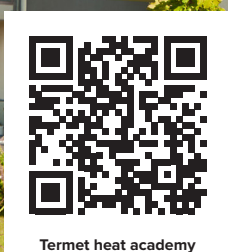


Warmth of nature



**termet**<sup>®</sup>



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.

### Suitable for heating:

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



[www.termet.com.pl](http://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

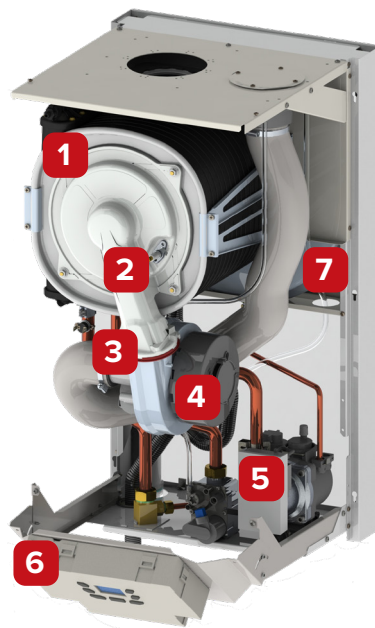
- low NO<sub>x</sub> stainless steel cylindrical burner (class 6)

### 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 m<sup>3</sup>/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 dm<sup>3</sup>

## TECHNICAL DATA

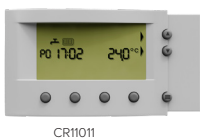
		SYSTEM BOILERS	COMBI BOILERS
TECHNICAL FEATURES		50	50
<b>CH circuit</b>	Seasonal space heating energy efficiency class	<b>A</b>	<b>A</b>
	Heat output	45 kW	45 kW
	Seasonal space heating energy efficiency [ $\eta_s$ ]	91 %	91 %
	Annual energy consumption (Q <sub>HP</sub> )	93,1 GJ	93,1 GJ
	Heat output (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 <sup>3</sup>	8 dm <sup>3</sup>
<b>DHW circuit</b>	Water heating energy efficiency class	-	<b>B</b>
	Declared load profile	-	XXL
	Water heating energy efficiency [ $\eta_{wh}$ ]	-	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 <sup>3</sup> /min
	Sound power level L <sub>wa</sub>	69 dB	69 dB
	<b>Emission of NO<sub>x</sub></b>	<b>50 mg/kWh</b>	<b>50 mg/kWh</b>
	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
<b>WKM 0623 00 00 00</b>	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
<b>WKZ 0624 00 00 00</b>	CR 11011	- Open-Therm communication protocol - cooperates directly with AX 1203SQ cascade manager

## ACCESSORIES (complete offer available on the website [www.termet.com.pl](http://www.termet.com.pl))

### room temperature controllers



CR11011

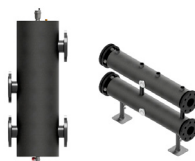
### control of heating circuits



I-Im mixing valve module

Wi-Fi RS module

### accessories to the cascade



### neutralizers condensate



### Air/flue gas systems



**termet®**

Termet S.A. ul. Długa 13, 58-160 Świebodzice  
T: +48 74 85 60 801 E: export@termet.com.pl

[www.termet.com.pl](http://www.termet.com.pl)