



| Performance               |                             |    | TX 99 FS  | TX 230 FS  |
|---------------------------|-----------------------------|----|-----------|------------|
| Nominal heat input (Q)    | G20 / G20Y20 <sup>(1)</sup> | kW | 18,3-99,0 | 37,0-230,0 |
|                           | G25                         | kW | 19,0-99,0 | 37,0-230,0 |
|                           | G31                         | kW | 24,0-99,0 | 54,4-230,0 |
|                           | G30                         | kW | -         | 54,4-230,0 |
| Nominal useful output (P) | G20 / G20Y20 <sup>(1)</sup> | kW | 105,1     | 246,8      |
|                           | G25                         | kW | 107,4     | 249,3      |
|                           | G31                         | kW | 105,2     | 239,5      |

| Domestic hot water performance <sup>(2)</sup>                       |     |       | TX 99 FS | TX 230 FS |
|---------------------------------------------------------------------|-----|-------|----------|-----------|
| Load profile                                                        |     |       | 3XL      | 4XL       |
| Peak flow at 40 °C first 10 minutes                                 |     | l/10' | 1148     | 1749      |
| Peak flow at 40 °C first hour                                       |     | l/60' | 3926     | 7573      |
| Continuous flow rate 40 °C (ΔT = 30 K)                              |     | l/h   | 3010     | 6989      |
| Peak flow at 50 °C first 10 minutes                                 |     | l/10' | 1061     | 1308      |
| Peak flow at 50 °C first hour                                       |     | l/60' | 2924     | 5635      |
| Continuous flow rate 50 °C (ΔT = 40 K)                              |     | l/h   | 2235     | 5192      |
| Peak flow at 60 °C first 10 minutes                                 |     | l/10' | 846      | 1040      |
| Peak flow at 60 °C first hour                                       |     | l/60' | 2308     | 4435      |
| Continuous flow rate 60 °C (ΔT = 50 K)                              |     | l/h   | 1754     | 4075      |
| Recovery time (10 °C - 55 °C)                                       |     | min   | 16       | 6         |
| Efficiency for continuous draw-off at constant ΔT (η <sub>u</sub> ) | G20 | %     | 106,2    | 107,3     |
|                                                                     | G31 | %     | 106,3    | 104,2     |

(1) Up to 20 vol.% hydrogen.  
(2) Operating conditions: DHW set point T = 80 °C, cold water inlet T = 10 °C.  
(3) 15 °C, 1.013,25 mbar, dry gas.

| General                                |                           |      | TX 99 FS                                                                                                                                                         | TX 230 FS                                                                                                                                                                                                                                                 |
|----------------------------------------|---------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Energy consumption                     | W                         |      | 169                                                                                                                                                              | 290                                                                                                                                                                                                                                                       |
| Supply voltage / frequency             | V/Hz                      |      | 230 / 50                                                                                                                                                         | 230 / 50                                                                                                                                                                                                                                                  |
| Protection class                       | IP                        |      | X4D                                                                                                                                                              | X4D                                                                                                                                                                                                                                                       |
| Capacity                               | l                         |      | 500                                                                                                                                                              | 500                                                                                                                                                                                                                                                       |
| Min operating pressure                 | bar                       |      | 1,2                                                                                                                                                              | 1,2                                                                                                                                                                                                                                                       |
| Max operating pressure                 | bar                       |      | 8,0                                                                                                                                                              | 8,0                                                                                                                                                                                                                                                       |
| Max pressure                           | bar                       |      | 10,0                                                                                                                                                             | 10,0                                                                                                                                                                                                                                                      |
| Max DHW operating temperature          | °C                        |      | 80                                                                                                                                                               | 80                                                                                                                                                                                                                                                        |
| Gas type                               |                           |      | G20, G25, G25.1, G25.3, G31, G20Y20 <sup>(1)</sup>                                                                                                               | G20, G25, G25.1, G25.3, G30, G31, G20Y20 <sup>(1)</sup>                                                                                                                                                                                                   |
| Gas appliance category                 |                           |      | I2E(S), I2E, I2H, I2E(R), I2ELL, I2HS, I2N, I2EK, I3P, II2E3P, II2E(S)3P, II2E(S)3B/P, II2EK3P, II2EK3B/P, II2H3P, II2L3P, II2E+3P, II2E(R)3P, II2Esi3P, II2Er3P | I2E(S), I2E, I2H, I2E(R), I2ELL, I2HS, I2N, I2EK, I3P, I3B, I3B/P, II2E3P, II2E3B/P, II2E(S)3P, II2E(S)3B/P, II2EK3P, II2EK3B/P, II2H3P, II2H3B/P, II2L3P, II2L3B/P, II2E+3P, II2E+3B/P, II2E(R)3P, II2E(R)3B/P, II2Esi3P, II2Esi3B/P, II2Er3P, II2Er3B/P |
| Chimney type(s)                        |                           |      | B23, B23P, C43, C53, C63, C83                                                                                                                                    |                                                                                                                                                                                                                                                           |
| CO emission                            | mg/kWh                    |      | 4,3                                                                                                                                                              | 9,7                                                                                                                                                                                                                                                       |
| Gas flow rate                          | G20 <sup>(3)</sup>        | m³/h | 2,0-10,0                                                                                                                                                         | 3,9-22,8                                                                                                                                                                                                                                                  |
|                                        | G25 <sup>(3)</sup>        | m³/h | 2,4-11,8                                                                                                                                                         | 4,4-26,4                                                                                                                                                                                                                                                  |
|                                        | G20Y20 <sup>(1),(3)</sup> | m³/h | 2,2-12,1                                                                                                                                                         | 4,5-27,0                                                                                                                                                                                                                                                  |
|                                        | G30 <sup>(3)</sup>        | m³/h | -                                                                                                                                                                | 1,8-7,0                                                                                                                                                                                                                                                   |
|                                        | G31 <sup>(3)</sup>        | m³/h | 0,9-3,9                                                                                                                                                          | 2,2-8,9                                                                                                                                                                                                                                                   |
| NOx class                              |                           |      | 6                                                                                                                                                                | 6                                                                                                                                                                                                                                                         |
| NOx emission                           | mg/kWh                    |      | 37,6                                                                                                                                                             | 37,5                                                                                                                                                                                                                                                      |
| Mass flow rate of flue gases (min-max) | g/s                       |      | 8,0-42,0                                                                                                                                                         | 16,0-96,6                                                                                                                                                                                                                                                 |
| Max flue gas temperature               | °C                        |      | 60                                                                                                                                                               | 71                                                                                                                                                                                                                                                        |

(1) Up to 20 vol.% hydrogen.  
(2) Operating conditions: DHW set point T = 80 °C, cold water inlet T = 10 °C.  
(3) 15 °C, 1.013,25 mbar, dry gas.

| Dimensions    |    | TX 99 FS | TX 230 FS |
|---------------|----|----------|-----------|
| Width (A)     | mm | 880      | 880       |
| Height (B)    | mm | 2174     | 2174      |
| Depth (C)     | mm | 1050     | 1050      |
| Empty weight  | kg | 402,5    | 432,5     |
| Full of water | kg | 902,5    | 932,5     |

| Connections              |      | TX 99 FS | TX 230 FS |
|--------------------------|------|----------|-----------|
| Inlet - DHW circuit (D)  | inch | G 2      | G 2       |
| Outlet - DHW circuit (E) | inch | G 2      | G 2       |
| Recirculation (F)        | inch | G 1      | G 1       |
| Drain connection (G)     | inch | G 1      | G 1       |
| Gas connection (H)       | inch | G 3/4    | G 1 1/4   |
| Condensate drain (I)     | mm   | 26,7     | 26,7      |
| Chimney connection (J)   | mm   | 150      | 150       |
| Air inlet connection (K) | mm   | 100      | 100       |

