

## VITODENS 100-W

B1KF-19, B1KF-19-M, B1KF-25, B1KF-25-M, B1KF-32, B1KF-32-M

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

Product data	Symbol	Unit	B1KF-19	B1KF-19-M	B1KF-25	B1KF-25-M	B1KF-32	B1KF-32-M
Average temperature application for central heating			yes	yes	yes	yes	yes	yes
Declared load profile			XL	XL	XL	XL	XL	XL
reference energy	$Q_{ref}$	kWh	-	-	-	-	-	-
Seasonal space heating energy efficiency			A	A	A	A	A	A
Water heating energy efficiency classes			A	A	A	A	A	A
Rated heat output	$P_{rated}$	kW	18	18	23	23	29	29
Annual energy consumption	$Q_{HE}$	kWh	8807	9800	11073	12056	13759	14742
Annual electricity consumption	AEC	kWh	43,9	43,9	44,8	44,8	58	58
Annual fuel consumption	AFC	kWh	4982	4982	4982	4982	4982	4982
Seasonal space heating energy efficiency	$\eta_s$	%	93	93	94	94	94	94
Water heating energy efficiency	$\eta_{wh}$	%	82	82	82	82	82	82
sound power level indoors	$L_{WA}$	dB	42	42	46	46	48	48
able to work only during off-peak hours			no	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	B1KF-19	B1KF-19-M	B1KF-25	B1KF-25-M	B1KF-32	B1KF-32-M
Condensing boiler			yes	yes	yes	yes	yes	yes
Low-temperature boiler			no	no	no	no	no	no
B1 boiler			no	no	no	no	no	no
Cogeneration space heater			no					
Combination heater			yes					

Rated heat output / Seasonal space heating energy efficiency	Symbol	Unit	B1KF-19	B1KF-19-M	B1KF-25	B1KF-25-M	B1KF-32	B1KF-32-M
Useful heat output at rated heat output and high-temperature regime	$P_4$	kW	17,5	17,5	23	23	29,3	29,3
Useful heat output at 30 % of rated heat output and low-temperature regime	$P_1$	kW	5,8	5,8	7,7	7,7	9,8	9,8
Useful efficiency at rated heat output and high-temperature regime	$\eta_4$	%	88,4	88,4	88,4	88,4	88,1	88,1



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Rated heat output / Seasonal space heating energy efficiency	Symbol	Unit	B1KF-19	B1KF-19-M	B1KF-25	B1KF-25-M	B1KF-32	B1KF-32-M
Useful efficiency at 30 % of rated heat output and low-temperature regime	$\eta_1$	%	97,9	97,9	98,8	98,8	98,7	98,7

  

Auxiliary electricity consumption	Symbol	Unit	B1KF-19	B1KF-19-M	B1KF-25	B1KF-25-M	B1KF-32	B1KF-32-M
Auxiliary electricity consumption at full load	$e_{l_{max}}$	kW	0,017	0,017	0,018	0,018	0,021	0,021
Auxiliary electricity consumption at part load	$e_{l_{min}}$	kW	0,014	0,014	0,015	0,015	0,016	0,016
Auxiliary electricity consumption in standby mode	$P_{SB}$	kW	0,0038	0,0038	0,0038	0,0038	0,0038	0,0038

  

Other details	Symbol	Unit	B1KF-19	B1KF-19-M	B1KF-25	B1KF-25-M	B1KF-32	B1KF-32-M
Standby heat loss	$P_{stby}$	kW	0,0573	0,0573	0,0573	0,0573	0,0573	0,0573
Ignition burner power consumption	$P_{ign}$	kW	-	0	-	0	-	0
Emissions of nitrogen oxides	$NO_x$	mg/kWh	21	21	23	23	25	25

  

Hot Water Preparation	Symbol	Unit	B1KF-19	B1KF-19-M	B1KF-25	B1KF-25-M	B1KF-32	B1KF-32-M
Daily electricity consumption	$Q_{elec}$	kWh	0,205	0,205	0,209	0,209	0,27	0,27
Daily fuel consumption	$Q_{fuel}$	kWh	23,9	23,9	23,9	23,9	23,7	23,7

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