

## 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 %   |