

Warmth of nature

termet®



ECO
PRODUCT



COMMERCIAL
HEATING



CASCADE
SYSTEMS



Termet heat academy

High power gas condenser boilers

ECOCONDENS CRYSTAL 80 ECOCONDENS CRYSTAL 100

ECOCONDENS CRYSTAL 80 and ECOCONDENS CRYSTAL 100 series condensing boilers have been designed for heating large-area buildings, based on the highest quality components, guaranteeing economical and reliable operation of the device and ensuring high technical and operational parameters. They are therefore an ideal solution for heating multi-family buildings, guesthouses or office buildings.

The ECOCONDENS CRYSTAL 80 or ECOCONDENS CRYSTAL 100 boiler can work as an independent unit, as well as in a cascade system. Thanks to the combination of boilers in a cascade (up to 6 units in the system), it is possible to achieve power up to 600 kW and heating of large-area facilities, e.g. production halls.



Suitable for heating:

- multi-family buildings
- boarding houses
- hotels
- production halls
- warehouses
- kindergartens
- schools
- public buildings
- office complexes
- sports facilities



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TECHNICAL FEATURES

1 HEAT EXCHANGER

- innovative heat exchanger construction (divided into two sections: top - condensing section and bottom - section where burner is located)

2 BURNER

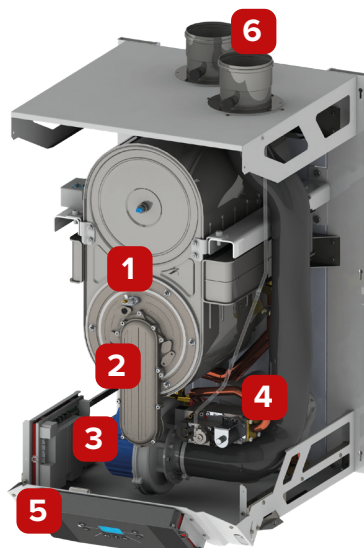
- reliable burner ensuring low NO_x emissions (highest class 6)

3 FAN

- electronically controlled modulating fan

4 PUMP

- high-efficiency circulation pump (EEI≤0.23) - air vent in the boiler
- pump head (at flow = 0 m³/h) 80 kPa (0.8 bar)



5 CONTROL PANEL

- modern control panel with LCD display and full self-diagnosis
- Open-Therm communication system
- possibility of operation in a cascade system (up to 6 boilers)
- built-in cascade manager - thanks to which boilers in cascade systems can be connected in series. The first boiler acts as the MASTER boiler that controls the system, the others work as subordinated SLAVE boilers. This allows for a significant reduction in investment costs

5 AIR/FLUE SYSTEMS

- two factory-built adapters with measuring stubs: air Ø100 and flue Ø100

TECHNICAL DATA

		SYSTEM BOILERS	
		80	100
CH circuit 	Heat output	80 kW	100 kW
	Heat output (at temp. 50/30°C)	19,0-88,0 kW	19,0-110,0 kW
	Useful boiler efficiency at partial heat output and return water temperature 30°C	~107 %	~107 %
	Emission of NO _x	≤50 mg/kWh	≤50 mg/kWh
	Max. water pressure	4 bar	4 bar
	Sound power level L _{wa}	62 dB	65 dB
	Power supply	~230±10%V/50Hz	~230±10%V/50Hz
	Protection class	IPX4D	IPX4D
	Height x width x depth	810x540x545 mm	810x540x545 mm
Weight		84,0 kg	84,0 kg

Cooperation with hot water tank



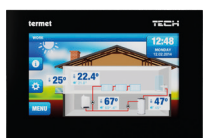
to ensure correct operation of the boiler, it is required that the power of the coil in the tank is at least 25 kW
 the need to buy a three-way valve G1" (230V) with the catalog number WKZ 5140 12 00 00
 the need to buy an NTC tank sensor (12kΩ) with the catalog number WKC 5140 00 00 91

ACCESSORIES (complete offer available on the website www.termet.com.pl)

room temperature controllers



CR1101



ST 2801 lub ST 2801 wi-fi

control of heating circuits



I-3 PLUS zone manager



I-1m mixing valve module



Wi-Fi RS module

accessories to the cascade



neutralizers condensate



Air/flue gas systems



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