

# Technical Specifications

## Envirogreen™

		Combi HE / Slimline Combi / Combipac HE			System / Systempac / Slimline Systempac			Heatpac / Slimline Heatpac / Popular / Kitchen				
HEAT OUTPUT	kW	12-20 20-26	26-35	12-20 20-26	26-35	36-44	12-18	12-20 20-26	26-35	36-44 58	73	80-100
<b>CONNECTIONS</b>												
Heating Flow		22mm dia.	28mm dia.	22mm dia.	28mm dia.	1½" BSP	1" BSP	1" BSP	1" BSP	1½" BSP	1½" BSP	2" BSP
Heating Flow Slimline Systempac		-	-	1" CxC	-	-	-	-	-	-	-	-
Heating Return		22mm dia.	28mm dia.	1" BSP	1" BSP	1½" BSP	1" BSP	1" BSP	1" BSP	1½" BSP	1½" BSP	2" BSP
Heating Return Slimline Systempac		-	-	1" CxC	-	-	-	-	-	-	-	-
Mains Cold Feed (Copper)		15mm dia.	15mm dia.	15mm dia.	15mm dia.	15mm dia.	-	-	-	-	-	-
Hot Water Delivery (Copper)		15mm dia.	15mm dia.	-	-	-	-	-	-	-	-	-
Drain Off Valve		½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP	½" BSP
Safety Pressure Valve Outlet (Copper)		15mm dia.	15mm dia.	15mm dia.	15mm dia.	15mm dia.	-	-	-	-	-	-
Condensate Trap		22mm dia.	plastic	22mm dia. plastic			22 mm dia. plastic					
Boiler Boiler		24 litres	24 litres	24 litres	24 litres	45 litres	24 litres	24 litres	24 litres	43.5 litres	54 litres	75 litres
Primary Tank	Combi HE	20 litres	20 litres	-	-	-	-	-	-	-	-	-
	Slimline Combi	11 litres	11 litres	-	-	-	-	-	-	-	-	-
	Combipac HE	20 litres	20 litres	-	-	-	-	-	-	-	-	-
<b>CIRCULATING PUMP</b>												
Domestic Hot Water Plate Heat Exchanger		25 plate	31 plate	-	-	-	-	-	-	-	-	-
Integral Expansion Vessel Normal Capacity		12 litres	12 litres	12 litres	12 litres	18 litres	-	-	-	-	-	-
Expansion Vessel Pre-charge Pressure		1 bar	1 bar	1 bar	1 bar	1 bar	-	-	-	-	-	-
Low Pressure Water Switch?		✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗
Filling Loop Included?		✓	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗
<b>D.H.W. GUIDE PERFORMANCE*</b>												
		In litres/min (120 litre draw-off at 40°C Δt.)										
	Combi HE	16	20	-	-	-	-	-	-	-	-	-
	Slimline Combi	14	16	-	-	-	-	-	-	-	-	-
	Combipac HE	16	20	-	-	-	-	-	-	-	-	-
<b>FLUE (INTERNAL BOILERS)</b>												
Balanced Flue Assembly		125 (5") mm dia.	125 (5") mm dia.	125 (5") mm dia.	125 (5") mm dia.	150 (6") mm dia.	125 (5") mm dia.	125 (5") mm dia.	125 (5") mm dia.	150 (6") mm dia.	180 (7") mm dia.	200 (8") mm dia.
Flue Assembly		-	-	80 (3") mm dia.	-	-	-	-	-	-	-	-
Max. Low Level Flue Length		1.5m	1.5m	1.5m	1.5m	1.5m	1.5m	1.5m	1.5m	1.5m	1.5m	1.5m
Max. High Level Balanced Flue Length		6m	6m	6m	6m	6m	6m	6m	6m	6m	6m	6m
Max. Vertical Plume Length		-	-	5m	-	-	-	-	-	-	-	-
Integral flues on Heatpac models		-	-	-	-	-	-	-	-	-	-	-
<b>HEATING SYSTEM (SEALED)</b>												
		Fit in accordance with BS 7074 Part 1, BS 5449, OFTEC standards and all other relevant legislation.										
Max. Operating Pressure		2 bar		2 bar			-					
Max. System Pressure Cold		1.5 bar		1.5 bar			-					
Min. System Pressure Cold		0.5 bar		0.5 bar			-					
Preset Pressure Relief Valve		3 bar		3 bar			3 bar					
<b>MAINS WATER SUPPLY PRESSURE</b>												
		Min. 3 bar - Max. 5 bar (for user comfort, we recommend pressure at tap to be between 2 and 3 bar)										
		Limescale excess: When over 150/200 ppm, fit appropriate scale reducer/water softener.										
<b>WATER SIDE RESISTANCE</b>												
		<b>Flow Rate to give a Nominal Output at 10K Differential</b>					<b>12-20kW</b>	<b>20-26kW</b>	<b>26-35kW</b>	<b>36-44kW</b>		
		Flow Rate Measured (kg/h)					1642	2135	2874	3613		
		Waterside Resistance (mbar)					0.18	0.18	0.18	0.22		
		<b>Flow Rate to give a Nominal Output at 20K Differential</b>										
		Flow Rate Measured (kg/h)					870	1131	1523	2915		
		Waterside Resistance (mbar)					0.19	0.19	0.19	0.24		
<b>PRESSURE JET OIL BOILERS</b>												
		ELCO FB 2 K LN 12-58 and ELCO FB 3 K LN for 73kW and 100kW										
<b>FUEL</b>												
		Kerosene 28 Second Class C2										
<b>ELECTRICAL SUPPLY</b>												
		230V AC 50Hz 5A										
<b>TEMPERATURE CONTROL</b>												
		Frost thermostat fitted to all outdoor models										
Boiler Central Heating Control		60°C – 80°C		60°C – 80°C			60°C – 80°C					
Boiler Safety Limit		110°C		-			110°C					
Tank (DHW)- Fixed		78°C		-			-					
Early Alert - Fixed		87°C		-			-					
Over-run - Fixed		93°C		87°C			87°C (Heatpac, Slimline Heatpac and Kitchen only)					

Thermostats have an operating tolerance of ± 4°C

\* where water demand exceeds this, a flow restrictor is recommended. This will ensure a water supply at an adequate temperature.