

Technical parameters for boiler combination heaters

Potterton Promax Ultra Combi ErP			24	28	33	40
Condensing boiler			Yes	Yes	Yes	Yes
Low-temperature boiler ⁽¹⁾			No	No	No	No
B1 boiler			No	No	No	No
Cogeneration space heater			No	No	No	No
Combination heater			Yes	Yes	Yes	Yes
Rated heat output	P_{rated}	kW	20	24	28	32
Useful heat output at rated heat output and high temperature regime ⁽²⁾	P_4	kW	20.0	24.0	28.0	32.0
Useful heat output at 30% of rated heat output and low temperature regime ⁽¹⁾	P_1	kW	6.7	8.0	9.4	10.7
Seasonal space heating energy efficiency	η_s	%	93	93	93	93
Useful efficiency at rated heat output and high temperature regime ⁽²⁾	η_4	%	88.0	87.9	88.1	87.9
Useful efficiency at 30% of rated heat output and low temperature regime ⁽¹⁾	η_1	%	98.0	98.0	98.1	98.0
Auxiliary electricity consumption						
Full load	el_{max}	kW	0.030	0.042	0.041	0.035
Part load	el_{min}	kW	0.013	0.013	0.013	0.013
Standby mode	P_{SB}	kW	0.003	0.003	0.003	0.003
Other items						
Standby heat loss	P_{stby}	kW	0.035	0.035	0.040	0.045
Ignition burner power consumption	P_{ign}	kW	-	-	-	-
Annual energy consumption	Q_{HE}	kWh GJ	17204 62	20645 74	24086 87	27527 99
Sound power level, indoors	L_{WA}	dB	49	50	53	51
Emissions of nitrogen oxides	NO_x	mg/kWh	15	17	15	24
Domestic hot water parameters						
Declared load profile			XL	XL	XXL	XXL
Daily electricity consumption	Q_{elec}	kWh	0.162	0.232	0.214	0.276
Annual electricity consumption	AEC	kWh	36	51	47	61
Water heating energy efficiency	η_{wh}	%	88	86	87	85
Daily fuel consumption	Q_{fuel}	kWh	22	22	28	28
Annual fuel consumption	AFC	GJ	17	17	22	22
(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.						



See
The back cover for contact details.