

Information for boiler space heaters, boiler combination heaters and cogeneration space heaters

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|-------------------------------|---------------------------|---|-----|--------------------|-------|
| Model(s): | CTC EcoZenith i350 3x230V | | | | |
| Condensing boiler: | No | Built in DHW: | NA | Eff class: | D |
| Low-temperature (***) boiler: | No | Built in DHW: | NA | Controller: | VII |
| B1 boiler: | No | Built in DHW: | NA | Contribution: | 3,5 % |
| Cogeneration space heater: | No | If yes, equipped with a supplementary heater: | NA | Package η_s : | 40% |
| Electrical boiler | Yes | Built in DHW: | Yes | Package class: | D |

| Item | Symbol | Value | Unit | Item | Symbol | Value | Unit |
|--|-----------------------------|-------|------|--|--------------------------|-------|--------|
| Rated heat output | P_{rated} | 10 | kW | Seasonal space heating energy efficiency | η_s | 37 | % |
| Annual energy consumption | Q_{HE} | 19028 | kWh | For boiler space heaters and boiler combination heaters: Useful heat output | | | |
| For boiler space heaters and boiler combination heaters: Useful heat output | | | | For boiler space heaters and boiler combination heaters: Useful efficiency | | | |
| At rated heat output and high-temperature regime (*) | P_4 | 10 | kW | At rated heat output and high-temperature regime (*) | η_4 | 39,9 | % |
| At 30 % of rated heat output and low-temperature regime (**) | P_1 | NA | kW | At 30 % of rated heat output and low-temperature regime (**) | η_1 | NA | % |
| For cogeneration space heaters: Useful heat output | | | | For cogeneration space heaters: Useful efficiency | | | |
| At rated heat output of cogeneration space heater with supplementary heater enabled | $P_{CHP100 + Sup0}$ | NA | kW | At rated heat output of cogeneration space heater with supplementary heater disabled | $\eta_{CHP100 + Sup0}$ | NA | % |
| At rated heat output of cogeneration space heater with supplementary heater enabled | $P_{CHP100 + Sup100}$ | NA | kW | At rated heat output of cogeneration space heater with supplementary heater enabled | $\eta_{CHP100 + Sup100}$ | NA | % |
| For cogeneration space heaters: Electrical efficiency | | | | Supplementary heater | | | |
| At rated heat output of cogeneration space heater with supplementary heater disabled | $\eta_{el,CHP100 + Sup0}$ | NA | % | Rated heat output | P_{sup} | NA | kW |
| At rated heat output of cogeneration space heater with supplementary heater enabled | $\eta_{el,CHP100 + Sup100}$ | NA | % | Type of energy input | NA | | |
| Auxiliary electricity consumption | | | | Other items | | | |
| At full load | el_{max} | NA | kW | Standby heat loss | P_{stby} | 0,014 | kW |
| At part load | el_{min} | NA | kW | Ignition burner power consumption | P_{ign} | NA | kW |
| In standby mode | P_{SB} | 0,011 | kW | Emissions of nitrogen oxides | NO_x | NA | mg/kWh |

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|-------------------------------|------------|--------|---------|---------------------------------------|-------------------|------|---------|
| For combination heaters: | | | | | | | |
| Declared load profile | XL | | | Water heating energy efficiency/Class | $\eta_{wh/Class}$ | 36/D | %/- |
| Daily electricity consumption | Q_{elec} | 21,248 | 1,0 kWh | Daily fuel consumption | Q_{fuel} | NA | 1,0 kWh |

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(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet. (**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

