

VITODENS 222-F

B2TH-19, B2TH-25, B2TH-32

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

Product data	Symbol	Unit	B2TH-19	B2TH-25	B2TH-32
Average temperature application for central heating			yes	yes	yes
Declared load profile			XL	XL	XL
reference energy	Q_{ref}	kWh	19,07	19,07	19,07
Seasonal space heating energy efficiency			A	A	A
Water heating energy efficiency classes			A	A	A
Rated heat output	P_{rated}	kW	18	23	29
Annual energy consumption	Q_{HE}	kWh	8302	10563	13257
Annual electricity consumption	AEC	kWh	55	58	54
Annual fuel consumption	AFC	kWh	5397	5377	5426
Seasonal space heating energy efficiency	η_s	%	93	94	94
Water heating energy efficiency	η_{wh}	%	80	80	80
sound power level indoors	L_{WA}	dB	47	48	50
able to work only during off-peak hours			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	B2TH-19	B2TH-25	B2TH-32
Condensing boiler			yes	yes	yes
Low-temperature boiler			no	no	no
B1 boiler			no	no	no
Cogeneration space heater			no		
Combination heater			yes		

Rated heat output / Seasonal space heating energy efficiency	Symbol	Unit	B2TH-19	B2TH-25	B2TH-32
Useful heat output at rated heat output and high-temperature regime	P_4	kW	17,5	23	29,3
Useful heat output at 30 % of rated heat output and low-temperature regime	P_1	kW	5,8	7,7	9,8
Useful efficiency at rated heat output and high-temperature regime	η_4	%	88,2	88,7	88,4
Useful efficiency at 30 % of rated heat output and low-temperature regime	η_1	%	97,9	98,8	98,6

Auxiliary electricity consumption	Symbol	Unit	B2TH-19	B2TH-25	B2TH-32
Auxiliary electricity consumption at full load	$e_{l_{max}}$	kW	0,017	0,019	0,021
Auxiliary electricity consumption at part load	$e_{l_{min}}$	kW	0,015	0,016	0,016
Auxiliary electricity consumption in standby mode	P_{SB}	kW	0,0047	0,0047	0,0047

Other details	Symbol	Unit	B2TH-19	B2TH-25	B2TH-32
Standby heat loss	P_{sby}	kW	0,0691	0,0691	0,0691
ignition burner power consumption	P_{ign}	kW	-	-	-
Emissions of nitrogen oxides	NO_x	mg/kWh	20	22	24

Hot Water Preparation	Symbol	Unit	B2TH-19	B2TH-25	B2TH-32
Daily electricity consumption	Q_{elec}	kWh	0,25	0,26	0,24
Daily fuel consumption	Q_{fuel}	kWh	24,5	24,3	24,7



Product fiche Energy efficiency category temperature controller

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

Criterion	Energy efficiency category, temperature controller	Contribution, central heating energy efficiency
• Room thermostat which switches the heat source on/off	1	1 %
• Weather-compensated control • Modulating heat source	2	2 %
• Weather-compensated control • Non-modulating heat source	3	1,5 %
• Room thermostat with TPI (Time Proportional Integral) properties • Non-modulating heat source	4	2 %
• Modulating room thermostat • Modulating heat source	5	3 %
• Weather compensation, control unit • Modulating heat source • Room temperature sensor in conjunction with room hook-up	6	4 %
• Weather compensation, control unit • Non-modulating heat source • Room temperature sensor in conjunction with room hook-up	7	3,5 %
• Individual room control with min. 3 room temperature sensors • Modulating heat source	8	5 %