BEST SELLER

30 YEARS ELTERM®

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 counter

max. power lock

NC contact 0V
Detachable contact

PID

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 CO_2

Weekly programming

21°C

for industry and continuous operation
- electronic SSR relays
- Increased component durability
- disconnector with trigger
- advanced cooling system

for industry and continuous operation

Watch Dog processor monitoring system	**PID** proportional-integral differential regulator	**BM** non-volatile programme memory
SC protection against excessive boiler switching frequency	**OSC** quadruple overheat protection	**PAS** ANTI STOP pump safety system

In boiler price included

PV Ready Operation counter
- heating boiler operation counter
- stop heating
- adjustable energy consumption
- boiler stop signalling

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

PV Ready NC contact 0V
Possibility to operate the boiler with:
- any voltage-free room controller
- automation of another heat source or inverter

PV Ready Disconnectable contact
Disconnects the second heat source when the electric boiler is switched ON. Switches the second source ON when the electric boiler switches OFF.

PV Ready PID on/off
Equal phase load of heating boiler operation (boiler operation with or without PID function)

OPTION

DHW package code 100003
- DHW priority On/Off
- Threeway solenoid valve + servo motor
- DHW temp. sensor for 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
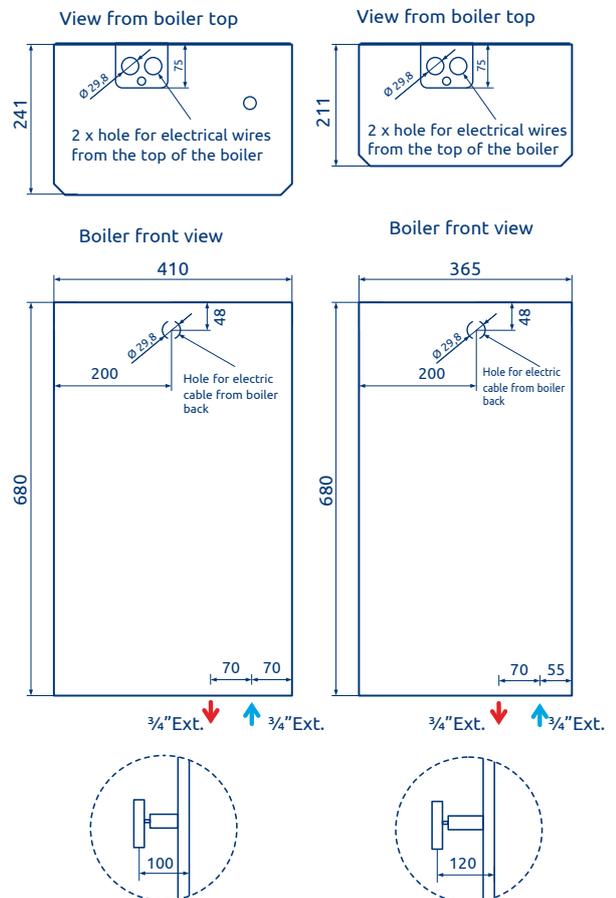- view temperature graphs

Room and weather radio control
3 variants to choose from
- room and weather radio control code 100009
- radio control - room only code 100010
- radio control - weather only code 100011

Packet to buffer code 100013
- 2 x sensor to buffer
- Weekly buffer prog.

Advanced LCD automation
Commander

wire control included

expansion vessel

pump

air vent
manometer
safety valve

90°C

power from 15 to 24 kW

View from boiler top

Ø29.8
75
241
2 x hole for electrical wires from the top of the boiler

Boiler front view

410
Ø29.8
48
200
Hole for electric cable from boiler back
680
70 70

¾"Ext. ⬇ ⬆ ¾"Ext.

100

power from 4 to 12 kW

View from boiler top

Ø29.8
75
211
2 x hole for electrical wires from the top of the boiler

Boiler front view

365
Ø29.8
48
200
Hole for electric cable from boiler back
680
70 55

¾"Ext. ⬇ ⬆ ¾"Ext.

120

max. power	6 / 4 kW	9 kW	12 kW	15 kW	18 kW	24 kW	equipment
Commander - code	**137006**	**137009**	**137012**	**137015**	**137018**	**137024**	

factory electronic functions

model	boiler power	max power	Qty. heaters	electronic modulation	manual modulation			
Commander	6 / 4 kW		3 pcs.	in 1/3 (1/2) power	6 = 2-2-2 kW	4 = 2-2 kW		
	9 kW		3 pcs.	in 1/3 power	3-3-3 kW			
	12 kW		3 pcs.	in 1/3 power	4-4-4 kW			
	15 kW	4-6-9-15 kW	6 pcs.	in 1/3 power	15 = 5-5-5 kW	9 = 3-3-3 kW	6 = 2-2-2 kW	4 = 2-2 kW
	18 kW	4-6-12-18 kW	6 pcs.	in 1/3 power	18 = 6-6-6 kW	12 = 4-4-4 kW	6 = 2-2-2 kW	4 = 2-2 kW
	24 kW	12-24 kW	6 pcs.	in 1/3 power	24 = 8-8-8 kW	12 = 4-4-4 kW		

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
Adjustment of the boiler output to the PV installation output. Particularly useful in summer when the maximum boiler output is higher than the PV installation output (on the control panel).

MAX POWER
4 6 9 15
OK
Commander 15 kW

MAX POWER
4 6 12 18
OK
Commander 18 kW

MAX POWER
12 24
OK
Commander 24 kW

Selecting the boiler output for the building area

Boiler output selection table		50m²	75m²	100m²	125m²	150m²	200m²	250m²	300m²
A+ A	Energy efficient building 20-25cm insulation EUco approx. 50kWh/m²/year approx. 40W/m²	4 kW	4 kW	6 kW	6 kW	9 kW	9 kW	12 kW	15 kW
B C	Standard building 10-15cm insulation EUco approx. 90kWh/m²/year approx. 70W/m²	4 kW	6 kW	9 kW	9 kW	12 kW	15 kW	18 kW	24 kW
D E	Energy-intensive building 0-5cm insulation EUco approx. 150kWh/m²/year approx. 120W/m²	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW	30 kW	36 kW

Selection of protection to boiler power

Protection selection	4 kW	4 kW	6 kW	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW
	1 phase	2 phases	1 phase	3 phases	3 phases	3 phases	3 phases	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 24kW (from 30kW to 1.5MW) available at www.elterm.pl

	Control automation	DHW external tank	Instantaneous water heater	Built-in storage tank 100L	Webb application	Air vent	manometer	pump x1	pump x2	Safety valve	Expansion vessel	Room control	Weather compensation	Radio control of the boiler	max. operation temp. 70°C	max. operation temp. 90°C
		OPTION			OPTION									OPTION	70°C	90°C

Electric heating boilers - Advanced **LED** automation

Commander	●	●	○	○	●	●	●	●	○	●	●	●	●	●	○	●