

Highly Efficient Condensing Boiler & Combi Units

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 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

SMART CONNECTIVITY WITH HTP LINK

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

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

EASY TO SERVICE WITH QUICK SNAP COMPONENT AND SENSOR CONNECTIONS

FIFTEEN (15) YEAR LIMITED WARRANTY
FLOOR AND WALL MOUNT MODELS AVAILABLE



ELU-85 - 120 Boiler and 120 - 150 Combi Model <u>Shown</u>



ELU-150 - 199 Boiler and 199 Combi Floor Mount ("FLKT") Model Shown



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

You're in Control - Wherever You Are*

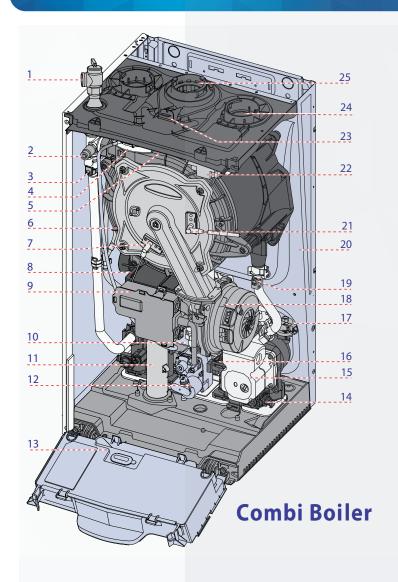
With HTP Link, you and trusted service personnel can:

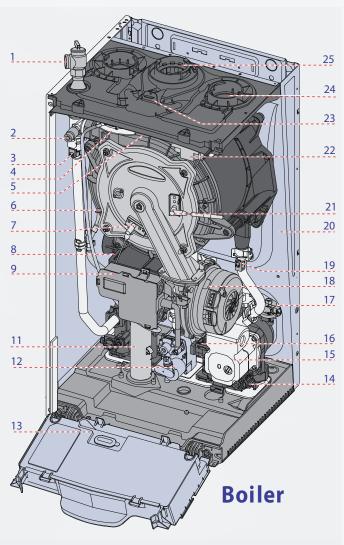
- Remotely view boiler parameters and status, ensuring proper operation and maximum efficiency.
- Receive boiler text and e-mail updates, alerting service personnel of possible issues.
- Access the boiler and troubleshoot issues without having to be onsite, reducing costly service calls.

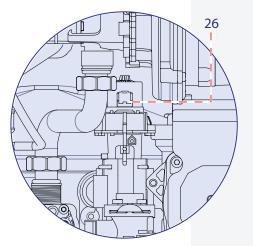


*HTP Link Available on All Models

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

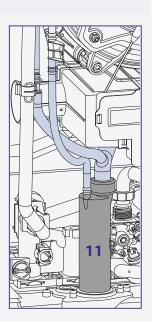






- 1. Pressure relief valve
- 2. Air purge valve
- 3. Boiler outlet temperature sensor
- 4. Air pressure switch
- 5. Flue gas temperature sensor
- 6. Main heat exchanger
- 7. Flame detection electrode
- 8 Silencer
- 9. Junction box
- 10. DWH heat exchanger*
- 11. Condensate trap
- 12. Gas valve
- 13. 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



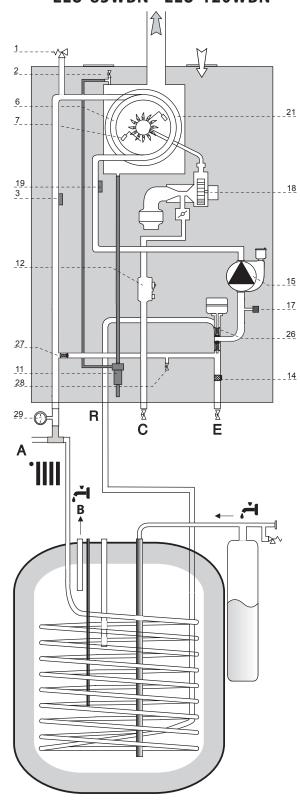
Water Circuit Diagram - ELU-85 - 120 Boiler and 120 - 150 Combi

ELU-120WCN - ELU-150WCN

6 _214 7_ 19_ _18 3 12_ 10 _17 26 27 28 16 11. В C

1. Pressure relief valve Air purge valve 2. Boiler outlet temperature sensor 3. 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	E	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					
	Туре				Combi						
		Installation	Boiler Combi Indoor, Wall Hung, Fully Condensing								
Space Heat	Space Heating Minimum / Maximum Input (Btu/Hr) ¹			13,200 / 120,000	11,200 / 106,000	13,200 / 120,000					
-	Domestic Hot Water Minimum / Maximum Input (Btu/Hr) ¹			N/A	11,200 / 114,000	13,200 / 150,000					
Domestic not	DOE AFUE ² (%)			95	95.5	95					
	Heating Capacity ^{1, 2} (MBH)			111	98	111					
	Net AHRI Rating, Water (MBH) ²			97	85	97					
Hot Water Capacity		35°F Rise	69 N/A	N/A	6.0	7.9					
		45°F Rise	N/A	N/A	4.7	6.1					
		77°F Rise	N/A	N/A	2.7	3.6					
		Flue System			ustion Direct Vent, Power Vent						
Minir	mum - N		Category IV, Sealed Combustion Direct Vent, Power Vent								
	Minimum - Maximum Exhaust Vent Run ³ Minimum - Maximum Intake Air Pipe Run ³			2" (6 - 100 feet), 3" (6 - 150 feet)							
		d Exhaust Vent Materials ³	2" (0 - 100 feet), 3" (0 - 150 feet) PVC, CPVC, PP, Stainless Steel								
	·	ipping Weight (lbs)			83	84					
Cooking	J	NG	70	78 84 83 84 3.5" to 10.5" WC							
Gas Supply Pressure		LP	8" to 13"WC								
		Power Supply	120V, 60 Hz, less than 12A								
			Ambient Temperature Range: 33 – 104°F (0.6 – 40°C)								
	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	15″ 1/8								
Appro		. Full Boiler Weight (lbs)	88.2	88.6	91	92.8					
	Boiler Water Content (Gallons)			1.1 1.2 1.1							
Во	iler Set	point Temperature Range	68 – 122°F Low Temperature / 86 - 179°F High Temperature								
DHWI	Indirect	Setpoint Temperature Range	104 – 149°F								
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	125	125					
	Control	Panel / Main Controller	AristonThermo LCD Display / AristonThermo GALEVO2 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.





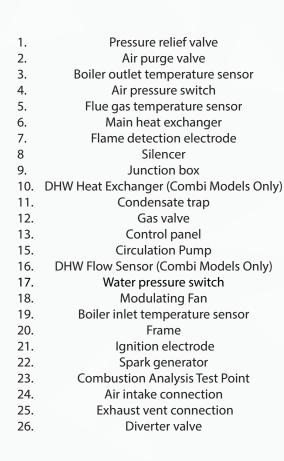


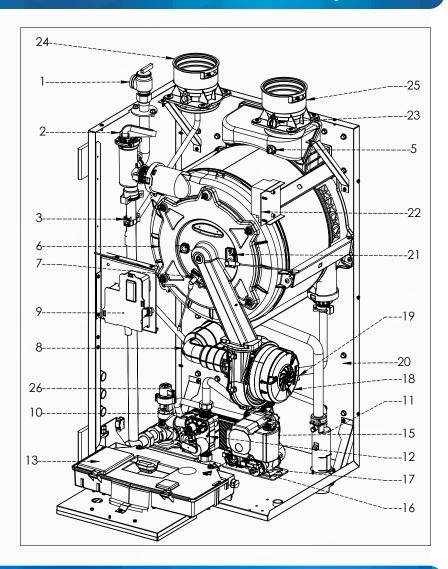






A Look Inside the ELU-150 - 199K BTU Combi/Boiler





Floor and Wall Mount Models Available

For increased installation flexibility, ELU-150WBN, ELU-199WBN, and ELU-199WCN models are available with a factory installed floor mount kit. Just add FLKT to the model number when ordering. The floor mount kit includes a wall hung boiler mounted on a prepiped and pressure tested floor stand to ensure leak proof operation. The upgraded floor mount cabinet features piping adapters that can be moved from the left to the right side to further meet installation conditions.

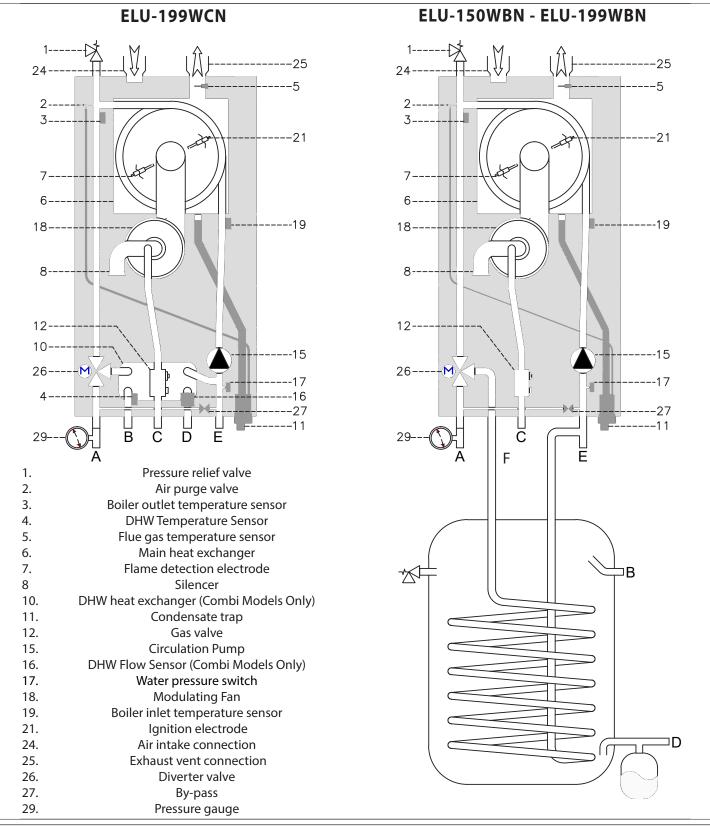


ELU-150 - 199 Boiler and 199 Combi Wall Mount Model Shown



ELU-150 - 199 Boiler and 199 Combi Floor Mount ("FLKT") Model Shown

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



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

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

Model		ELU-150WBN	ELU-150WBN-FLKT	ELU-19	99WBN ELU-199WBN-FLKT		ELU-19	ELU-199WCN ELU-199WCN-FL		
	Туре	Boiler					Combi			
-	Installation	Indoor, Wall Hung, Fully Condensing								
Minimum / Maximum Input (Btu/Hr) ¹		15,000 / 150,000		NG	19	19,700 / 197,000		NG 19,700 / 197,000		
				LP	19,200 / 192,000		LP 19,200 / 192,000		19,200 / 192,000	
	DE AFUE ² (%)	95		95				95		
	Capacity ^{1, 2} (MBH)	139		184		184				
Net AHRI Rating, Water (MBH ⁾²			160			160				
	35°F Rise	N/A		N/A		10.5				
Hot Water Capa		N/A		N/A		8.2				
	77°F Rise	N/A		N/A			4.8			
F	Flue System	Category IV, Sealed Combustion Direct Vent, Power Vent						t		
Minimum - Maximum Exhaust Vent Run ³		2" (6 - 100 feet) / 3" (6 - 150 feet) 3" (6 - 1				50 feet)				
	imum Intake Air Pipe Run ³	2" (0 - 100 fee	2" (0 - 100 feet) / 3" (0 - 150 feet) 3" (0 - 150 feet)							
Approved E	xhaust Vent Materials ³		PVC, CPVC, PP, Stainless Steel							
Shipp	oing Weight (lbs)	115	150	12	25	160	13	0	165	
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 O	perating Conditions	Ambient Temperature Range: 33 – 104°F (0.6 – 40°C) Product Approvals and Requirements: ANSI Z21.13 / CSA 4.9								
lgı	nition System	Direct Electronic Spark Ignition / Flame Rectification								
Ві	urner System	Premixed Fuel Modulation / Stainless Steel Burner								
Gas	S Valve System	Air Ratio Valve								
	W	19.75″	21.65"	19.	75"	21.65"	19.7	'5"	21.65"	
Dimensions (in Inches)	Н	38.25"	50.97"	38.	25″	50.97"	38.2	.5"	50.97"	
(D	18.5″	20.09"	18	5.5"	20.09"	18.	5″	20.09"	
Approx. F	ull Boiler Weight (lbs)	115 150		13	130 165		135 170		170	
Boiler Wa	ter Content (Gallons)	2 2.7								
Boiler Setpo	int Temperature Range	68 – 122°F Low Temperature / 86 - 179°F High Temperature								
DHW Indirect Se	etpoint Temperature Range	104 – 149°F								
DHW Setpoint Range (Combi Models)		97 – 140°F								
W-4 D	Heat Exchanger MAWP	50								
Water Pressure (PSI)	Pressure Relief Valve			30						
	DHW Max Pressure		N/A			150				
Control Panel / Main Controller		AristonThermo LCD Display / AristonThermo GALEVO2 Control								
Connection	CH Supply / Return	1 1/4" Male NPT								
Connection Sizes	DHW Inlet / Outlet	3/4" Male NPT								
	Gas Inlet	3/4" Male NPT								
Materials -	Cabinet	Painted and Galvanized Steel								
	Heat Exchanger	Type 441 Stainless Steel Water Tube								
Sa	afety 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 NOTES:

- 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