

# Technical Parameters

Technical parameters for boiler combination heaters

<b>Potterton Promax 24 Store ErP</b>			<b>90</b>	<b>115</b>	<b>150</b>
Condensing boiler			Yes	Yes	Yes
Low-temperature boiler <sup>(1)</sup>			No	No	No
B1 boiler			No	No	No
Cogeneration space heater			No	No	No
Combination heater			Yes	Yes	Yes
<b>Rated heat output</b>	$P_{rated}$	kW	24	24	24
Useful heat output at rated heat output and high temperature regime <sup>(2)</sup>	$P_4$	kW	24.0	24.0	24.0
Useful heat output at 30% of rated heat output and low temperature regime <sup>(1)</sup>	$P_1$	kW	8.0	8.0	8.0
<b>Seasonal space heating energy efficiency</b>	$\eta_s$	%	92	92	92
Useful efficiency at rated heat output and high temperature regime <sup>(2)</sup>	$\eta_4$	%	87.2	87.2	87.2
Useful efficiency at 30% of rated heat output and low temperature regime <sup>(1)</sup>	$\eta_1$	%	96.8	96.8	96.8
<b>Auxiliary electricity consumption</b>					
Full load	$el_{max}$	kW	0.049	0.049	0.049
Part load	$el_{min}$	kW	0.019	0.019	0.019
Standby mode	$P_{SB}$	kW	0.003	0.003	0.003
<b>Other items</b>					
Standby heat loss	$P_{stby}$	kW	0.040	0.040	0.040
Ignition burner power consumption	$P_{ign}$	kW	-	-	-
Annual energy consumption	$Q_{HE}$	kWh GJ	20870 75	20870 75	20870 75
Sound power level, indoors	$L_{WA}$	dB	57	57	57
Emissions of nitrogen oxides	$NO_x$	mg/kWh	18	18	18
<b>Domestic hot water parameters</b>					
<b>Declared load profile</b>			XL	XL	XL
Daily electricity consumption	$Q_{elec}$	kWh	0.192	0.224	0.246
Annual electricity consumption	$AEC$	kWh	42	49	54
<b>Water heating energy efficiency</b>	$\eta_{wh}$	%	90	92	77
Daily fuel consumption	$Q_{fuel}$	kWh	21.234	20.621	25.856
Annual fuel consumption	$AFC$	GJ	16	16	19
(1) Low temperature means for condensing boilers 30°C, for low temperature boilers 37°C and for other heaters 50°C return temperature (at heater inlet).					
(2) High temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet.					



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The back cover for contact details.