



Electric heating boilers and In-line heaters

version 2023.04

The widest range of electric central heating boilers and in-line heaters.

Only here



Only here



Only here



**NEW**

Autumn 2023  
MODBUS  
communication protocol



**NEW**

Summer 2023  
Buffer control



## Standard features



## Additional Elterm features



Function available on android and iOS



9 DHW programme 9 circulation pump programme



**PV Ready**  
**Maximum power reduction**  
 Adaptation of the boiler power to the actual needs (refers to power 15 and 18kW)



**PV Ready**  
 boiler operating counter



**PV Ready**  
 PID on/off  
**100% auto consumption**  
 equal phase loading

Polish technical thought

### Example:

- single-family house 200m<sup>2</sup>
- PV installation 8kWp
- insulation 10-15 cm
- EUco 90 kWh/m<sup>2</sup>/year
- About 70 W/m<sup>2</sup>
- Hydraulic connections – scheme simplified



Available on android and iOS

## SUMMER - only DHW

DHW installation

### 1. Weekly DHW programming

9 available programmes

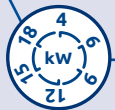


### 2. Weekly programming circulation pump

9 available programmes

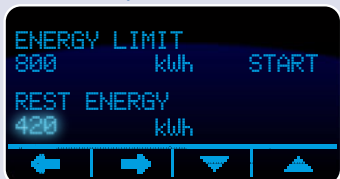


Squeeze as much as you can out of photovoltaics with Colonel boiler 15kW (4/6/9 & 15 kW)



### Boiler functions used in the winter

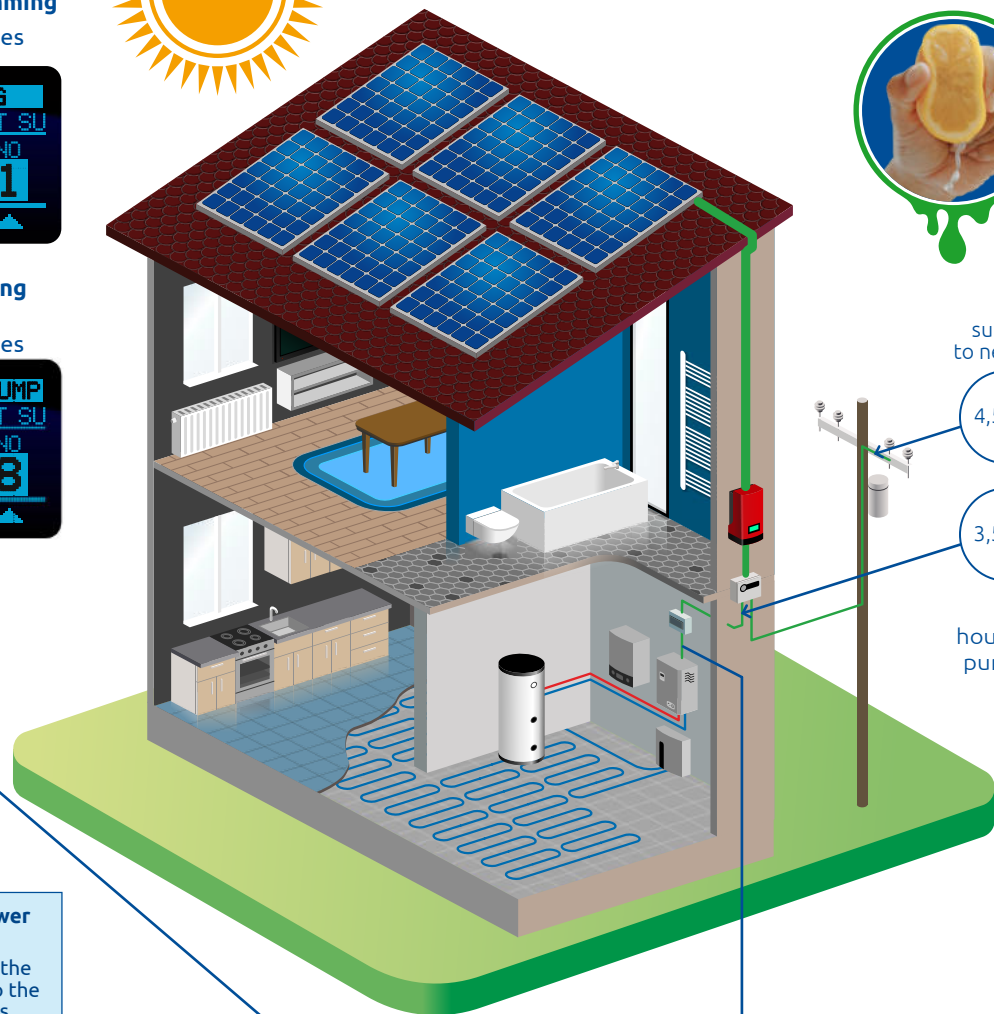
Boiler operation counter



Power Maximum



**PV Ready** Maximum power reduction  
 adaptation of the boiler power to the actual needs



surplus to network

4,5 kW

3,5 kW

for household purposes

**PV Ready** 100% auto consumption  
 equal phase loading

on/off



Energy efficient building 20-25cm insulation  
EUco approx. 50kWh/m<sup>2</sup>/year  
approx. 40W/m<sup>2</sup>

**A+**  
**A**

Standard building 10-15cm of insulation  
EUco approx. 90kWh/m<sup>2</sup>/year  
approx. 70W/m<sup>2</sup>

**B**  
**C**

Energy-intensive building 0-5cm insulation  
EUco approx. 150kWh/m<sup>2</sup>/year  
approx. 120W/m<sup>2</sup>

**D**  
**E**

Protection Select	Boiler model	code	Fuses (A)	A+	B	D	
				A	C	E	
4 kW	1 Fuse	6 / 4 kW	127006	1 x 20	to 75 m <sup>2</sup>	to 50 m <sup>2</sup>	-
4 kW	2 Fuses	6 / 4 kW	127006	2 x 10	to 75 m <sup>2</sup>	to 50 m <sup>2</sup>	-
6 kW	1 Fuse	6 / 4 kW	127006	1 x 32	to 125 m <sup>2</sup>	to 75 m <sup>2</sup>	to 50 m <sup>2</sup>
6 kW	3 Fuses	6 / 4 kW	127006	3 x 10	to 125 m <sup>2</sup>	to 75 m <sup>2</sup>	to 50 m <sup>2</sup>
9 kW	3 Fuses	9 kW	127009	3 x 16	to 200 m <sup>2</sup>	to 125 m <sup>2</sup>	to 75 m <sup>2</sup>
12 kW	3 Fuses	12 kW	127012	3 x 20	to 250 m <sup>2</sup>	to 150 m <sup>2</sup>	to 100 m <sup>2</sup>
15 kW	3 Fuses	15 kW	127015	3 x 25	to 300 m <sup>2</sup>	to 200 m <sup>2</sup>	to 125 m <sup>2</sup>
18 kW	3 Fuses	18 kW	127018	3 x 32	to 400 m <sup>2</sup>	to 250 m <sup>2</sup>	to 150 m <sup>2</sup>
24 kW	3 Fuses	24 kW	127024	3 x 40	to 600 m <sup>2</sup>	to 300 m <sup>2</sup>	to 200 m <sup>2</sup>

## HEATING SEASON

DHW installation

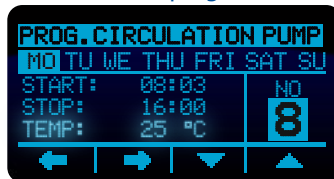
### 1. Weekly DHW programming

9 available programmes



### 2. Weekly programming circulation pump

9 available programmes



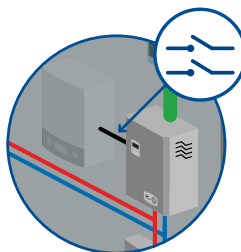
CH installation

Boiler power select to max.

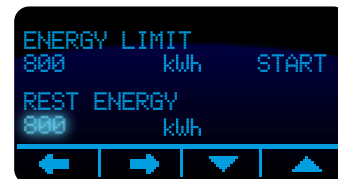


Boiler operation counter Limit - example

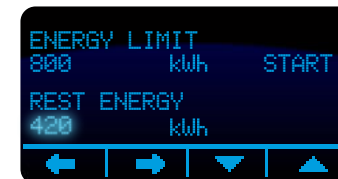
PV Ready detachable contact



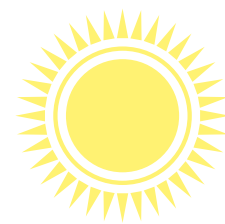
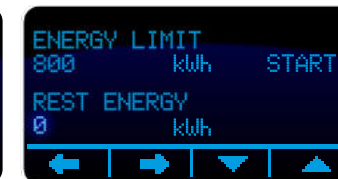
set the limit (kWh) to be used by the Colonel boiler



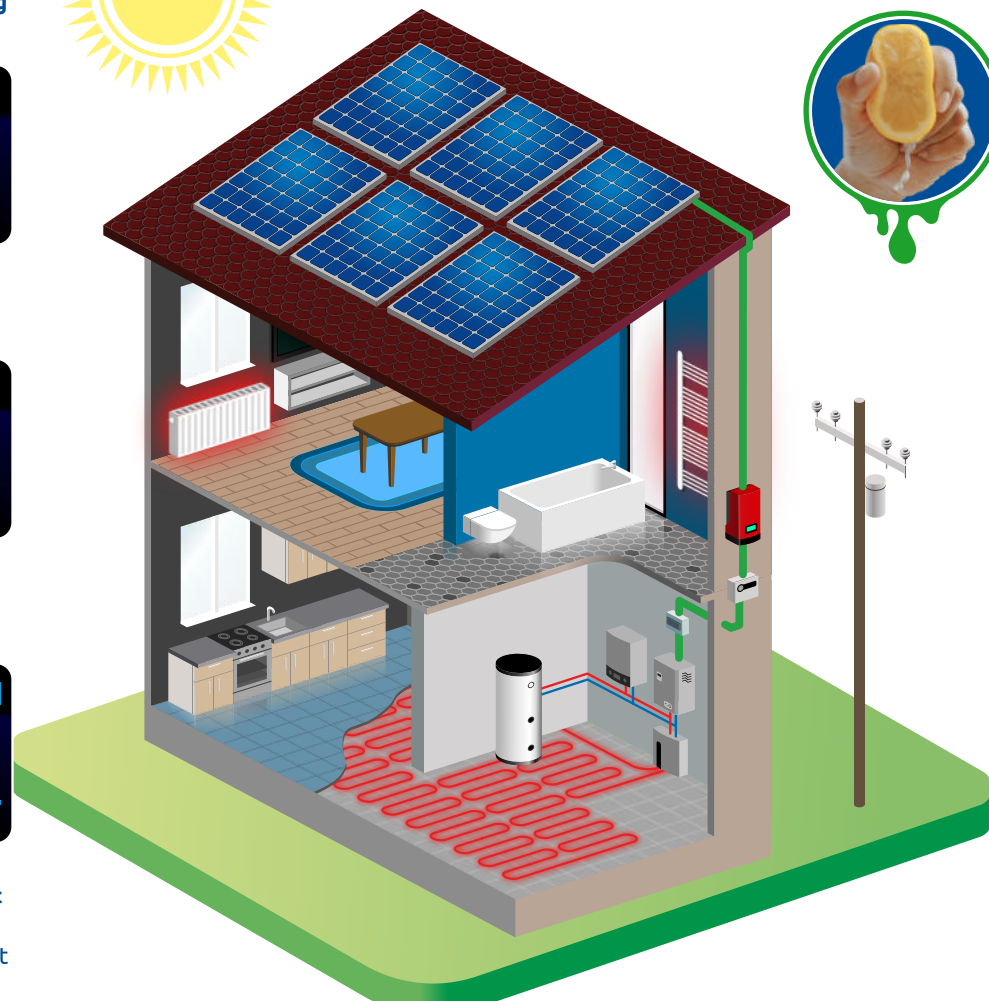
Colonel boiler operate gas boiler not working



The limit has been used up - the gas boiler is switched ON



Squeeze as much as you can out of photovoltaics with Colonel boiler 15kW (4/6/9 & 15 kW)



## Why Elterm boilers?



1. Very low investment cost
2. Ideal as a peak heat source
3. Simple to install, no connection to chimney
4. Ideal for use with PV installations - Boiler operating counter
5. Ideal as a temporary heat source, e.g.: awaiting for assembly main heat source
6. Ideal for warming small production halls
7. Ideal for modernised townhouses and multifamily buildings. No need to connect to chimney
  - a. Assembly of small boiler power for each flat separately
  - b. Assembly of one big unit for the entire building

## Advanced **LCD** automation

In boiler price included: Room and Weather control

Colonel up to 24kW  
Captain up to 24kW



Lieutenant CH up to 12 kW  
DHW up to 21 kW



## Basic **LED** automation

Major up to 24 kW  
Sergeant up to 24 kW  
Corporal up to 24 kW



Ensign CH up to 12 kW  
DHW up to 21 kW



1. Very low investment cost
2. High work performance
3. Ideal for use with fan heaters
4. Ideal for warming small and large production halls
5. Possibility to combine up to 31 boilers in a cascade
6. Ideal as a peak heat source with monobloc heat pumps
  - a) for high performance heat pumps
  - b) for heat pumps cascade

## Advanced **LCD** automation

In boiler price included: Room and Weather control

Commander up to 24 kW



Division up to 1,5 MW (cascade)



## Basic **LED** automation

Hussar up to 24 kW



Division up to 48 kW





## CH + DHW Choice of 2 DHW preparation options

External DHW tank + DHW set



Built-in flow through preheater



- Automation Control
- DHW external tank  
OPTION
- Flow-through preheater
- Buffer control  
OPTION
- Webb application  
OPTION
- Air vent
- Manometer
- Pump
- Safety valve
- Expansion vessel
- Room control
- Weather compensation
- Radio boiler control  
OPTION
- Max. work temp. 70°C
- Max. work temp. 90°C

Electric heating boilers Advanced LCD automation														
Captain	●	●	○	●	●	●	●	●	●	●	○	●	●	○
Colonel	●	●	○	●	●	●	●	●	●	●	●	●	●	○
Lieutenant	●	○	●	●	●	●	●	●	●	●	●	●	●	○
Commander	●	●	○	●	●	●	●	●	●	●	●	●	○	●
Division	●	●	○	●	●	●	●	●	●	○	●	●	○	●
Electric heating boilers Basic LED automation														
Corporal	●	●	○	○	○	●	●	○	●	○	○	○	○	○
Sergeant	●	●	○	○	○	●	●	●	●	○	○	○	○	○
Major	●	●	○	○	○	●	●	●	●	●	○	○	○	○
Ensign	●	○	●	○	○	●	●	●	●	●	○	○	○	○
Hussar	●	●	○	○	○	●	●	●	●	●	○	○	○	○
Battalion	●	●	○	○	○	●	●	●	●	○	○	○	○	○

Table of boiler output selection		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>	250m <sup>2</sup>	300m <sup>2</sup>	400m <sup>2</sup>	500m <sup>2</sup>	600m <sup>2</sup>	700m <sup>2</sup>	800m <sup>2</sup>	1000m <sup>2</sup>		
<b>A+</b>	<b>A</b>	Energy efficient building 20-25cm insulation EUco approx. 50kWh/m <sup>2</sup> /year, approx. 40W/m <sup>2</sup>		4 kW	4 kW	6 kW	6 kW	9 kW	9 kW	12 kW	15 kW	12 kW	15 kW	18 kW	24 kW	24 kW	30 kW	36 kW	42 kW
<b>B</b>	<b>C</b>	Standard building 10-15cm of insulation EUco approx. 90kWh/m <sup>2</sup> /year, approx. 70W/m <sup>2</sup>		4 kW	6 kW	9 kW	9 kW	12 kW	15 kW	18 kW	24 kW	18 kW	24 kW	30 kW	36 kW	42 kW	54 kW	60 kW	72 kW
<b>D</b>	<b>E</b>	Energy-intensive building 0-5cm insulation EUco approx. 150kWh/m <sup>2</sup> /year, approx. 120W/m <sup>2</sup>		6 kW	9 kW	12 kW	15 kW	18 kW	24 kW	30 kW	36 kW	30 kW	36 kW	48 kW	60 kW	72 kW	84 kW	96 kW	126 kW

Protection Select	4 kW	4 kW	6 kW	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW	36 kW	42 kW	48 kW	54 kW	60 kW	66 kW	72 kW	96 kW	144 kW
		1 Fuse	2 Fuses	1 Fuse	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses	3 Fuses
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	3 x 63	3 x 80	3 x 80	3 x 100	3 x 100	3 x 125	3 x 125	3 x 160	3 x 240
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	5 x 16	5 x 25	5 x 25	5 x 35	5 x 50	5 x 50	5 x 50	5 x 70	5 x 120

\* The exact cross-section of the supply cable 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 on [www.elterm.pl](http://www.elterm.pl)



## Advanced **LCD** automation

Max. Power	4/6 kW	9 kW	12 kW	15 kW*	18 kW*	24 kW*	
Captain - code	126006	126009	126012	126015	126018	126024	
Colonel - code	127006	127009	127012	127015	127018	127024	

In boiler price included: Control by cable

- Room
- Weather

**NEW**

- Buffer set code 100013
- 2 x buffer sensor
- Weekly buffer programme

- Module + web application code 100004

Controls every function of the boiler:

- Supervision all temperature
- possibility to change remote temperatures
- preview of temperature graphs

**OPTION**

- DHW set code 100003
- Priority On/Off DHW

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In price included

- Three-way solenoid valve + servo
- Temp. sensor to DHW tank

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- Weekly programme DHW
- Weekly programme circulation pump

Radio control 3 variants of choice

- Radio compensation Room and Weather code 100009
- Radio compensation Room only code 100010
- Radio compensation Weather only code 100011



## Basic **LED** automation

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

Max. output regulation

**OPTION**

- DHW set code 100003
- Priority On/Off DHW

---

In price included

- Three-way solenoid valve + servo
- Temp. sensor to DHW tank

electrical boiler selection configurator

- Mobile
- 
- on [www.elterm.pl](http://www.elterm.pl)



## Advanced **LCD** automation Lieutenant



In boiler price:  
cable control

- Room
- Weather

### OPTION

Module + web application  
code 100004

Controls every function of the boiler:

- Supervision all temperature
- possibility to change remote temperatures
- preview of temperature graphs

Radio control  
3 variants of choice

- Radio set Room and Weather      code 100009
- Radio set Room only      code 100010
- Radio compensation Weather only      code 100011

## Basic **LED** automation Ensign



Boiler output	6 kW	9 kW	12 kW	6 kW	9 kW	12 kW
<b>Power of instantaneous water heater</b>	<b>12 kW</b>	<b>12 kW</b>	<b>12 kW</b>	<b>15 kW</b>	<b>15 kW</b>	<b>15 kW</b>
Lieutenant - code	118306	118309	118312	118406	118409	118412
Ensign - code	115306	115309	115312	115406	115409	115412

Boiler output	6 kW	9 kW	12 kW	6 kW	9 kW	12 kW
<b>Power of instantaneous water heater</b>	<b>18 kW</b>	<b>18 kW</b>	<b>18 kW</b>	<b>21 kW</b>	<b>21 kW</b>	<b>21 kW</b>
Lieutenant - code	118506	118509	118512	118606	118609	118612
Ensign - code	115506	115509	115512	115606	115609	115612

## Admiral instantaneous water heater integrated in the boiler Lieutenant and Ensign



### Advantages:

- Digital display shows
  - current temperature
  - set temperature
  - consumed water
  - power consumption
- Electronical control of heating power
- Modern heating block
- Water regulation from 30°C to 60°C
- Power and water consumption counter
- Patented anti-scalding solution

### Protection

- against water leakage
- Integrated safety pressure valve
- Heater protection in case of lack of water

90°C



## Advanced **LCD** automation

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

In boiler price: cable control

- Room
- Weather

- Commander**
- SRR Electronic relays
  - Increase components lifetime
  - Disconnecter with tripping
  - Advanced cooling system

**NEW**

- Buffer set code 100013
- 2 x buffer sensor
- Weekly buffer programme

- Module + web application code 100004

Controls every function of the boiler:

- Supervision all temperature
- possibility to change remote temperatures
- preview of temperature graphs

Radio control 3 variants of choice

- Radio compensation Room and Weather code 100009
- Radio compensation Room only code 100010
- Radio compensation Weather only code 100011

**OPTION**

- DHW set code 100003
- Priority On/Off DHW

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In price included

- Three-way solenoid valve + servo
- Temp. sensor to DHW tank
- Weekly programme DHW
- Weekly programme circulation pump

90°C



## Basic **LED** automation

Max. power	4/6 kW	9 kW	12 kW	15 kW*	18 kW*	24 kW*
Hussar - code	134006	134009	134012	124015	134018	134024

\* Maximum power regulation

- Hussar**
- SRR Electronic relays
  - Increase components lifetime
  - disconnecter with tripping
  - Advanced cooling system

**OPTION**

- DHW set code 100003
- Priority On/Off DHW

---

In price included

- Three-way solenoid valve + servo
- Temp. sensor to DHW tank

## Advanced **LCD** automation Division

Maximum power	30 kW	36 kW	42 kW	48 kW	54 kW	60 kW	66 kW	72 kW	96 kW	144 kW
Division - code	120030	120036	120042	120048	120054	120060	120066	120072	120096	120144

In boiler price: cable control

Division

- Room
- Weather

- SRR Electronic relays
- Increase components lifetime
- disconnector with tripping
- Advanced cooling system



**NEW**

- Buffer set code 100013
- 2 x buffer sensor
- Weekly buffer programme

- Module + web application code 100004
- Controls every function of the boiler:
  - Supervision all temperature
  - possibility to change remote temperatures
  - preview of temperature graphs

Radio control 3 variants of choice

- Radio compensation Room and Weather code 100009
- Radio compensation Room only code 100010
- Radio compensation Weather only code 100011

## Basic **LED** automation Battalion

Maximum power	30 kW	36 kW	42 kW	48 kW
Battalion - code	116030	116036	116042	116048

Battalion

- SRR Electronic relays
- Increase components lifetime
- disconnector with tripping
- Advanced cooling system



**OPTION**

- DHW package code 100003
- Priority On/Off DHW

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In price included

- Three-way solenoid valve + servo
- Temp. sensor to DHW tank

**NEW** summer 2023

First advanced in-line heater in Poland



## Additional Elterm features



## Advanced LCD automation



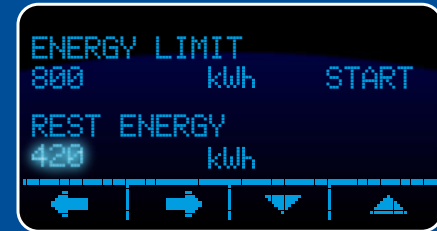
Function available on android and iOS



9 DHW programme 9 circulation pump programme



**PV Ready**  
Maximum power reduction  
Adaptation of the boiler power to the actual needs  
(refers to power 15 and 18kW)



**PV Ready**  
boiler operating counter



**PV Ready**  
PID on/off  
100% auto consumption equal phase loading

Polish technical thought





## Standard features



## Additional Elterm features



### Function of Boatswain automation control

- Controls CH pump
- PV Ready**  
0V normally open contact
- 230 V Control Output 230V
- PV Ready**  
Break contact
- PV Ready**  
In-line heater operation counter
- PV Ready**  
Maximum power lock
- PV Ready**  
PID on/off
- DHW set (OPTION)
- Boatswain LED + solid fluid boiler
- Boatswain LED + fireplace with water mantle



Polish technical idea



## Basic in-line heaters of CH systems

Rifleman



Rifleman PRO



Low loss header function

## Advanced in-line heaters of CH system

Boatswain LED



Boatswain LED PRO



Low loss header function

Uhlan LED / Uhlan LCD



**NEW**

Summer 2023



In price LCD Uhlan

### PV installation



Uhlan 6-12 kW  
Boatswain 3-8  
Rifleman 2-6 kW

### Equal phase loading

Max. power	Heating set
3 kW	1 + 1 + 1 kW
6 kW	2 + 2 + 2 kW
8 kW	2,7 + 2,7 + 2,7 kW
9 kW	3 + 3 + 3 kW
12 kW	4 + 4 + 4 kW

	Maximum Power	Automation control	External D.H.W. tank	Air vent	Contactor required	Pump control	Low loss header function	Room control	Weather compensation	webb application	Radio boiler control	Ideal for use with					
Uhlan LCD	to 12 kW	●	●	○	○	●	○	●	●	●	●	●	●	●	●	●	●
Uhlan LED	to 12 kW	●	●	○	○	●	○	○	○	○	○	●	●	●	●	●	●
Boatswain LED PRO	to 8 kW	●	●	●	○	●	●	○	○	○	○	●	●	●	●	●	●
Boatswain LED	to 8 kW	●	●	○	○	●	○	○	○	○	○	●	●	●	●	●	●
Boatswain HP *	to 8 kW	●	○	○	○	●	○	○	○	○	○	○	○	●	○	○	○
Rifleman	to 6 kW	○	○	○	●	○	○	○	○	○	○	●	●	●	●	●	●
Rifleman PRO	to 6kW	○	○	●	●	○	●	○	○	○	○	●	●	●	●	●	●

\* special version for use only with heat pumps as peak heat source



## Uhlan LCD



### Advanced **LCD** automation



cable control w komplecie

Maximum power	4/6 kW	9 kW	12 kW	15 kW*	18 kW*	24 kW*
	141006	141009	141012			

\* available in 2024

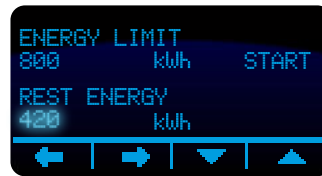
#### OPTION

LED LCD code 100003	Priority On/Off DHW	Three-way solenoid valve + servo	Temp. sensor to DHW tank
LCD	Weekly programme DHW	Weekly programme circulation pump	
Module + web application code 100004	Controls every function of the boiler: <ul style="list-style-type: none"> <li>Supervision all temperature</li> <li>possibility to change remote temperatures</li> <li>preview of temperature graphs</li> </ul>		

Multifunction display



Operation counter



Max. power modulation



PID on/off



9 circulation pump and D.H.W. programme



## Uhlan LED



### Basic **LED** automation

Maximum power	4/6 kW	9 kW	12 kW	15 kW*	18 kW*	24 kW*
	140006	140009	140012			

\* available in 2024

#### OPTION

DHW tank code 100003	Priority On/Off DHW	Three-way solenoid valve + servo	Temp. sensor to D.H.W. tank
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\* Max. Uhlan power

4	6	12	18
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**PV Ready** Max. power reduction adjustment of the boiler output to current needs

4	6	9	15
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PID on/off



Energy Limit



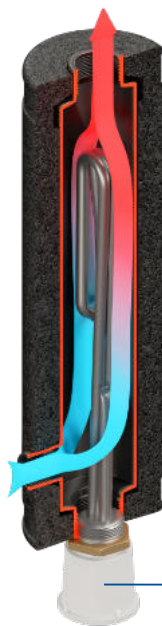
#### Uhlan LCD, Uhlan LED independent heating device

Required equipment in CH installation

- Expansion Vessel
- Manometer
- Pump
- Safety valve
- Air vent



## Boatswain LED



	code
Boatswain LED 3 kW 230/480 kW	<b>234003</b>
Boatswain LED 6 kW 230/480 kW	<b>234006</b>
Boatswain LED 8 kW 230/480 kW	<b>234008</b>

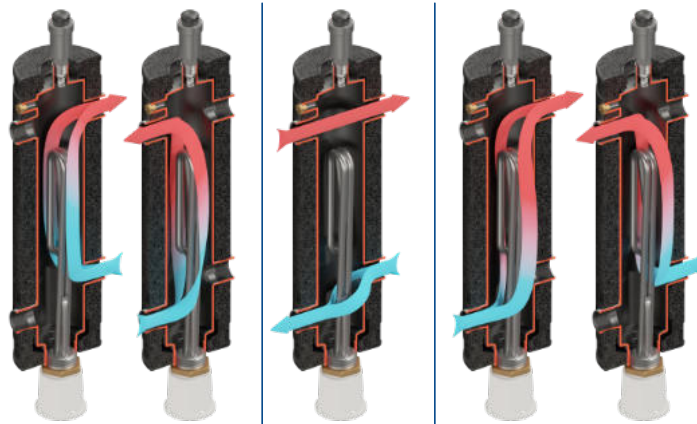
### Equal phase load

Max. power	Heating set
3 kW	1 + 1 + 1 kW
6 kW	2 + 2 + 2 kW
8 kW	2,7 + 2,7 + 2,7 kW

### PV installation



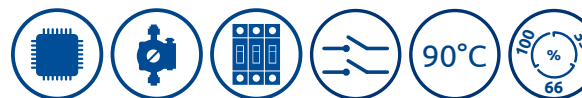
## Boatswain LED PRO with low loss header function



	code
Boatswain LED PRO 6 kW 230/480 kW	<b>254006</b>
Boatswain LED PRO 8 kW 230/480 kW	<b>254008</b>

### Universal connection – 5 variants

## Advanced in-line CH water heater Boatswain LED



Necessary functions of Boatswain LED to operate with heat pump



Control output 230V Option: Peak heat source access to switching On particular heating element – Heating priority



**PV Ready** In-line heater ability to work with:  
 • Room temp. controller 0V  
 • Automation of other heat source or inverter



**PV Ready** • In-line heater operation counter  
 • STOP heating  
 • Ability to set energy consumption  
 • Indication of stop operating by in-line heater



**PV Ready** Disconnects the gas boiler when the electric in-line heater is switched On. Switches the gas boiler On when the set energy consumption limit is reached.  
 Contact detachable



**PV Ready** Adjustment in-line heater power to PV installation (function available on in-line heater control panel)  
 Max. power lock



**PV Ready** Equal phase work loading (In-line heater operation with function PiD or without PiD)  
 PID on/off



**PV Ready** Solid fuel boiler:  
 Operation Counter In-line heater Boatswain controls CH pump for 2 heat sources




**PV Ready** fireplace with water mantle:  
 Operation Counter In-line heater Boatswain controls CH pump for 2 heat sources

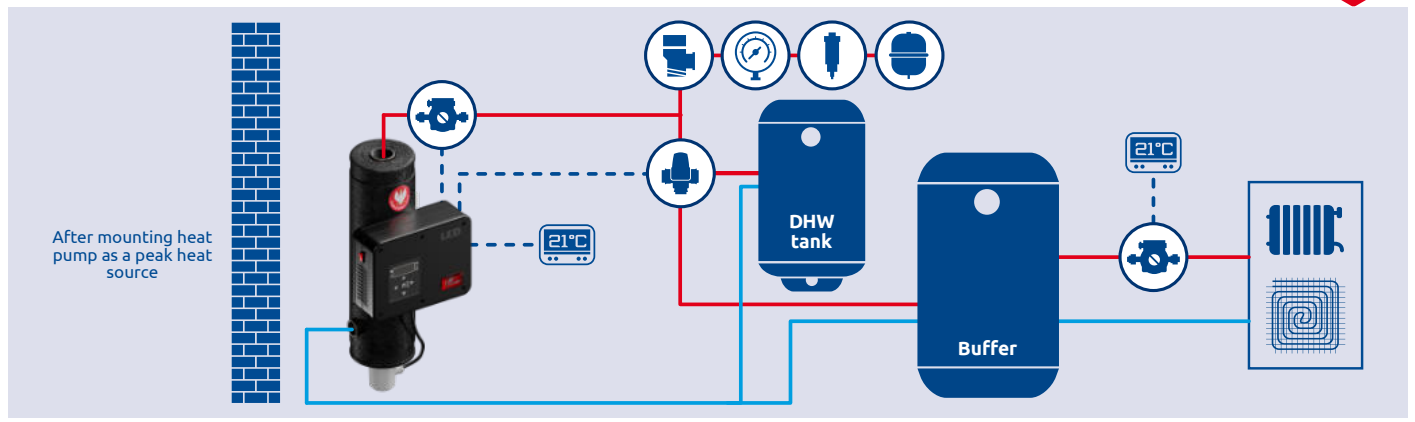
		<b>OPTION</b> DHW set code 100003		Three-way solenoid valve + servo		Priority On/Off DHW		Temp. sensor to DHW tank
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Variant 1



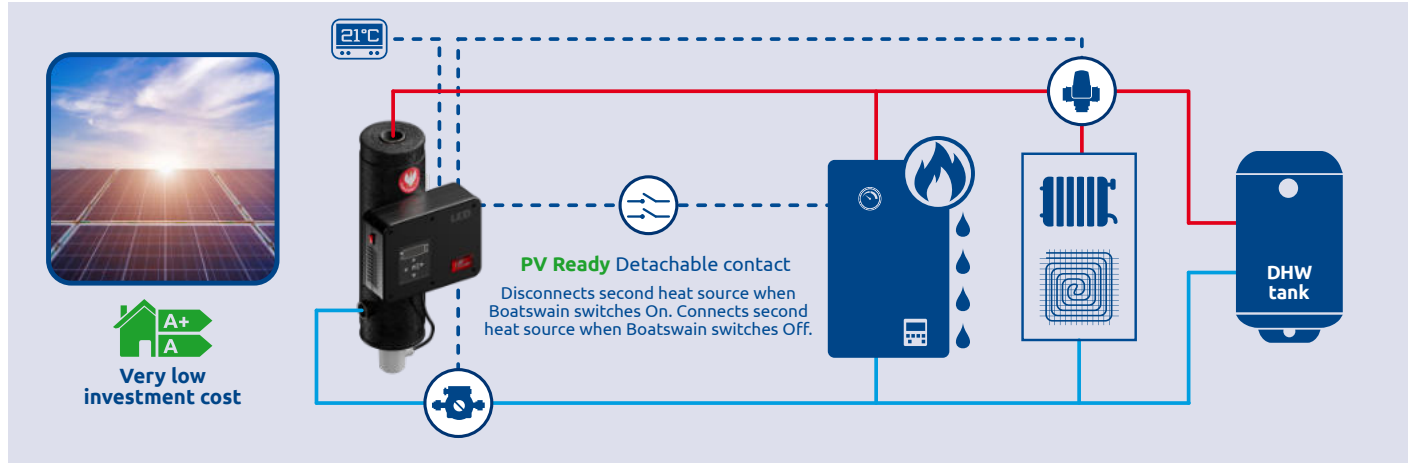
**Independent heating device in CH installation system**  
 e.g.: while awaiting the assembly of a heat pump or other heat source. Once the heat pump is installed, the Boatswain LED works as a peak heat source.




Variant 2



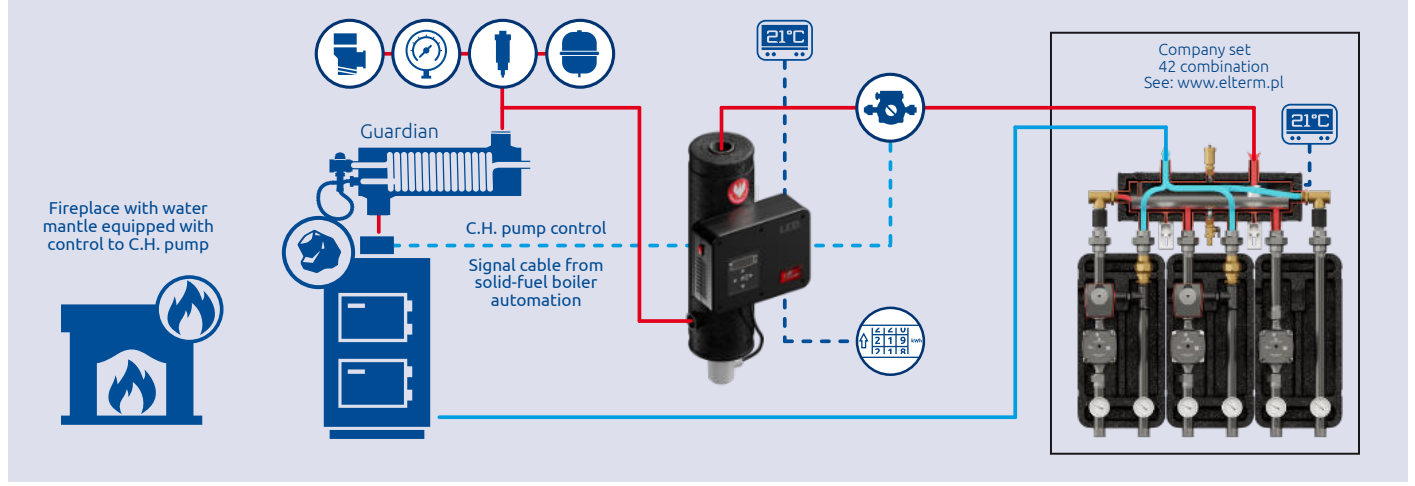
**Ideal to work with gas boiler**  
 Operating boiler counter switches the gas boiler On when the energy consumption limit set on the Boatswain LED panel is reached.



Variant 3



**Ideal for work with solid-fuel boilers and fireplace with water mantle.**  
 As a alternative heating device or for use energy from PV installations





## Boatswain HP automation



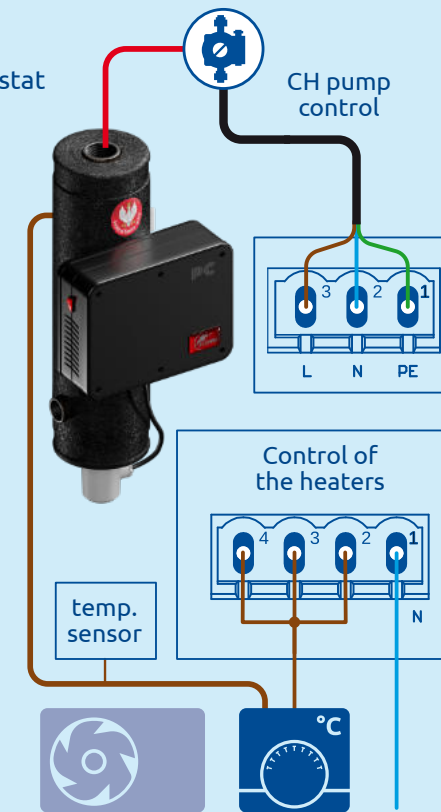
	code
Boatswain HP 3 kW 230/480 kW	<b>244003</b>
Boatswain HP 6 kW 230/480 kW	<b>244006</b>
Boatswain HP 8 kW 230/480 kW	<b>244008</b>

model	Max. power	Heaters	1 phase supply			2 phases supply			3 phases supply			
Boatswain 3	3 kW	1 + 1 + 1 kW	1, 2	i 3 kW		2 kW (1+1 kW)			3 kW			
Boatswain 6	6 kW	2 + 2 + 2 kW	2, 4	i 6 kW		4 kW (2+2 kW)			6 kW			
Boatswain 8	8 kW	2,7 + 2,7 + 2,7 kW	2,7	i 5,4 kW		5,4 kW (2,7+2,7 kW)			8 kW			
Security selection Supply 230/400V		1 kW	2,7 kW	3 kW	3 kW	4 kW	4 kW	5,4 kW	5,4 kW	6 kW	6 kW	8 kW
		1 Fuse	1 Fuse	1 Fuse	2 Fuses	1 Fuse	2 Fuses	1 Fuse	2 Fuses	1 Fuse	3 Fuses	3 Fuses
Fuses (A)		1 x 6	1 x 16	1 x 16	2 x 6	1 x 20	2 x 10	1 x 25	2 x 16	1 x 32	3 x 10	3 x 16
Power cord (mm²)		3 x 1,5	3 x 2,5	3 x 4	5 x 1,5	3 x 4	5 x 2,5	3 x 4	5 x 2,5	3 x 4	5 x 2,5	5 x 2,5

Electrical efficiency class D

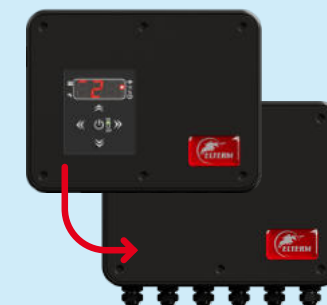
## Temporary absence of heat pump operation

**I work variant:**  
capillary thermostat

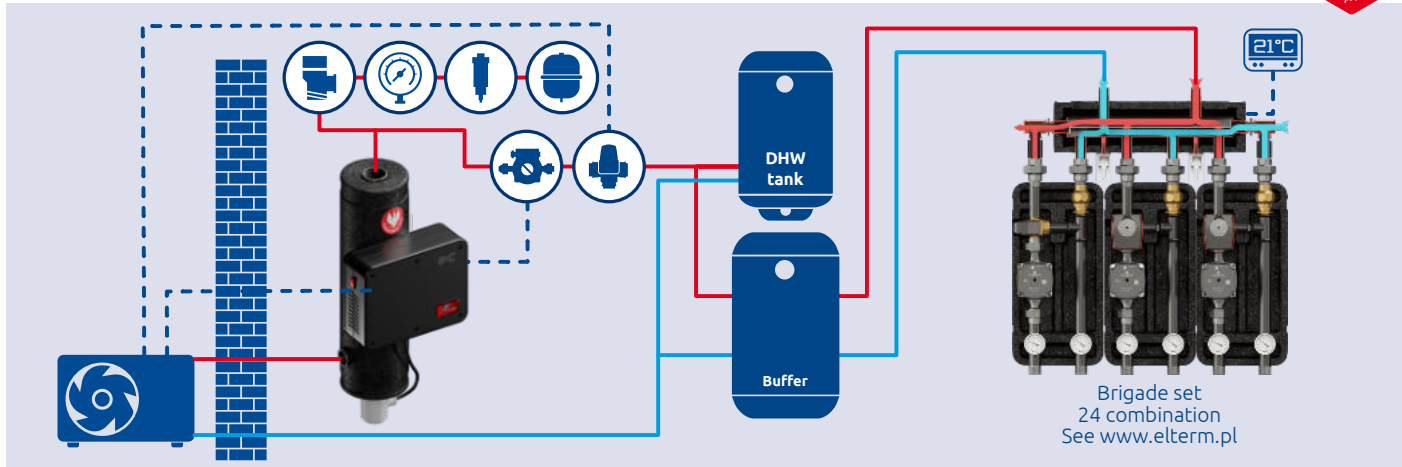


**II work variant:**

Assembly of control panel with Boatswain LED – Compatible with automation of Boatswain HP  
Control panel LED - code 234000

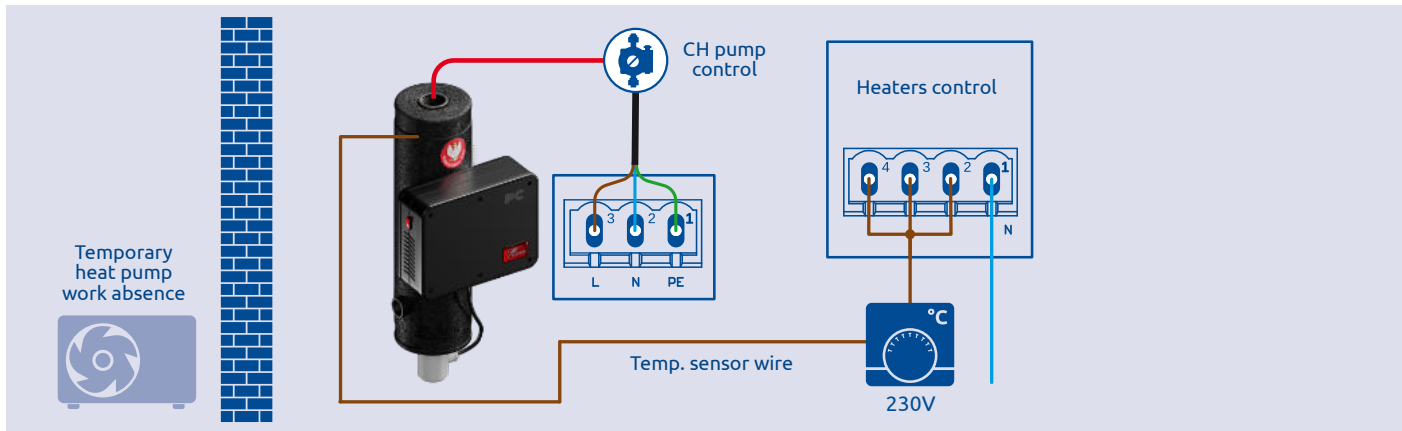


**Boatswain HP as a peak heat source**



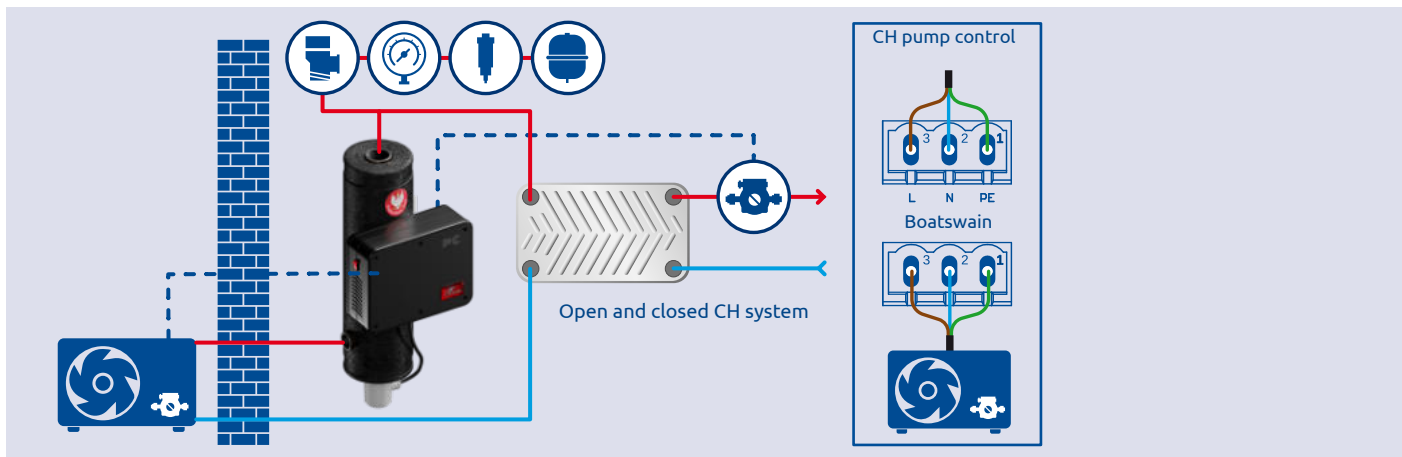
Temporary absence of heat pump

**Boatswain HP as a main heat source**



**Boatswain HP as a peak heat source**

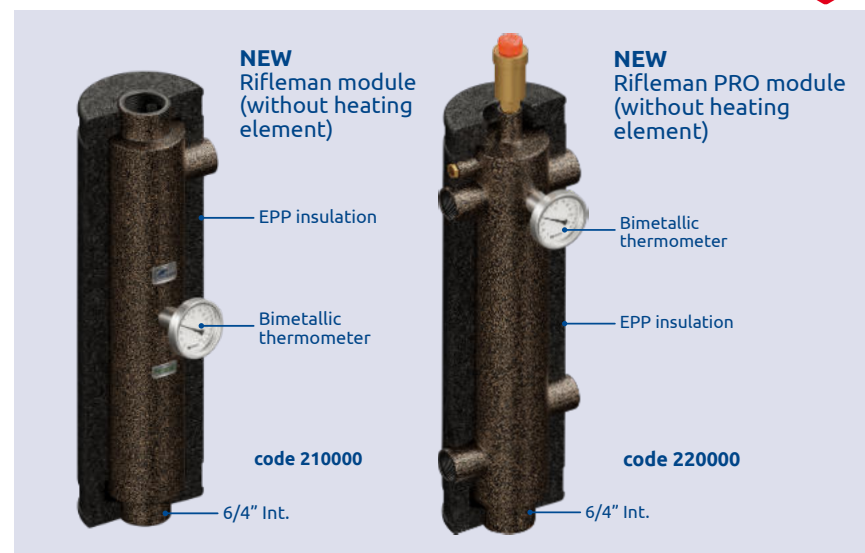
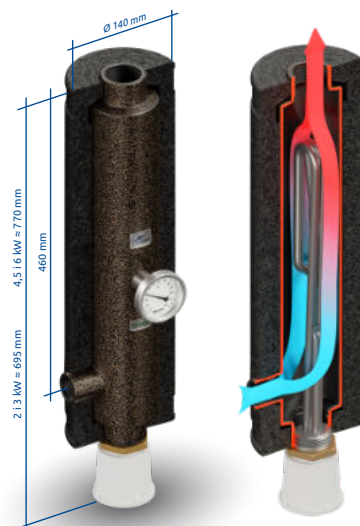
Open and closed CH system  
Boatswain switches C.H. pump after the plate heat exchanger on the basis of the heat pump signal.



## In-line heater Rifleman



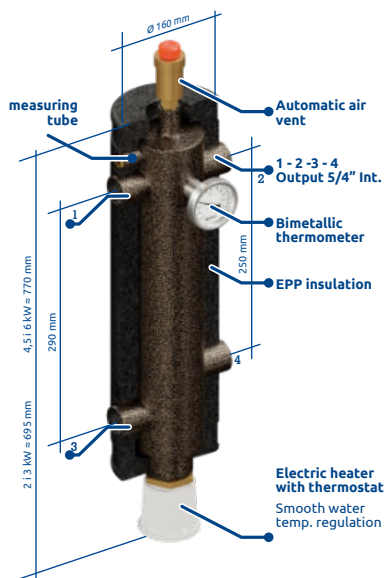
Rifleman / 400V	
<b>4,5 kW / 400 V</b>	<b>Rifleman 400/4</b>
product code	214004
<b>6 kW / 400 V</b>	<b>Rifleman 400/6</b>
product code	214006
Rifleman / 230V	
<b>2 kW / 230 V</b>	<b>Rifleman 230/2</b>
product code	212302
<b>3 kW / 230 V</b>	<b>Rifleman 230/3</b>
product code	212303



## In-line heater Rifleman PRO with low loss header function.



Rifleman PRO / 400V	
<b>4,5 kW / 400 V</b>	<b>Rifleman PRO 400/4</b>
product code	224004
<b>6 kW / 400 V</b>	<b>Rifleman PRO 400/6</b>
product code	224006
Rifleman PRO / 230V	
<b>2 kW / 230 V</b>	<b>Rifleman PRO 230/2</b>
product code	222302
<b>3 kW / 230 V</b>	<b>Rifleman PRO 230/3</b>
product code	222303



### Universal connection – 5 variants

