

### 3.27 TECHNICAL PARAMETERS FOR MIXED BOILERS (IN COMPLIANCE WITH REGULATION 813/2013).

The yields in the following tables refer to the higher heating value.

|   |  |       |      |   |            |   |          |             |   |
|---|--|-------|------|---|------------|---|----------|-------------|---|
| Model/s:  |  |       |      | Victrix Pro 80 2ErP   |            |   |          |             |   |
| Condensing Boilers:   |  |       |      | SI  |            |   |          |             |   |
| Low temperature boiler:   |  |       |      | NO  |            |   |          |             |   |
| Boiler type B1:   |  |       |      | NO  |            |   |          |             |   |
| Co-generation appliance for central heating:  |  |       |      | NO  |            | Fitted with supplementary heating system: |          | NO          |   |
| Mixed heating appliance:  |  |       |      | SI  |            |   |          |             |   |
| Element   | Symbol   | Value | Unit | Element   | Symbol     | Value                                     | Unit     |             |   |
| Nominal heat output   | $P_n$  | 73    | kW   | Seasonal energy efficiency of central heating                 | $\eta_s$   | 91  | %        |             |   |
| For central heating only and mixed boilers: useful heat output  |  |       |      | For central heating only and mixed boilers: useful efficiency |            |   |          |             |   |
| At nominal heat output in high temperature mode (*)   | $P_4$  | 73.0  | kW   | At nominal heat output in high temperature mode (*)           | $\eta_4$   | 87.5                                      | %        |             |   |
| At 30% of nominal heat output in a low temperature mode (**)  | $P_1$  | 21.9  | kW   | At 30% of nominal heat output in a low temperature mode (**)  | $\eta_1$   | 96.0                                      | %        |             |   |
| Auxiliary electricity consumption   |  |       |      | Other items   |            |   |          |             |   |
| At full load  | $el_{max}$   | 0.119 | kW   | Heat loss in standby  | $P_{stby}$ | 0.143                                     | kW       |             |   |
| At partial load   | $el_{min}$   | 0.024 | kW   | Ignition burner energy consumption                            | $P_{ign}$  | 0.000                                     | kW       |             |   |
| In standby mode   | $P_{SB}$   | 0.004 | kW   | Emissions of nitrogen oxides                                  | $NO_x$     | 22  | mg / kWh |             |   |
| For mixed central heating appliances  |  |       |      |   |            |   |          |             |   |
| Stated load profile   |  |       |      | Domestic hot water production efficiency                      |            |   |          | $\eta_{WH}$ | % |
| Daily electrical power consumption  | $Q_{elec}$   |       | kWh  | Daily gas consumption   | $Q_{fuel}$ |   | kWh      |             |   |
| Contact information   | IMMERGAS S.p.A. VIA CISA LIGURE, 95 - 42041 BRESCELLO (RE) ITALY |       |      |   |            |   |          |             |   |
| (*) High temperature mode means 60°C on return and 80°C on flow.  |  |       |      |   |            |   |          |             |   |
| (**) Low temperature mode for condensation Boilers means 30°C , for low temperature boilers 37°C and for other appliances 50°C of return temperature. |  |       |      |   |            |   |          |             |   |

|   |  |       |      |   |            |   |          |             |   |
|---|--|-------|------|---|------------|---|----------|-------------|---|
| Model/s:  |  |       |      | Victrix Pro 100 2ErP  |            |   |          |             |   |
| Condensing Boilers:   |  |       |      | SI  |            |   |          |             |   |
| Low temperature boiler:   |  |       |      | NO  |            |   |          |             |   |
| Boiler type B1:   |  |       |      | NO  |            |   |          |             |   |
| Co-generation appliance for central heating:  |  |       |      | NO  |            | Fitted with supplementary heating system: |          | NO          |   |
| Mixed heating appliance:  |  |       |      | SI  |            |   |          |             |   |
| Element   | Symbol   | Value | Unit | Element   | Symbol     | Value                                     | Unit     |             |   |
| Nominal heat output   | $P_n$  | 90    | kW   | Seasonal energy efficiency of central heating                 | $\eta_s$   | 92  | %        |             |   |
| For central heating only and mixed boilers: useful heat output  |  |       |      | For central heating only and mixed boilers: useful efficiency |            |   |          |             |   |
| At nominal heat output in high temperature mode (*)   | $P_4$  | 90.0  | kW   | At nominal heat output in high temperature mode (*)           | $\eta_4$   | 88.0                                      | %        |             |   |
| At 30% of nominal heat output in a low temperature mode (**)  | $P_1$  | 27.0  | kW   | At 30% of nominal heat output in a low temperature mode (**)  | $\eta_1$   | 96.8                                      | %        |             |   |
| Auxiliary electricity consumption   |  |       |      | Other items   |            |   |          |             |   |
| At full load  | $el_{max}$   | 0.143 | kW   | Heat loss in standby  | $P_{stby}$ | 0.145                                     | kW       |             |   |
| At partial load   | $el_{min}$   | 0.017 | kW   | Ignition burner energy consumption                            | $P_{ign}$  | 0.000                                     | kW       |             |   |
| In standby mode   | $P_{SB}$   | 0.005 | kW   | Emissions of nitrogen oxides                                  | $NO_x$     | 18  | mg / kWh |             |   |
| For mixed central heating appliances  |  |       |      |   |            |   |          |             |   |
| Stated load profile   |  |       |      | Domestic hot water production efficiency                      |            |   |          | $\eta_{WH}$ | % |
| Daily electrical power consumption  | $Q_{elec}$   |       | kWh  | Daily gas consumption   | $Q_{fuel}$ |   | kWh      |             |   |
| Contact information   | IMMERGAS S.p.A. VIA CISA LIGURE, 95 - 42041 BRESCELLO (RE) ITALY |       |      |   |            |   |          |             |   |
| (*) High temperature mode means 60°C on return and 80°C on flow.  |  |       |      |   |            |   |          |             |   |
| (**) Low temperature mode for condensation Boilers means 30°C , for low temperature boilers 37°C and for other appliances 50°C of return temperature. |  |       |      |   |            |   |          |             |   |

|   |               |       |      |  |            |       |   |    |
|---|---------------|-------|------|--|------------|-------|---|----|
| Model/s:  |               |       |      | Victrix Pro 120 2ErP   |            |       |   |    |
| Condensing Boilers:   |               |       |      | SI   |            |       |   |    |
| Low temperature boiler:   |               |       |      | NO   |            |       |   |    |
| Boiler type B1:   |               |       |      | NO   |            |       |   |    |
| Co-generation appliance for central heating:  |               |       |      | NO   |            |       | Fitted with supplementary heating system: | NO |
| Mixed heating appliance:  |               |       |      | SI   |            |       |   |    |
| Element   | Symbol        | Value | Unit | Element  | Symbol     | Value | Unit                                      |    |
| Nominal heat output   | $P_n$         | 111   | kW   | Seasonal energy efficiency of central heating                    | $\eta_s$   | 92    | %   |    |
| For central heating only and mixed boilers: useful heat output  |               |       |      | For central heating only and mixed boilers: useful efficiency    |            |       |   |    |
| At nominal heat output in high temperature mode (*)   | $P_4$         | 111.0 | kW   | At nominal heat output in high temperature mode (*)              | $\eta_4$   | 87.9  | %   |    |
| At 30% of nominal heat output in a low temperature mode (**)  | $P_1$         | 33.3  | kW   | At 30% of nominal heat output in a low temperature mode (**)     | $\eta_1$   | 96.5  | %   |    |
| Auxiliary electricity consumption   |               |       |      | Other items  |            |       |   |    |
| At full load  | $e_{l_{max}}$ | 0.190 | kW   | Heat loss in standby   | $P_{stby}$ | 0.168 | kW  |    |
| At partial load   | $e_{l_{min}}$ | 0.019 | kW   | Ignition burner energy consumption                               | $P_{ign}$  | 0.000 | kW  |    |
| In standby mode   | $P_{sb}$      | 0.004 | kW   | Emissions of nitrogen oxides                                     | $NO_x$     | 28    | mg / kWh                                  |    |
| For mixed central heating appliances  |               |       |      |  |            |       |   |    |
| Stated load profile   |               |       |      | Domestic hot water production efficiency                         |            |       |   |    |
|   |               |       |      | $\eta_{WH}$  |            |       |   |    |
| Daily electrical power consumption  |               |       |      | Daily gas consumption  |            |       |   |    |
| $Q_{elec}$  |               |       |      | $Q_{fuel}$   |            |       |   |    |
| Contact information   |               |       |      | IMMERGAS S.p.A. VIA CISA LIGURE, 95 - 42041 BRESCELLO (RE) ITALY |            |       |   |    |
| (*) High temperature mode means 60°C on return and 80°C on flow.  |               |       |      |  |            |       |   |    |
| (**) Low temperature mode for condensation Boilers means 30°C , for low temperature boilers 37°C and for other appliances 50°C of return temperature. |               |       |      |  |            |       |   |    |