 122°F Low Temperature / 86 – 179°F High Temperature					
DHW Indirect Se	tpoint Temperature Range	104 – 149°F						
Water Pressure	Heat Exchanger MAWP	50						
(PSI)	Pressure Relief Valve	30						
Control Pa	nnel / Main Controller	AristonThermo LCD Display / AristonThermo GALEVO2 Control						
	CH Supply / Return	1" Male Sweat with Adapter		1 ¼" Male NPT				
Connection Sizes	Indirect Return	3/4" Male Sweat with Adapter		3/4" Male NPT				
	Gas Inlet							
Materials	Cabinet	Painted Steel and Plastic		Painted and Galvanized Steel				
	Heat Exchanger	SA-312 Type 304L Sta	Type 441 Stainless Steel Water Tube					
Safety Devices		Flame Rectifier Probe, Temper Pressure Switch (Min. 8 PSI), Free Pressure Switch, Condensate T Sensor (210°F), Block	Flame Rectifier Probe, Temperature Limit Control (190°F), Water Pressure Switch (Min. 8 PSI), Freeze Protection, Condensate Trap, Flue Temperature High Limit Sensor (210°F)					

Table 3 – Technical Specifications - NOTE: HTP reserves the right to make product changes or updates without notice and will not be held liable for typographical errors in literature. Listed Input and Output Ratings are at minimum vent lengths at an altitude of 0 – 2000 ft. Numbers will be lower with longer venting and/or altitudes greater than 2000 ft.

<sup>&</sup>lt;sup>2</sup>Ratings based on standard test procedures prescribed by the US Department of Energy.

<sup>3</sup>The ELU requires a special venting system. Use only the vent materials and methods detailed in these installation instructions.