

## VITODENS 100-W

B1HF-11, B1HF-11-M, B1HF-19, B1HF-19-M, B1HF-25, B1HF-25-M, B1HF-32, B1HF-32-M

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

| Product data                             | Symbol             | Unit | B1HF-11 | B1HF-11-M | B1HF-19 | B1HF-19-M | B1HF-25 | B1HF-25-M | B1HF-32 | B1HF-32-M |
|------------------------------------------|--------------------|------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Seasonal space heating energy efficiency |                    |      | A       | A         | A       | A         | A       | A         | A       | A         |
| Rated heat output                        | $P_{\text{rated}}$ | kW   | 10      | 10        | 18      | 18        | 23      | 23        | 29      | 29        |
| Seasonal space heating energy efficiency | $\eta_s$           | %    | 93      | 93        | 93      | 93        | 94      | 94        | 94      | 94        |
| Annual energy consumption                | $Q_{\text{HE}}$    | kWh  | 8725    | 8725      | 8807    | 9800      | 11073   | 12056     | 13759   | 14742     |
| sound power level indoors                | $L_{\text{WA}}$    | dB   | 36      | 36        | 42      | 42        | 46      | 46        | 48      | 48        |

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 | B1HF-11 | B1HF-11-M | B1HF-19 | B1HF-19-M | B1HF-25 | B1HF-25-M | B1HF-32 | B1HF-32-M |
|---------------------------|--------|------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Condensing boiler         |        |      | yes     | yes       | yes     | yes       | yes     | yes       | yes     | yes       |
| Low-temperature boiler    |        |      | no      | no        | no      | no        | no      | no        | no      | no        |
| B1 boiler                 |        |      | no      | no        | no      | no        | no      | no        | no      | no        |
| Cogeneration space heater |        |      | No      |           |         |           |         |           |         |           |
| Combination heater        |        |      | No      |           |         |           |         |           |         |           |

| Rated heat output                                                          | Symbol | Unit | B1HF-11 | B1HF-11-M | B1HF-19 | B1HF-19-M | B1HF-25 | B1HF-25-M | B1HF-32 | B1HF-32-M |
|----------------------------------------------------------------------------|--------|------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Useful heat output at rated heat output and high-temperature regime        | $P_4$  | kW   | 10,1    | 10,1      | 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   | 3,4     | 3,4       | 5,8     | 5,8       | 7,7     | 7,7       | 9,8     | 9,8       |

| Seasonal space heating energy efficiency                                  | Symbol   | Unit | B1HF-11 | B1HF-11-M | B1HF-19 | B1HF-19-M | B1HF-25 | B1HF-25-M | B1HF-32 | B1HF-32-M |
|---------------------------------------------------------------------------|----------|------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Useful efficiency at rated heat output and high-temperature regime        | $\eta_4$ | %    | 88,3    | 88,3      | 88,4    | 88,4      | 88,4    | 88,4      | 88,1    | 88,1      |
| Useful efficiency at 30 % of rated heat output and low-temperature regime | $\eta_1$ | %    | 98,6    | 98,6      | 97,9    | 97,9      | 98,8    | 98,8      | 98,7    | 98,7      |

| Auxiliary electricity consumpt                 | Symbol              | Unit | B1HF-11        | B1HF-11-M | B1HF-19        | B1HF-19-M | B1HF-25        | B1HF-25-M | B1HF-32        | B1HF-32-M |
|------------------------------------------------|---------------------|------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|
| Auxiliary electricity consumption at full load | $e_{\text{el,max}}$ | kW   | 16,690,01<br>7 | 0,017     | 16,540,01<br>7 | 0,017     | 18,060,01<br>8 | 0,018     | 20,910,02<br>1 | 0,021     |



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| Auxiliary electricity consumpt                    | Symbol          | Unit | B1HF-11        | B1HF-11-M | B1HF-19        | B1HF-19-M | B1HF-25        | B1HF-25-M | B1HF-32        | B1HF-32-M |
|---------------------------------------------------|-----------------|------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|
| Auxiliary electricity consumption at part load    | $e_{\min}$      | kW   | 14,610,01<br>5 | 0,015     | 14,470,01<br>4 | 0,014     | 15,180,01<br>5 | 0,015     | 15,530,01<br>6 | 0,016     |
| Auxiliary electricity consumption in standby mode | $P_{\text{SB}}$ | kW   | 0,0038         | 0,0038    | 0,0038         | 0,0038    | 0,0038         | 0,0038    | 0,0038         | 0,0038    |

| Other details                     | Symbol            | Unit   | B1HF-11 | B1HF-11-M | B1HF-19 | B1HF-19-M | B1HF-25 | B1HF-25-M | B1HF-32 | B1HF-32-M |
|-----------------------------------|-------------------|--------|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Standby heat loss                 | $P_{\text{stby}}$ | kW     | 0,0573  | 0,0573    | 0,0573  | 0,0573    | 0,0573  | 0,0573    | 0,0573  | 0,0573    |
| ignition burner power consumption | $P_{\text{ign}}$  | kW     | 0       | 0         | 0       | 0         | 0       | 0         | 0       | 0         |
| Emissions of nitrogen oxides      | $\text{NO}_x$     | mg/kWh | 17      | 17        | 21      | 21        | 23      | 23        | 25      | 25        |

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<br>• Modulating heat source                                                                          | 2                                                  | 2 %                                             |
| • Weather-compensated control<br>• Non-modulating heat source                                                                      | 3                                                  | 1,5 %                                           |
| • Room thermostat with TPI (Time Proportional Integral) properties<br>• Non-modulating heat source                                 | 4                                                  | 2 %                                             |
| • Modulating room thermostat<br>• Modulating heat source                                                                           | 5                                                  | 3 %                                             |
| • Weather compensation, control unit<br>• Modulating heat source<br>• Room temperature sensor in conjunction with room hook-up     | 6                                                  | 4 %                                             |
| • Weather compensation, control unit<br>• Non-modulating heat source<br>• Room temperature sensor in conjunction with room hook-up | 7                                                  | 3,5 %                                           |
| • Individual room control with min. 3 room temperature sensors<br>• Modulating heat source                                         | 8                                                  | 5 %                                             |