

Warmth of nature

termet®



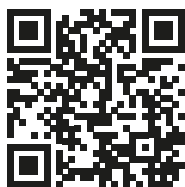
ECO
PRODUCT



COMMERCIAL
HEATING



CASCADE
SYSTEMS



Termet heat academy

High power gas condensing boilers

ECOCONDENS CRYSTAL PLUS-50

They are an ideal solution for heating large areas (large single-family houses, blocks of flats, tenement houses). The devices belong to the group of ecological and extremely economical heating units.

ECOCONDENS CRYSTAL PLUS - 50 boilers can be used to build a boiler room with a capacity of approx. 200 kW. The operation of all devices connected in cascade is connected by one master cascade manager.

A



A+++
↑
D

B



A+
↑
F

Suitable for heating:

- multi-family buildings
- boarding houses
- small hotels
- production halls
- warehouses
- kindergartens
- public buildings
- sports facilities



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www.termet.com.pl

TECHNICAL FEATURES

1 HEAT EXCHANGER

- heat exchanger with a coil made of stainless steel
- "cold door" effect - modern technology in the heat exchanger reducing heat losses to the environment, increasing the seasonal efficiency of the boiler

2 BURNER

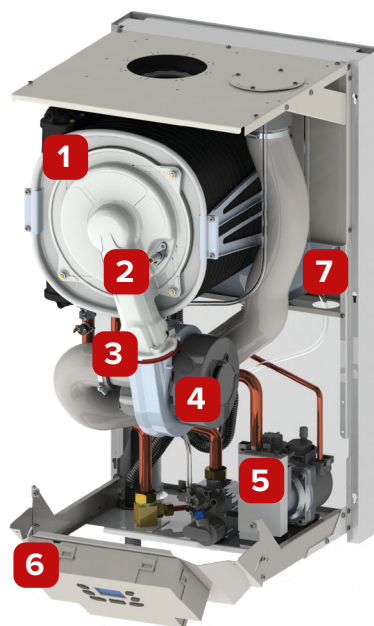
- low NO_x stainless steel cylindrical burner (class 6)

3 RETURN FLAP

- protects against backdraft of exhaust gases
- enables the connection of multiple boilers to a collective chimney system

4 FAN

- modulated, electronically controlled



5 PUMP

- high-efficiency circulation pump (EEI≤0.23) with automatic air vent
- pump head (at flow = 0 m³/h) 70 kPa (0,7 bar)

6 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 4 boilers)
- cooperation with the AX 1203SQ cascade manager

7 EXPANSION VESSEL

- expansion vessel capacity 8 dm³

TECHNICAL DATA

		SYSTEM BOILERS	COMBI BOILERS
TECHNICAL FEATURES		50	50
CH circuit 	Seasonal space heating energy efficiency class	A	A
	Heat output	45 kW	45 kW
	Seasonal space heating energy efficiency [η_s]	91 %	91 %
	Annual energy consumption (Q_{HE})	93,1 GJ	93,1 GJ
	Heat output (at temp. 50/30°C)	6,1-49,6 kW	6,1-49,6 kW
	Useful boiler efficiency at partial heat output and return water temperature 30°C	~108 %	~108 %
	Max. water pressure	3 bar	3 bar
	Expansion vessel capacity	8 dm ³	8 dm ³
DHW circuit	Water heating energy efficiency class	-	B
	Declared load profile	-	XXL
	Water heating energy efficiency [η_{wh}]	-	76 %
	Heat output (at temp. 80/60°C)	-	5,5-45,0 kW
	Water flow at $\Delta t=30^\circ\text{C}$	-	21,5 dm ³ /min
	Sound power level L_{wa}	69 dB	69 dB
	Emission of NO _x	50 mg/kWh	50 mg/kWh
	Chimney duct connection	Coaxial Ø80/Ø125 mm, Ø60/Ø100 mm or two separate Ø80 mm	
Power supply		~230±10%V/50Hz	
Protection class		IPX4D	
Height x width x depth		730 x 400 x 440 mm	
Weight		38,0 kg	40,0 kg

ADDITIONAL REQUIRED ACCESSORIES TO COMBINE ECOCONDENS CRYSTAL PLUS-50 BOILERS INTO CASCADE

Catalogue number	Trade name	Description
WKM 0623 00 00 00	AX 1203SQ cascade manager	- cascade management of 2-4 boilers - cooperates with CR 11011 Open-Therm regulator - equipped with outdoor temperature sensor and supply temperature sensor - cooperates with I-3 PLUS zone manager
WKZ 0624 00 00 00	CR 11011	- Open-Therm communication protocol - cooperates directly with AX 1203SQ cascade manager

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

room temperature controllers



CR11011

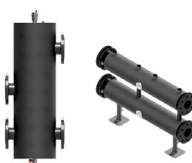
control of heating circuits



I-3m mixing valve module

Wi-Fi RS module

accessories to the cascade



neutralizers condensate



Air/flue gas systems



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