CRYSTAL CASCADE 59

CRYSTAL CASCADE 59 wall-mounted condensing boilers are an ideal solution for heating multi-family buildings, guesthouses or office buildings. The boilers can operate as stand-alone units as well as in a cascade system. By combining the boilers in a cascade (maximum 6 units in the system) it is possible to achieve a power of up to 340 kW and heat large-area facilities, e.g. production halls.

- **innovative heat exchanger design which makes the boilers small in size in relation to their power**
- compact dimensions: 400mm x 730mm x 430mm (width x height x depth)
- modulated electronically controlled fan providing low energy consumption
- wide modulation range burner ensuring low NOx emissions (class 6)
- NTC sensor of the low-loss header included in the boiler equipment
- Open-Therm communication protocol
- non-return flap protecting against reverse flue gas flow - enables connection of multiple boilers to a collective LAS type chimney system
- works with domestic hot water tanks with a coil power of min. 15 kW
- modern control panel with LCD display and full auto-diagnostics
- can work in a cascade system (max. up to 6 boilers)
- **built-in cascade manager with automatic configuration ensuring control and monitoring of the status of boilers operating within the cascade**
- highly efficient circulation pump (EEI ≤ 0.23), with a lifting height of 8 m
- increased flow diameters in the hydraulic system, adapted to higher power
- complete system of safeguards

parameters	Value
Thermal power (at temp. 80/60°C)	8,2 - 57,2 kW
Thermal power (at temp. 50/30°C)	9,1 - 62,0 kW
Seasonal space heating energy efficiency ηs	92,0 %
Seasonal space heating energy efficiency class	A
Max water pressure	3 bar
Max CH temperature	80 °C
Standard adjustable temperature	20 - 80 °C
Pump head at 0 flow	0,8 bar
Sound power level LWA	57,0 dB
Emission class of nitrogen dioxide (NOx)	6
Type and supply voltage	~ 230 ±10%/ 50Hz V
Protection degree	IPX4D
Heating water and gas connection	G1 / G3/4 inch
Dimensions	730 x 400 x 430 mm
Weight	48,5 kg

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