

PRODUCT FICHE

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

Model(s):	C38GC20v1, CONDENS KPLUS20 C38GC20-P, MKDENS 20 C38GC20-PV1, KOMFORT24
Condensing boiler [yes/no]:	yes
Low-temperature (**) boiler [yes/no]:	yes
B1 boiler [yes/no]:	no
Cogeneration space heater [yes/no]:	no If yes, equipped with a supplementary heater: [yes/no]: no

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	<i>Prated</i>	21	kW	Seasonal space heating energy efficiency	η_s	91	%
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 (*)	<i>P₄</i>	21,0	kW	At rated heat output and high-temperature regime (*)	η_4	87	%
At 30 % of rated heat output and low-temperature regime (**)	<i>P₁</i>	3	kW	At 30 % of rated heat output and low-temperature regime (**)	η_1	95	%
Auxiliary electricity consumption				Other items			
At full load	<i>elmax</i>	0,072	kW	Standby heat loss	<i>P_{stby}</i>	0,35	kW
At part load	<i>elmin</i>	0,060	kW	Ignition burner power consumption	<i>P_{ign}</i>	0,0	kW
In standby mode	<i>P_{SB}</i>	0,003	kW	Emissions of nitrogen oxides	<i>NO_x</i>	15	mg/kWh
				Noise level	<i>LWA</i>	48	dB

For combination heaters:							
Declared load profile	XL			Water heating energy efficiency	η_{wh}	90,23	%
Daily electricity consumption	<i>Q_{elec}</i>	0,1328	kWh	Daily fuel consumption	<i>Q_{fuel}</i>	20,4	kWh
Annual electricity consumption	<i>AEC</i>	48,45	kWh	Annual fuel consumption	<i>AFC</i>	16	GJ

Contact details: office.vaduri@kober.ro www.motan.ro Telephone: 0233 241746 Fax: 0233 241929	Name and address of the manufacturer: KÖBER Ltd VADURI Branch, Piatra Neamt town, Neamt District, Romania
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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:
 Water heating energy efficiency class:

A
A