



Electric heating boilers

Advanced **LCD** automation



- 30 years experience
- more than 500,000 satisfied customers throughout Europe

30 years



High efficiency of boiler operation

99,5%





Operation



max. powe lock



VC contact 0V Detachable contact



PV Ready



Ideal for central heating systems.

- in energy-efficient buildings
- awaiting the gas connection
- alternative, supportive, temporary





No connection to chimney

- environmental protection
- no exhaust emissions
- human and animal friendly

STOP CO₂



Weekly programming

- 9 CH programme
- 9 DHW & circulation programme





Electric heating boilers

Colonel



Comply with the directives

- LVD low voltage electrical safety
- RoHS restriction of the use of certain hazardous substances
- EMC electromagnetic compatibility
- WEEE on waste equipment, GIOŚ Register no: E0001767W
- -energy efficiency of heat sources
 - energy efficiency class D

Watch Dog

processor monitoring system

PID

proportional-integral differential regulator

BM

non-volatile programme memory

PAS

ANTI STOP pump safety system

SC

protection against excessive boiler switching frequency

osc

quadruple overheat protection

In boiler price included



PV Ready

Operation counter



PV Ready

Max power lock



PV Readv

NC contact 0V



PV Ready Disconnectable contact



PV Ready PID On/Off

· heating boiler operation counter

- · stop heating
- · adjustable energy consumption
- boiler stop signalling

Adaptation of the boiler power to the output of the PV installation (function available on the boiler panel)

Possibility to operate the boiler with:

- · any voltage-free room controller
- automation of another heat source or inverter

Disconnects the second heat source when the electric boiler is switched ON. Switches the second source ON when the electric boiler switches OFF.

Equal phase load of heating boiler operation (boiler operation with or without PID function)

OPTION



DHW package code 100003



Priority DHW On/Off



+ servo motor storage tank





Weekly DHW programme



Weekly circulation pump programme



Module + web app code 100004

Controls all boiler functions:

- monitoring all temperatures
- · possibility to change remote temperatures
- view temperature graphs

3 variants to choose from



Room and weather radio control



room and weather radio controle



radio control - room only code 100010



radio control - weather only code 100011

Advanced **LCD** automation → Colonel

In boiler price included



control included



expansion vessel



pump



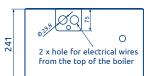


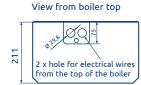




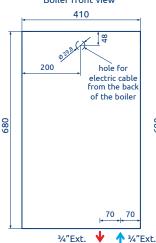
power from 15 to 24 kW power from 4 to 12 kW

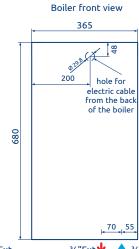
View from boiler top







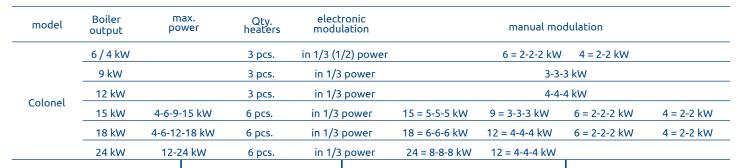








6 / 4 kW	9 kW	12 kW	15 kW	18 kW	24 kW	Equipment
127006	127009	127012	127015	127018	127024	+ 🖬 + 👰 + 🗖 +
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Max. power regulation

Possibility to reduce the maximum boiler output on the control panel



Algorithm PID

Electronic optimisation of heater operation and boiler output independent of the set maximum output.



Max power lock

Adaptation of the boiler power to the PV installation power particularly useful in summer when the maximum boiler output is greater than the PV installation output (on the control panel)







Selecting the boiler power according to the building area

		Boiler power selection table	250m²	300m²	400m²	500m²	600m²	700m²	800m²	1000m²
A+	Α	Energy efficient building 20-25cm insulation EUco approx. 50kWh/m²/year - approx. 40W/m²	12 kW	15 kW	18 kW	24 kW	24 kw	30 kW	36 kW	42 kW
В	С	Standard building 10-15cm of insulation EUco approx. 90kWh/m²/year - approx. 70W/m²	18 kW	24 kW	30 kW	36 kW	42 kW	54 kW	60 kW	72 kW
D	E	Energy-intensive building 0-5cm of insulation EUco approx.150kWh/m²/year - approx.120W/m²	30 kw	/ 36 kw	48 kw	/ 60 kW	72 kW	84 kw	96 kw 1	26 kW

Selection of protection to boiler power

	4 kW	4 kW	6 kW	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW
Protection selection	1 phase	2 phases	1 phase	3 phases	3 phase				
Fuses (A)	1 x 20	2 x 10	1 x 32	3 x 10	3 x 16	3 x 20	3 x 25	3 x 32	3 x 40
Power cord (mm²)	3 x 4	5 x 2.5	3 x 4	5 x 2.5	5 x 2.5	5 x 4	5 x 4	5 x 6	5 x 10

^{*} The exact cross-section of the power cord is selected by the electrician on the basis of an analysis of the local conditions.

** protection table for boilers above 24 kW (from 30 kW to 1.5 MW) available at www.elterm.pl



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