

Technical parameters for boiler combination heaters

Potterton Titanium 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	6.6	7.9	9.2	10.6
Seasonal space heating energy efficiency	η_s	%	92	92	92	92
Useful efficiency at rated heat output and high temperature regime ⁽²⁾	η_4	%	87.9	87.9	87.9	87.8
Useful efficiency at 30% of rated heat output and low temperature regime ⁽¹⁾	η_1	%	96.8	96.8	96.7	96.7
Auxiliary electricity consumption						
Full load	el_{max}	kW	0.034	0.042	0.043	0.049
Part load	el_{min}	kW	0.016	0.016	0.017	0.018
Standby mode	P_{SB}	kW	0.003	0.003	0.003	0.003
Other items						
Standby heat loss	P_{stby}	kW	0.040	0.040	0.040	0.040
Ignition burner power consumption	P_{ign}	kW	-	-	-	-
Annual energy consumption	Q_{HE}	kWh GJ	17391 63	20870 75	24348 88	27826 100
Sound power level, indoors	L_{WA}	dB	50	53	52	50
Emissions of nitrogen oxides	NO _x	mg/kWh	20	23	20	23
Domestic hot water parameters						
Declared load profile			XL	XL	XL	XL
Daily electricity consumption	Q_{elec}	kWh	0.186	0.188	0.184	0.197
Annual electricity consumption	AEC	kWh	41	41	40	43
Water heating energy efficiency	η_{wh}	%	84	81	83	84
Daily fuel consumption	Q_{fuel}	kWh	23.220	24.307	23.695	23.102
Annual fuel consumption	AFC	GJ	18	18	18	18
(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.