

**2.5 TECHNICAL PARAMETERS FOR COMBINATION BOILERS
(IN COMPLIANCE WITH REGULATION 813/2013).**

Efficiencies in the following tables refer to the gross calorific value.

| Model/s: | | | | ARES 150 Tec ErP | | | | |
|---|------------|--|------|---|------------|---|----------|----|
| Condensing Boilers: | | | | YES | | | | |
| Low temperature boiler: | | | | NO | | | | |
| Boiler type B1: | | | | NO | | | | |
| Co-generation appliance for central heating: | | | | NO | | Fitted with supplementary heating system: | | NO |
| Mixed heating appliance: | | | | NO | | | | |
| Element | Symbol | Value | Unit | Element | Symbol | Value | Unit | |
| Nominal heat output | P_n | 146 | kW | Seasonal energy efficiency of central heating | η_s | 92 | % | |
| For central heating only and combination boilers: useful heat output | | | | For central heating only and combination boilers: useful efficiency | | | | |
| At nominal heat output in high temperature mode (*) | P_4 | 146.1 | kW | At nominal heat output in high temperature mode (*) | η_4 | 87.7 | % | |
| At 30% of nominal heat output in a low temperature mode (**) | P_1 | 49.3 | kW | At 30% of nominal heat output in a low temperature mode (**) | η_1 | 96.7 | % | |
| Auxiliary electricity consumption | | | | Other items | | | | |
| At full load | el_{max} | 0.210 | kW | Heat loss in standby | P_{stby} | 0.94 | kW | |
| At partial load | el_{min} | 0.040 | kW | Annual electrical consumption | Q_{HE} | 459 | GJ | |
| In standby mode | P_{SB} | 0.000 | kW | Emissions of nitrogen oxides ref. PCI (PCS) | NO_x | 54 (49) | mg / kWh | |
| For mixed central heating appliances | | | | | | | | |
| Stated load profile | | | | Domestic hot water production efficiency | | η_{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. | | | | | | | | |

TECHNICAL CHARACTERISTICS AND DIMENSIONS

| Model/s: | | | | ARES 200 Tec ErP | | | | | | |
|--|------------|-------|------|---|------------|---|-----------------------|-------------|------------|-----|
| Condensing Boilers: | | | | YES | | | | | | |
| Low temperature boiler: | | | | NO | | | | | | |
| Boiler type B1: | | | | NO | | | | | | |
| Co-generation appliance for central heating: | | | | NO | | Fitted with supplementary heating system: | | NO | | |
| Mixed heating appliance: | | | | NO | | | | | | |
| Element | Symbol | Value | Unit | Element | Symbol | Value | Unit | | | |
| Nominal heat output | P_n | 195 | kW | Seasonal energy efficiency of central heating | η_s | 92 | % | | | |
| For central heating only and combination boilers: useful heat output | | | | For central heating only and combination boilers: useful efficiency | | | | | | |
| At nominal heat output in high temperature mode (*) | P_4 | 195.2 | kW | At nominal heat output in high temperature mode (*) | η_4 | 87.5 | % | | | |
| At 30% of nominal heat output in a low temperature mode (**) | P_1 | 64.4 | kW | At 30% of nominal heat output in a low temperature mode (**) | η_1 | 96.7 | % | | | |
| Auxiliary electricity consumption | | | | Other items | | | | | | |
| At full load | el_{max} | 0.290 | kW | Heat loss in standby | P_{stby} | 0.98 | kW | | | |
| At partial load | el_{min} | 0.040 | kW | Annual electrical consumption | Q_{HE} | 612 | GJ | | | |
| In standby mode | P_{SB} | 0.010 | kW | Emissions of nitrogen oxides ref. PCI (PCS) | NO_x | 54 (49) | mg / kWh | | | |
| For mixed central heating appliances | | | | | | | | | | |
| Stated load profile | | | | Domestic hot water production efficiency | | | | η_{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: | | | | ARES 250 Tec ErP | | | | | | |
|--|------------|-------|------|---|------------|---|-----------------------|-------------|------------|-----|
| Condensing Boilers: | | | | YES | | | | | | |
| Low temperature boiler: | | | | NO | | | | | | |
| Boiler type B1: | | | | NO | | | | | | |
| Co-generation appliance for central heating: | | | | NO | | Fitted with supplementary heating system: | | NO | | |
| Mixed heating appliance: | | | | NO | | | | | | |
| Element | Symbol | Value | Unit | Element | Symbol | Value | Unit | | | |
| Nominal heat output | P_n | 240 | kW | Seasonal energy efficiency of central heating | η_s | 92 | % | | | |
| For central heating only and combination boilers: useful heat output | | | | For central heating only and combination boilers: useful efficiency | | | | | | |
| At nominal heat output in high temperature mode (*) | P_4 | 244.5 | kW | At nominal heat output in high temperature mode (*) | η_4 | 88.1 | % | | | |
| At 30% of nominal heat output in a low temperature mode (**) | P_1 | 80.5 | kW | At 30% of nominal heat output in a low temperature mode (**) | η_1 | 96.7 | % | | | |
| Auxiliary electricity consumption | | | | Other items | | | | | | |
| At full load | el_{max} | 0.362 | kW | Heat loss in standby | P_{stby} | 1.1 | kW | | | |
| At partial load | el_{min} | 0.040 | kW | Annual electrical consumption | Q_{HE} | 766 | GJ | | | |
| In standby mode | P_{SB} | 0.010 | kW | Emissions of nitrogen oxides ref. PCI (PCS) | NO_x | 54 (49) | mg / kWh | | | |
| For mixed central heating appliances | | | | | | | | | | |
| Stated load profile | | | | Domestic hot water production efficiency | | | | η_{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.

TECHNICAL CHARACTERISTICS AND DIMENSIONS

| | | | | | | | | | | |
|--|------------|-------|------|---|------------|---|-----------------------|-------------|------------|-----|
| Model/s: | | | | ARES 300 Tec ErP | | | | | | |
| Condensing Boilers: | | | | YES | | | | | | |
| Low temperature boiler: | | | | NO | | | | | | |
| Boiler type B1: | | | | NO | | | | | | |
| Co-generation appliance for central heating: | | | | NO | | Fitted with supplementary heating system: | | NO | | |
| Mixed heating appliance: | | | | NO | | | | | | |
| Element | Symbol | Value | Unit | Element | Symbol | Value | Unit | | | |
| Nominal heat output | P_n | 294 | kW | Seasonal energy efficiency of central heating | η_s | 92 | % | | | |
| For central heating only and combination boilers: useful heat output | | | | For central heating only and combination boilers: useful efficiency | | | | | | |
| At nominal heat output in high temperature mode (*) | P_4 | 294.0 | kW | At nominal heat output in high temperature mode (*) | η_4 | 88.3 | % | | | |
| At 30% of nominal heat output in a low temperature mode (**) | P_1 | 96.6 | kW | At 30% of nominal heat output in a low temperature mode (**) | η_1 | 96.7 | % | | | |
| Auxiliary electricity consumption | | | | Other items | | | | | | |
| At full load | el_{max} | 0.435 | kW | Heat loss in standby | P_{stby} | 1.15 | kW | | | |
| At partial load | el_{min} | 0.040 | kW | Annual electrical consumption | Q_{HE} | 920 | GJ | | | |
| In standby mode | P_{SB} | 0.010 | kW | Emissions of nitrogen oxides ref. PCI (PCS) | NO_x | 54 (49) | mg / kWh | | | |
| For mixed central heating appliances | | | | | | | | | | |
| Stated load profile | | | | Domestic hot water production efficiency | | | | η_{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: | | | | ARES 350 Tec ErP | | | | | | |
| Condensing Boilers: | | | | YES | | | | | | |
| Low temperature boiler: | | | | NO | | | | | | |
| Boiler type B1: | | | | NO | | | | | | |
| Co-generation appliance for central heating: | | | | NO | | Fitted with supplementary heating system: | | NO | | |
| Mixed heating appliance: | | | | NO | | | | | | |
| Element | Symbol | Value | Unit | Element | Symbol | Value | Unit | | | |
| Nominal heat output | P_n | 342 | kW | Seasonal energy efficiency of central heating | η_s | 92 | % | | | |
| For central heating only and combination boilers: useful heat output | | | | For central heating only and combination boilers: useful efficiency | | | | | | |
| At nominal heat output in high temperature mode (*) | P_4 | 341.7 | kW | At nominal heat output in high temperature mode (*) | η_4 | 88.5 | % | | | |
| At 30% of nominal heat output in a low temperature mode (**) | P_1 | 112.0 | kW | At 30% of nominal heat output in a low temperature mode (**) | η_1 | 96.7 | % | | | |
| Auxiliary electricity consumption | | | | Other items | | | | | | |
| At full load | el_{max} | 0.507 | kW | Heat loss in standby | P_{stby} | 1.39 | kW | | | |
| At partial load | el_{min} | 0.040 | kW | Annual electrical consumption | Q_{HE} | 1069 | GJ | | | |
| In standby mode | P_{SB} | 0.010 | kW | Emissions of nitrogen oxides ref. PCI (PCS) | NO_x | 54 (49) | mg / kWh | | | |
| For mixed central heating appliances | | | | | | | | | | |
| Stated load profile | | | | Domestic hot water production efficiency | | | | η_{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.