

VITODENS 050-W

BPJD-24, BPJD-33

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

Product data	Symbol	Unit	BPJD-24	BPJD-33
Average temperature application for central heating			yes	yes
Declared load profile			XL	XL
Typische Nutzung	Q_{ref}	kWh	19,07	19,07
Seasonal space heating energy efficiency			A	A
Water heating energy efficiency classes			A	A
Rated heat output	P_{rated}	kW	22	30
Annual energy consumption	Q_{HE}	kWh	9490	13026
Annual electricity consumption	AEC	kWh	37	39
Annual fuel consumption	AFC	kWh	4991	5100
Seasonal space heating energy efficiency	η_s	%	93	93
Water heating energy efficiency	η_{wh}	%	86	84
sound power level indoors	L_{WA}	dB	49	49
able to work only during off-peak hours			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	BPJD-24	BPJD-33
Condensing boiler			yes	yes
Low-temperature boiler			yes	yes
B1 boiler			no	no
Cogeneration space heater			no	
Combination heater			yes	

Rated heat output / Seasonal space heating energy efficiency	Symbol	Unit	BPJD-24	BPJD-33
Useful heat output at rated heat output and high-temperature regime	P_4	kW	22,1	30,3
Useful heat output at 30 % of rated heat output and low-temperature regime	P_1	kW	7,31	10,03
Useful efficiency at rated heat output and high-temperature regime	η_4	%	88,6	88,4
Useful efficiency at 30 % of rated heat output and low-temperature regime	η_1	%	98,4	97,5

Auxiliary electricity consumption	Symbol	Unit	BPJD-24	BPJD-33
Auxiliary electricity consumption at full load	$e_{l_{max}}$	kW	0,017	0,021
Auxiliary electricity consumption at part load	$e_{l_{min}}$	kW	0,011	0,011
Auxiliary electricity consumption in standby mode	P_{SB}	kW	0,003	0,003

Other details	Symbol	Unit	BPJD-24	BPJD-33
Standby heat loss	P_{stby}	kW	0,052	0,051
ignition burner power consumption	P_{ign}	kW	-	-
Emissions of nitrogen oxides	NO_x	mg/kWh	51	41

Hot Water Preparation	Symbol	Unit	BPJD-24	BPJD-33
Daily electricity consumption	Q_{elec}	kWh	0,169	0,176
Daily fuel consumption	Q_{fuel}	kWh	22,7	23,2



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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 %