ECOCONDENS CRYSTAL -100

ECOCONDENS CRYSTAL 100 wall mounted gas condensing boilers are intended for heating large objects such as: multifamily buildings, boarding houses or office buildings. Boilers can work as independent units as well as in a cascade system. The modern control system used in the boiler allows to combine up to 6 boilers into a cascade without the need for an additional cascade manager and to achieve a total output of up to 600 kW.

- innovative heat exchanger design makes the boilers small in size in relation to their power output,
- high efficiency circulation pump (EEI ≤ 0,23),
- venting of the boiler is carried out by an air-vent mounted on the exchanger,
- electronically controlled modulating fan which ensures low energy consumption,
- burner with a wide range of modulation which ensures low NOx emissions (5th Class),
- two preinstalled adapters with measuring points: Ø100 air and Ø100 exhaust gas,
- NTC sensor of hydraulic coupling on the boiler equipment,
- Open-Therm communication protocol,
- works with domestic hot water cylinders with a coil output of min. 25 kW,
- in cascade systems, boilers are connected in series via a wire connected to the boiler. First boiler works as MASTER boiler (it functions as a manager), others work as a subordinate SLAVE, **so there is no need to connect an additional external manager,**
- high efficiency circulation pump with a lifting height of 8m; boiler version with pump of 12m lifting height available on request.

Accessories

CR11011

TERMET ST-292 V2

TERMET ST-292 V3

OUTSIDE TEMPERATURE SENSOR

parameters	Value
Thermal power (at temp. 80/60°C)	17,0 - 100,0 kW
Thermal power (at temp. 50/30°C)	19,0 - 110,0 kW
Heat load	18,0 - 103,0 kW
Efficiency of the boiler at nominal load and average boiler water temperature of 70°C	97,0 %
Efficiency of the boiler at partial load and return water temperature of 30°C	107,0 %
Efficiency η4	87 %
Efficiency η1	95 %
Max water pressure	4 bar
Standard adjustable temperature	20 - 80 °C
Pump head at 0 flow	0,8 bar
Sound power level LWA	65 dB
Emission of nitrogen dioxide	≤ 50 mg/kWh
Emission class of nitrogen dioxide (NOx)	5
Max. amount of condensate (natural gas)	15 l/h
Type and supply voltage	~ 230 ±10%/ 50Hz V
Protection degree	IPX4D
Connection to the chimney duct	2 x ø100
Heating water and gas connection	G 5/4 -- G 1 inch
Dimensions	810 x 540 x 545 mm
Weight	84 kg
Exchanger material	stainless steel