

Factory Default Freeze Protection Parameters

User activated Comfort Function to maintain internal brazed plate temperature and provide instant hot water

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ELU Combi Boiler Submittal Sheet

Models: Combi ELU-120WCN / ELU-150WCN / ELU-199WCN - Wall Mount Models

| Models. Combi LL | 0-120VVCN / LL0-130VI | CN/LLO-199VVCN-VV | all Mount Models |
|--|--|--|---|
| JOB NAME: | | | |
| LOCATION: | | | |
| ARCH. / ENGR.: | | | |
| WHOLESALER: | | | |
| MECH. CONTRACTOR: | | | |
| MODEL NUMBER: | BTU/HR INPUT LOW | - HIGH FIRE: | TYPE OF GAS: |
| NOTES: | | | |
| Heat Exchanger Type 441 Stainless Steel Water Tube Construction National Board listed XTRATECH Heat Exchanger provide opening area versus traditional water very low pressure drop, a gasketless water composed opening area versus traditional water very low pressure drop, a gasketless water tube combustion heat examperior heat transfer capabilities 30 PSI Relief Valve for all ELU mode The Stainless-Steel Combi counter flop provides superior heat transfer and factorized from the superior heat transfer and factorized from the superior superior with up to 11 to 1 Up to 96% AFUE High-Grade Stainless-Steel Burner Despark Ignition with Ignition Transfor Shipped Ready for Natural Gas Oper Conversion Kits are Included | es 150% to 450% greater tube designs, providing vater seal, and a single schanger design with the seal wheat exchanger ast recovery turndown esign | protection switch: Intake and exhaus in 3-inch pipe (EL Built-in highly eff: Built-in Three-Waplate heat exchang production Built-in automatic primary / seconda 15 Year Limited F Manual reset high Included wall mou Corrugated conde Automatic air ven Additional Fitting Included 2 and 3-i Piping adapter kit | ay Valve for internal circulation to braze ger for instant domestic hot water bypass prevents need for expensive ry piping in smaller heating systems Residential Warranty temperature limit int bracket installed on boiler installed on boiler for Relief Valve installation nch vent screens (2 each) (ELU-85WBN – ELU120WBN Models) |
| • Flame safety probe to monitor flame Integrated Control System | | | itor temperature and pressure or Building Management System (with dip-In Board) |
| Digital operating control with LCD dimonitor boiler operation | isplay to program and | | - / |
| Pump outputs for Boiler Pump – Syst with Timed Domestic Hot Water prio Programmable settings: Outdoor Hea | rity | Optional Indirect Water He | ater Sensor (7250P-325) |
| Supply Set Point – Step Sequence for small zones – Boost Function - Field F | delayed response for | 3" Polypro Flex Vo | ent Kit (8400P-001) |
| reminders with date or runtime activa Connection Board – Line voltage term / 60 Hertz power / low voltage termina | ation ninal strip with 120 VAC | _ | centric Vent Kit (KGAVT0601CVT) |
| contacts - Cascade wiring | • | ☐ 3" Stainless Steel T | Termination Vent Kit (V1000) |
| Boiler output regulation (Adjustment to 50 percent) | of boiler output from 100 | 4" Stainless Steel T | Termination Vent Kit (V2000) |
| Built in water pressure switch Error History Logging – Last 10 Error | or Codes | ☐ Condensate Neutra | alizer (7450P-212) |

LP-718 rev. 6.23.20

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

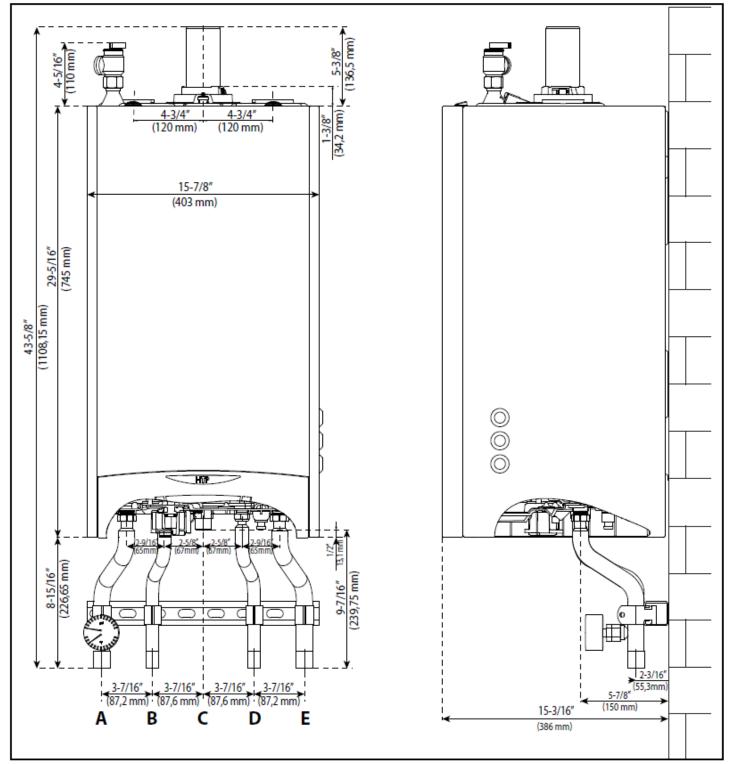


Figure 1 – Boiler Dimensions – NOTE: All Dimensions Are Approximate

| Model | ELU-120WCN / ELU-150WCN | | |
|-------------------------------|-------------------------|--|--|
| A – Central Heating Supply | 1" | | |
| B – Domestic Hot Water Outlet | 3/4" | | |
| C – Gas Inlet | 3/4" | | |
| D – Domestic Hot Water Inlet | 3/4" | | |
| E – Central Heating Return | 1" | | |
| F – Pressure Relief Valve | | | |

Table 1 – Boiler Adapter Dimensions

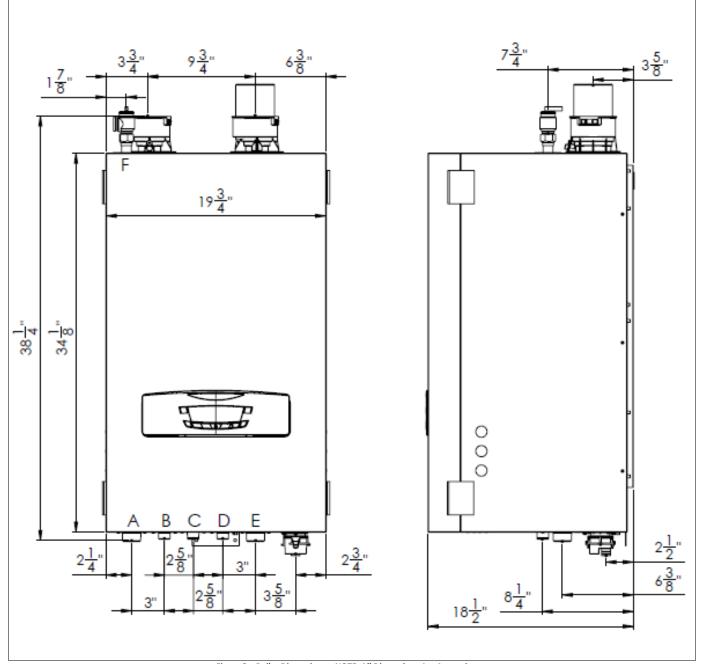


Figure 2 – Boiler Dimensions – NOTE: All Dimensions Are Approximate

| Model | ELU-199WCN | | |
|-------------------------------|------------|--|--|
| A - Central Heating Supply | 1 1/4" NPT | | |
| B - Domestic Hot Water Outlet | 3/4" NPT | | |
| C - Gas Inlet | 3/4" NPT | | |
| D - Domestic Hot Water Inlet | 3/4" NPT | | |
| E - Central Heating Return | 1 1/4" NPT | | |
| F - Pressure Relief Valve | 3/4" NPT | | |

Table 2 – Boiler Adapter Dimensions

| | Model | ELU-120WCN | ELU-150WCN | ELU-199WCN | | | |
|--|---|--|--|--|------------------|--|--|
| | Туре | Combi | | | | | |
| | Installation | Indoor, Wall Hung, Fully Condensing | | | | | |
| Space Heating M | linimum / Maximum Input (Btu/Hr) ¹ | 11,200 / 106,000 | 13,200 / 120,000 | NG 19,700 / 197, | | | |
| Domestic Hot Water Minimum / Maximum Input (Btu/Hr) ¹ | | 11,200 / 114,000 | 13,200 / 150,000 | LP | 19,200 / 192,000 | | |
| DOE AFUE ² (%) | | 95.5 | 95 | 95 | | | |
| Hea | ting Capacity ^{1, 2} (MBH) | 98 | 111 | 184 | | | |
| Net AHRI Rating, Water (MBH) ² | | 85 | 97 | 160 | | | |
| | 35°F Rise | 6.0 | 7.9 | 10.5 | | | |
| Hot Water Capacity | 45°F Rise | 4.7 | 6.1 | 8.2 | | | |
| | 77°F Rise | 2.7 | 3.6 | 4.8 | | | |
| · | 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 Run³ | | 2" (0 - 100 feet), 3" (| 0 - 150 feet) | 3" (0 - 150 feet) | | | |
| Approved Exhaust Vent Materials ³ | | PVC, CPVC, PP, Stainless Steel | | | | | |
| SI | hipping Weight (lbs) | 83 | 84 | 130 | | | |
| Gas Supply Pressure | NG | | 3.5" to 10.5" WC | | | | |
| das supply Fressure | LP 8" to 13" WC | | | | | | |
| | Power Supply | 120V 60 Hz, less than 12A | | | | | |
| Gener | al Operating Conditions | Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9 | | | | | |
| | Ignition System | Direct Electronic Ignition / Flame Rectification | | | | | |
| | Burner System | Premixed Fuel Modulation / Stainless Steel Burner | | | | | |
| | Gas Valve System | Air Ratio Valve | | | | | |
| | w | 15-7/8″ | | 19.75″ | | | |
| Dimensions | н | 29-5/16″ | | 38.25" | | | |
| | D | 15-3/16′ | , | 18.5" | | | |
| Approximate Full Boiler Weight (lbs) | | 91 | 92.8 | 135 | | | |
| Boiler | Boiler Water Content (Gallons) 1.1 1.2 2.7 | | | | | | |
| Boiler Se | tpoint Temperature Range | 68 – 122°F Low Temperature / 86 – 179°F High Temperature | | | | | |
| DHW Se | tpoint Temperature Range | 97 – 140°F | | | | | |
| | Heat Exchanger MAWP | 50 | | | | | |
| Water Pressure (PSI) | Pressure Relief Valve | 30 | | | | | |
| | DHW Max Pressure | 125 | | 150 | | | |
| Contro | ol Panel / Main Controller | Aristo | ermo GALEVO2 Control | mo GALEVO2 Control | | | |
| | CH Supply / Return | 1" Male Sweat with Adapter | | 1 ¼" Male NPT | | | |
| Connection Sizes | DHW Inlet / Outlet | 3/4" Male Sweat with Adapter | | ¾" Male NPT | | | |
| | Gas Inlet | ¾" Male NPT | | | | | |
| Materials | Cabinet | Painted Steel and Plastic | | Painted and Galvanized Steel | | | |
| muserius | Heat Exchanger | SA-312 Type 304L Stainless Steel Water Tube | | Type 441 Stainless Steel Water Tube | | | |
| | Safety Devices | Flame Rectifier Probe, Temperature Pressure Switch (Min. 8 PSI), Freeze Pr Pressure Switch, Condensate Trap, Flue (210°F), Blocked Vent P | otection, Blocked Condensate Temperature High Limit Sensor Pressure Switch | 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) held liable for typographical errors in literature. | | | |

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.

¹ 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.

² Ratings based on standard test procedures prescribed by the US Department of Energy.

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