

VITODENS 050-W

B0KA-19, B0KA-19-M, B0KA-25, B0KA-25-M, B0KA-32

The product data specified meets the requirements of EU Regulations 811/2013 and 813/2013.

Product data	Symbol	Unit	B0KA-19	B0KA-19-M	B0KA-25	B0KA-25-M	B0KA-32
Average temperature application for central heating			yes	yes	yes	yes	yes
Declared load profile			XL	XL	XL	XL	XL
reference energy	Q_{ref}	kWh	19,07	19,07	19,07	19,07	19,07
Seasonal space heating energy efficiency			A	A	A	A	A
Water heating energy efficiency classes			A	A	A	A	A
Rated heat output	P_{rated}	kW	17,5	17,6	23	23	28,9
Annual energy consumption	Q_{HE}	kWh	8841	10315	11196	12750	13684
Annual electricity consumption	AEC	kWh	50	50	50,3	50,3	60,2
Annual fuel consumption	AFC	kWh	4955	4955	4971	4971	5011
Seasonal space heating energy efficiency	η_s	%	92	93	92	92	93
Water heating energy efficiency	η_{wh}	%	82	82	82	82	81
sound power level indoors	L_{WA}	dB	46	46	49	49	55
able to work only during off-peak hours			no	no	no	no	no

For all special precautions to be taken during assembly, installation or maintenance of the space heater, see the service and installation instructions.

Model	Symbol	Unit	B0KA-19	B0KA-19-M	B0KA-25	B0KA-25-M	B0KA-32
Condensing boiler			yes	yes	yes	yes	yes
Low-temperature boiler			no	no	no	no	no
B1 boiler			no	no	no	no	no
Cogeneration space heater					no		
Combination heater					yes		

Rated heat output / Seasonal space heating energy efficiency	Symbol	Unit	B0KA-19	B0KA-19-M	B0KA-25	B0KA-25-M	B0KA-32
Useful heat output at rated heat output and high-temperature regime	P_4	kW	17,6	17,6	23,1	23,1	28,9
Useful heat output at 30 % of rated heat output and low-temperature regime	P_1	kW	5,85	5,89	7,7	7,7	9,74
Useful efficiency at rated heat output and high-temperature regime	η_4	%	87,8	88	87,9	88	87,9



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Rated heat output / Seasonal space heating energy efficiency	Symbol	Unit	B0KA-19	B0KA-19-M	B0KA-25	B0KA-25-M	B0KA-32
Useful efficiency at 30 % of rated heat output and low-temperature regime	η_1	%	97,3	97,9	97,4	96,8	97,8
Auxiliary electricity consumption	Symbol	Unit	B0KA-19	B0KA-19-M	B0KA-25	B0KA-25-M	B0KA-32
Auxiliary electricity consumption at full load	$e_{l_{max}}$	kW	0,015	0,012	0,015	0,013	0,015
Auxiliary electricity consumption at part load	$e_{l_{min}}$	kW	0,018	0,02	0,021	0,022	0,022
Auxiliary electricity consumption in standby mode	P_{SB}	kW	0,0039	0,0039	0,0039	0,0039	0,0041
Other details	Symbol	Unit	B0KA-19	B0KA-19-M	B0KA-25	B0KA-25-M	B0KA-32
Standby heat loss	P_{stby}	kW	0,0547	0,055	0,0547	0,0547	0,056
ignition burner power consumption	P_{ign}	kW	0	-	0	0	0
Emissions of nitrogen oxides	NO_x	mg/kWh	34,95	34,95	34,53	34,53	21,24
Hot Water Preparation	Symbol	Unit	B0KA-19	B0KA-19-M	B0KA-25	B0KA-25-M	B0KA-32
Daily electricity consumption	Q_{elec}	kWh	0,231	0,231	0,235	0,235	0,281
Daily fuel consumption	Q_{fuel}	kWh	23,7	23,7	23,8	23,8	24

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Criterion	Energy efficiency category, temperature controller	Contribution, central heating energy efficiency
<ul style="list-style-type: none"> • Room thermostat which switches the heat source on/off 	1	1 %
<ul style="list-style-type: none"> • Weather-compensated control • Modulating heat source 	2	2 %
<ul style="list-style-type: none"> • Weather-compensated control • Non-modulating heat source 	3	1,5 %
<ul style="list-style-type: none"> • Room thermostat with TPI (Time Proportional Integral) properties • Non-modulating heat source 	4	2 %
<ul style="list-style-type: none"> • Modulating room thermostat • Modulating heat source 	5	3 %
<ul style="list-style-type: none"> • Weather compensation, control unit • Modulating heat source • Room temperature sensor in conjunction with room hook-up 	6	4 %
<ul style="list-style-type: none"> • Weather compensation, control unit • Non-modulating heat source • Room temperature sensor in conjunction with room hook-up 	7	3,5 %
<ul style="list-style-type: none"> • Individual room control with min. 3 room temperature sensors • Modulating heat source 	8	5 %