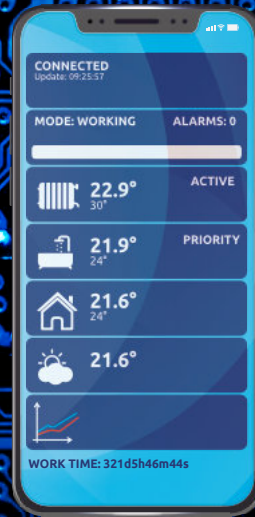




since 1992



## 4 x PV Ready



**PV Ready**  
Build-in kWh  
countdown meter



**PV Ready**  
NO/NC contact 0V



**PV Ready**  
separable contact



**PV Ready**  
maximum  
power lock

# Bestseller

electric heating boiler Colonel



PV ready



The only electric boiler with integrated flow DHW heater  
Ensign & Lieutenant



Electric heating boiler for special tasks  
Uhlan with low loss header function

The widest choice of equipment



# Rifleman PRO

additional system heater



Rifleman  
additional system heater



## STEP 1 Power selection

Boiler power selection table		50m <sup>2</sup>	75m <sup>2</sup>	100m <sup>2</sup>	125m <sup>2</sup>	150m <sup>2</sup>	200m <sup>2</sup>	250m <sup>2</sup>	300m <sup>2</sup>
<b>A+</b>	Energy efficient building Insulation up to 25 cm	4 kW	4 kW	6 kW	6 kW	9 kW	9 kW	12 kW	15 kW
<b>A</b>									
<b>B</b>	Standard building Insulation up to 15 cm	4 kW	6 kW	9 kW	9 kW	12 kW	15 kW	18 kW	24 kW
<b>C</b>									
<b>D</b>	Energy intensive building Insulation up to 5 cm	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW	30 kW	36 kW
<b>E</b>									

## STEP 2 Electrical protections selection

	4 kW		6 kW		9 kW	12 kW	15 kW	18 kW	24 kW
	1phase	3phases	1phase	3phases	3phases	3phases	3phases	3phases	3phases
Safety fuses (A)	1 x 20	3 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 (mm <sup>2</sup> )	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 an electrician based on an analysis of local conditions.  
\*\* Table for 24kW+ boilers available at [www.elterm.pl](http://www.elterm.pl)

## STEP 3 Heating circuits selection

CH only

- Uhlan
- Corporal
- Sergeant
- Major
- Captain
- Colonel

CH + DHW  
- 3 variants to choose from



- Corporal
- Sergeant
- Major
- Captain
- Colonel



- Ensign
- Lieutenant



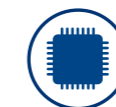
- Marshal

## STEP 4 Automatics selection

Advanced LCD (see page 6)  
Basic LED (see page 7)

## STEP 5 Equipment selection (see page 8)

## STEP 6 Don't overestimate the power - each model has a PID algorithm Boilers 4-6-9 & 12 kW have smaller dimensions



### PID algorithm

Electronic optimization of heaters operation and boiler power, regardless of the maximum set power



### Maximum power lock

Adjusting the boiler power to the PV installation power (on the control panel)

boiler power	maximum power set	electronic modulation	manual modulation
4 kW	-	Every 1/3 of the power	2-2 kW
6 kW	-	Every 1/3 of the power	2-2-2 kW
9 kW	-	Every 1/3 of the power	3-3-3 kW
12 kW	-	Every 1/3 of the power	4-4-4 kW
15 kW	4-6-9-15 kW	Every 1/3 of the power	5-5-5 kW *
18 kW	4-6-12-18 kW	Every 1/3 of the power	6-6-6 kW *
24 kW	12-24 kW	Every 1/3 of the power	8-8-8 kW *

\* applies to maximum boiler power set. For power reduction, e.g. for 9 kW manual modulation = 3-3-3 kW, for 6 kW manual modulation = 2 + 2 + 2 kW, etc.

## STEP 7 Shortcut - Elterm boiler selection configurator



## Advanced LCD automatics

Elterm electric boilers with advanced LCD automatics are not only more convenient to use but also they combine advanced technology with ease of use.

An excellent choice for those who need dual controller of room temperature and weather compensation. In order to obtain maximum thermal comfort it is recommended to use both systems simultaneously. Thanks to the advanced LCD automatics it is possible to achieve it without additional regulators.

Another advantage is the ability to set boiler operating parameters using a mobile phone, it's a modern and very convenient solution. Wherever you are, you always have control over temperature and costs.

Our advanced line of boilers could not be complete without the impressive feature offered as standard i.e. full adaptation to the requirements of photovoltaic installations. Innovative solutions allow you to shorten the payback period of your PV investment.

All this is integrated in one reliable heating boiler.



### PV Ready

build-in kWh countdown meter

- build-in kWh countdown meter
- stop heating
- energy consumption setting
- work stop alarm



### PV Ready

NO/NC contact 0V

- The boiler can work with:
- any voltage-free 0V room controller
  - automatics of another heat source or inverter



### PV Ready

separable contact \*\*

- It disconnects the second heat source when electric boiler turns on. Turns on the second source when the electric boiler will turn off.



### PV Ready

Maximum power lock

- Adjusting the boiler power to the power of the PV installation (function available on the boiler panel).



9 CH programs  
9 DHW programs  
9 circulation programs

- Possibility to set 9 weekly programs for 3 circuits: CH, DHW and circulation. (DHW and circulation programs are activated with the DHW package).



Module + smartphone app

- Controls all boiler functions (option):
- monitoring of all temperatures
  - possibility to change temperatures remotely
  - preview of temperature charts
  - possibility to service device remotely



Room temperature and weather compensation wired control

- Factory equipment of each boiler with LCD automatics



Room temperature and weather compensation wireless control

- 3 variants to choose from (optional)
- room temperature and weather compensation radio control
  - room temperature radio control
  - weather compensation radio control



DHW package Premium \*



DHW priority



3 -way electro valve + actuator



DHW tank temp. sensor



weekly DHW programmer



weekly circulation programmer

## Basic LED automatics

Elterm electric heating boilers with standard LED automatics implement the 2xEco philosophy - where economy and ecology go hand in hand.

A minimalist solution that leaves in the boiler only those elements that are necessary for its reliable operation. This allows to reduce the amount of materials needed for its production and rationally manage raw materials.

Boilers are perfect to connect with photovoltaic cells. Our approach to ecology did not allow any compromises. Compared to more expensive boilers from the advanced line, the standard line boiler does not step down to anything in terms of equipment that supports photovoltaic system.

Boilers for people who care not only about their home.



### PV Ready

build-in kWh countdown meter

- build-in kWh countdown meter
- stop heating
- energy consumption setting
- work stop alarm



### PV Ready

NO/NC contact 0V

- The boiler can work with:
- any voltage-free 0V room controller
  - automatics of another heat source or inverter



### PV Ready

separable contact \*\*

- It disconnects the second heat source when electric boiler turns on. Turns on the second source when the electric boiler will turn off.



### PV Ready

Maximum power lock

- Adjusting the boiler power to the power of the PV installation (function available on the boiler panel).



DHW package Standard \*



DHW priority


















3 -way electro valve + actuator



DHW tank temp. sensor



## Electric boilers – equipment

DWH 	Flow heater 	Built-in 100l tank 	Mobile App 	Air vent 	Manometer 	Pump x1 	Pump x2 	Safety valve 	Expansion vessel 	Room temperature control 	Weather compensation control 	Boiler radio controller 	Max. operation temp. 70°C 	Max. operation temp. 95°C 
--	--	---	---	---	--	--	--	--	---	---	---	--	--	--

### Electric heating boilers- Advanced LCD automatics

Captain	●	○	○	●	●	●	○	●	○	●	●	●	●	○
Colonel	●	○	○	●	●	●	○	●	●	●	●	●	●	○
Lieutenant	○	●	○	●	●	●	○	●	●	●	●	●	●	○
Marshal	○	○	●	●	●	○	●	●	●	●	●	●	●	○

### Electric heating boilers- Basic LED automatics

Corporal	○	○	○	○	●	●	○	○	○	○	○	○	○	○
Sergeant	●	○	○	○	●	●	○	○	○	○	○	○	○	○
Major	●	○	○	○	●	●	○	○	○	○	○	○	○	○

### Electric heating boiler with low loss header function

Uhlan SHE	○	○	○	○	●	○	○	○	○	○	○	○	○	○
-----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---

### Additional system heaters

Rifleman	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Rifleman PRO	○	○	○	○	●	○	○	○	○	○	○	○	○	○

## Electric heating boilers - for industry and continuous operation

### Electric heating boilers- Advanced LCD automatics

Commander	●	○	○	●	●	●	○	●	●	●	●	●	○	●
Division	●	○	○	●	●	●	○	●	○	●	●	●	○	●

### Electric heating boilers- Basic LED automatics

Hussar	●	○	○	○	●	●	○	●	●	○	○	○	○	●
Battalion	●	○	○	○	●	●	○	●	○	○	○	○	○	●

# Elterm electric heating boiler + hydraulic sets + Quartermaster controller

guarantee of reliable operation in central heating mixed systems



Squadron Sets

Brigade Set

Company Set

**NEW**  
hydraulic sets configurator



- Wide offer
- High-tech components
- Easy and quick assembly
- Many years of experience in the production of hydraulic fittings

Email us - we will choose the right set - [biuro@elterm.pl](mailto:biuro@elterm.pl)

## Advanced LCD automatics

Maximum power	4 kW	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW	
Captain - code	126004	126006	126009	126012	126015	126018	126024	
Colonel - code	127004	127006	127009	127012	127015	127018	127024	

- 100003
- 100004
- 100009
- 100010
- 100011

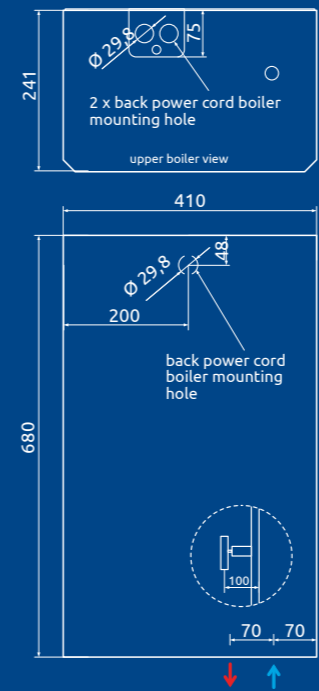
## Basic LED automatics

Maximum power	4 kW	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW	
Corporal - code	122004	122006	122009	122012	122015	122018	122024	
Sergeant - code	123004	123006	123009	123012	123015	123018	123024	
Major - code	124004	124006	124009	124012	124015	124018	124024	

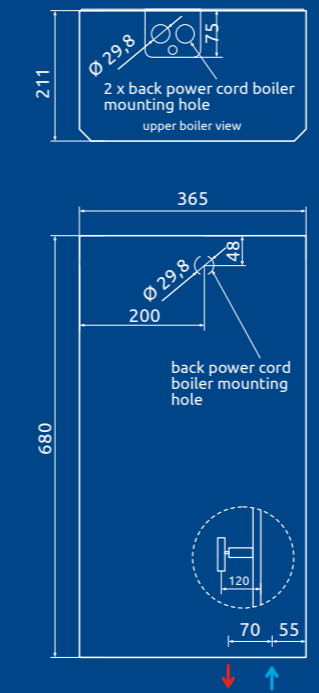
- 100003



Corporal  
Sergeant  
Major  
Captain  
Colonel  
power from 4  
up to 12 kW



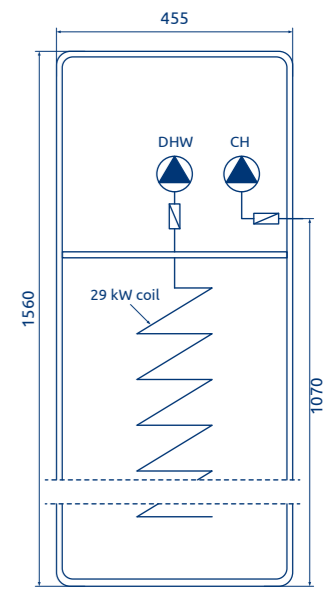
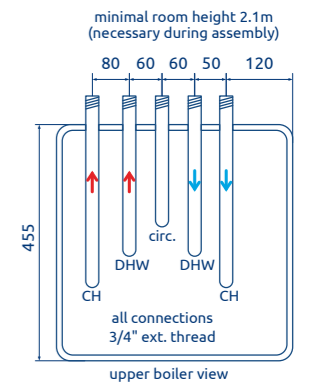
Corporal  
Sergeant  
Major  
Captain  
Colonel  
power from 15  
up to 24 kW



For Polish market only

## Advanced LCD automatics

Electric heating boiler  
Marshal  
built-in 100l tank  
with 29kW coil



## Advanced LCD automatics

Maximum power	15 kW power regulation 4/6/9/15 kW	18 kW power regulation 4/6/12/18 kW	24 kW power regulation 12/24 kW
Marshal - code	129015	129018	129024

- 100004
- 100009
- 100010
- 100011

PV ready

# Electric heating boilers built-in flow water heater

## Advanced LCD automatics Lieutenant

Legal Protection UP RP no W. 12654



## Basic LED automatics Ensign

Legal Protection UP RP no W. 12654



# Flow water heater Admiral built-in in boilers Ensign and Ensign



### Advantages

- digital display- shows
  - actual water temperature
  - set water temperature
  - water consumption
  - power consumption
- electronic heating power control
- modern heating block
- case made from durable ABS material
- brass fitting connectors
- easy installation, simple service
- operation from 30°C up to 60°C every 1°C
- water and energy consumption meter
- patented solution preventing from limescale

### Protection features

- from leaking water and overheating
- built-in safety pressure valve
- heater safety- device will not start working without water

boiler power	4 kW	6 kW	9 kW	12 kW
Flow heater power	12 kW	12 kW	12 kW	12 kW
Lieutenant - code	118304	118306	118309	118312
Ensign - code	115304	115306	115309	115312

boiler power	4 kW	6 kW	9 kW	12 kW
Flow heater power	15 kW	15 kW	15 kW	15 kW
Lieutenant - code	118404	118406	118409	118412
Ensign - code	115404	115406	115409	115412

boiler power	4 kW	6 kW	9 kW	12 kW
Flow heater power	18 kW	18 kW	18 kW	18 kW
Lieutenant - code	118504	118506	118509	118512
Ensign - code	115504	115506	115509	115512

boiler power	4 kW	6 kW	9 kW	12 kW
Flow heater power	21 kW	21 kW	21 kW	21 kW
Lieutenant - code	118604	118606	118609	118612
Ensign - code	115604	115606	115609	115612

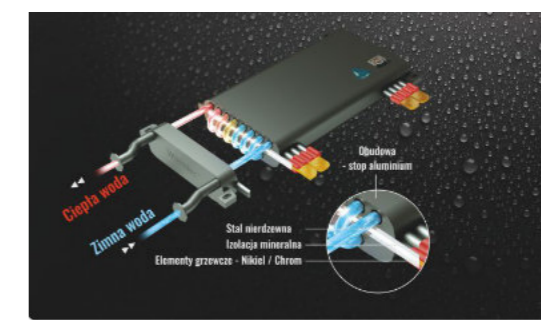
LCD - option

100004

100009

100010

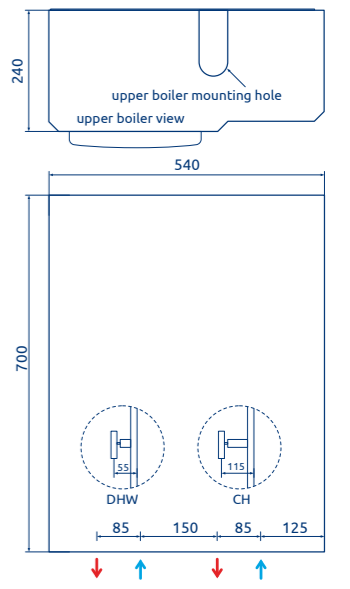
100011



Modern heating block

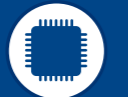
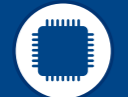
Admiral				
flow heater power	12 kW	15 kW	18 kW	21 kW
Safety fuses (A)	3 x 20	3 x 25	3 x 32	3 x 40
Power cord (mm <sup>2</sup> )	5 x 4,0	5 x 4,0	5 x 6,0	5 x 6,0

Ensign, Lieutenant CH from 4 up to 12 kW  
DHW from 12 up to 21 kW





# Electric heating boiler Uhlan with low loss header function



Electronic temperature set

pump automatics control

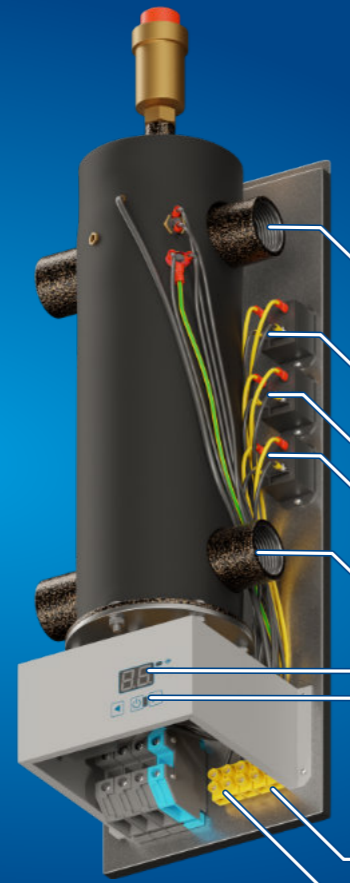
heaters automatics control

NO/NC contact 0V

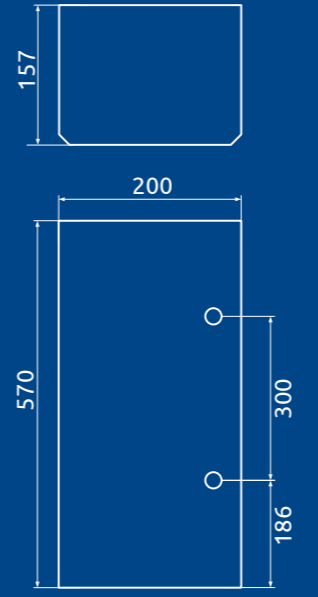
maximum power lock

universal connection

Air vent



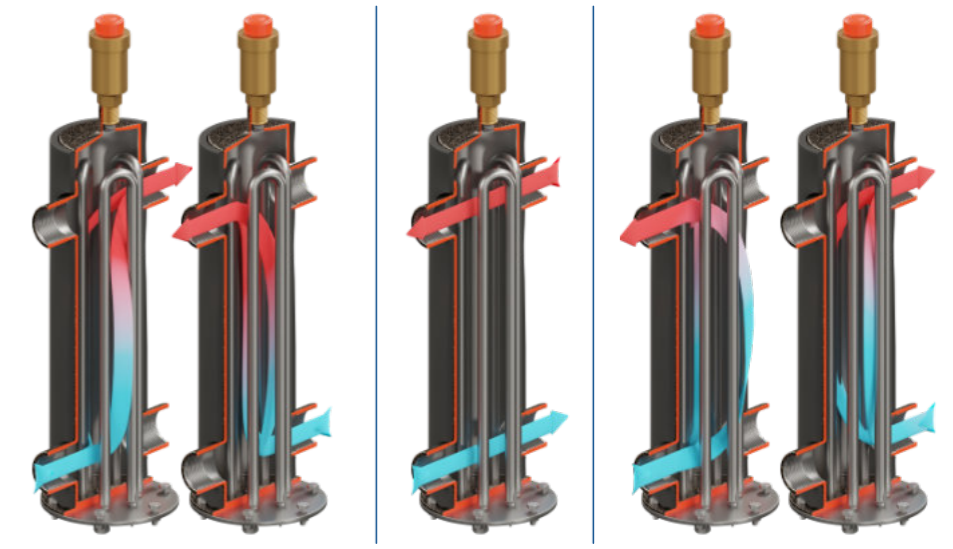
- 2 1-2-3-4 Connection 5/4" int.
- Power relay
- 4
- Digital display
- Electronic CH temp. setting from 5°C to 70°C
- External CH pump control automatics Pump overrun setting
- NO/NC contact 0V Can cooperate with:
  - by the Elterm Quartermaster controller
  - automatics of another heat source



- Only one on the market**
- Smallest dimensions on market
  - Perfect as an alternative heating source in PV systems
  - Can work in open central heating system
  - Dedicated to work with heat pumps
  - SHE-OC 70 kW Elterm low loss header function
  - Compatible with connecting manifolds 2D+ & 3D+ from Elterm
  - Equipped with intuitive controll

- Automatics controlling an external CH pump**
- Possibility to connect an external central heating pump, e.g.:
- in the case of operation as a temporary boiler,
  - in the event of failure of the main heat source.
- Pump overrun adjustment.

## Universal connection - 5 variants



Electronic optimization of heating coils and boiler power, regardless of the maximum power set

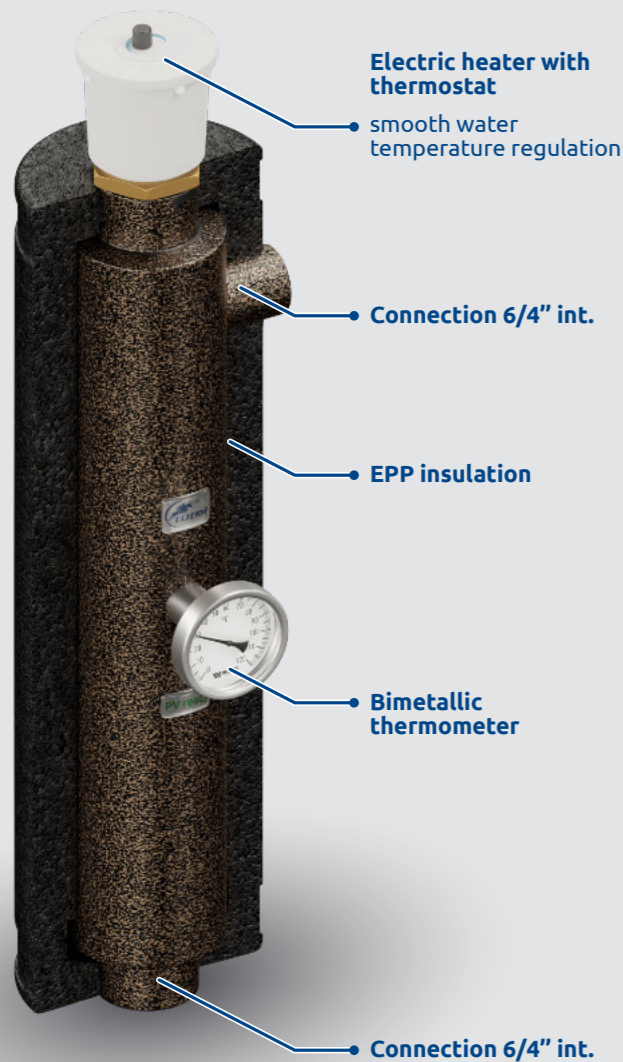


Adjusting the boiler power to the power of the PV installation (on the control panel)

boiler power	power supply 230/400 V	electronic modulation	manual modulation	code
4 kW	230 V	Every 1/3 of the power	2-4 kW	170004
4 kW	400 V	Every 1/3 of the power	2-4 kW	170004
6 kW	230 V	Every 1/3 of the power	2-4-6 kW	170006
6 kW	400 V	Every 1/3 of the power	2-4-6 kW	170006
9 kW	400 V	Every 1/3 of the power	3-6-9 kW	170009
12 kW	400 V	Every 1/3 of the power	4-8-12 kW	170012

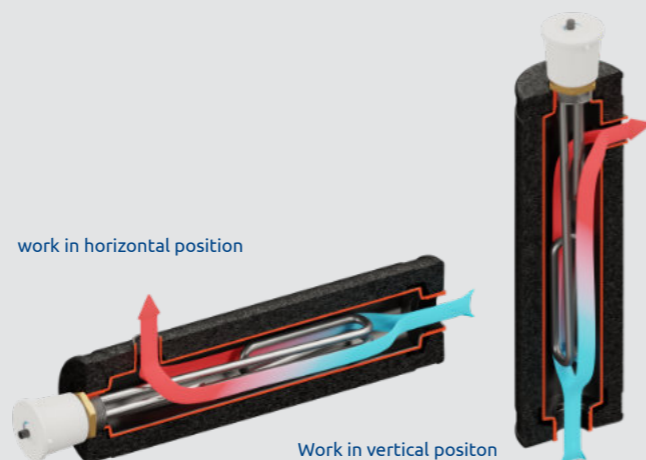


# System additional heater Rifleman



## The only one in market

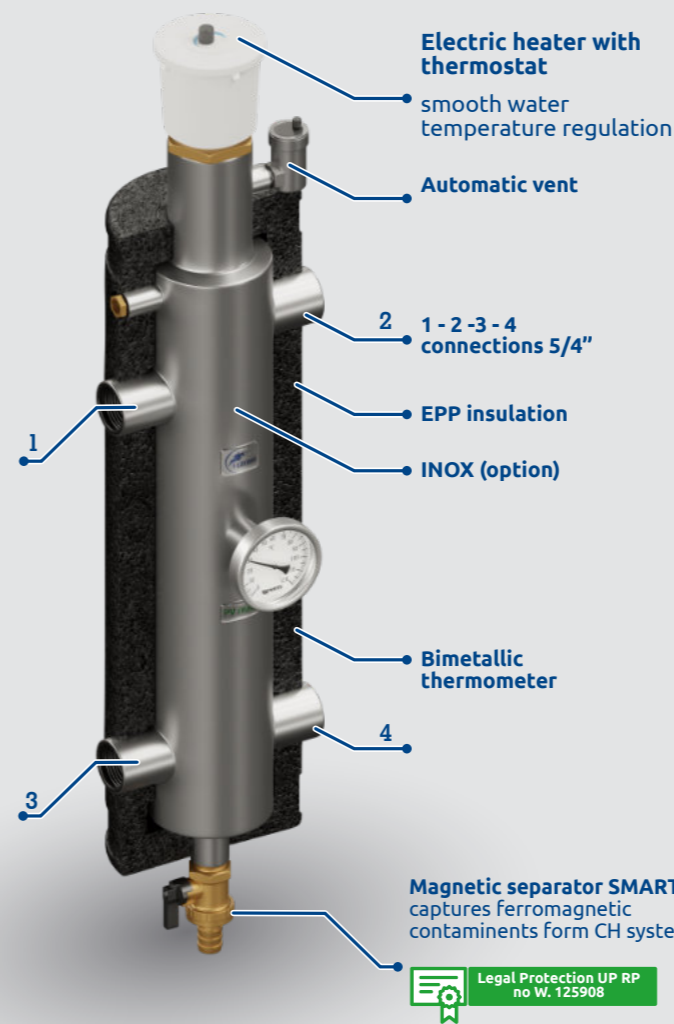
- Perfect as an alternative heating source in PV systems
- Built-in heater with thermostat
- Anti-freeze system
- Smooth CH water temperature regulation
- Resistor emergency stop switch



Rifleman / 400V		Rifleman / 230V	
3 kW / 400 V	Rifleman 400/3	2 kW / 230 V	Rifleman 230/2
code	214003	code	212302
4,5 kW / 400 V	Rifleman 400/4	3 kW / 230 V	Rifleman 230/3
code	214004	code	212303
6 kW / 400 V	Rifleman 400/6		
code	214006		

- PV ready
- Bimetallic thermometer
- Very low investment cost
- Works in vertical and horizontal positions
- Wide choice of products
- For air bleed heating system
- For saled heating system

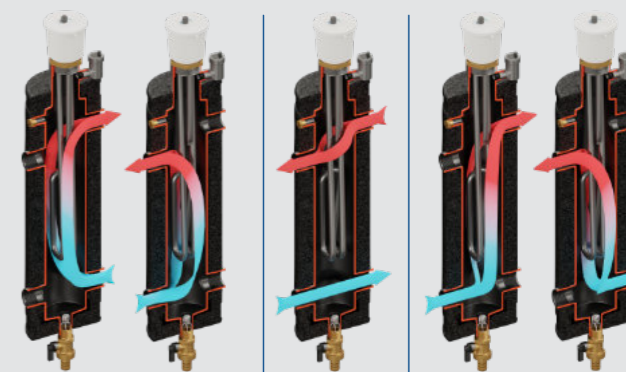
# System additional heater Rifleman PRO



## The only one in market

- Perfect as an alternative heating source in PV systems
- Built-in heater with thermostat
- Compatible with Elterm connecting manifolds 2D+ and 3D+
- Anti-freeze system
- Smooth CH water temperature regulation
- Resistor emergency stop switch

### Universal connection – 5 possibilities



Rifleman PRO / 400V		Rifleman PRO / 230V	
3 kW / 400 V	Rifleman PRO 400/3	2 kW / 230 V	Rifleman PRO 230/2
code	224003	code	222302
4,5 kW / 400 V	Rifleman PRO 400/4	3 kW / 230 V	Rifleman PRO 230/3
code	224004	code	222303
6 kW / 400 V	Rifleman PRO 400/6		
code	224006		

- PV ready
- Bimetallic thermometer
- Wide choice of products
- For air bleed heating system
- For saled heating system
- Universal connection
- SMART
- Automatic vent



# Boilers for industry and continuous operation



## Advanced LCD automatics Commander

Maximum power	4 kW	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW
Commander - code	137004	137006	137009	137012	137015	137018	137024

- 100003
- 100004
- 100009
- 100010
- 100011

- Electronic SSR relays
- increased durability of components
- switch disconnecter with trigger
- advanced cooling system

## Basic LED automatics Hussar

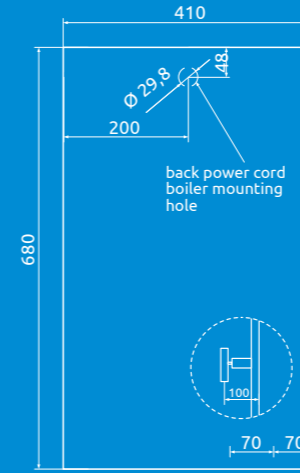
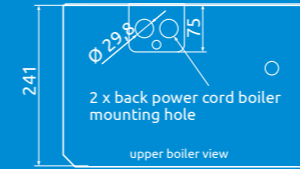
Maximum power	4 kW	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW
Hussar - code	134004	134006	134009	134012	134015	134018	134024



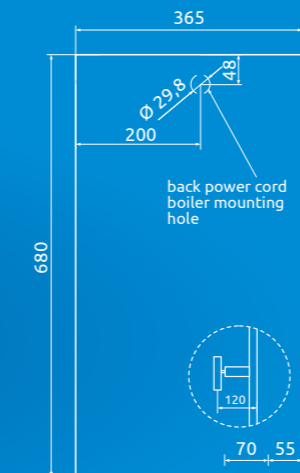
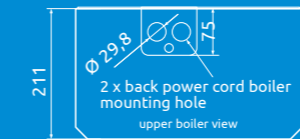
100003



Commander Hussar  
power from 4 up to 12 kW



Commander Hussar  
power from 15 up to 24 kW



Electric heating boilers  
from 30 kW up to 1,5 MW  
for industry and continuous operation



## Advanced LCD automatics Division

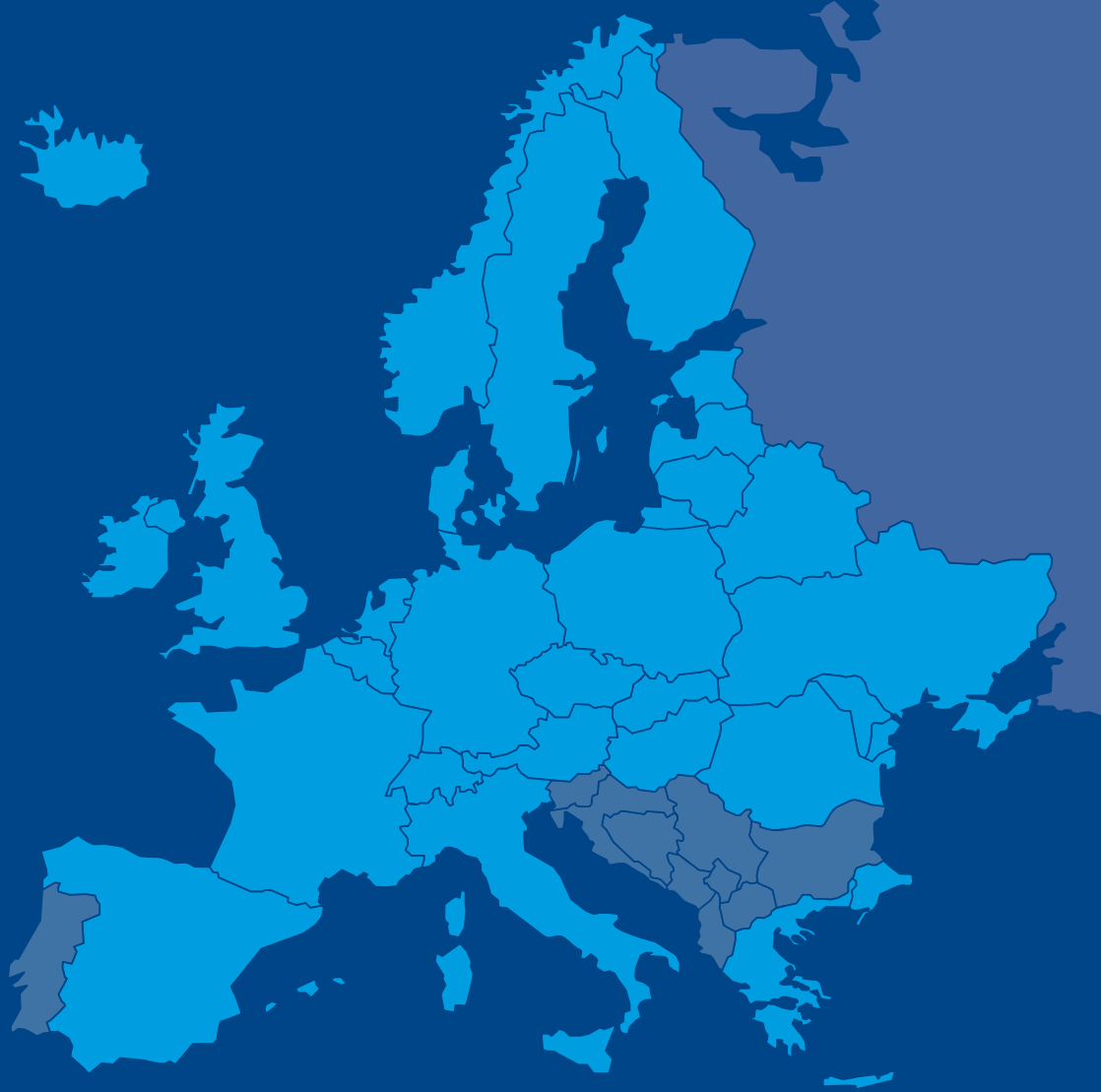


2 units up to 96kW | 3 units up to 144kW

Higher powers on request, up to 31 boilers – RS485 communication

## Basic LED automatics Battalion

More information at [biuro@elterm.pl](mailto:biuro@elterm.pl)



Some of investments using our electric boilers

