



Features

DURABLE HEATING - BOILER & COMBI UNITS

Boiler Firing Rates: 85,000, 120,000, 150,000, 199,000 Btuh

Combi Firing Rates: 120,000, 150,000, 199,000 Btuh

Condensing technology with a new and patented XtraTech Stainless Steel Heat Exchanger, ensuring many years of reliable performance

ABSOLUTE EFFICIENCY

Up to 96% AFUE while using an outdoor sensor (included)

Up to 11:1 turndown ratio limits short cycling and provides more efficient energy consumption

Built-in automatic bypass eliminates expensive primary / secondary piping

Equipped with a built-in highly efficient ECM Pump

WHISPER QUIET OPERATION

Thanks to a pump and combustion fan with insulating panels

EASY TO USE INTERFACE

LCD display with digits, symbols, and an intuitive menu to easily set the desired temperature, activate functions, and even manage different heating zones

COMBI BOILER: FULL COMFORT SETTING

Domestic hot water preheat function for instant hot water



ELU-85 - 120 Boiler and 120 - 150 Combi Model Shown

SMART CONNECTIVITY WITH HTP LINK

The Elite Ultra boiler is always at your fingertips with a WiFi gateway on board, allowing the boiler and its many system parameters to be monitored remotely

Set up real-time service notifications and maintenance alerts to ensure that the unit is regularly monitored, overdue for maintenance, or if professional assistance is recommended

EASY TO SERVICE WITH QUICK SNAP COMPONENT AND SENSOR CONNECTIONS

FIFTEEN (15) YEAR LIMITED WARRANTY



XtraTech Heat Exchanger The Heart of Our Design





Up to 400% Larger Pipe Surface Area Versus Conventional Designs Ensures Extremely Low Pressure Drop with High Performance







XTRATECH™ HEAT EXCHANGER

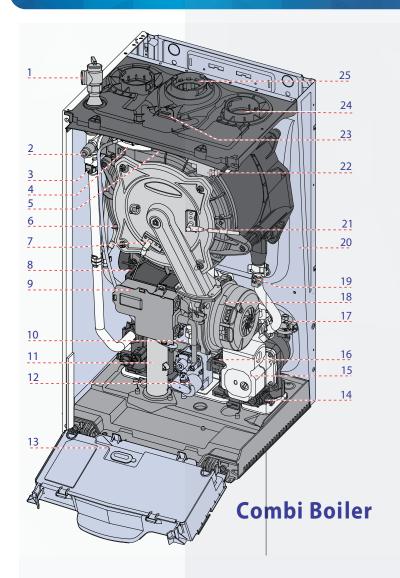
The Heart of Our Heating Condensing Technology

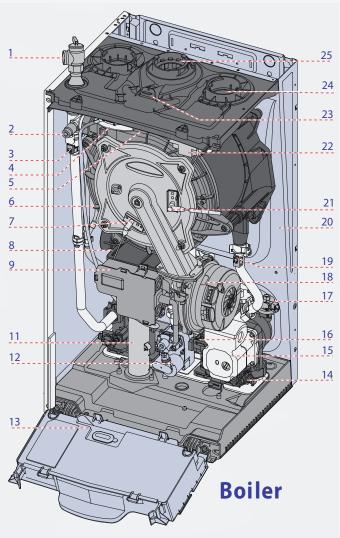
XtraTech Stainless Steel Heat Exchanger

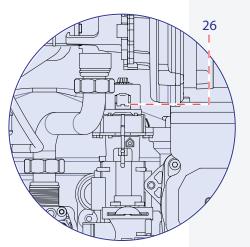
High Grade Stainless Steel

- · Ensures maximum quality at the heart of the boiler
- Resists corrosion to guarantee reliability for years to come Innovative Heat Exchanger Design
- Increases water flow, creating more internal turbulence
- This turbulence acts as a scrub on the internal walls, reducing heat exchanger deposits and ensuring a longer lifetime for your boiler

A Look Inside the ELU-85 - 120 Boiler and 120 - 150 Combi

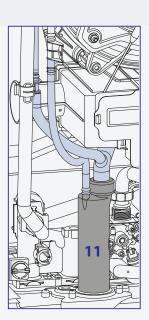






- 1. Pressure relief valve
- 2. Air purge valve
- 3. Boiler outlet temperature sensor
- 4. Air pressure switch
- 5. Flue gas temperature sensor
- 6. Main heat exchanger
- 7. Flame detection electrode
- 8 Silencer
- 9. Junction box
- 10. DWH heat exchanger*
- 11. Condensate trap
- 12. Gas valve
- 13. Control panel
- 14. C.H. circuit filter
- *Applicable on combi units only.

- 15. Circulation pump with auto air vent
- 16. DHW flow switch*
- 17. Water pressure switch
- 18. Modulating fan
- 19. Boiler inlet temperature sensor
- 20. Frame
- 21. Ignition electrode
- 22. Spark generator
- 23. Combustion analysis test point
- 24. Air intake connection
- 25. Exhaust vent connection
- 26. Diverter valve

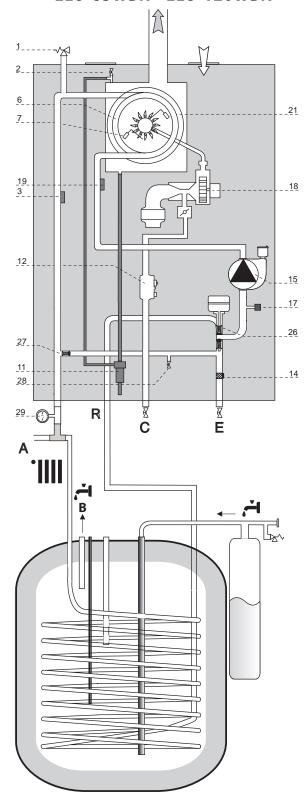


Water Circuit Diagram - ELU-85 - 120 Boiler and 120 - 150 Combi

ELU-120WCN - ELU-150WCN

1. Pressure relief valve Air purge valve 2. 3. Boiler outlet temperature sensor 4. Air pressure switch Flue gas temperature sensor 5. Main heat exchanger 6. 7. Flame detection electrode 8 Silencer 9. Junction box DHW heat exchanger 10. Condensate trap 11. 12. Gas valve Control panel 13. CH circuit filter 14. 15. Circulation Pump with auto air vent DHW Flow switch 16. Water pressure switch 17. 18. Modulating Fan 19. Boiler inlet temperature sensor 20. Frame 21. Ignition electrode Spark generator 22. 23. **Combustion Analysis Test Point** 24. Air intake connection 25. Exhaust vent connection 26. Diverter valve 27. By-pass Drain valve 28. 29. Pressure gauge

ELU-85WBN - ELU-120WBN



CAPTION						
Α	Central Heating and Indirect Water Heater Supply	D	DHW Cold Inlet			
В	DHW Hot outlet	Е	Central Heating Return			
С	Gas inlet	R	Indirect Water Heater Return (Heating Only Boilers)			

Specifications - ELU-85 - 120 Boiler and 120 - 150 Combi

		Model	ELU-85WBN	ELU-120WBN	ELU-120WCN	ELU-150WCN			
	Type					Combi			
	Installation			2010					
Space Heat	tina Mir	nimum / Maximum Input (Btu/Hr) ¹	9,400 / 85,000		, , ,	13,200 / 120,000			
		Minimum / Maximum Input (Btu/Hr) ¹	N/A	, ,		13,200 / 150,000			
Domestic Hot		DOE AFUE ² (%)	96			95			
	Heating Capacity ^{1, 2} (MBH)					111			
	Net AHRI Rating, Water (MBH) ²					97			
		35°F Rise	69 N/A	-		8.5			
Hot Water Cap	oacity	45°F Rise	N/A	· · · · · · · · · · · · · · · · · · ·		6.6			
	,	77°F Rise	N/A	· · · · · · · · · · · · · · · · · · ·		3.8			
		Flue System			l .				
Minir	mum - N	Maximum Exhaust Vent Run ³							
		aximum Intake Air Pipe Run ³							
		d Exhaust Vent Materials ³							
	·	ipping Weight (lbs)	78		·	84			
CocCumple	J	NG							
Gas Supply Pressure		LP							
		Power Supply		120V, 60 Hz, less than 12A					
	Genera	l Operating Conditions	Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9						
Ignition System			Direct Electronic Spark Ignition / Flame Rectification						
	Burner System			Premixed Fuel Modulation / Stainless Steel Burner					
		Gas Valve System	Air Ratio Valve						
D :		W	16″ 3/64						
Dimension (in Inches)		н	43″ 5/8						
		D		N/A					
	Approx	. Full Boiler Weight (lbs)	88.2	88.6	91	92.8			
	Boiler V	Vater Content (Gallons)	1.1	1.2					
Во	iler Set	point Temperature Range	68 –	122°F Low Temperature	/ 86 - 179°F High Tempe	rature			
DHWI	Indirect	Setpoint Temperature Range							
DH	W Setpo	oint Range (Combi Models)	97 – 140°F						
		Heat Exchanger MAWP	50						
Water Pressure	(PSI)	Pressure Relief Valve	30						
		DHW Max Pressure	N/A	N/A	150	150			
(Control	Panel / Main Controller	AristonThermo LCD Display / AristonThermo GALE			Control			
Connection		CH Supply / Return		1" Male Swea	t with Adapter				
Sizes		DHW Inlet / Outlet	3/4" Male Sweat with Adapter						
		Gas Inlet	3/4" Male NPT						
Materials		Cabinet	Painted Steel and Plastic						
		Heat Exchanger	Type 441 Stainless Steel Water Tube						
Safety Devices			Flame Rectifier Probe, Temperature Limit Control (190°F), Water Pressure Switch (Min. 8 PSI), Freeze Protection, Blocked Condensate Pressure Switch, Condensate Trap, Flue Temperature High Limit Sensor (210°F), Blocked Vent Pressure Switch						

Table 1 - Technical Specifications NOTES:

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.

 $^{ar{2}}$ 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.







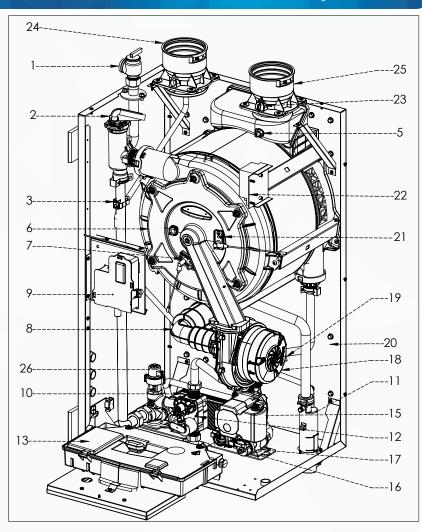






A Look Inside the ELU-150 - 199K BTU Combi/Boiler

1.	Pressure relief valve
2.	Air purge valve
3.	Boiler outlet temperature sensor
4.	Air pressure switch
5.	Flue gas temperature sensor
6.	Main heat exchanger
7.	Flame detection electrode
8	Silencer
9.	Junction box
10.	DHW Heat Exchanger (Combi Models Only
11.	Condensate trap
12.	Gas valve
13.	Control panel
15.	Circulation Pump
16.	DHW Flow Sensor (Combi Models Only)
17.	Water pressure switch
18.	Modulating Fan
19.	Boiler inlet temperature sensor
20.	Frame
21.	Ignition electrode
22.	Spark generator
23.	Combustion Analysis Test Point
24.	Air intake connection
25.	Exhaust vent connection
26.	Diverter valve





ELU-150 - 199 Boiler and 199 Combi Model Shown

HTPLINK

You're in Control - Wherever You Are*

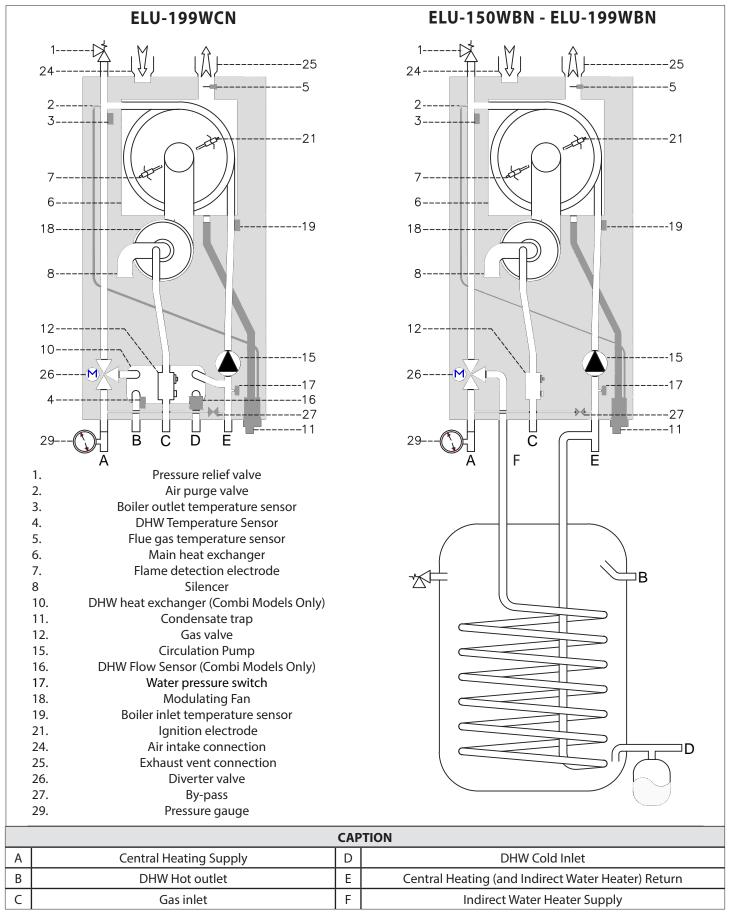
With HTP Link, you and trusted service personnel can:

- Remotely view boiler parameters and status, ensuring proper operation and maximum efficiency.
- Receive boiler text and e-mail updates, alerting service personnel of possible issues.
- Access the boiler and troubleshoot issues without having to be onsite, reducing costly service calls.



*HTP Link Available on All Models

Water Circuit Diagram - ELU-150 - 199K BTU Combi/Boiler



Specifications - ELU-150 - 199K BTU Combi/Boiler

Model		ELU-150WBN	ELU-199WBN		ELU-199WCN			
Туре		Boiler Combi						
Installation			Indoor, Wall Hung, Fully Condensing					
	mstandtion			NG 19,700 / 197,000		NG 19,700 / 197,000		
Minimum	Minimum / Maximum Input (Btu/Hr) ¹		15,000 / 150,000	LP	19,200 / 192,000	LP	19,200 / 192,000	
	DOE A	FUE ² (%)	95	95		95		
Heat		pacity ^{1, 2} (MBH)	139	184		184		
		ng, Water (MBH ⁾²	121	160		160		
	35°F Rise		N/A	N/A		10.5		
Hot Water Cap	pacity 45°F Rise		N/A	N/A		8.2		
		77°F Rise	N/A	N/A		4.8		
	Flue	System	Category IV, Sealed Combustion Direct Vent, Power Vent					
Minimum - Maximum Exhaust Vent Run ³		2" (6 - 100 feet) / 3" (6 - 150 feet)	3"(6 - 150 feet)) feet)		
Minimum - N	Maximu	m Intake Air Pipe Run ³	2" (0 - 100 feet) / 3" (0 - 150 feet)	3" (0 - 150 feet)) feet)	
Approve	ed Exha	ust Vent Materials ³		P\	/C, CPVC, PP, Stainless S	iteel		
SI	hipping	Weight (lbs)	115		125		130	
Gas Supply		NG	3.5" to 10.5"WC					
Pressure		LP		8" to 13"WC				
	Powe	r Supply	120V, 60 Hz, less than 12A					
Gener	al Opera	ating 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 Spark Ignition / Flame Rectification					
	Burne	r System	Premixed Fuel Modulation / Stainless Steel Burner					
Gas Valve System			Air Ratio Valve					
5 !		W	19.75"					
Dimension (in Inches)		Н		38.25"				
		D		18.5"				
Appro	x. Full B	oiler Weight (lbs)	115		130		135	
Boiler	Water C	ontent (Gallons)	2	2 2.7				
Boiler Se	tpoint 1	emperature Range	68 – 122°F Low Temperature / 86 - 179°F High Temperature					
DHW Indired	t Setpo	int Temperature Range	104 – 149°F					
DHW Setp	oint Ra	nge (Combi Models)	97 – 140°F					
		Heat Exchanger MAWP		50				
Water Pressure	(PSI)	Pressure Relief Valve		30				
		DHW Max Pressure	N/A		N/A		150	
Control Panel / Main Controller		AristonThermo LCD Display / AristonThermo GALEVO2 Control						
Connection	CH Supply / Return		1 1/4" Male NPT					
Sizes		DHW Inlet / Outlet	3/4" Male NPT					
		Gas Inlet	3/4" Male NPT					
Materials		Cabinet			inted and Galvanized S			
		Heat Exchanger	Type 441 Stainless Steel Water Tube					
Safety Devices			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 2 - Technical Specifications

- 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.















15 Year Limited Warranty