

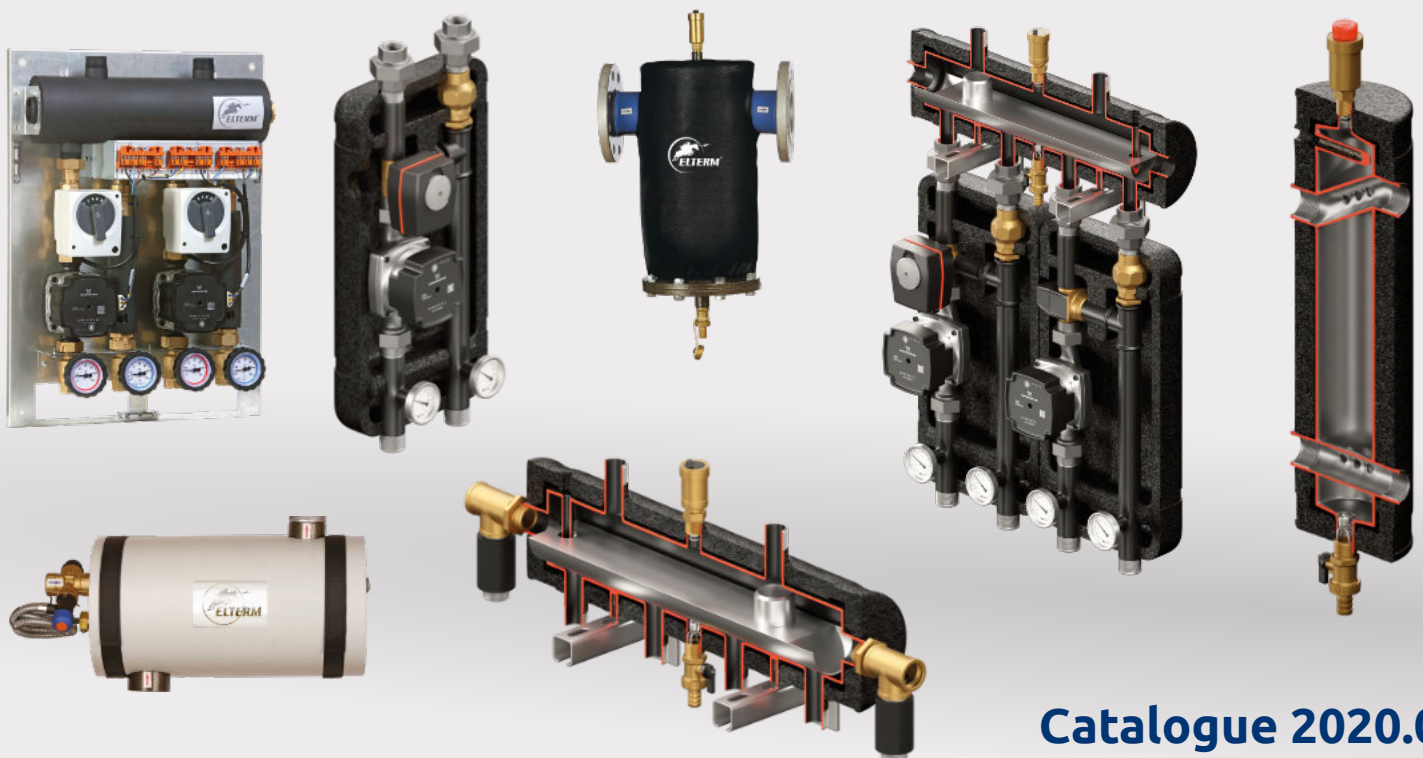


Grzejemy jak Kawaleria®

Electric heating boilers PV ready



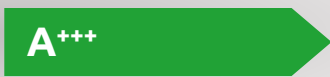
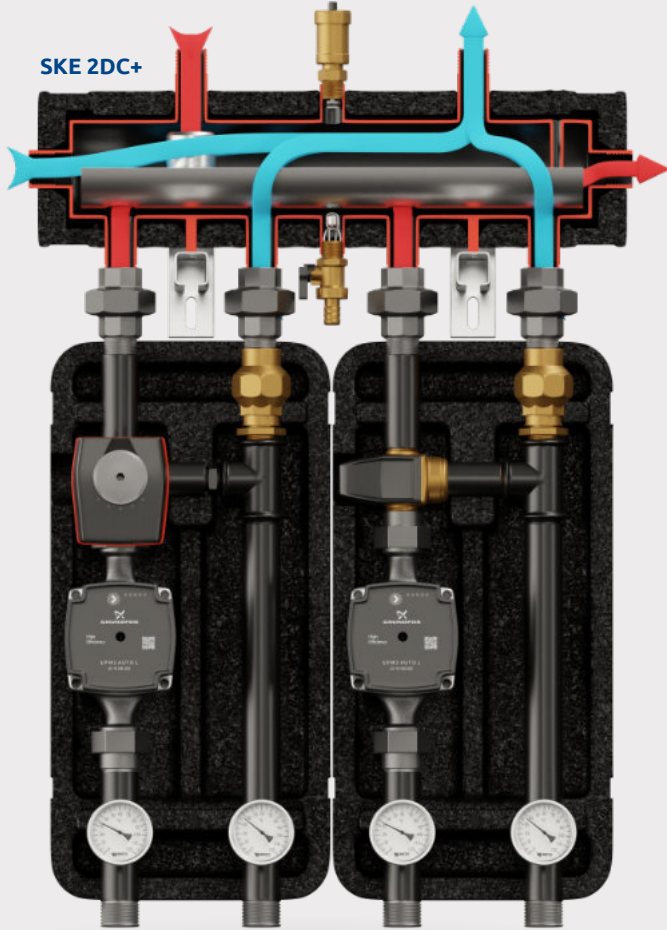
Hydraulic armature



Catalogue 2020.09

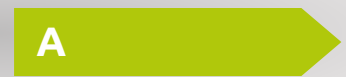
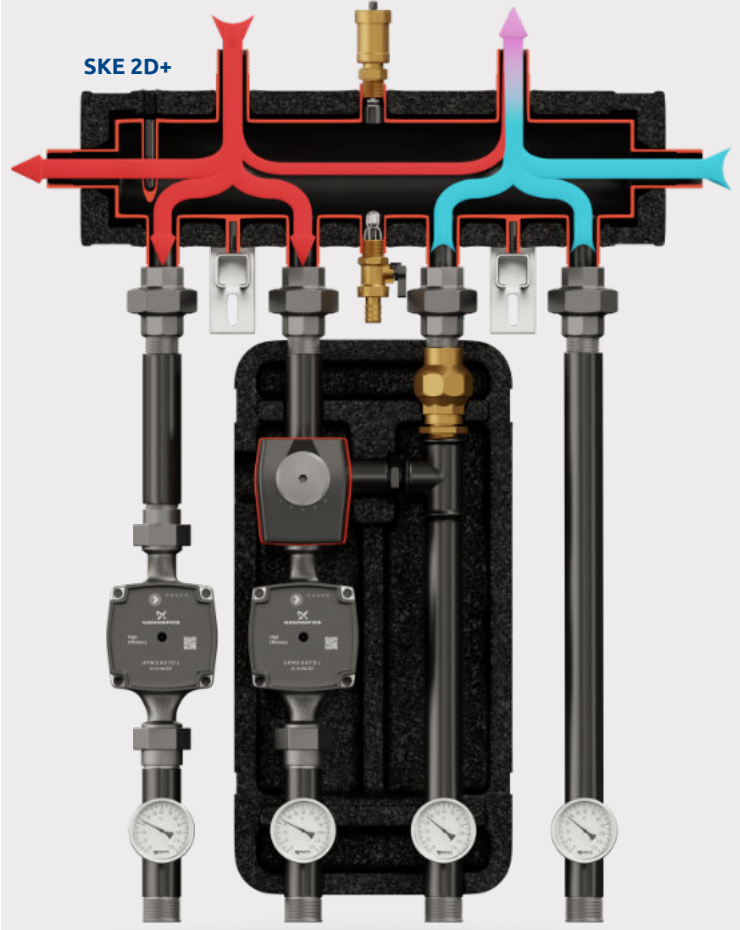
Built-in flow steering

- wide range of pump groups configuration
- no possibility of hot water return to heating source

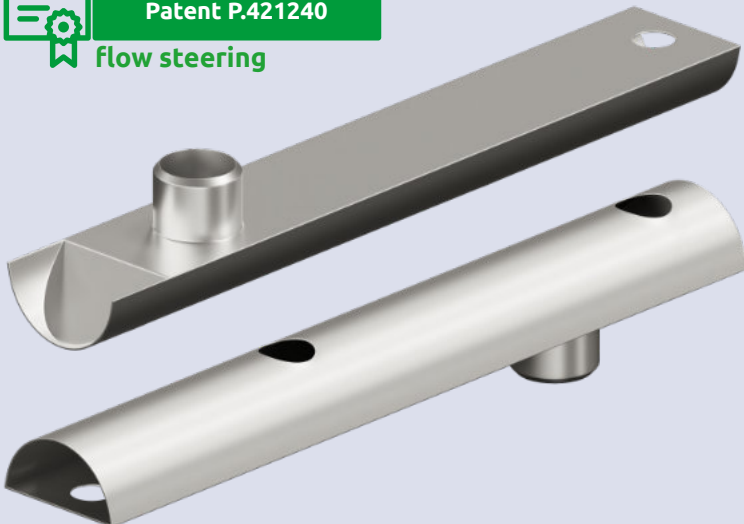


No flow steering

- limited range of pump groups configuration
- partial hot water return to heating source



Patent P.421240
flow steering



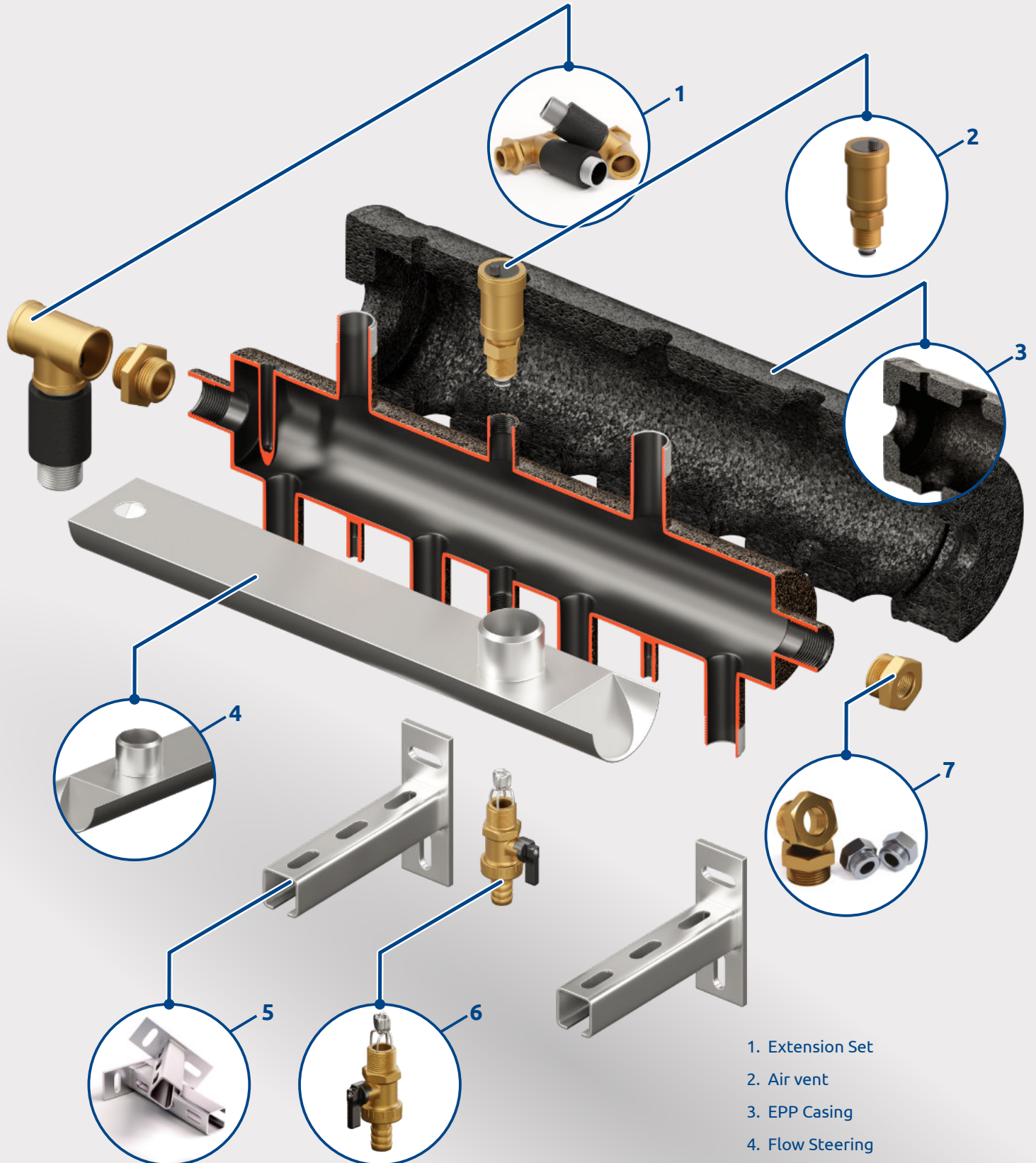
The most technically advanced Distribution Low loss header in Poland

- Keeps high efficiency of condensing boiler and heat pump
- Minimize return of hot water directly to heating source
- Guarantees equal uptake of hot water by pump groups
- Possibility of assembly couple pump groups with any mixing valve

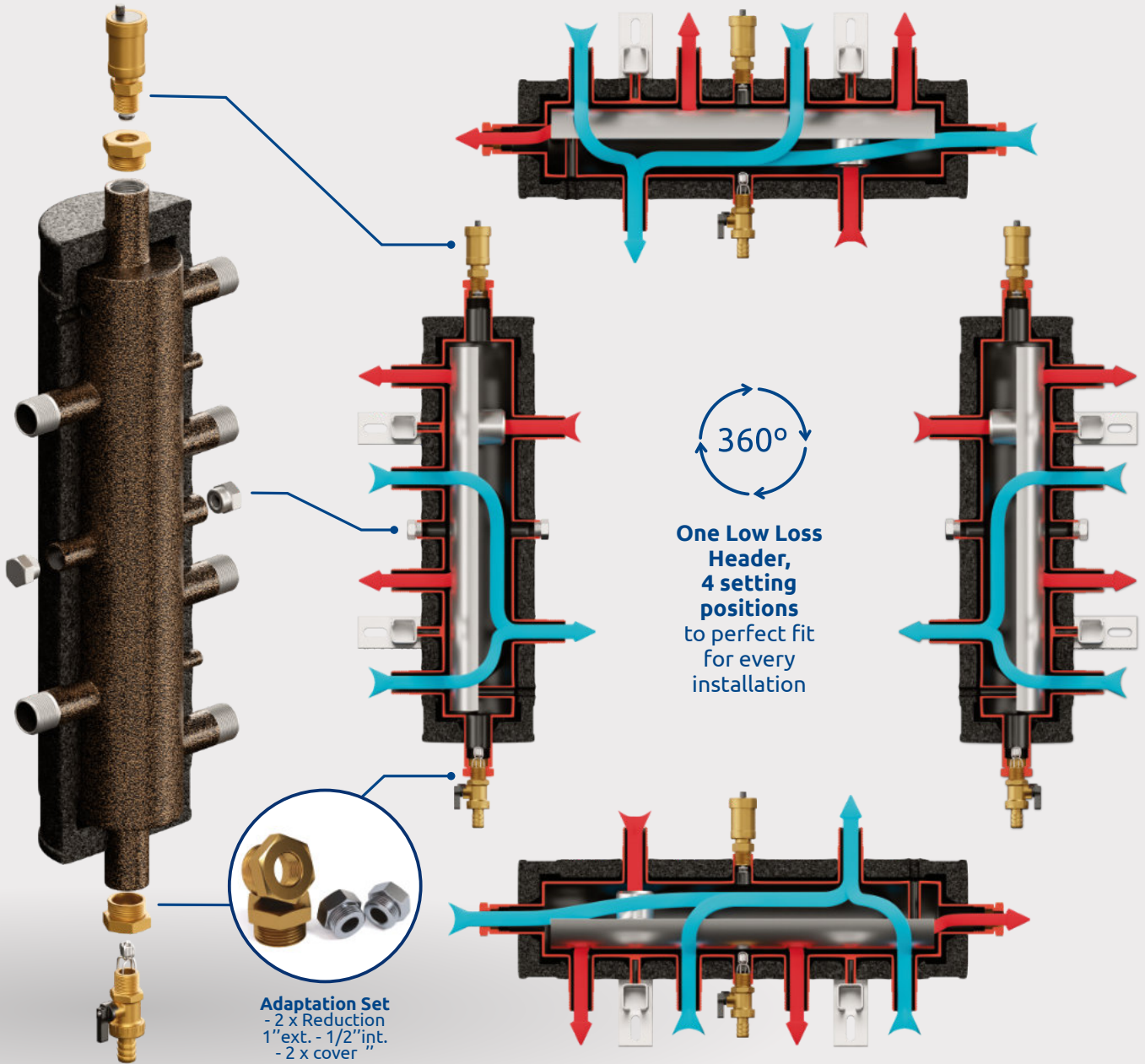


Patent P.421240

flow steering

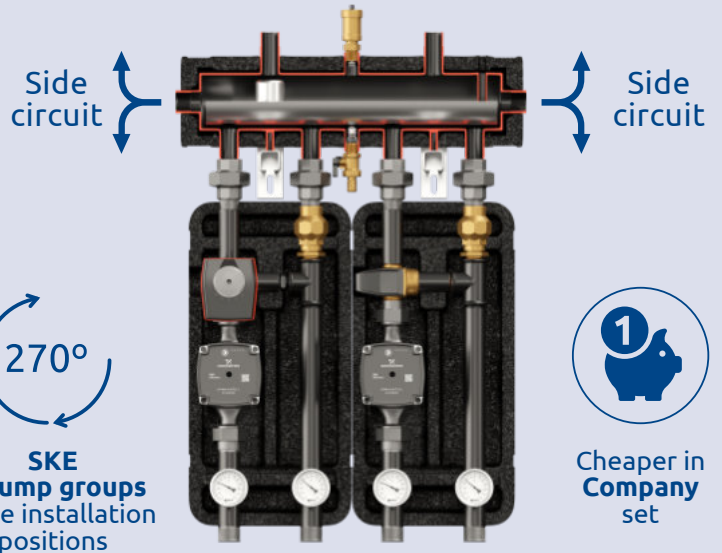
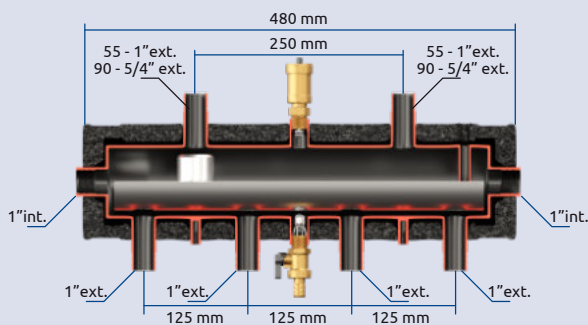


1. Extension Set
2. Air vent
3. EPP Casing
4. Flow Steering
5. Assembly Set
6. SMART Magnetic Separator
7. Adaptation Set



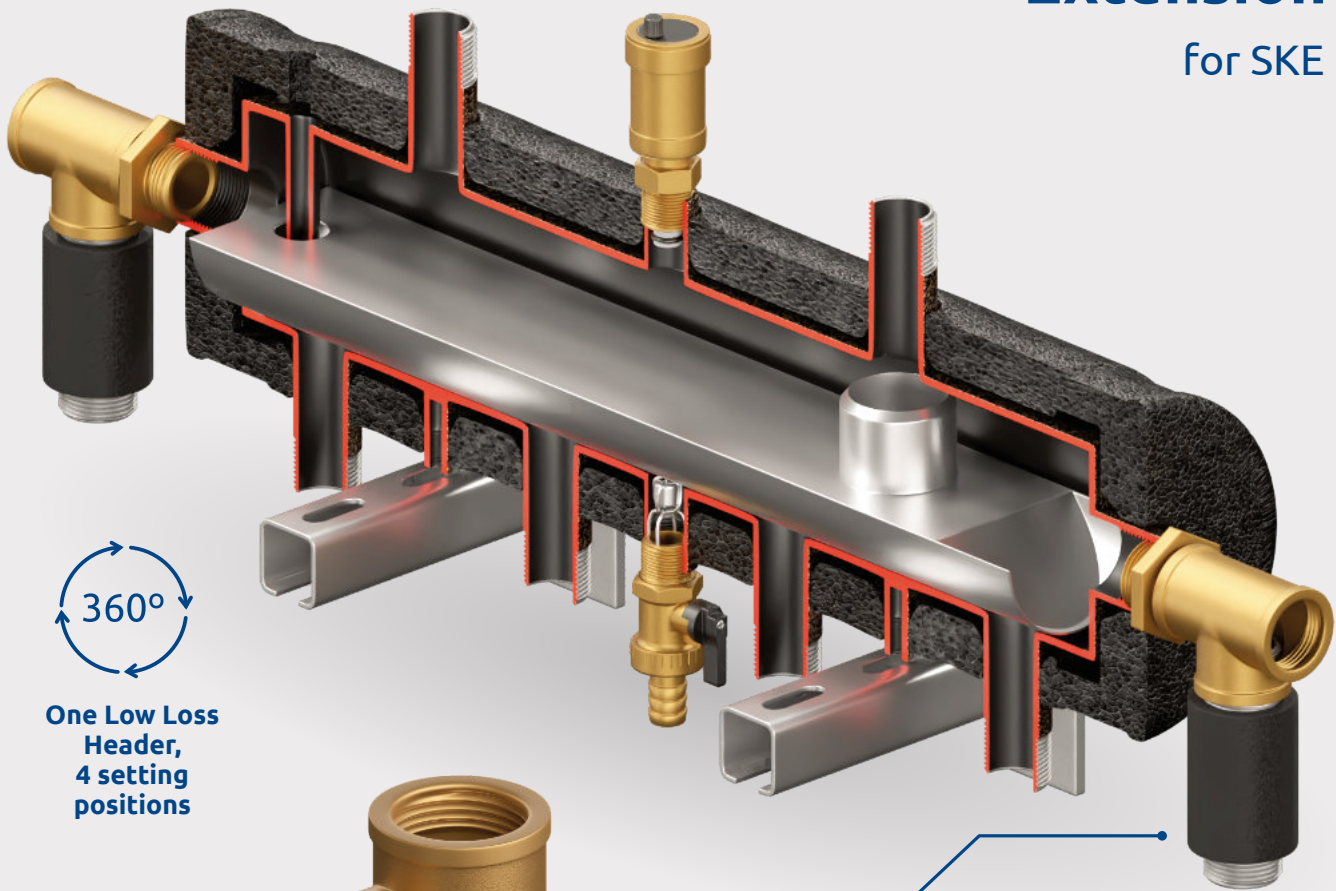
Included in SKE 2DC+ Condens price

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



Extension set

for SKE 2DC+



One Low Loss Header, 4 setting positions

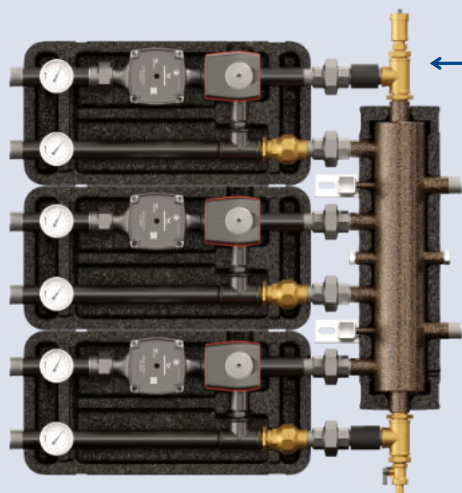


- three way adapter 1" (2 pcs)
- Nipple 1" (2 pcs)
- Pipe 1" (2 pcs)

Factory assembled

Extension set for SKE 2 DC +

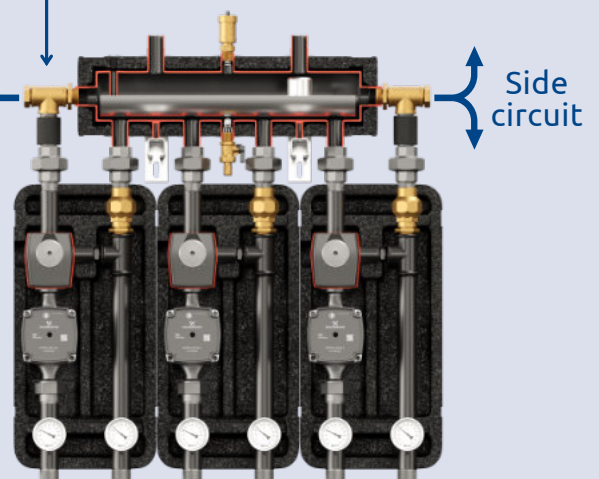
Item code 400001

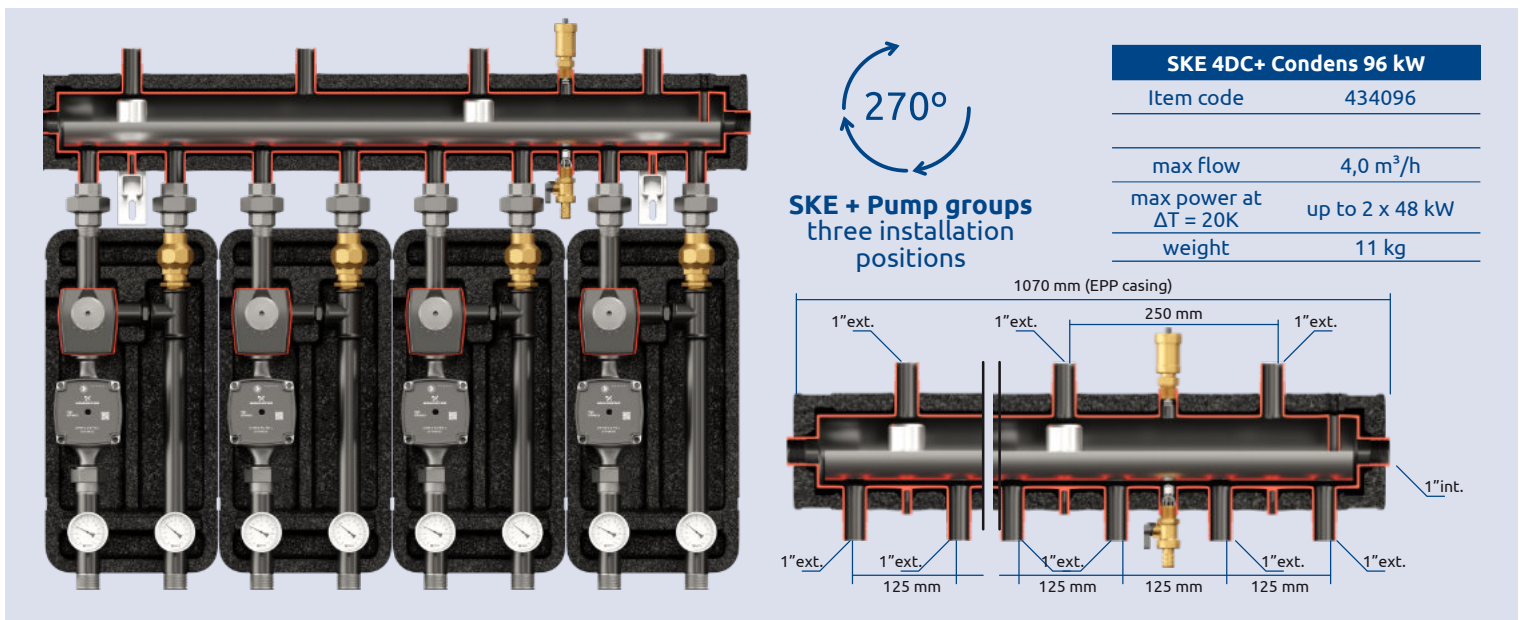
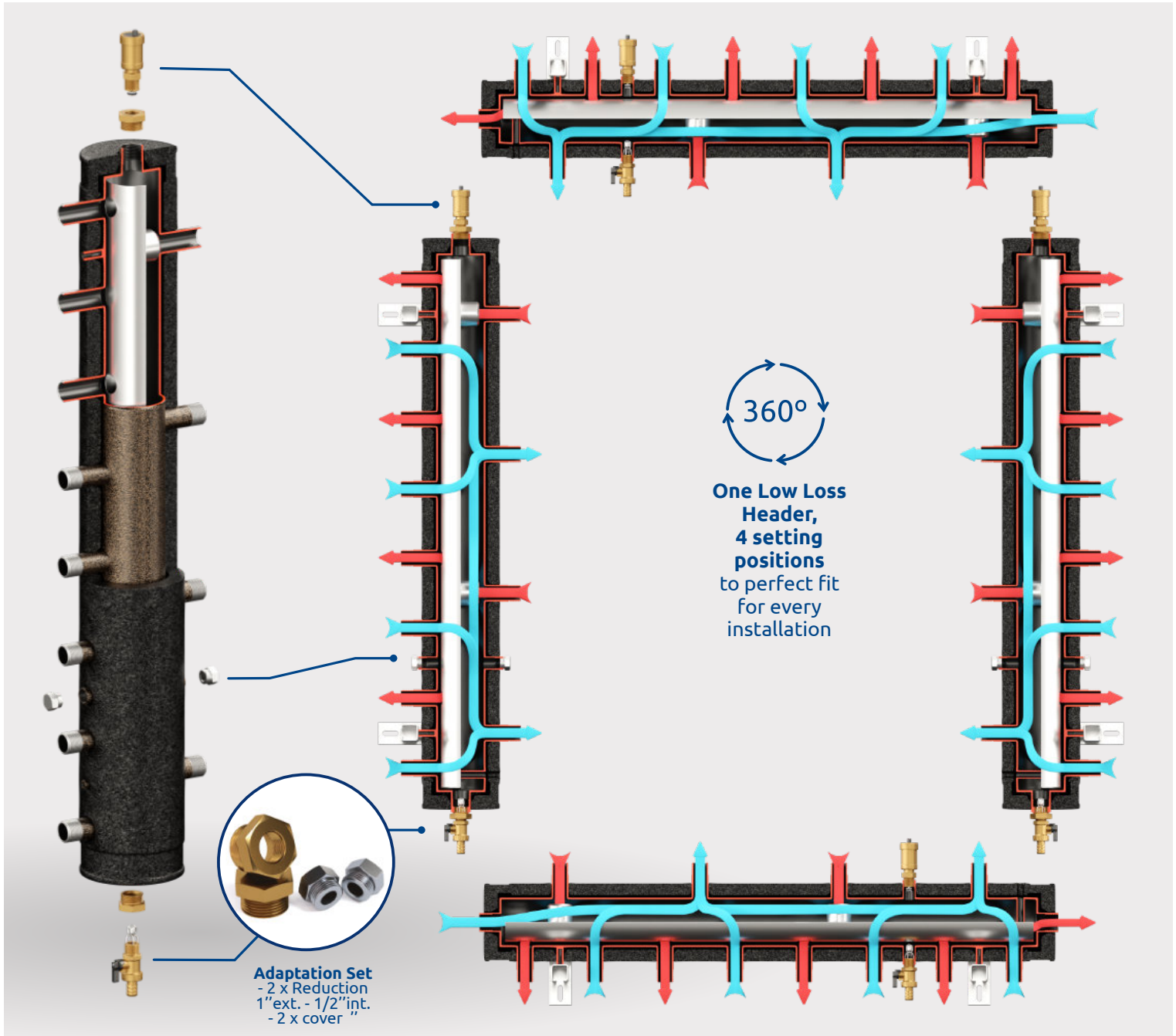


Side circuit



SKE + Pump groups three installation positions





Advanced automatics,

allows to control two sources of heat and circuits for CH, DHW,
 and circulation without necessity of adding additional expansion card,
 - CH boilers, heat pump basic automatics

<p>OPTIONALLY</p> <p>wired room temp. controlling</p>	<p>INCLUDED</p> <p>wired weather compensation</p>	<p>Quartermaster controller</p> <p>Item code 811246</p>	<p>Module + mobile app</p> <p>Item code 100004</p> <p>controls all functions by mobile phone</p>
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I heating source (max 48 kW)

Boiler return temp. protection e.g. ESBE VTC valve

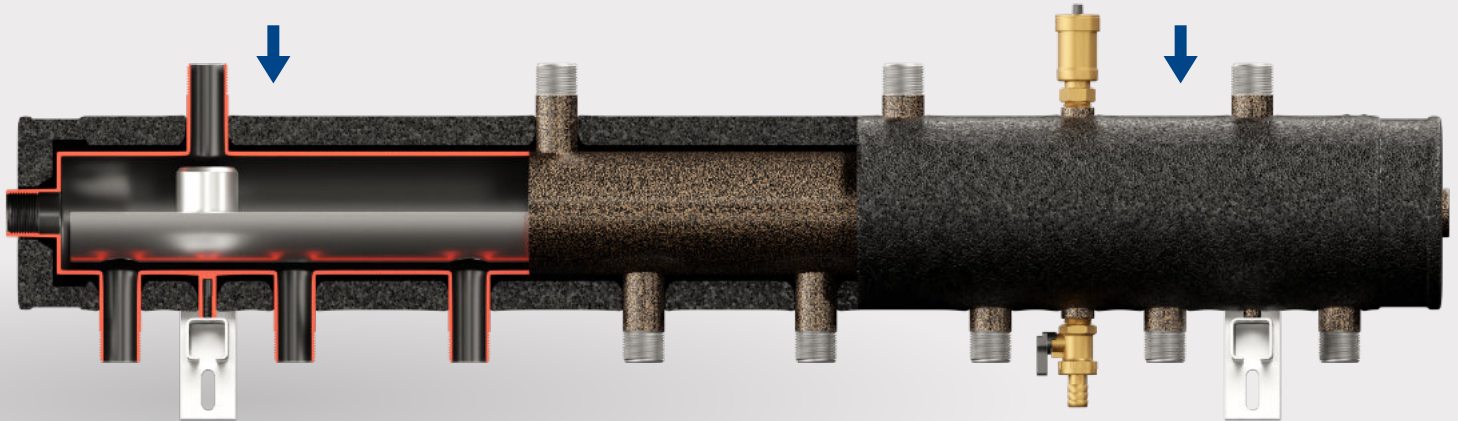
basic automatics

II heating source (max 48 kW)

Elterm electric heating boiler

PV friendly

basic automatics



Distribution low loss header SKE 4DC+ 96 kW for 2 heating sources and 4 pump groups

Additional features of Quartermaster controller

<ul style="list-style-type: none"> - Controls max 3 actuators 3 point 230V - Controls 3 CH pumps - 3 independent CH circuits programs. - 3 temperature sensors 		<ol style="list-style-type: none"> 1. Controls DHW pump + weekly controller 2. Controls circulation pump + weekly program + impulse heat supply – circulation circuit 	
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Advanced automatics,

allows to control two sources of heat and circuits for CH, DHW.
 and circulation without necessity of adding additional expansion card,
 - CH boilers, heat pump basic automatics

<p>OPTIONALLY</p> <p>wired room temp. controlling</p>	<p>INCLUDED</p> <p>wired weather compensation</p>	<p>Quartermaster controller</p> <p>Item code 811246</p>	<p>Module + mobile app</p> <p>Item code 100004</p> <p>controls all functions by mobile phone</p>
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Boiler return temp. protection e.g. ESBE VTC valve

basic automatics

Elterm electric heating boiler

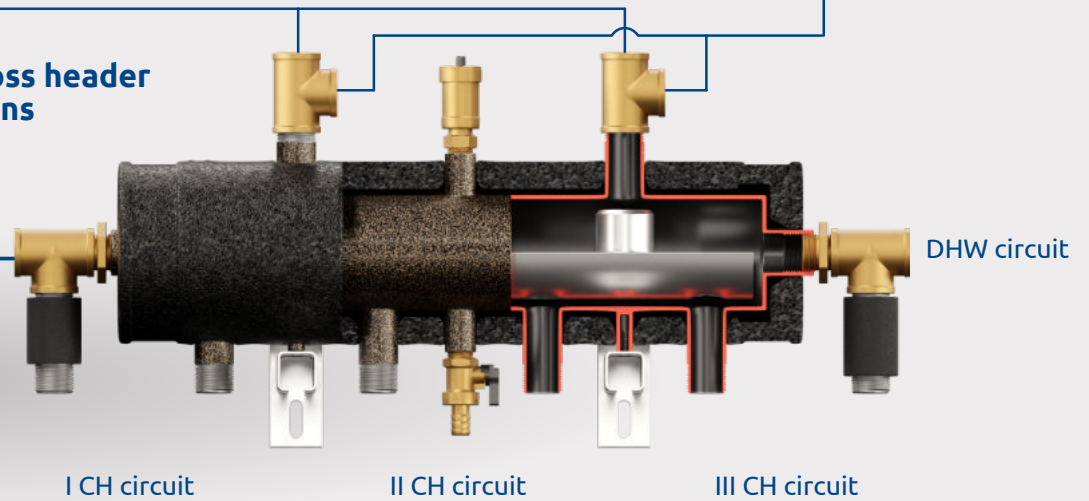
PV ready

basic automatics

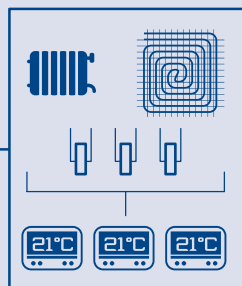
Distribution low loss header SKE Condens



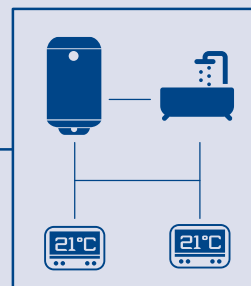
Extension set



Additional features of Quartermaster controller

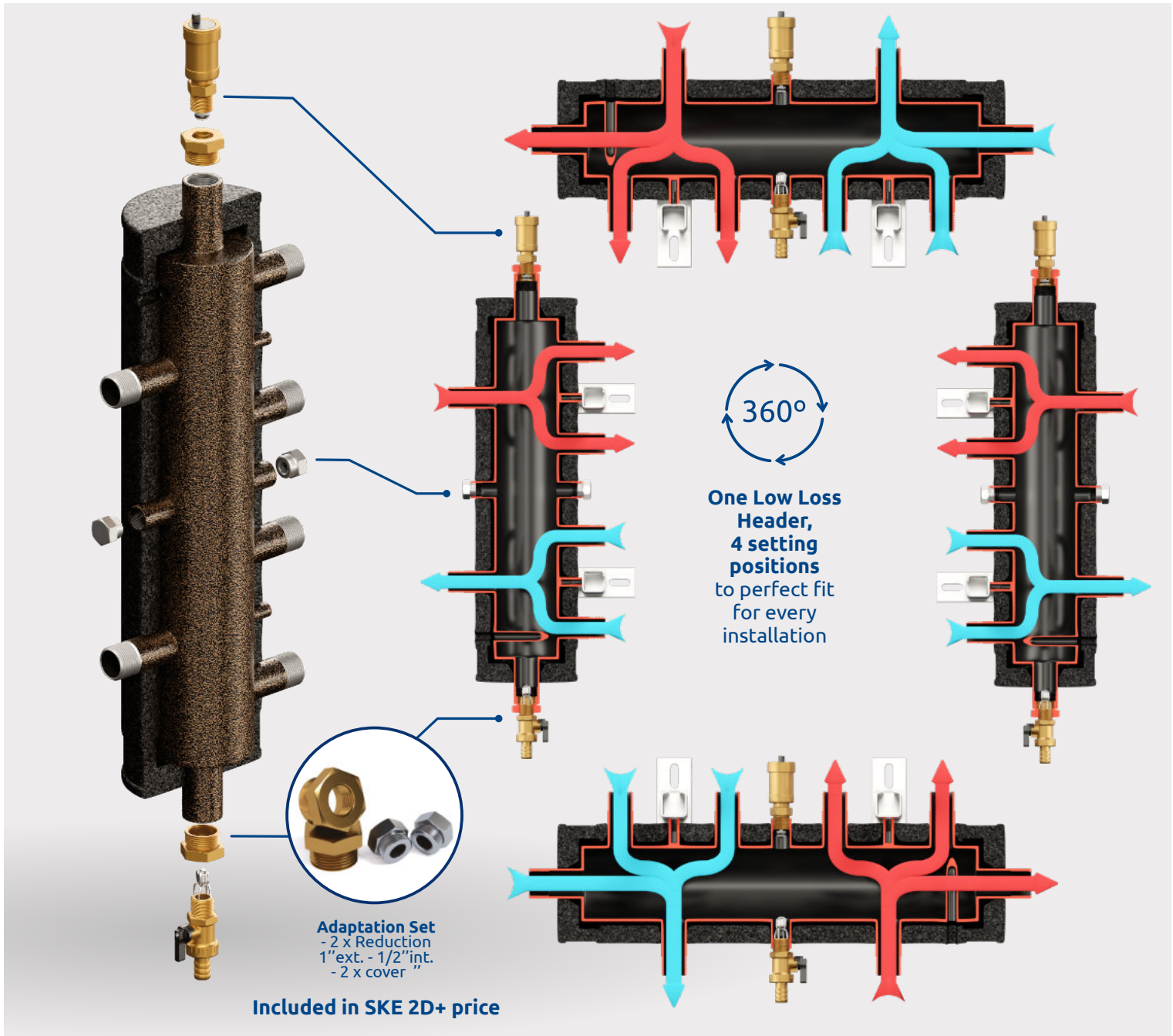


- Controls max 3 actuators 3 point 230V
- Controls 3 CH pumps
- 3 independent CH circuits programs.
- 3 temperature sensors



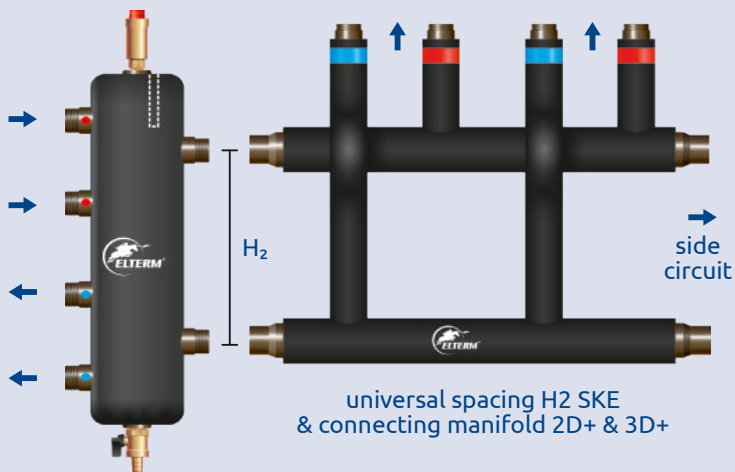
1. Controls DHW pump + weekly controller
2. Controls circulatorion pump +weekly program+ impulse heat supply – circulation circuit





Variant II

**vertical version
for 2 heating sources
+ connecting manifold**



manifold
can be
rotated by

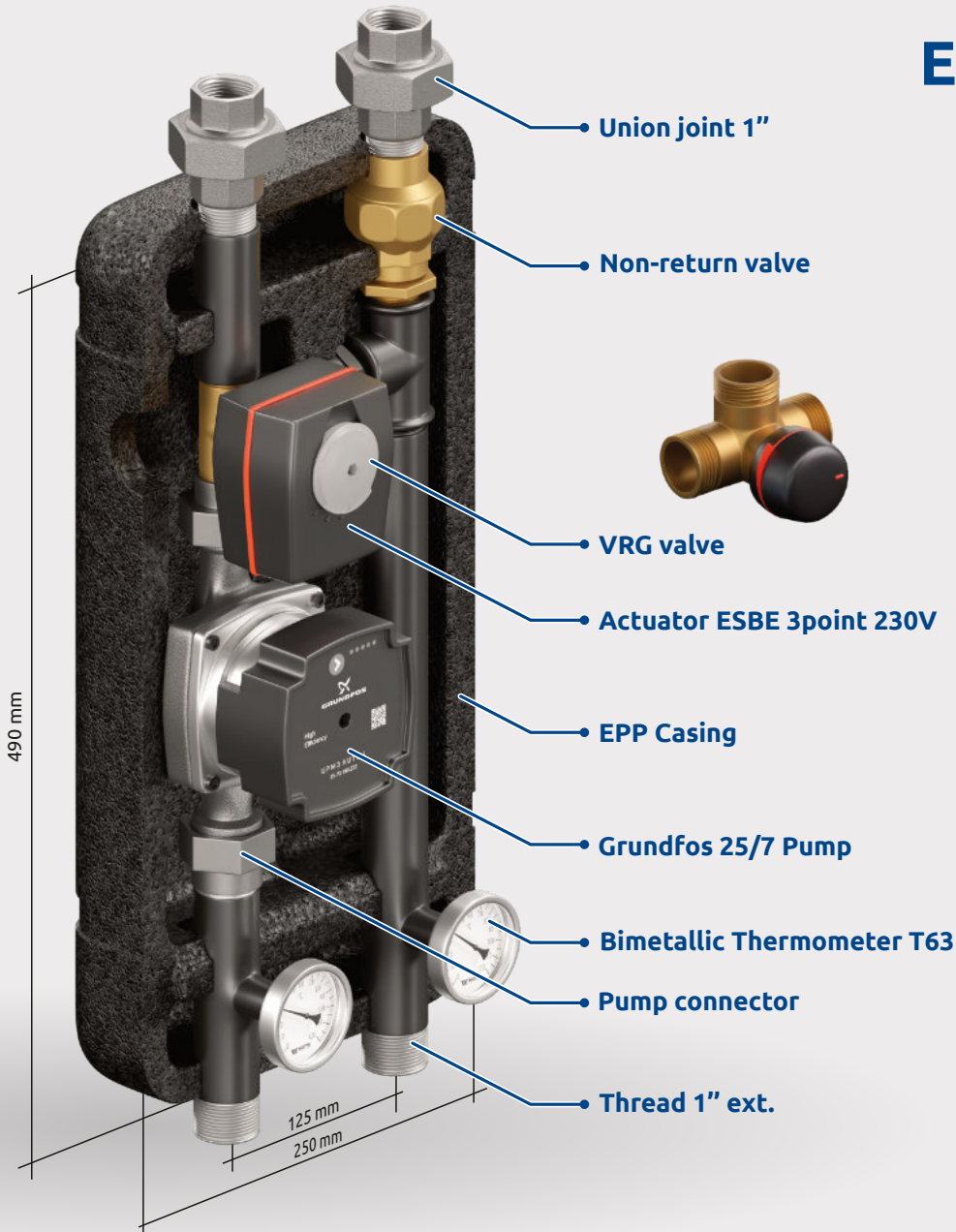


SKE 2D+ 40 kW	
Item code	412040
max flow	2,3 m ³ /h
max power at $\Delta T = 15K$	up to 40 kW

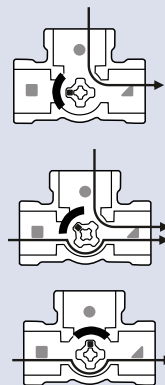
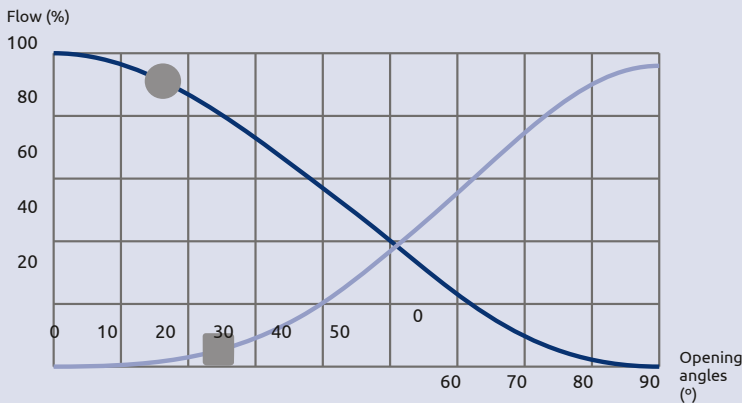
Valve ESBE VRG 432

PROGRESSIVE
Kvs up to 8.0

replaces VRG valves
with Kvs from
2,5 up to 6,3 m³/h



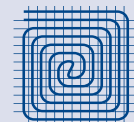
Valve characteristic



ESBE VRG 432 1"
Kvs up to 8,0



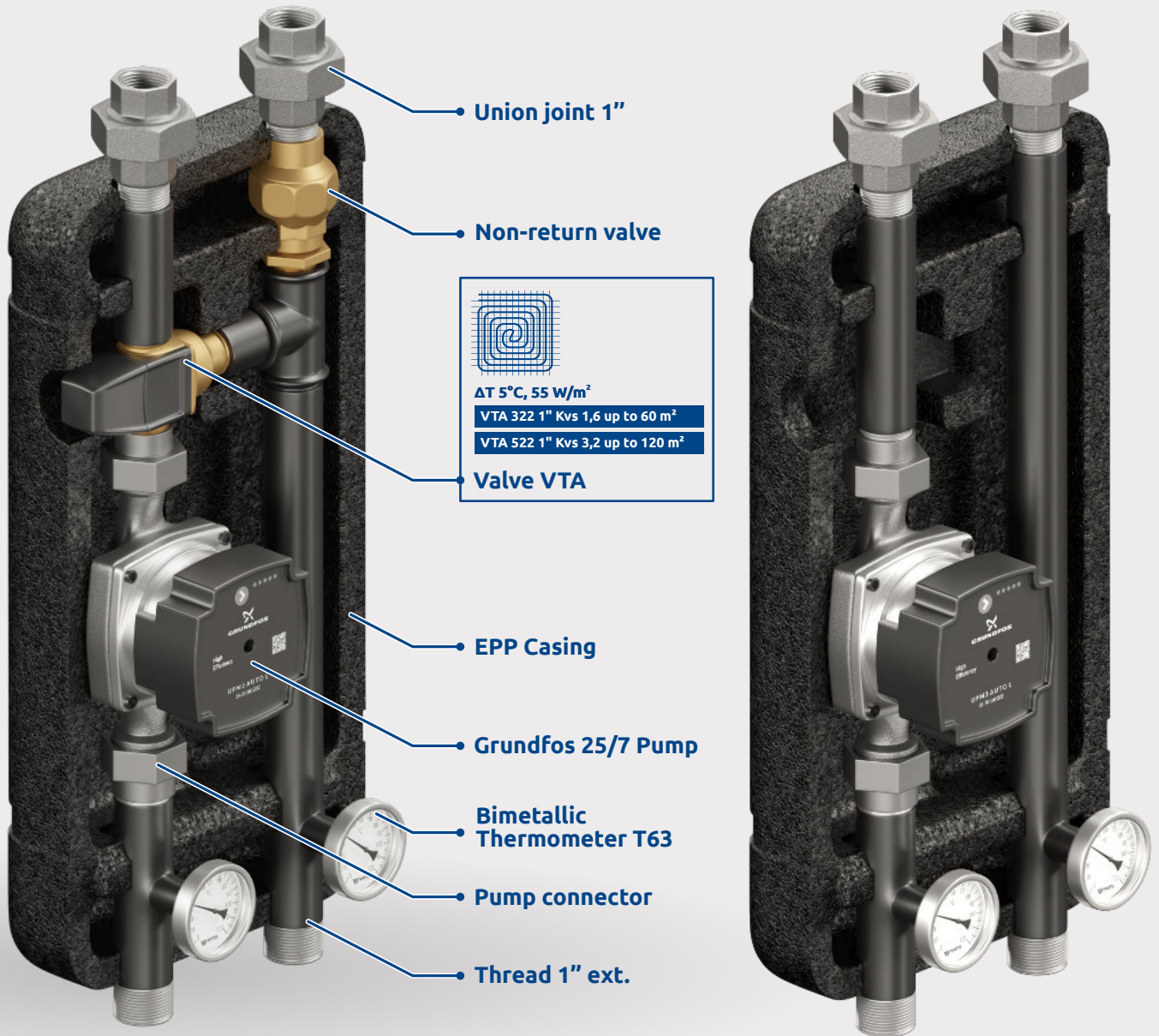
up to 50kW
 ΔT 15°C



up to 280 m²
 ΔT 5°C, 55 W/m²

Valve ESBE VTA

Universal



Grundfos 25/7 pump



rotary valve VRG 432



mixing valve VTA 522



Watts Thermostat



non-return valve



Thread 1"



ESBE actuator for VRG valve

item code

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	YES		625000
Universal	YES		YES	YES	YES		625070

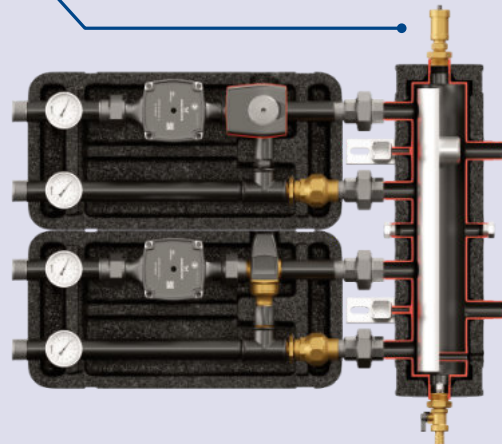
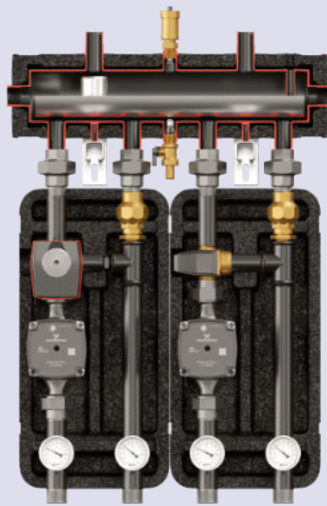
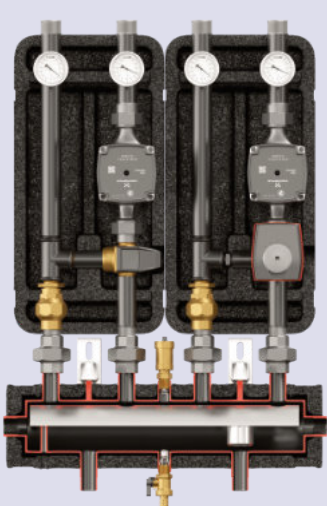
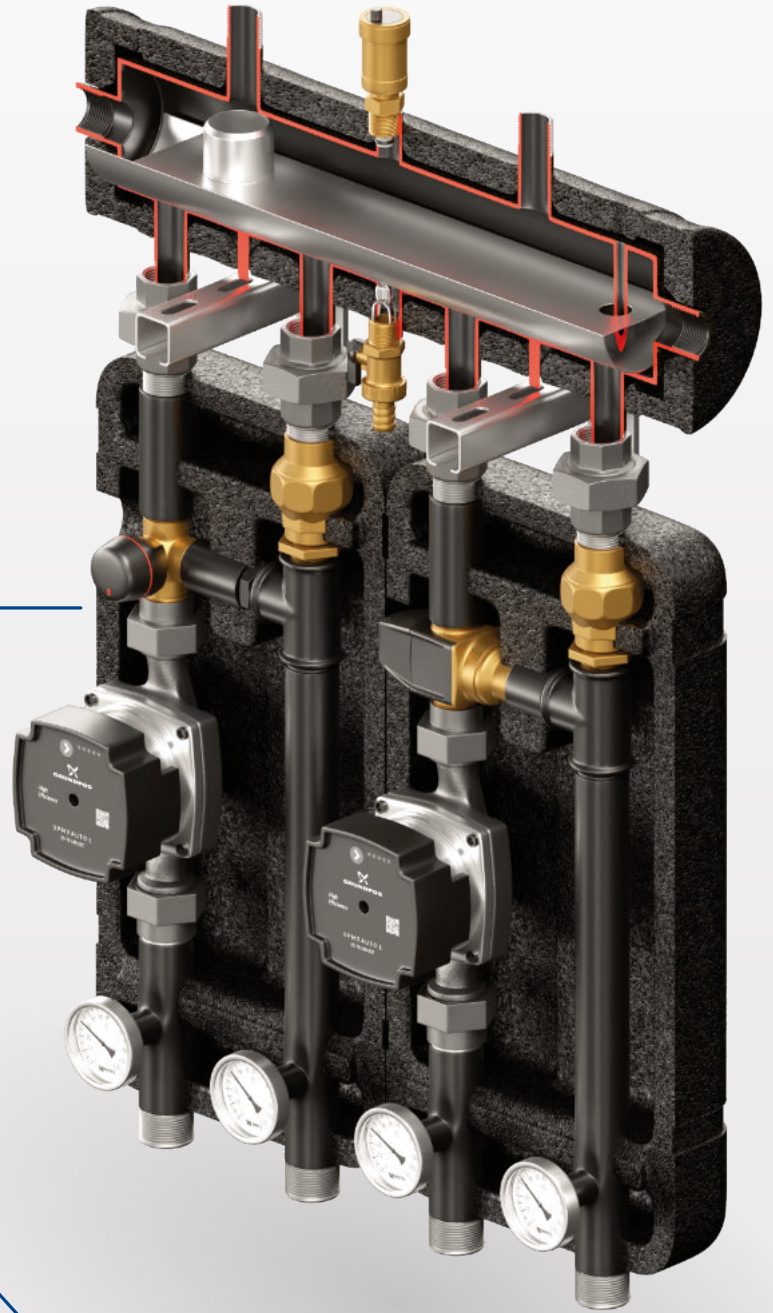
ESBE VRG 432 Progressive valve FOR COMPANY SET



Compatible with actuator
ARA ESBE



Adaptation Set
- 2 x Reduction
1" ext. - 1/2" int.
- 2 x cover "



SKE
+ pump group,
three setting
positions



Grundfos
25/7 pumps



rotary valve
VRG 432



mixing valve
VTA 322



mixing valve
VTA 522



Watts
Thermostat



non-return
valve

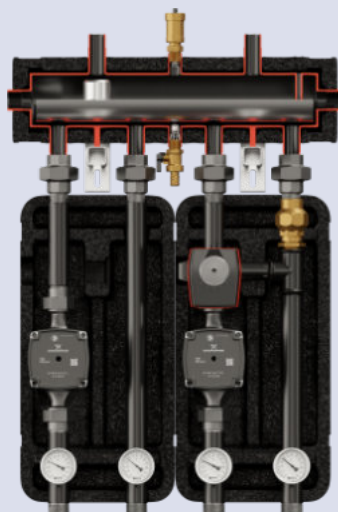


ESBE actuator
for VRG valve

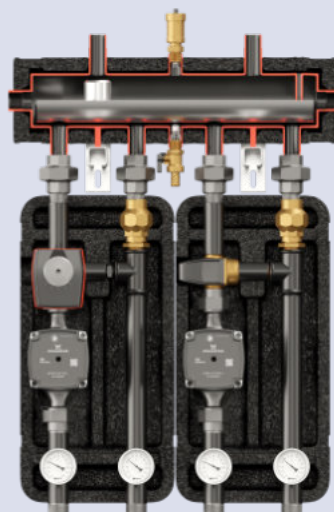
item
code

UNI + UNI				YES				855000
UNI + UNI	YES			YES				855070
UNI + VRG		YES		YES	YES			855400
UNI + VRG	YES	YES		YES	YES			855470
UNI + VRG		YES		YES	YES	YES		855410
UNI + VRG	YES	YES		YES	YES	YES		855480
UNI + VTA			YES	YES	YES			855300
UNI + VTA	YES		YES	YES	YES			855370
UNI + VTA				YES	YES	YES		855500
UNI + VTA	YES			YES	YES	YES		855570
VTA + VTA			YES x2	YES	YES			855303
VTA + VTA	YES		YES x2	YES	YES			855373
VTA + VTA				YES x2	YES	YES		855505
VTA + VTA	YES			YES x2	YES	YES		855575
VTA + VTA			YES	YES	YES	YES		855305
VTA + VTA	YES		YES	YES	YES	YES		855375
VRG + VTA		YES	YES	YES	YES			855304
VRG + VTA	YES	YES	YES	YES	YES			855374
VRG + VTA		YES	YES	YES	YES	YES		855314
VRG + VTA	YES	YES	YES	YES	YES	YES		855384
VRG + VTA		YES		YES	YES	YES		855504
VRG + VTA	YES	YES		YES	YES	YES		855574
VRG + VTA		YES		YES	YES	YES	YES	855514
VRG + VTA	YES	YES		YES	YES	YES	YES	855584
VRG + VRG		YES x2		YES	YES			855404
VRG + VRG	YES	YES x2		YES	YES			855474
VRG + VRG		YES x2		YES	YES	YES		855414
VRG + VRG	YES	YES x2		YES	YES	YES		855484

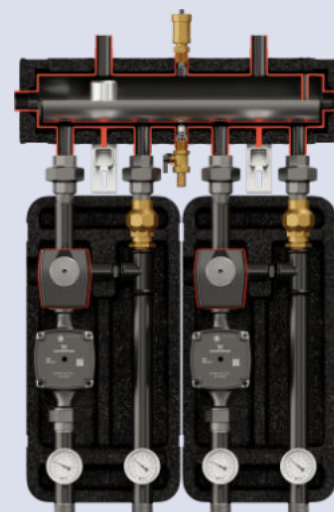
Pump group UNI + VRG

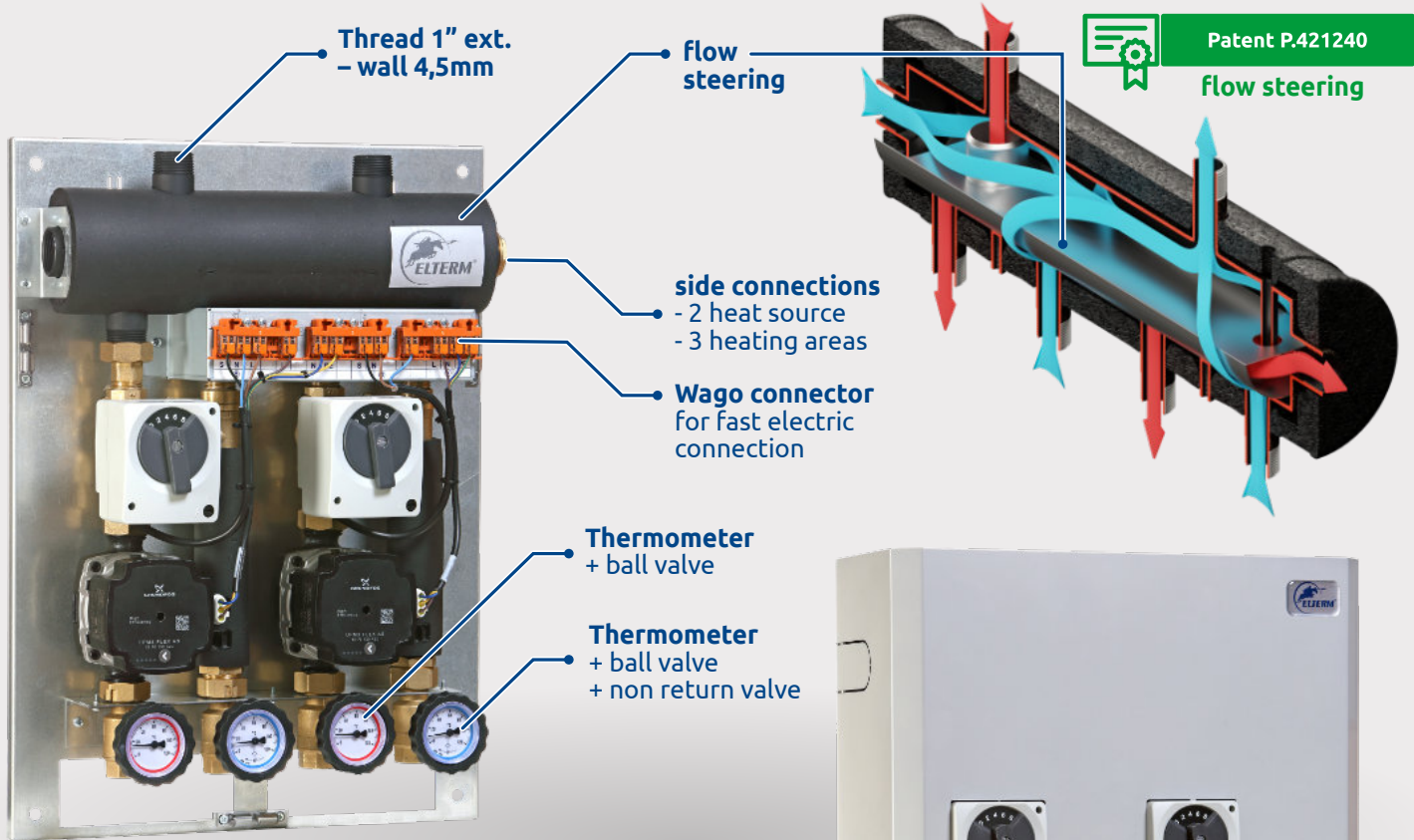


Pump group VRG + VTA



Pump group VRG + VRG





set for **A**
A 6 combination
 advantages

360°
 360° Company
 set four position
 of installation



Four positions of installation of Squadron Set thanks to patented flow steering

- to work with any kind of heat source



Boiler return temp. protection e.g. ESBE VTC





SQUADRON 070
 (SKE 2DC+ 35kW, 2xUNI, pumps DN15)
item code 08 35 070



SQUADRON 370
 (SKE 2DC+ 35kW, UNI, thermostatic mixing
 valve pumps DN15)
item code 08 35 370



SQUADRON 373
 (SKE 2DC+ 35kW, UNI, 2x thermostatic
 mixing valve pumps DN15)
item code 08 35 373



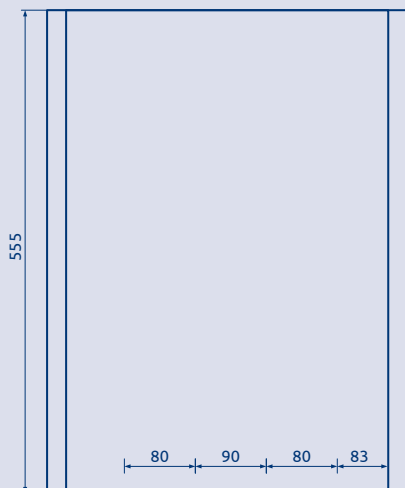
SQUADRON 384
 (SKE 2DC+ 35kW, UNI, thermostatic mixing
 valve with rotating actuator, pumps DN15)
item code 08 35 384



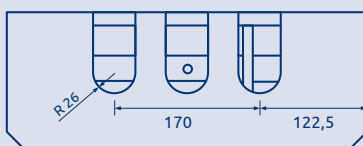
SQUADRON 480
 (SKE 2DC+ 35kW, UNI, rotating valve
 with actuator, pumps DN15)
item code 08 35 480



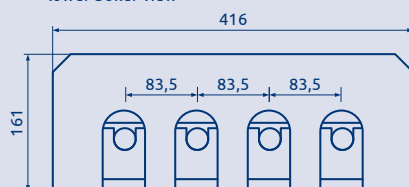
SQUADRON 484
 (SKE 2DC+ 35kW, 2X rotating valve
 with actuator, pumps DN15)
item code 08 35 484



upper boiler view



lower boiler view



Technical data

maximum power	35 kW
valve with actuator	Kvs 6,3
thermostatic valve	Kvs 1,8 20-45 °C
electric pump	15-60, 130 mm
Max work temperature	5 - 95 °C
heat source connection	1" ext.
heating zones connections	3/4" int.



measuring pipe



air vent & drain valve



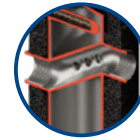
desilting comb



insulation



SMART



flow steering

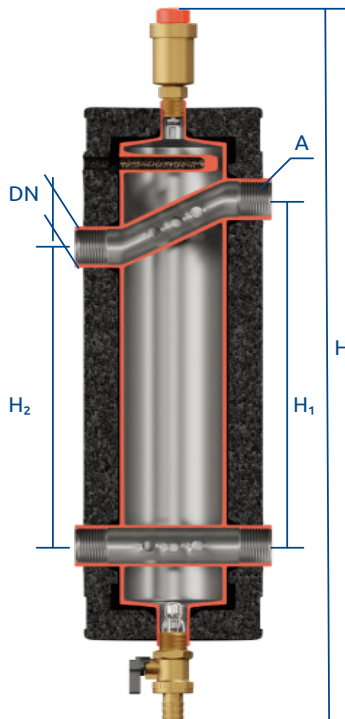


INOX stainless steel

SHE-CDI



SHE-CD



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

	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

connection (DN) A	25-1" int.	32 1¼"int.	40 1½"ext.	50 - 2"ext.	50 - 2"ext.
max. Flow	2,3 m³/h	4,0 m³/h	5,7m³/h	6,6 m3/h	9,0 m3/h
max. Temperature	110°C	110°C	110°C	110°C	110°C
nominal pressure	6 bar	6 bar	6 bar	6 bar	6 bar
capacity V	1,4 l	2,4 l	3,7 l	4,3 l	6,7 l
P x V (bar x l)	8,4	14,4	22,2	25,8	40,2
H ₁	290 mm	340 mm	340 mm	400 mm	400 mm
H ₂	250 mm	300 mm	300 mm	350 mm	350 mm
H _c	600 mm	670 mm	670 mm	745 mm	745 mm



	SHE-CD 300 65/150	SHE-CD 560 32/80
item code	403300	403560
max. Power (ΔT=15K)	300 kW	560 kW
flange DN (PN 16)	65-2½"	80-3"
max. Flow	12,9 m³/h	24,0 m³/h
max. Temperature	110°C	110°C
nominal pressure	6 bar	6 bar
capacity V	13,0 l	27,5 l
P x V (bar x l)	78,0	165,0
H ₁	565 mm	680 mm
H ₂	500 mm	600 mm
H _c	~915 mm	~1055 mm



measuring pipe



air vent & drain valve



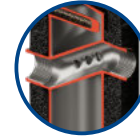
desilting comb



insulation



SMART

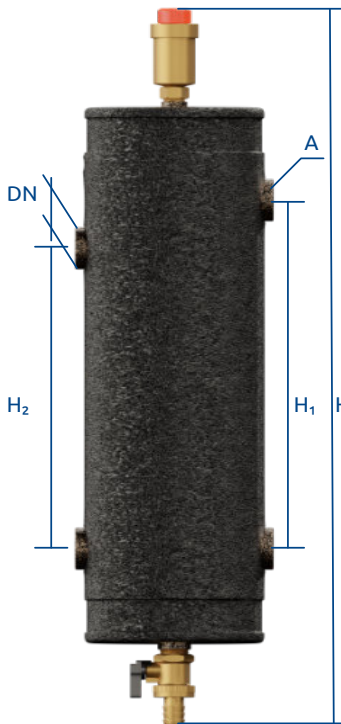


flow steering



INOX
stainless steel

SHE-SM	●	●	●	●	●	○	○
SHE-OC	●	●	●	●	○	○	○
SHE	●	●	●	○	○	○	○



	SHE 40-SM 25/65	SHE 70-SM 32/80	SHE 100-SM 40/100	SHE 115-SM 50/100	SHE 156-SM 50/125
item code	492040	492070	492100	492115	492156

	SHE 28-OC 25/50	SHE 40-OC 25/65	SHE 70-OC 32/80	SHE 100-OC 40/100	SHE 115-OC 50/100	SHE 156-OC 50/125
item code	402028	402040	402070	402100	402115	402156

	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

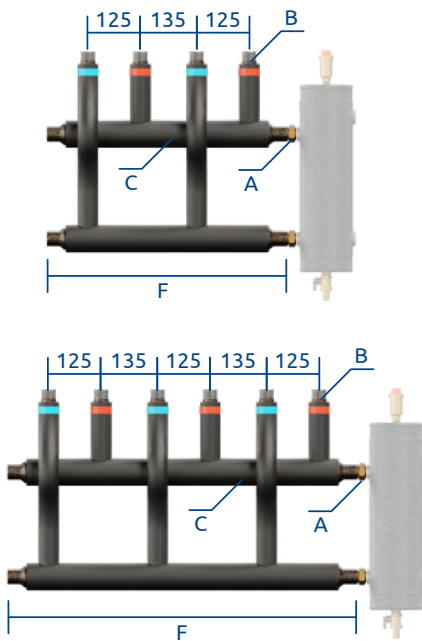
max. Power (ΔT=15K)	28 kW	40 kW	70 kW	100 kW	115 kW	156 kW
max. Power (ΔT=20K)	35 kW	55 kW	90 kW	135 kW	150 kW	210 kW
connection (DN) A	25 - 1 "int.	25 1 "int.	32 1 1/4"int.	40— 1 1/2"ext.	50 2"ext.	50 2"ext.
max. Flow	1,6 m ³ /h	2,3 m ³ /h	4,0 m ³ /h	5,7 m ³ /h	6,6 m ³ /h	9,0 m ³ /h
max. Temperature	110°C	110°C	110°C	110°C	110°C	110°C
nominal pressure	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
capacity V	0,7 l	1,4 l	2,4 l	3,7 l	4,3 l	6,7 l
P x V (bar x l)	4,2	8,4	14,4	22,2	25,8	40,2
H ₁	250 mm	290 mm	340 mm	340 mm	400 mm	400 mm
H ₂	220 mm	250 mm	300 mm	300 mm	350 mm	350 mm
H _c	570 mm	600 mm	670 mm	670 mm	745 mm	745 mm



	SHE 225-OC 65/150	SHE 420-OC 80/200	SHE 435-OC 100/200	SHE 700-OC 100/250	SHE 750-OC 125/250
item code	402225	402420	402435	402700	402750
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)	65-2 1/2"	80-3"	100-4"	100-4"	125-5"
max. Flow	12,9 m ³ /h	24,0 m ³ /h	25,2 m ³ /h	39,0 m ³ /h	41,5 m ³ /h
max. Temperature	110°C	110°C	110°C	110°C	110°C
nominal pressure	6 bar	6 bar	6 bar	3 bar	3 bar
capacity V	13,0 l	27,5 l	32,4 l	50,6 l	50,6 l
P x V (bar x l)	78,0	165,0	194,4	151,8	151,8
H ₁	565 mm	680 mm	650 mm	650 mm	650 mm
H ₂	500 mm	600 mm	550 mm	550 mm	550 mm
H _c	~915 mm	~1055 mm	~1210 mm	~1210 mm	~1210 mm

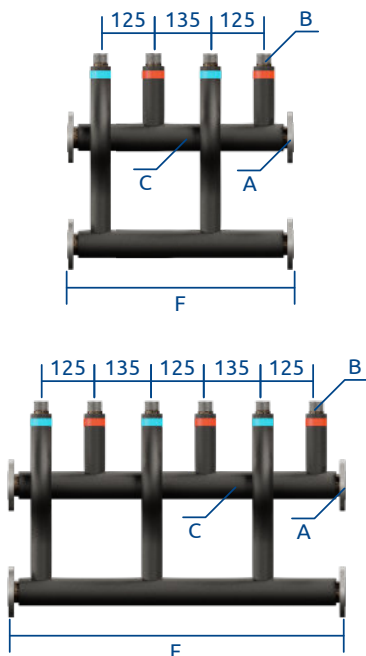
B=1" B=5/4"

Manifolds can be rotated by 180°



B=5/4"

Manifolds can be rotated by 180°



For SHE-CD/CDI	55 kW	90 kW	135 kW	150 kW	210 kW
For SHE SM/OC	40/55 kW	70/90 kW	100/135 kW	115/150 kW	115/210 kW
For SHE	40/55 kW	70/90 kW	100/135 kW	115/150 kW	115/210 kW

B=1" Connecting manifolds 2-way 2D+(2 upper connections + 1 side connection)					
item code	512040	512070	512100	512115	512156
solar casing	yes	yes	yes	yes	yes

item code	502040	502070	502100	502115	502156
solar casing	no	no	no	no	no
dimension F (mm)	605	605	525	615	615

B=1" Connecting manifolds 3-way 3D+(3 upper connections + 1 side connection)					
item code	513040	513070	513100	05 13115	513156
solar casing	yes	yes	yes	yes	yes

item code	503040	503070	503100	503115	503156
solar casing	no	no	no	no	no
dimension F (mm)	865	865	785	880	880
connection DN A	25 - 1" int.	32 1/4" int.	40 - 1/2" ext.	50 - 2" ext.	50 2" ext.
connection DN - B	25 - 1" ext.	25 - 1" ext.	25 - 1" ext.	25 - 1" ext.	25 - 1" ext.
main pipe DN - C	40 - 1/2"	40 - 1/2"	40 - 1/2"	50 - 2"	50 - 2"

B=5/4" Connecting manifolds 2-way 2D+(2 upper connections + 1 side connection)					
item code				562115	562156
solar casing				yes	yes

item code				552115	552156
solar casing				no	no
connection DN-B				32 - 1/4" ext.	32 - 1/4" ext.

B=5/4" Connecting manifolds 3-way 3D+(3 upper connections + 1 side connection)					
item code				563115	563156
solar casing				yes	yes

item code				553115	553156
solar casing				no	no
connection DN A				50 - 2" ext.	50 - 2" ext.
connection DN - B				32 1/4" ext.	32 - 1/4" ext.
main pipe DN - C				50 - 2"	50 - 2"

for SHE-CD	300 kW	560 kW			
for SHE OC	225/300 kW	420/560 kW	435/580 kW	700/935 kW	750/1000 kW
for SHE	225/300 kW	420/560 kW			

B=5/4" Connecting manifolds 2-way 2D+(2 upper connections + 1 side connection)					
item code	562225	562420	562435	562700	562750
solar casing	yes	yes	yes	yes	yes

B=5/4" Connecting manifolds 3-way 3D+(3 upper connections + 1 side connection)					
item code	563225	563420	563435	563700	563750
solar casing	yes	yes	yes	yes	yes
flange PN 16-A	65 2 1/2"	80 - 3"	100 - 4"	100 - 4"	125 - 5"
connection DN - B	32 - 1/4" ext.	32 - 1/4" ext.	32 - 1/4" ext.	32 - 1/4" ext.	32 - 1/4" ext.
main pipe DN - C	65 2 1/2"	80 - 3"	100 - 4"	100 - 4"	125 - 5"

STANDARD EQUIPMENT OF EVERY ELTERM BOILER

<p>PV ready (details inside cover)</p>	<ul style="list-style-type: none"> • Build-in kWh countdown meter • energy consumption level setting • Stop heating • boiler work stoppage signal 	
<p>NO/NC contact 0V</p>	<p>NO/NC contact 0V- Elterm electric heating boiler can work with:</p> <ol style="list-style-type: none"> 1. Quartermaster controller 2. Any voltage free room temp. controller: ex Salus, Euroster, Auraton 3. Automatics of different heating source 	
<p>70°C 95°C</p>	<p>70°C Smooth CH water temperature regulation from 5°C up to 70°C (every 1°C)</p>	<p>95°C Smooth CH water temperature regulation from 5°C up to 70°C (every 1°C) Boilers for Industry and constant work: Hussar, Commander, Battalion, Division</p>

AUTOMATICS CHOICE

LED **Advanced LCD automatics**

- digital display
- signalization diodes

LCD **Advanced LCD automatics**

- graphic digit display
- text messages
- pictograms, actual condition of boiler work signalling
- weekly programmers: CH, DHW and circulation
- room temp. and weather compensation controlling

Boilers Sergeant, Major, Hussar and Battalion for DHW purpose cooperate with **Standard DHW set**.

Standard DHW set (option):
to work with tank with minimum 15 kW coil (tank is not included in price of set)

3-way electro valve + actuator
 tank temp. sensor
 DHW priority

Boilers Captain, Colonel, Commander and Division for DHW purpose cooperate with **Premium DHW set**.

Premium DHW set (option):
to work with tank with minimum 15 kW coil (tank is not included in price of set)

3-way electro valve + actuator
 tank temp. sensor
 DHW priority
 weekly programmer DHW
 weekly circulation programmer

Advanced LCD automatics has built-in two DHW programs activated after connecting Premium set

Ensign boiler for domestic hot water is equipped in flow water heater with range from 12 up to 21 kW

Lieutenant boiler for domestic hot water is equipped in flow water heater with range from 12 up to 21 kW

Every boiler with advanced LCD automatics is factory equipped in

Wired room temp. control
 weekly programmer CH
 Wired weather compensation

NEW AUTUMN 2020 - advanced LCD automatics

Wireless radio control set (option)

- wireless room temperature controller (transmitter and receiver in set)
- wireless outside temperature controller (transmitter and receiver in set)

Module+ internet app controls all boiler function

- monitoring all temperatures: boiler, room reg., weather reg. DHW
- changing temperature remotely
- editing time programs
- checking temperature graph
- turning on/off boiler circuits
- alarm display
- do not require static IP
- free app update

Model series	DHW	Internet app	Display	Air vent	Manometer	Electronic pump	Safety valve	Expansion vessel	Room temp. controller	Weather compensation	Electric flow heater	Wireless radio Control
Basic automation												
Corporal up to 24 kW		OPTION	LED									
Sergeant up to 24 kW	OPTION	OPTION	LED									
Major up to 24 kW	OPTION	OPTION	LED									
Ensign CH up to 12 kW DHW up to 21 kW		OPTION	LED									
Advanced automation												
Captain up to 24 kW	OPTION	OPTION	LCD									
Colonel up to 24 kW	OPTION	OPTION	LCD									
Lieutenant CH up to 12 kW DHW up to 21 kW		OPTION	LCD									

boiler power selection table		50m ²	75m ²	100m ²	125m ²	150m ²	200m ²	250m ²	300m ²
A+	Energy efficient building 20-25cm insulation Ca. 50kWh/m ² /year Ca. 40W/m ²	4 kW	4 kW	6 kW	6 kW	9 kW	9 kW	12 kW	15 kW
A									
B	Standard building 10-15cm insulation Ca. 90kWh/m ² /year Ca. 70W/m ²	4 kW	6 kW	9 kW	9 kW	12 kW	15 kW	18 kW	24 kW
C									
D	Energy intensive building 0-5cm insulation Ca. 150kWh/m ² /year Ca. 120W/m ²	6 kW	9 kW	12 kW	15 kW	18 kW	24 kW	30 kW	36 kW
E									

Electrical parameters	4 kW	4 kW	6 kW	6 kW	9 kW	9 kW	12 kW	12 kW	15 kW	15 kW	18 kW	24 kW
	1 phase	2 phases	1 phase	3 phases	1 phase	3 phases	1 phase	3 phases	3 phases	1 phase	3 phases	3 phases
Safety fuses (A)	1 x 20	2 x 10	1 x 32	3 x 10	1 x 40	3 x 16	1 x 63	3 x 20	3 x 25	1 x 80	3 x 32	3 x 40
Power cord (mm ²)	3 x 2.5	2 x 4	3 x 4	5 x 2.5	3 x 10	5 x 2.5	3 x 10	5 x 4	5 x 4	3 x 10	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.

Sergeant	●	○	○	●	●	●	●	○	○	○	○	●	○
Captain	●	○	●	●	●	●	●	○	●	●	●	●	○

Sergeant



Basic LED automatics

- **PV ready**
- NO/NC contact 0V
- DHW set Standard (option)

Captain



Advanced LCD automatics

- **PV ready**
- NO/NC contact 0V
- DHW set Premium (option)
- Wired weather compensation
- Wired room control
- Module + internet app option

	4 kW	6 kW	9 kW	12 kW
Sergeant - code	123004	123006	123009	123012
Captain - code	126 004	126 006	126 009	126 012
	15 kW modulation 4/6/9/15 kW	18 kW modulation 4/6/12/18 kW	24 kW modulation 12/24 kW	
Sergeant - code	123015	123018	123024	
Captain - code	126 015	126 018	126 024	

DHW Standard/ Premium set	
code	100003
Module + internet app option	
code	100004
Wireless room temperature controller (option) (transmitter and receiver in set)	
code	100010

	OPTION		OPTION						OPTION	70°C	95°C	
Major	●	○	○	●	●	●	●	○	○	○	●	○
Colonel	●	○	●	●	●	●	●	●	●	●	●	○

Major



Basic LED automatics

- **PV ready**
- NO/NC contact 0V
- DHW set Standard (option)

Colonel



Advanced LCD automatics

- **PV ready**
- NO/NC contact 0V
- DHW set Premium (option)
- Wired weather compensation
- Wired room control
- Module + internet app option

	4 kW	6 kW	9 kW	12 kW
Major - code	124 004	124 006	124 009	124 012
Colonel - code	127 004	127 006	127 009	127 012
	15 kW modulation 4/6/9/15 kW	18 kW modulation 4/6/12/18 kW	24 kW modulation 12/24 kW	
Major - code	124 015	124 018	124 024	
Colonel - code	127 015	127 018	127 024	

DHW Standard/ Premium set	
code	100003
Module + internet app option	
code	100004
Wireless room temperature controller (option) (transmitter and receiver in set)	
code	100010

Ensign	●	○	○	●	●	●	●	●	○	○	○	●	○
Lieutenant	●	○	●	●	●	●	●	●	●	●	●	●	○

Ensign

Legal Protection
UP RP no. W. 12654

Lieutenant



Basic LED automatics

- **PV ready**
- NO/NC contact 0V
- Built-in water flow heater



Advanced LCD automatics

- **PV ready**
- NO/NC contact 0V
- Built-in water flow heater
- Wired weather compensation
- Wired room control
- Module + internet app option

boiler power	4 kW	6 kW	9 kW	12 kW
flow trough heater power	12 kW	12 kW	12 kW	12 kW
Ensign - code	115304	115306	115309	115312
Lieutenant - code	118304	118306	118301	118312

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

flow trough heater power	fuse (A)	power cord (mm ²)
12 kW	3x20	5x4,0
15 kW	3x25	5x4,0
18 kW	3x32	5x6,0
21 kW	3x40	5x6,0
Module + internet app option		
code	100004	
Room thermostat (option)		
code	100010	

Boiler & flow trough heater power do not add up. DHW priority – check boiler power

	OPTION		OPTION							OPTION	70°C	95°C
Hussar	●	○	○	●	●	●	●	●	○	○	○	●
Commander	●	○	●	●	●	●	●	●	●	●	○	●

Hussar



New design
June 2020

Boilers for industry and constant operation

- electronic SSR relays
- increased component durability
- switch with trigger
- advanced cooling system

Commander



Basic LED automatics

- **PV ready**
- NO/NC contact 0V
- DHW set Standard (option)

Advanced LCD automatics

- **PV ready**
- NO/NC contact 0V
- DHW set Premium (option)
- Wired weather compensation
- Wired room control
- Module + internet app option

	4 kW	6 kW	9 kW	12 kW
Hussar - code	134004	134006	134009	134012
Commander - code	137004	137006	137009	137012
	15 kW modulation 4/6/9/15 kW	18 kW modulation 4/6/12/18 kW	24 kW modulation 12/24 kW	
Hussar - code	134015	134018	134024	
Commander - code	137015	137018	137024	

DHW Standard/ Premium set	
code	100003
Module + internet app option	
code	100004
Wireless room temperature controller (option) (transmitter and receiver in set)	
code	100010

	OPTION		OPTION							OPTION	70°C	95°C
Battalion	●	○	○	●	●	●	●	○	○	○	○	●
Division	●	○	●	●	●	●	●	○	●	●	○	●

Battalion



Boilers for industry and constant operation

- electronic SSR relays
- increased component durability
- switch with trigger
- advanced cooling system

Division



Advanced LCD automatics

Basic LED automatics

- up to 48 kW
- **PV ready**
- NO/NC contact 0V
- DHW set Standard (option)

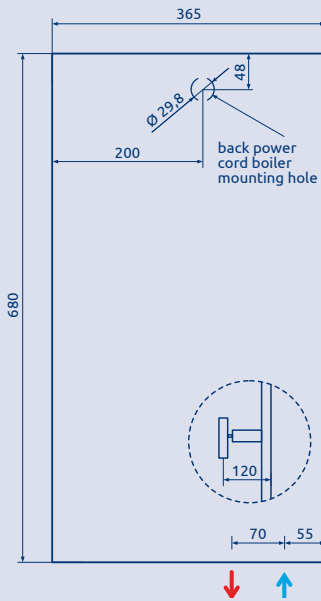
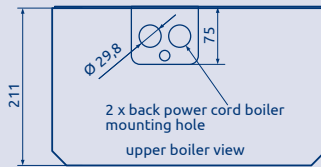
- up to 1,5 MW (max. 31 boilers in cascade)
- **PV ready**
- NO/NC contact 0V
- DHW set Premium (option)
- Wired weather compensation
- Wired room control
- Module + internet app option

Room thermostat (option)

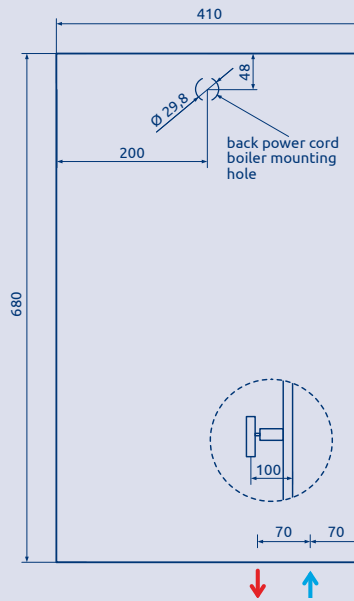
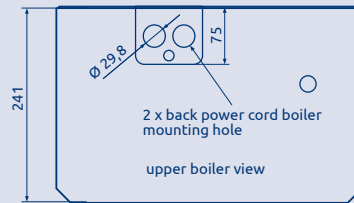
code 100010

	30 kW	36 kW	42 kW	48 kW	DHW Standard/ Premium set	
boiler power	30 kW	36 kW	42 kW	48 kW		
boiler quantity	1 boiler	1 boiler	1 boiler	1 boiler	code	100003
Battalion - code	116030	116036	116042	116048	Module + internet app option	
Division - code	120030	120036	120042	120048		
fuse	3 x 50 A	3 x 63 A	3 x 80 A	3 x 80 A	code	100004
cascade boilers power	54 kW	60 kW	66 kW	72 kW	96 kW	144 kW
boiler quantity	2 boilers	2 boilers	2 boilers	2 boilers	2 boilers	3 boilers
Division - code	120054	120060	120066	120072	120096	120144
fuse	3 x 100 A	3 x 100 A	3 x 125 A	3 x 125 A	3 x 160 A	3 x 240 A
power cord	5 x 35 mm ²	5 x 50 mm ²	5 x 50 mm ²	5 x 50 mm ²	5 x 70 mm ²	5 x 120 mm ²

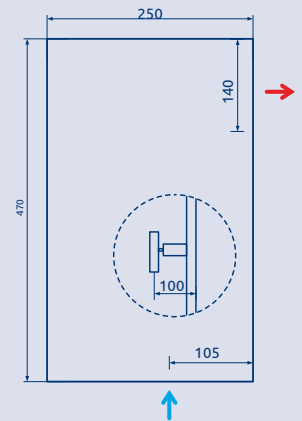
Sergeant, Major, Captain, Colonel, Hussar, Commander
power from 4 up to 12 kW



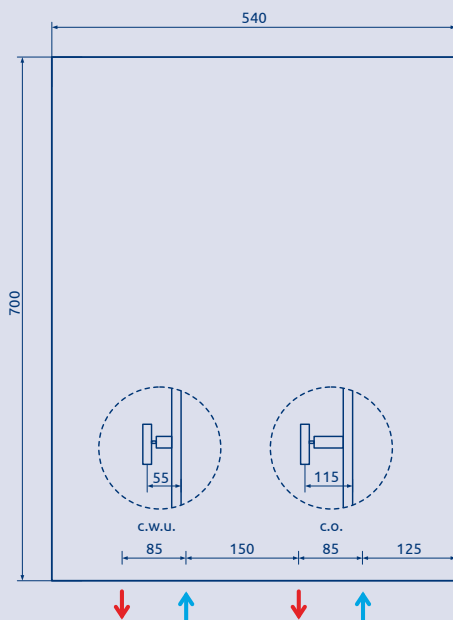
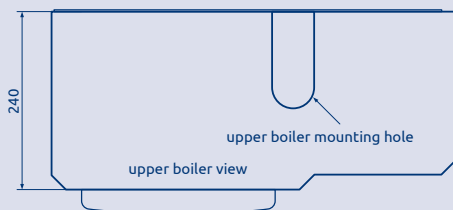
Sergeant, Major, Captain, Colonel, Hussar, Commander
power from 15 up to 24 kW



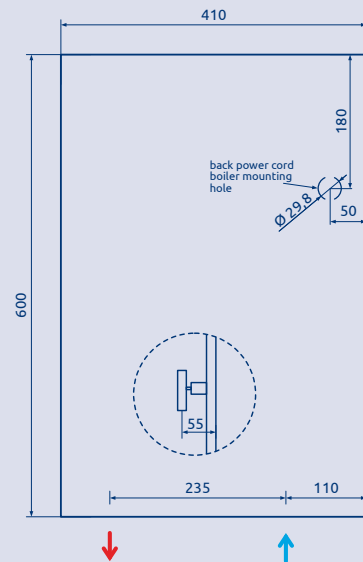
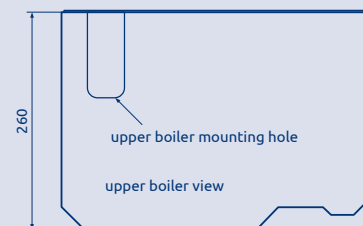
Corporal power from 4 up to 24 kW



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



Battalion, Division
power from 30 to 48 kW





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