



since 1992



4 x PV Ready







PV Ready separable contact







Bestseller electric heating boiler Colonel





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



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

Rifleman PRO additional system heater





The widest choice of equipment





































	Boiler power selection table	50m²	75m²	100m²	125m²	150m²	200m²	250m²	300m²
A+	Energy efficient building	4	4		.	0	0	42	45
Α	Insulation up to 25 cm	4 kW	4 kW	6 kW	6 kW	9 kW	9 kW	12 kW	15 kW
В	Standard building	4	C 1	0	0	42	45	40	24
С	Insulation up to 15 cm	4 kW	6 kW	9 kW	9 kW	IZ kW	I5 kW	18 kW	24 kW
D	Energy intensive building	C 1	0	42	45	40	24	20	26
E	Insulation up to 5 cm	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW	30 kW	36 kW

STEP 2 Electrical protections selection

	4 kW	4 kW	6 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 (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 an electrician based on an analysis of local conditions.

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



built in DHW







built in DHW

Marshal



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)

oiler 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 *

e.g. for 9 kW manual modulation = 3-3-3 kW, for 6 kW manual modulation = 2 + 2 + 2 kW, etc.

Shortcut - Elterm boiler selection configurator



^{**} Table for 24kW+ boilers available at www.elterm.pl

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 Readv build-in kWh

countdown

meter

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



PV Ready NO/NC contact

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

power lock

Adjusting the boiler power to the power of the PV Maximum

(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



electro valve + actuator

DHW

priority



weeklv circulation programmer

weekly DHW

programmer



DHW tank temp, sensor

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 Readv

build-in kWh countdown meter



The boiler can work with:

any voltage-free 0V room controller

stop heating

work stop alarm

automatics of another heat source or inverter

build-in kWh countdown meter

· energy consumption setting

separable contact **

PV Readv

power lock

electric boiler turns on. Turns on the second source when the electric boiler will turn off.

It disconnects the second heat source when



(function available on the boiler panel).



DHW package Standard *



DHW priority



electro valve + actuator

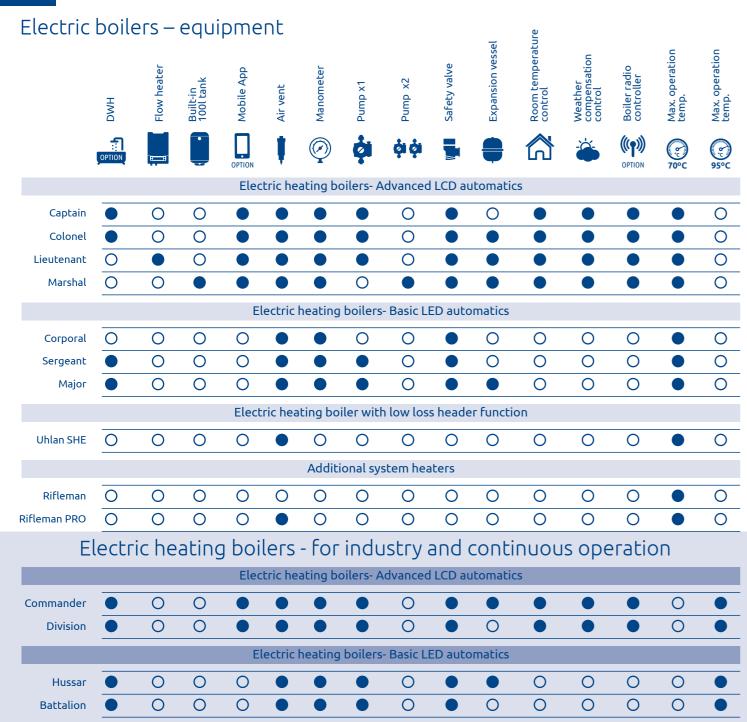


DHW tank temp. sensor



* does not apply to the boilers: Lieutenant, Ensign, Marshal ** spring 2021







Elterm electric heating boiler + hydraulic sets + Quartermaster controller guarantee of reliable operation in central heating mixed systems

Brigade Set **NEW** Squadron Sets hydraulic sets configurator High-tech components Easy and quick assembly Many years of experience in the production of hydraulic fittings Company Set Email us - we will choose the right set - 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	ģi
Colonel - code	127004	127006	127009	127012	127015	127018	127024	åi ≜











100010

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	ģi
Мајог - code	124004	124006	124009	124012	124015	124018	124024	å ♣

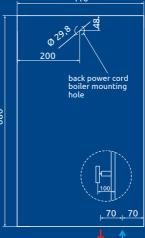




Corporal Sergeant Major Captain Colonel

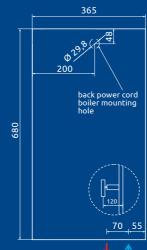
power from 4 up to 12 kW





Corporal Sergeant Major Captain Colonel

power from 15 up to 24 kW

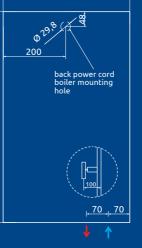


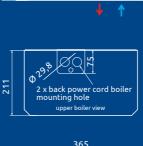


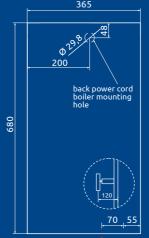


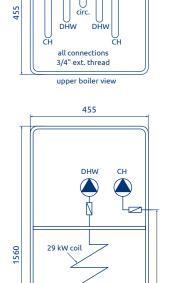
Advanced **LCD** automatics

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









minimal room height 2.1m (necessary during assembly)

Advanced LCD automatics

0

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













Advanced LCD automatics Lieutenant



Legal Protection UP RP no W. 12654





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	4 kW	6 kW	9 kW	12 kW
flow heater power	12 kW	12 kW	12 kW	12 kW	15 kW	15 kW	15 kW	15 kW
Lieutenant - code	118304	118306	118309	118312	118404	118406	118409	118412
Ensign - code	115304	115306	115309	115312	115404	115406	115409	115412
boiler power	4 kW	6 kW	9 kW	12 kW	4 kW	6 kW	9 kW	12 kW
flow heater power	18 kW	18 kW	18 kW	18 kW	21 kW	21 kW	21 kW	21 kW
Lieutenant - code	118504	118506	118509	118512	118604	118606	118609	118612
Ensign - code	115504	115506	115509	115512	115604	115606	115609	115612

LCD - option



100004



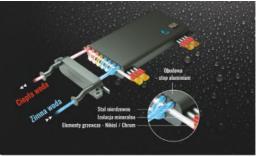




100010

100011

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

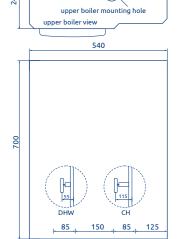


Modern heating block

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 (mm²)	5 x 4,0	5 x 4,0	5 x 6,0	5 x 6,0





15 ELTERN

Electric heating boiler Uhlan with low loss header function





Electronic temperature set



pump automatics control



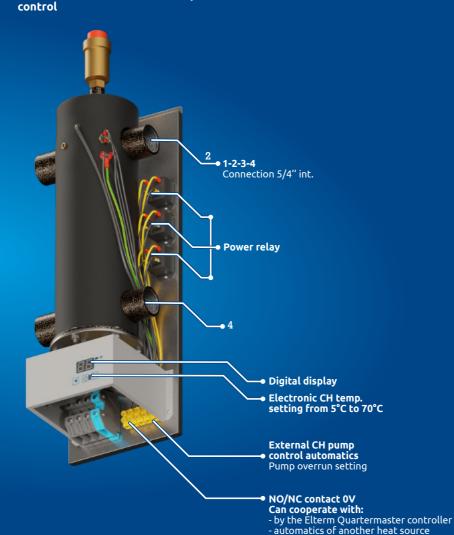
NO/NC contact 0V

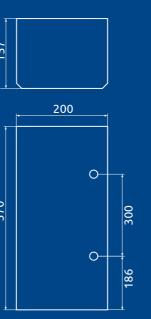


power lock









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
- Compatibile with connecting manifolds 2D+ & 3D+ from Elterm
- Equipped with intuitive controll

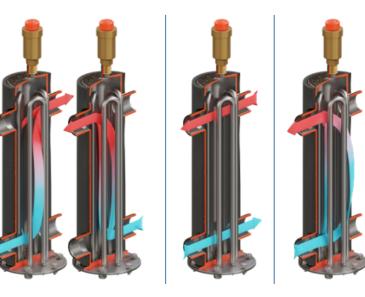
Automatics controlling an external CH pump

Possibility to connect an external central heating pump, e.g.:

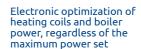
- in the case of operation as a temporary boiler,
- in the event of failure of the main heat source.

Pump overrun adjustment.

Universal connection - 5 variants









maximum power lock

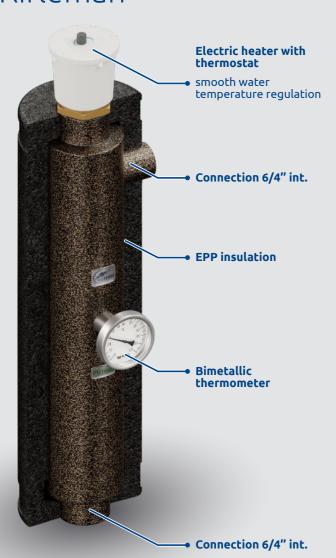
Adjusting the boiler power to the power of the PV installation (on the control panel)

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	4-8-12 kW	170012



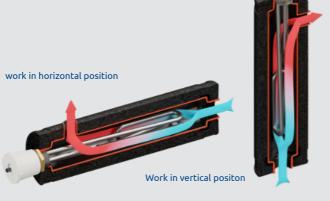


System additional heater Rifleman



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	n / 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		











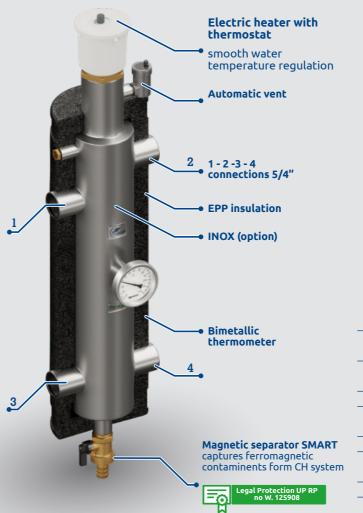
positions







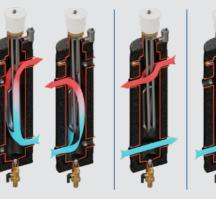
System additional heater Rifleman PRO



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 possibilites



Rifleman PRO / 400V						
3 kW / 400 V	Rifleman PRO 400/3					
code	224003					
4,5 kW / 400 V	Rifleman PRO 400/4					
code	224004					
6 kW / 400 V	Rifleman PRO 400/6					
code	224006					

2 kW / 230 V	Rifleman PRC 230/2
code	222302
3 kW / 230 V	Rifleman PRO 230/3
code	222303

























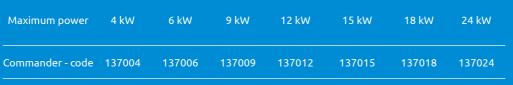
investment cost



Boilers for industry and continuous operation



Advanced LCD automatics Commander



















- increased durability of components
- switch disconnector 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



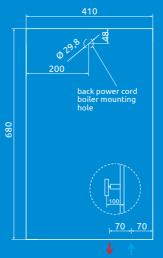
FLIEBE





power from 4 up to 12 kW

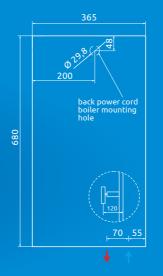




Commander Hussar

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



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

Basic LED automatics Battalion

More information at biuro@elterm.pl







Some of investments using our electric boilers



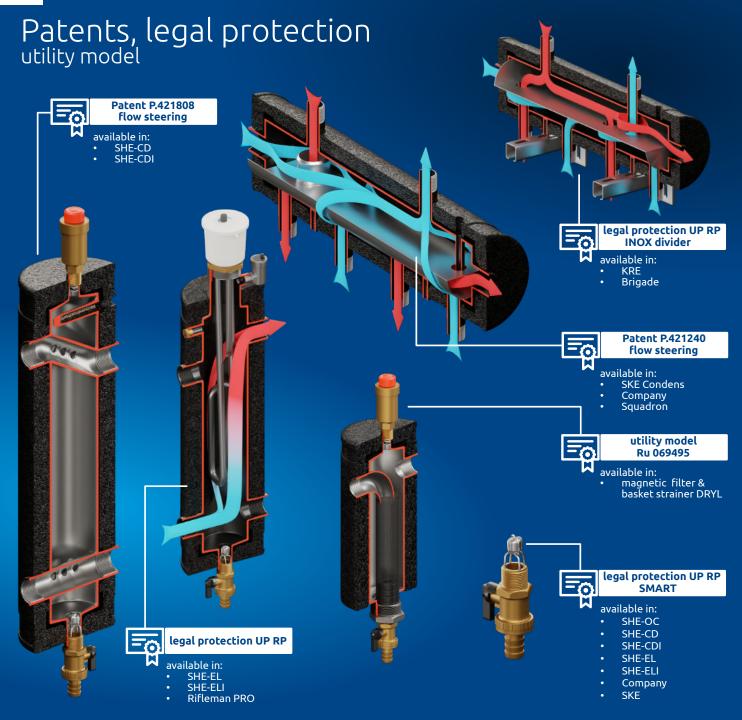
HYDRAULIC ARMATURE



Catalogue 2021







Legends



Measuring pipeNecessary for proper temperature read



Mounting profile facilitates mounting to the wall



Measuring pipe
Necessary for proper
temperature read



flow steering available in SKE - advantages see page 22



Air vent and drain valve
Ensures effective deaeration. Allows fill up/ release water in the central heating system



flow steering available in SKE – advantages see page 22



Adaptation set Complete with SKE - allows for work in 4 positions 360°



INOX divider available in KRE – advantages see page 16



Extension set
(OPTION) applies to SKE – possibility to connect additional circuit



Mounting bracketFacilitates mounting to the wall



EPP insulation reduces heat loss



Rotary deviceAbility to work in several positions



Neodymium magnetic separatorCaptures impurities ferromagnetic in the central heating installation

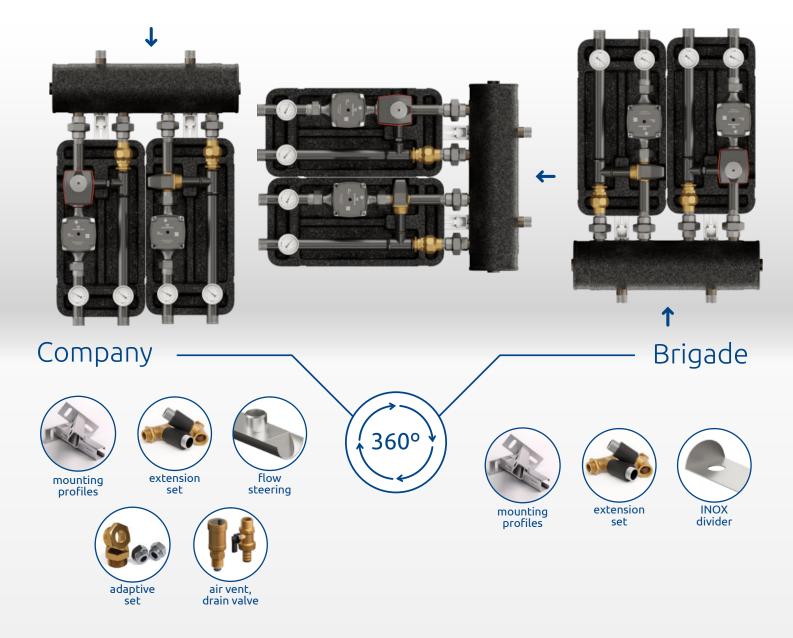


Cheaper in the setApplies to the sets: Company and Brigade

Company and Brigade sets

Four installation positions of the sets thanks to the following:

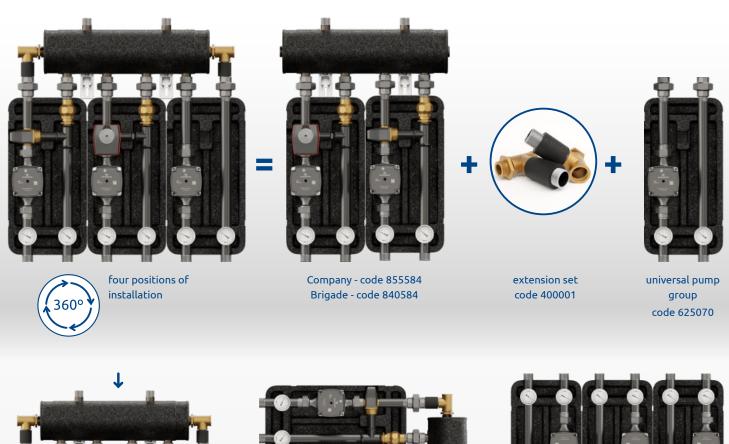
- INOX flow steering Company set
- INOX divider Brigade set

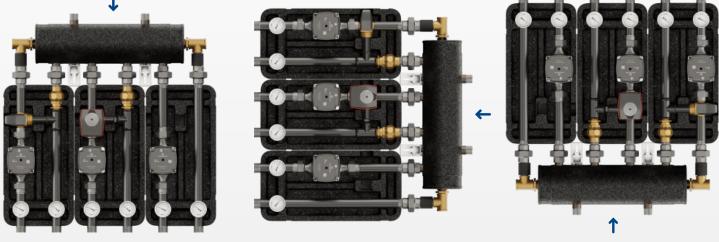




Company and Brigade sets

Selection example for 3 pump circuits with pump groups





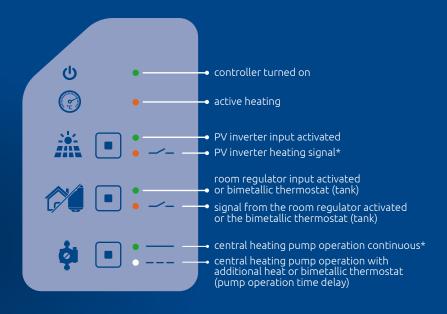


Electronic Navigator controller to control a heater with a bimetallic switch and 2 heat source (separable contact)

item code 811001

New Spring 2021





Perfect for cooperation with:

- System additional heater Rifleman
- System additional heater Rifleman PRO
- low loss header SHE-EL / ELI
- bimetallic heater for the domestic hot water tank

Technical data:

- supply voltage 230V (3x230V)
- maximum heater power 3 x 4 kW
- 2 x OV voltage-free input
- dimensions: 225 x 175 x 80 mm





PV Ready

N/C contact (break contact) 0V



PV Ready Break contact

4 driver operation options



only C.H. pump



C.H. pump + inverter



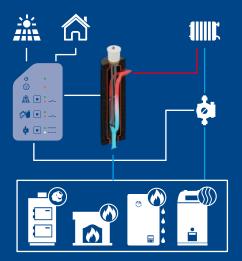
C.H. pump + room thermostat / bimetallic thermostat

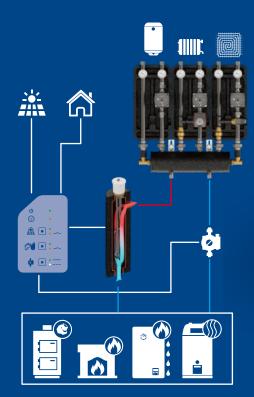


+ inverter PV + room thermostat / bimetallic thermostat



An exemplary diagram of the Navigator + Rifleman controller connection



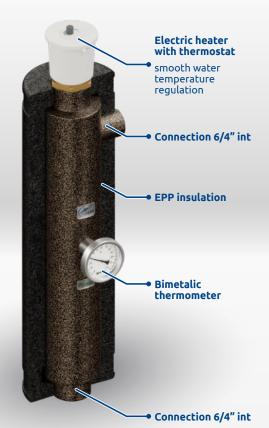


Central heating system additional heater Rifleman

the only one in market

- perfect as an alternative heating source in PV systems
- Anti-freeze system
- smooth CH water temperature regulation
- resistor emergency stop switch





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





thermometer





investment





positions







item code





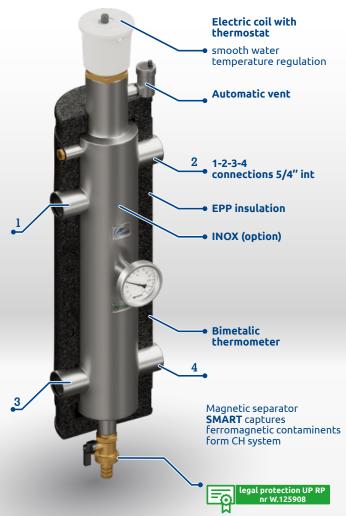
circuit

214006





Central heating system additional heater Rifleman PRO



the only one in market

- perfect as an alternative heating source in PV systems
- perfect as a peak source for heat pump
- compatible with 2D + and 3D + separating manifolds Elterm
- electric heater with thermostat
- Anti-freeze system
- smooth CH water temperature regulation
- resistor emergency stop switch

Universal connection - 5 variants







Rifleman PRO / 400V				
3 kW / 400 V	400/3			
item code	224003			
4,5 kW / 400 V	400/4			
item code	224004			
6 kW / 400 V	400/6			
item code	224006			

230/2
222302
230/3
222303





bimetalic thermometer



wide choice of products



for open circuit



for closed circuit



universal connection

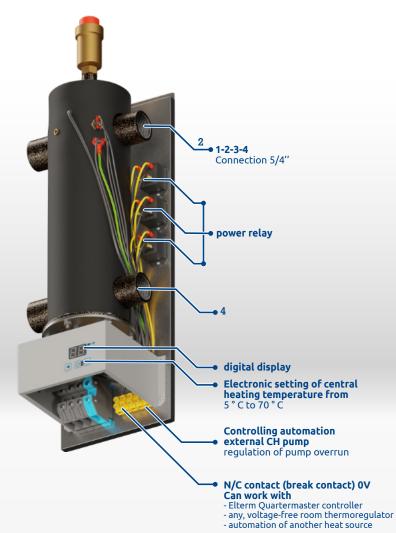


SMART



Automatic vent

Electric heating boiler Uhlan with low loss header function



the only one in market

- Smallest dimensions on market
- Perfect as alternative heating source in PV systems
- Perfect as a peak source for heat pump
- Can work in an open central heating system
- Dedicated to work with heat pumps
- SHE-OC 70 kW Elterm low loss header function
- Compatibile with connection manifolds 2D+ & 3D+ Elterm
- Equipped with intuitive control

Universal connection - 5 variants







Max. Power	power supply 230/400V	electronic modulation	manual modulation	code
4 kW	230 V	co 1/3 mocy	2-4 kW	170004
4 kW	400 V	co 1/3 mocy	2-4 kW	170004
6 kW	230 V	co 1/3 mocy	2-4-6 kW	170006
6 kW	400 V	co 1/3 mocy	2-4-6 kW	170006
9 kW	400 V	co 1/3 mocy	3-6-9 kW	170009
12 kW	400 V	co 1/3 mocy	4-8-12 kW	170012





Electronic setting of temperature



Controlling automation external CH pump



Controlling automation of heaters



N/C contact (break contact)



maximum power lock



universal connection





Low loss header SHE- OC



The SHE Low loss header is used for separation of the boiler circuit from the circuit heating

They are used in systems with one or several sources of heat and especially composed of more than one circuit.



- independent operation of individual circuits
- correct operation of the pumps
- venting the central heating system

Correctly selected diameters of the body and connectors cause flow optimization

V max 1 in connectors = 1,2 m/s

V max 2 in connectors= 0,2 m/s







New 2021

Mounting bracket included



New 2021

neodymium magnetic separator SHE - OC + SMART included









SHE-OC 40 the most popular low loss header in Poland

	SHE-OC 40 25/65	SHE-OC 70 32/80	SHE-OC 100 40/100	SHE-OC 115 50/100	SHE-OC 156 50/125
item code	402040	402070	402100	402115	402156
insulation	YES EPP	YES EPP	YES EPP	YES EPP	YES EPP
	SHE 40 25/65	SHE 70 32/80	SHE 100 40/100	SHE115 50/100	SHE 156 50/125
item code	401040	401070	401100	401115	401156
insulation	NO	NO	NO	NO	NO
Max. Power (ΔT=15K)	40 kW	70 kW	100 kW	115 kW	156 kW
Max. Power (ΔT=20K)	55 kW	90 kW	135 kW	150 kW	210 kW
Connection (DN)	25 - 1 "It	32 - 5/4"It	40 - 6/4"Et	50 - 2"Et	50 - 2"Et
Max. Flow	2,3 m³/h	4,0 m³/h	5,7 m³/h	6,6 m³/h	9,0 m³/h

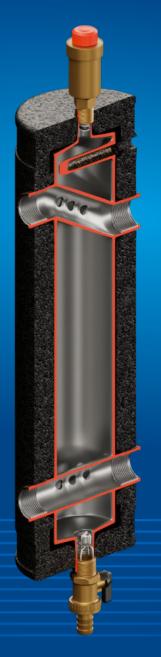
SHE -OC 225 the most popular flange low loss header in Poland

	SHE-OC 225 65/150	SHE-OC 420 80/200	SHE-OC 435 100/200	SHE-OC 700 100/250	SHE-OC 750 125/250
item code	402225	402420	402435	402700	402750
insulation	YES mineral wool	YES mineral wool	YES mineral wool	YES mineral wool	YES mineral wool
Max. Power (ΔT=15K)	225 kW	420 kW	435 kW	700 kW	750 kW
Max. Power (ΔT=20K)	300 kW	560 kW	580 kW	935 kW	1000 kW
Flange DN (PN16)	65-21/2"	80-3"	100-4"	100-4"	125-5"
Max. Flow	12,9 m/h	24,0 m'/h	25,2 m/h	39,0 m/h	41,5 m/h

^{*} Mounting bracket included in SHE up to 115 kW



Vertical low loss header SHE-CDI Condens INOX, SHE-CD Condens



flow steering

maintains the high efficiency of the condensing boiler and heat pump

minimizes the return of hot water directly to the heat source



C.H. pump + inverter



condensing boiler





Mounting bracket included



















SHE-CDI INOX stainless steel body and flow steering

SHE-CDI 210 i SHE-CD 210 the most powerful low loss steering from the threaded series

INOX	SHE-CDI 55 25/65	SHE-CDI 90 32/80	SHE-CDI 135 40/100	SHE-CDI 210 50/125
item code	404055	404090	404135	404210
Max. Power (ΔT=20K)	55 kW	90 kW	135 kW	210 kW
insulation	YES EPP	YES EPP	YES EPP	YES EPP

	SHE-CD 55 25/65	SHE-CD 90 32/80	SHE-CD 135 40/100	SHE-CD 150 50/100	SHE-CD 210 50/125
item code	403055	403090	403135	403150	403210
Max. Power (ΔT=20K)	55 kW	90 kW	135 kW	150 kW	210 kW
insulation	YES EPP	YES EPP	YES EPP	YES EPP	YES EPP
Connection (DN) A	25-1" lt	32 1¼"lt	40 1½"Et	50 - 2"Et	50 - 2"Et
Max. Flow	2,3 m³/h	4,0 m³/h	5,7m³/h	6,6 m3/h	9,0 m3/h

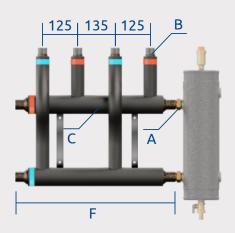
SHE-CD flanged version

SHE-CD 300 65/150	SHE-CD 560 32/80
403300	403560
300 kW	560 kW
YES mineral wool	YES mineral wool
65-2½"	80-3"
12,9 m³/h	24,0 m³/h
	403300 300 kW YES mineral wool 65-2½"

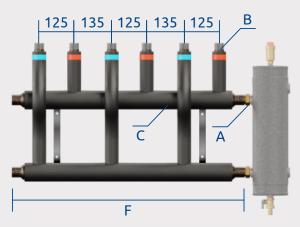
^{*} Mounting bracket included in SHE- CDI up to 135 kW, in SHE-CD up to 150 kW



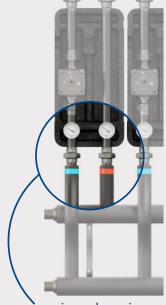
Connecting manifolds for low loss headers SHE



2D+ 2-way separating manifolds (2 upwards + 1 sideways)



3D+ 3-way separating manifolds (3 upwards + 1 sideways)



universal spacing 125 mm

manifolds can be rotated 180°

For SHE	40/55 kW	70/90 kW	100/135 kW	115/150 kW	156/210 kW
B=1"	2D + 2	-way separatin	g manifolds (2 ı	ıpwards + 1 sid	eways)
item code	512040	512070	512100	512115	512156
Solar insulation	Yes	Yes	Yes	Yes	Yes
item code	502040	502070	502100	502115	502156
Solar insulation	No	No	No	No	No
Dimension F (mm)	605	605	525	615	615
B=1"	3D + 3	-way separatin	g manifolds (3 ı	ıpwards + 1 sid	eways)
item code	513040	513070	513100	0513115	513156
Solar insulation	Yes	Yes	Yes	Yes	Yes
item code	503040	503070	503100	503115	503156
Solar insulation	No	No	No	No	No
Dimension F (mm)	865	865	785	880	880
Connection DN A	25 - 1" It	32 - 1¼" lt	40 - 1½"Et	50 - 2" Et	50 - 2"Et
Connection DN - B	25 - 1" Et	25 - 1" Et	25 - 1" Et	25 - 1" Et	25 - 1" Et
Main pipe DN - C	40 - 11/2"	40 - 11/2"	40 - 11/2"	50 - 2"	50 - 2"

For SHE	115/150 kW	156/210 kW
B=5/4"	2 upwards +	1 sideways
item code	562115	562156
Solar insulation	Yes	Yes
item code	552115	552156
Solar insulation	No	No
Dimension F (mm)	615	615
B=5/4"	3 upwards +	1 sideways
item code	563115	563156
Solar insulation	Yes	Yes
item code	553115	553156
Solar insulation	No	No
Dimension F (mm)	880	880
Connection DN A	50 - 2" Et	50 - 2"Et
Connection DN - B	32 - 11⁄4" Et	32 - 1¼" Et
Main pipe DN - C	50 - 2"	50 - 2"

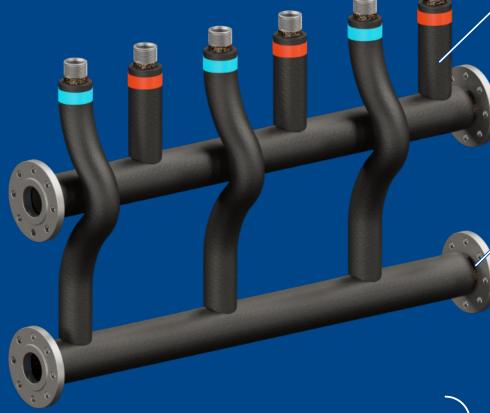


solar insulation

powder paint

125 | 135 | 125 |

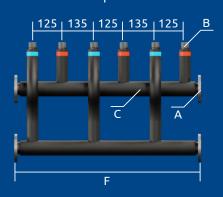




manifolds can be rotated 180°

Flanged manifolds on request

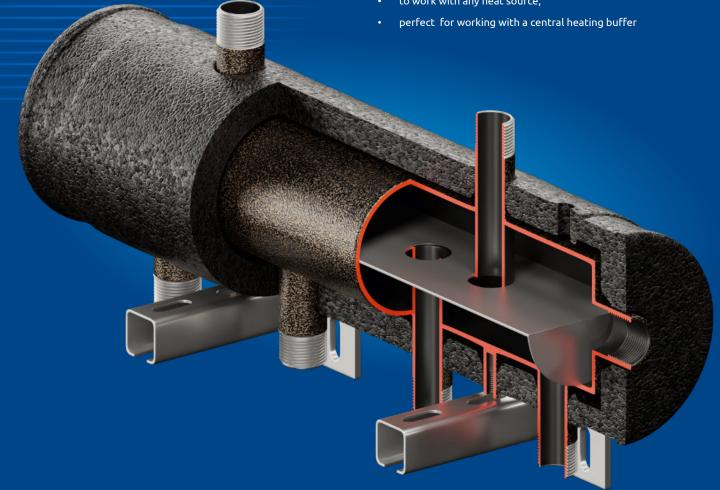
For SHE OC	225/300 kW	420/560 kW	435/580 kW	700/935 kW	750/1000 kW	
B=5/4"	2 upper outputs + 1 side output					
item code	562225	562420	562435	562700	562750	
Solar insulation	Yes	Yes	Yes	Yes	Yes	
B=5/4"	3 upper outputs + 1 side output					
item code	563225	563420	563435	563700	563750	
Solar insulation	Yes	Yes	Yes	Yes	Yes	
Flange PN 16-A	65 - 2½"	80 - 3"	100 - 4"	100 - 4"	125 - 5"	
Connection DN - B	32 -1¼" Et	32 -1¼" Et	32 -1¼" Et	32 -1¼" Et	32 -11/4" Et	
Main pipe DN - C	65 - 2½"	80 - 3"	100 - 4"	100 - 4"	125 - 5"	





KRE 2D+ 40 kW compact manifold

- technically advanced manifold,
- INOX divider,
- guarantees an even hot water consumption
- 2 (3 optional) pump groups,
- enables installation of several pump groups with any mixing
- to work with any heat source,





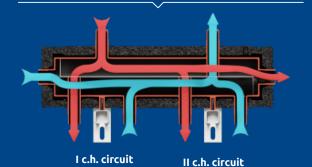






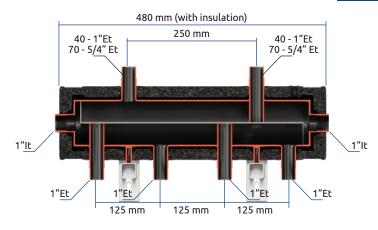
KRE 2D + manifold 1 or 2 heat sources 2 or 3 heating circuits



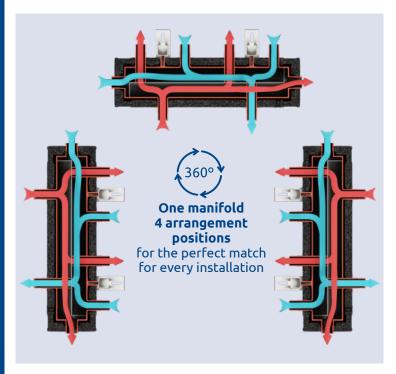








KRE 2D+	40 kW
item code	452040
max flow	2,3 m³/h
weight	6,8 kg

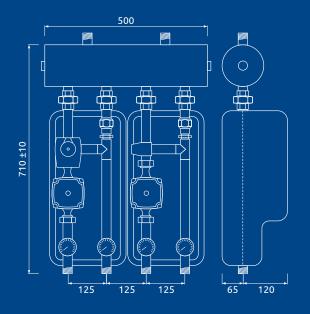






Brigade set KRE 2D + compact manifold 2 x pump group

- Legal protection INOX divider
- Advanced technical KRE 2D + divider
- Perfect cooperation with any heat source
- Perfect for working with the c. h. buffer
- 16 combinations to suit any c. h. Installation
- 4 positions of set installation



















Brigade set

- KRE 2D + compact manifold
- 2 x pump group



Brigade 480 VRG 432 + UNI **code 840480**



Brigade 410 VRG 432 + UNI **code 840410**





Brigade 484 VRG 432 + VRG 432 + code 840484









Brigade 070 UNI + UNI code 840070



Brigade 000 UNI + UNI code 840000





Brigade 575 VTA 522 + VTA 522 + code 840575



Brigade 505 VTA 522 + VTA 522 **code 840505**





Brigade 370 VTA 322 + UNI **code 840370**



Brigade 300 VTA 322 + UNI **code 840300**





Brigade 570 VTA 522 + UNI **code 840570**



Brigade 500 VTA 522 + UNI code 840500





Brigade 384 VTA 322 + VRG 432 code 840384





Brigade 584 VTA 522 + VRG 432 H code 840584

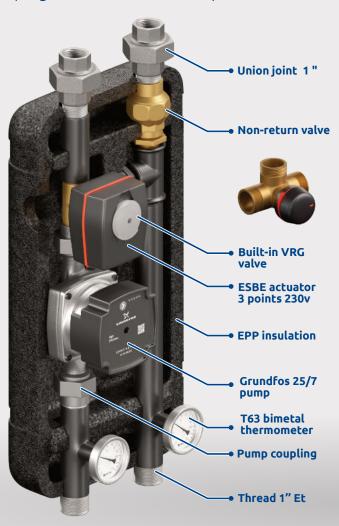




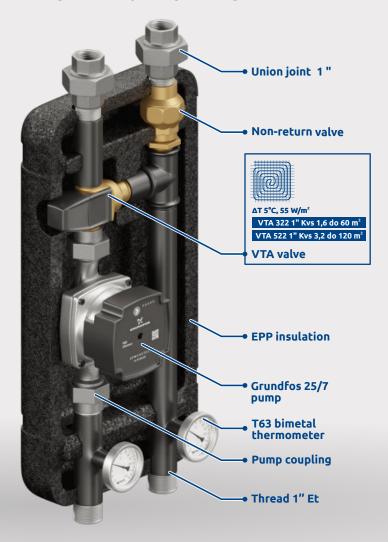


Pump groups

with 3-way rotary valve VRG 432 1 " progressive VRG valve Kvs up to 8.0

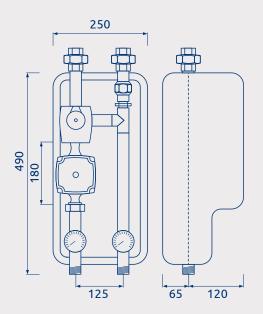


with thermostatic valve VTA 1 " VTA 322 Kvs 1.6 VTA 522 Kvs 3.2



Universal pump group

















VRG 432 Kvs 8,0		YES		YES	YES	YES		625400
VRG 432 Kvs 8,0		YES		YES	YES	YES	YES	625410
VRG 432 Kvs 8,0	YES	YES		YES	YES	YES		625470
VRG 432 Kvs 8,0	YES	YES		YES	YES	YES	YES	625480
VTA 322 Kvs 1,6			YES	YES	YES	YES		625300
VTA 322 Kvs 1,6	YES		YES	YES	YES	YES		625370
VTA 522 Kvs 3,2			YES	YES	YES	YES		625500
VTA 522 Kvs 3,2	YES		YES	YES	YES	YES		625570
Universal				YES		YES		625000
Universal	YES			YES		YES		625070



Pump 25/7 Grundfos



Rotary valve VRG ESBE



VTA ESBE mixing valve



Watts thermometers



Non-return valve



Union joint 1"

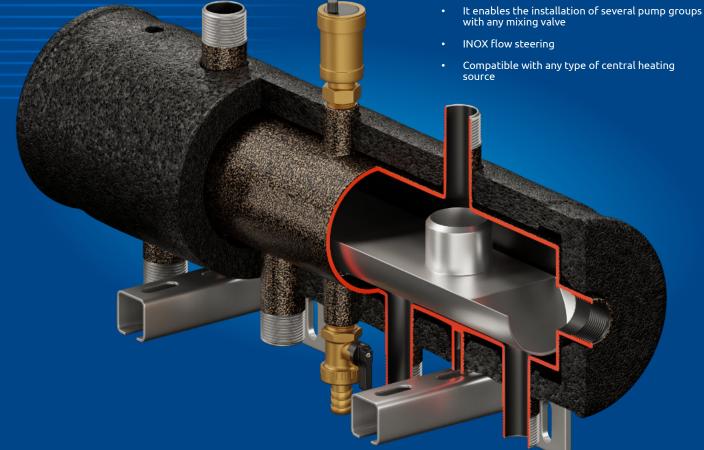


ESBE actuator for VRG valve

SKE 2DC + Condens 55 and 90 kW distribution low loss header with extension set

The most technically advanced distribution low loss header in Poland

- maintains the high efficiency of the condensing boiler and heat pump
- minimizes the return of hot water directly to the
- it also guarantees even hot water consumption by the pump groups
- with any mixing valve









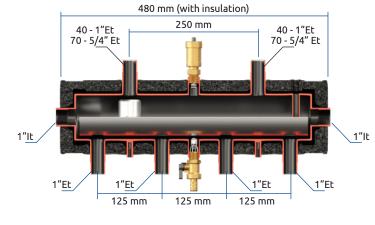




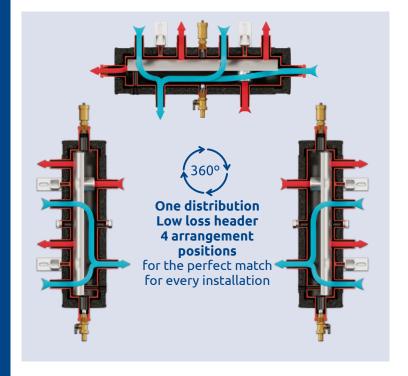


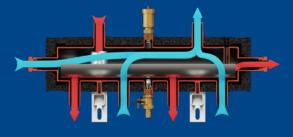






SKE 2DC+ Condens	55 kW	90 kW
item code	432055	432090
max flow	2,3 m³/h	4,0 m³/h
max power at ΔT = 20	up to 55 kW	up to 90 kW



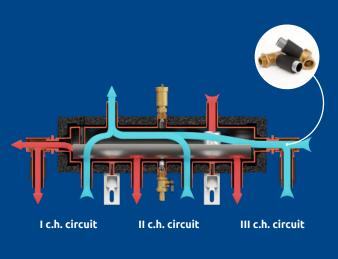


I c.h. circuit

extension set

II c.h. circuit

400001



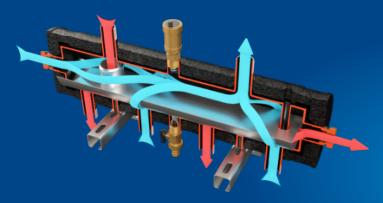
item code





Patent P.421240 flow steering

Company set SKE 2DC + Condens 55 kW + 2 x pump group

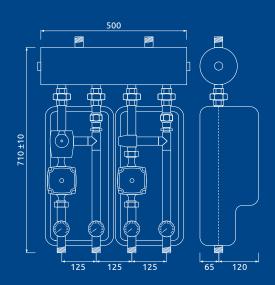




NEW

Pump sets selection configurator

Configurator - full offer of 28 combinations fited to each central heating installation



























The 16 most popular Company sets (28 sets to choose from - see www.elterm.pl)



Company 480 VRG 432 + UNI code 855480



Company 410 VRG 432 + UNI code 855410





Company 484 VRG 432 + VRG 432 + code 855484







Company 070 UNI + UNI code 855070



Company 000 UNI + UNI code 855000





Company 575 VTA 522 + VTA 522 + code 855575







Company 370 VTA 322 + UNI code 855370



Company 300 VTA 322 + UNI code 855300





Company 570 VTA 522 + UNI code 855570



Company 500 VTA 522 + UNI code 855500





Company 384 VTA 322 + VRG 432 code 855384

Company 314 VTA 322 + VRG 432 code 855314



Company 584 VTA 522 + VRG 432 + code 855584

Company 514 VTA 522 + VRG 432 code 855514

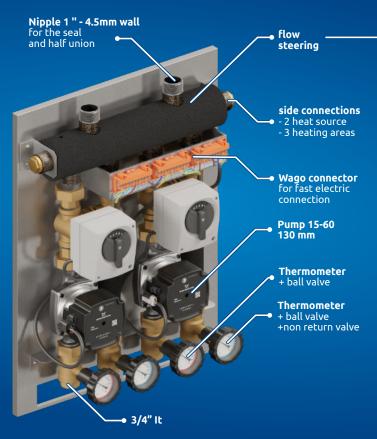


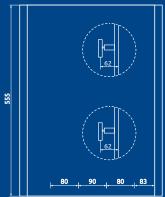


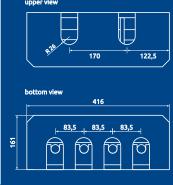


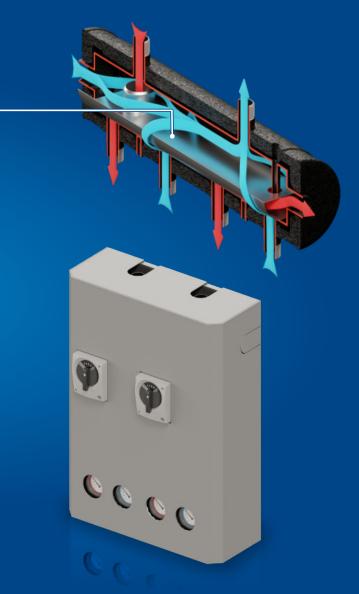
Patent P.421240 flow steering

Squadron set SKE 2DC+ Condens 35 kW + 2 x pump group









Squadron Set four positions of installation



NEW Pump sets selection configurator



Squadron Set - 6 options to choose from : rotary valve with Kvs 6.3 actuator Kvs 1.8 thermostatic mixing valve 20-45 °C



Squadron 070 (SKE 2DC+ 35 kW, 2 x UNI, pumps DN15) item code 835070



Squadron 370 (SKE 2DC+ 35 kW, UNI, thermostatic mixing valve, pumps DN15) item code 835370



Squadron 373 (SKE 2DC+ 35 kW, 2 x thermostatic mixing valve, pumps DN15) item code 835373



Squadron 384 (SKE 2DC+ 35 kW, thermostatic mixing valve, rotating valve with actuator, pumps DN15) item code 835384



Squadron 480 (SKE 2DC+ 35 kW, UNI, rotating valve with actuator, pumps DN15) item code 835480

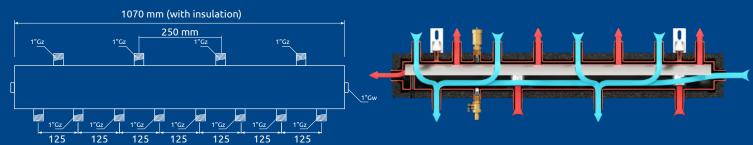


Squadron 484 (SKE 2DC+ 35 kW, 2 x rotating valve with actuator, pumps DN15) item code 835484



SKE 4DC+ Condens 96 kW (2X48 KW) Distribution Low loss Header with adaptation set

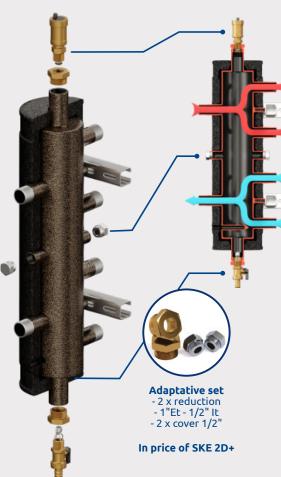






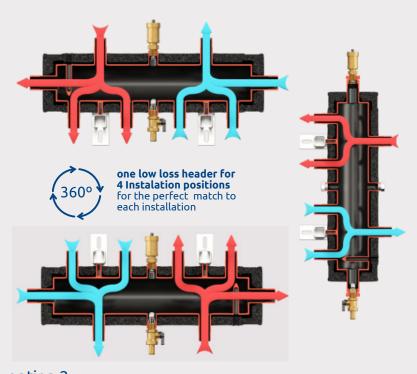
SKE 2D+ 40 kW

Disrtribution Low Loss Header with adaptative set



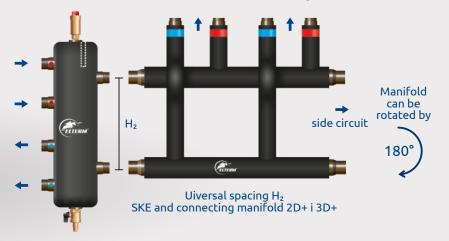
SKE 2D+ 40 kW				
item code	412040			
max flow	2,3 m³/h			
max power at ΔT = 15K	do 40 kW			

option 1



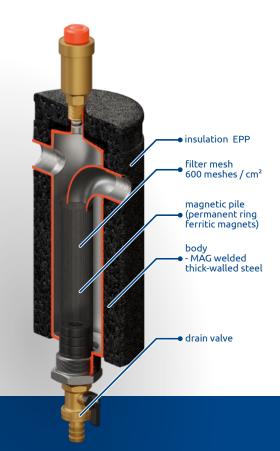
option 2

Vertical version for 2 heat sources + connecting manifold





Magnetic separator DRYL



- Effective filter mesh over 600 mesh per cm²
- Effective venting
- Effective removal of mechanical impurities
- Effective removal of ferromagnetic contamination
- Easy and quick cleaning of the filter mesh and the magnetic pile

	DRYL 37 OC 25/65	DRYL 60 OC 32/80	DRYL 95 OC 40/100	DRYL 144 OC 50/125	DRYL 275 OC 65/150	DRYL 365 OC 80/200
item code	712037	712060	712095	712144	712275	712365
insulation	YES	YES	YES	YES	YES	YES
	DRYL 37 25/65	DRYL 60 32/80	DRYL 95 40/100	DRYL 144 50/125		
item code	702037	702060	702095	702144		
insulation	NO	NO	NO	NO		
Max Power at ΔT = 15K	up to 37 kW	up to 60 kW	up to 95 kW	up to 144 kW	up to 275 kW	up to 365 kW
Connection DN	25-1 " lt	32-1¼" lt	40-1½" It	50-2" It	Flange 2½" (DN65 PN16)	Flange 3" (DN80 PN16)
flow Qmax	2,1 m³/h	3,5 m³/h	5,4 m³/h	8,3 m³/h	16,0 m³/h	21,2 m³/h

Phase 1 - CENTRIFUGAL FILTRATION

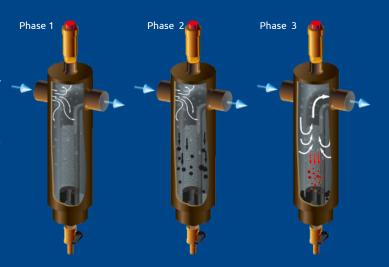
 Central heating water flow takes a whirling motion and is smashed by Hamburg knee. Initial bubble precipitation occurs Air.

Phase 2 – SEDIMENTATION

 The water in the filter separator body considerably slows down the speed, mechanical impurities> 0.125 mm fall by gravity in front of the mesh filter.

Phase 3 - MECHANICAL FILTRATION ON A GRID + MAGNETIC FILTRATION

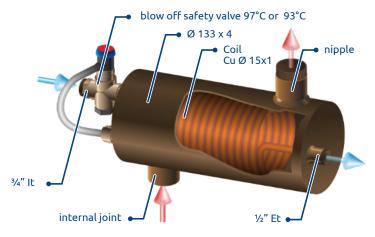
 Water passes through the strainer. Ferromagnetic contamination <0.125mm catches magnetic pile. The water passes through the dense mesh, there is a fundamental phase separation of air particles





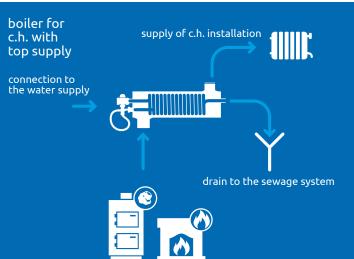
Safety heat exchanger Guardian

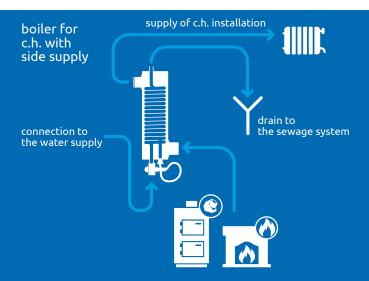




- · possibility of vertical work
- possibility of horizontal work
- self-venting
- 100% pressure control

uninsulated	GUARDIAN 23 40/125	GUARDIAN 32 40/125
work temperature	93°C	93°C
item code	703323	703332
	0700	0.70.0
work temperature	97°C	97°C
item code	703023	703032
coil power (max. Boiler power)	23 kW	32 kW
insulated	GUARDIAN 23 40/125	GUARDIAN 32 40/125
work temperature	93°C	93°C
item code	713323	713332
work temperature	97°C	97°C
item code	713023	713032
coil power	22.114	22 144
(max. Boiler power)	23 kW	32 kW





Quartermaster controller guarantee of reliable operation in mixed systems



- Modern, electronic, weather and room controller for the entire c.h. installation and d.h.w.
- Provides comfortable and efficient management of heat sources, Low loss header and heated rooms
- Touch and easy-to-use control panel

_	-	_		
Ous	rharr	nachar	control	IAL

item code 811246

Controls:

- 1 or 2 any heat sources (boiler alter.)
- 2 heat sources simultaneously (two different heat sources or a cascade of 2 c. h. Boilers)



controls max 3 actuators 3 point 230V



Controls:

- 3 central heating pumps e.g. pump groups
- 1 domestic hot water pump e.g. a pump group
- 1 circulation pump



Controls:

2 N/C contact (break contact) of the boilers

2 any heat source pumps or in a mixed system



3 x N/C contact (break contact) for 3 CH circuits (possibility to connect any 3 voltage-free room thermoregulators)



3 x N/C contact (break contact) for 3 CH circuits (possibility to connect any 3 voltage-free room thermoregulators)



weather compenstaion



5 independent temperature sensors, e.g.:

- 3 CH circuits + hot water + low loss header
- 2 CH circuits + hot water + low loss header + fireplace



The AUTO-SUMMER function is independent for each circuit (turns off the circuit after exceeding a certain outside temperature)



Quartermaster controller

item code

811246



Smartphone web application Controls the most important functions Ouartermaster via Mobile phone

quartermaster controller

item code

814246

smartphone application



Wired, room, temperature sensor (maximum 3 independent sensors for each heating circuit)

room sensor

item code

100005



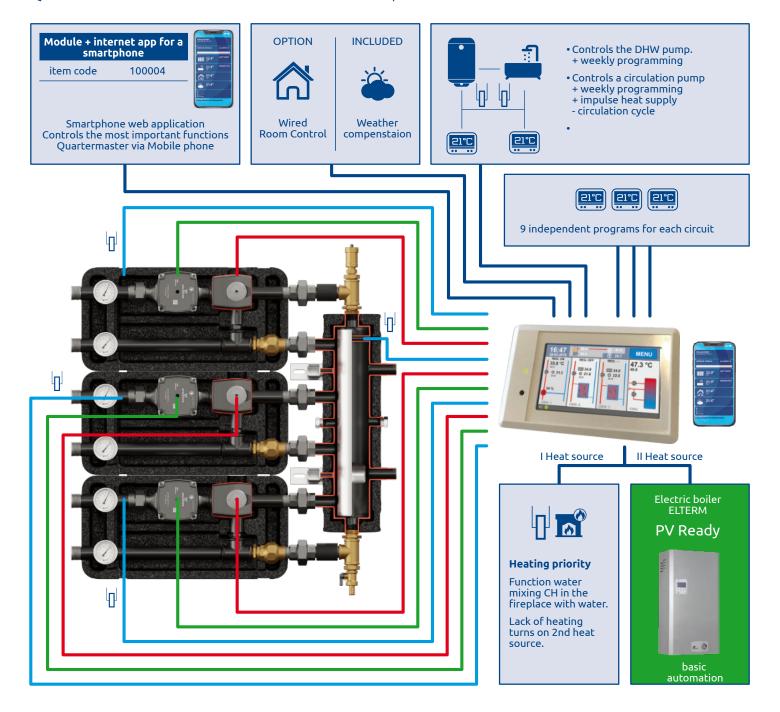
Additional temperature sensor (The Quartermaster supports the maximum 6 temperature sensors) Most often used for heat detection with fireplace with a water jacket

temperature sensor

item code

100006

Quartermaster controller - one of the control options





Hydraulic Armature – Economic version



SHE 28 kW Low loss header







measuring pipe

item code 401028



profile



SKE 2DC+ Condens 35 kW





Elterm- the widest choice of electric boilers

Top seller Colonel





Only here! Integrated boiler with hot water heater

Ensign and Lieutenant

4 x PV Ready















Some of investments using our electric boilers

