

Sirius two FS technical parameter sheet

Product description			50	70	90	110
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			No	No	No	No
Rated heat output	P_{rated}	<i>kW</i>	45	65	85	102
Useful heat output at rated heat output and high temperature regime(2)	P_4	<i>kW</i>	45.0	65.0	85.0	102.0
Useful heat output at 30% of rated heat output and low temperature regime(1)	P_1	<i>kW</i>	15.0	21.7	28.3	34.0
		%				
		%				
	h_{Son}	%				
Seasonal space heating energy efficiency	η_s	%	93	93		
Useful efficiency at rated heat output and high temperature regime(2)	η_4	%	87.7	87.6	87.7	87.6
Useful efficiency at 30% of rated heat output and low temperature regime(1)	η_1	%	97.7	97.4	97.5	97.4
Auxiliary electricity consumption						
Full load	e_{lmax}	<i>kW</i>	0.100	0.117	0.146	0.185
Part load	e_{lmin}	<i>kW</i>	0.023	0.024	0.024	0.024
Standby mode	P_{SB}	<i>kW</i>	0.003	0.003	0.003	0.003
Other items						
Standby heat loss	P_{stby}	<i>kW</i>	0.055	0.059	0.066	0.070
Ignition burner power consumption	P_{ign}	<i>kW</i>	0.000	0.000	0.000	0.000
Annual energy consumption	Q_{HE}	<i>GJ</i>	139	201		
Sound power level (indoors)	L_{WA}	<i>dB(A)</i>	61	64		
NOx emissions	NO_x	<i>mg/kWh</i>	27	31	36	22
(1) Low temperature regime 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.						