

## PRODUCT INFORMATION

Information requirements for boiler space heaters, boiler combination heaters and cogeneration space heaters  
(COMMISSION DELEGATED REGULATIONS No. 811-814/2013)

Model(s):	<b>C32SPV31MEFB-ERP, SIGMA 31 TF</b>		
Condensing boiler [yes/no]:	no		
Low-temperature (**) boiler [yes/no]:	no		
B1 boiler [yes/no]:	no		
Cogeneration space heater [yes/no]:	no	If yes, equipped with a supplementary heater: [yes/no]: no	

Combination heater [yes/no]: yes

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
<b>Rated heat output</b>	$P_{rated}$	31	kW	<b>Seasonal space heating energy efficiency</b>	$\eta_s$	80	%
For boiler space heaters and boiler combination heaters: Useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency			
At rated heat output and high-temperature regime (*)	$P_4$	30,7	kW	At rated heat output and high-temperature regime (*)	$\eta_4$	84,4	%
At 30 % of rated heat output and low-temperature regime (**)	$P_1$	8,8	kW	At 30 % of rated heat output and low-temperature regime (**)	$\eta_1$	83,7	%
<b>Auxiliary electricity consumption</b>				<b>Other items</b>			
At full load	$e_{lmax}$	0,087	kW	Standby heat loss	$P_{stby}$	0,5	kW
At part load	$e_{lmin}$	0,075	kW	Ignition burner power consumption	$P_{ign}$	0,0	kW
In standby mode	$P_{SB}$	0,003	kW	Emissions of nitrogen oxides	$NO_x$	97	mg/kWh
				Noise level	$LWA$	48	dB

For combination heaters:

<b>Declared load profile</b>	M			<b>Water heating energy efficiency</b>	$\eta_{wh}$	69	%
Daily electricity consumption	$Q_{elec}$	0,122	kWh	Daily fuel consumption	$Q_{fuel}$	7,735	kWh
Annual electricity consumption	$AEC$	27	kWh	Annual fuel consumption	$AFC$	6	GJ

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(\*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(\*\*) 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).

Seasonal space heating energy efficiency class:

**C**

Water heating energy efficiency class:

**A**

KÖBER Ltd Vaduri Branch, 05.04.2017

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