

## VITODENS 222-F

B2TF-19, B2TF-25, B2TF-32

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

Product data	Symbol	Unit	B2TF-19	B2TF-25	B2TF-32
Average temperature application for central heating			yes	yes	yes
Declared load profile			XL	XL	XL
Typische Nutzung	$Q_{ref}$	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	8258	10511	13191
Annual electricity consumption	AEC	kWh	55	58	54
Annual fuel consumption	AFC	kWh	5397	5377	5426
Seasonal space heating energy efficiency	$\eta_s$	%	93	94	94
Water heating energy efficiency	$\eta_{wh}$	%	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	B2TF-19	B2TF-25	B2TF-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	B2TF-19	B2TF-25	B2TF-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	7,6	9,8
Useful efficiency at rated heat output and high-temperature regime	$\eta_4$	%	88,2	88,3	88,4
Useful efficiency at 30 % of rated heat output and low-temperature regime	$\eta_1$	%	97,9	98,6	98,7

Auxiliary electricity consumption	Symbol	Unit	B2TF-19	B2TF-25	B2TF-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	B2TF-19	B2TF-25	B2TF-32
Standby heat loss	$P_{stby}$	kW	0,0691	0,0691	0,0691
ignition burner power consumption	$P_{ign}$	kW	-	-	-
Emissions of nitrogen oxides	$NO_x$	mg/kWh	21	23	25

Hot Water Preparation	Symbol	Unit	B2TF-19	B2TF-25	B2TF-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



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

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 %