









**4/2026**

**PRODUCT  
CATALOGUE**

# Regulus



## CONTENTS

	Overview of changes	<b>5</b>
	About Us	<b>6-7</b>
	Typical hydraulic variants with heat pumps	<b>8-9</b>
	Alphabetical index of products	<b>10</b>
	Overview of product groups	<b>11</b>
	Product catalogue	<b>12-119</b>
	Max. length of heating elements in HW storage tanks and thermal stores	<b>120</b>
	Sizing of heat pumps	<b>121</b>
	Notes	<b>122</b>









## Brief overview of changes compared to 03/2025

### NEW:

- Heat pumps with R290 (propane) refrigerant **12, 13, 15**
- RegulusBOX-E indoor unit for heat pumps **12, 13, 15, 16**
- Anti-vibration mounts for heat pumps **12, 19**
- TSV D thermostatic antifrost valve with insulation for heat pumps **19**
- CO<sub>2</sub> sensor for Sentinel Econiq units **33**
- Plastic distribution boxes for 75 mm diameter air ducts **34**
- PS ZC and PSH wall-hung thermal stores with insulation for heating and cooling **40**
- PS IZ thermal stores with insulation for heating and cooling **40**
- SN insulation Class B for HSK 400 P+ and HSK 400 PR+ storage tanks **44**
- Service valves for expansion vessels connection with 1/2" M drain valve **26, 57**
- RCA room unit with display for IR controllers **58**
- Kits with DBV valve in insulation and 1/2" ball valve with filter **68**
- Kits with BVTS valve and 1/2" ball valve with filter **69**
- Regulus RPA 25-6 pump **81**
- RegulusRGMAT pump groups with Regulus RPA 25-6 pump **72**
- RegulusTOP pump groups for heating systems with Regulus RPA 25-6 pump **76-78**
- BSR Insulated safety assemblies with insulation **80, 93**
- Regulus RPC 15 circulation pump - available separately or in a pump station **82**
- TVmix anti-scald valves **84**
- VZU RQ three-way zone ball valves **88**
- FILTERMAG PK-C filter with magnet, suitable for gas boilers **93**
- Heating system protectors and cleaners **101**
- Screw-on elbows for chimney liners for gas condensing boilers **108, 109**
- Vertical concentric flue terminal ø 60/100 mm - for dedicated roof tile with 100 mm diam. opening **110**

### CONTACTS:

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We are dynamically developing family-owned company with its own R&D dept. and product test lab, training center and design department. Since 1992 we are settled in Prague, Czech Republic.



**CZ** **Headquarters**  
Regulus spol. s r.o.

**SK** Regulus-Technik, s.r.o.

**RO** Regulus Romtherm srl

**Production Line**  
Regulus Production, s.r.o.



## Research & Development

R&D team uses our long-time experience for developing new products and improving of the existing ones. Our facilities include a dedicated test lab permitting testing our products and validating their parameters before they are introduced to the market. That is why we can guarantee high quality and reliability of all products we offer.

A number of products developed by Regulus is protected by patents and utility/industrial designs in the Czech Republic and many other countries.



## Production lines

In our subsidiaries in Czechia and Slovakia we manufacture a wide range of thermal stores, pump stations, valves and other heating system components.

## Warehouses & Distribution

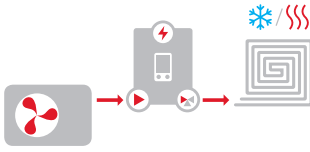
In our warehouses there is a total capacity of more than 10.000 pallets. Thanks to our advanced warehouse management we are enabled to guarantee short delivery terms of our products.



# Typical hydraulic variants

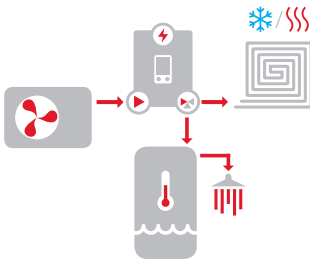
## with Air-to-water Inverter Heat Pumps for heating & cooling

### No hot water storage tank, RegulusBOX



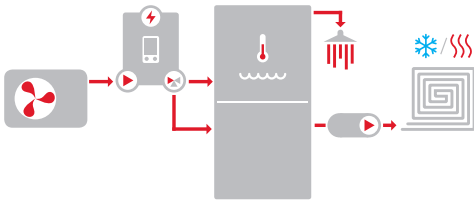
- inverter heat pump for heating & cooling
- RegulusBOX (IR RegulusBOX, electric boiler, circulation pump, 3-way zone valve)
- other boiler room equipment
- permits connecting a hot water storage tank

### Hot water in NBC hot water tank, RegulusBOX



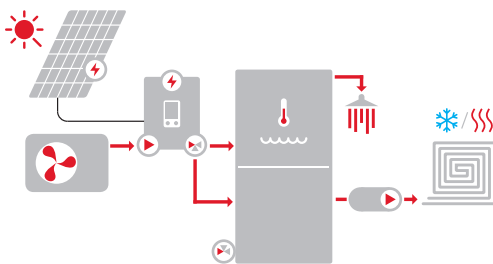
- inverter heat pump for heating & cooling
- hot water storage tank, 170l
- RegulusBOX (IR RegulusBOX, electric boiler, circulation pump, 3-way zone valve)
- other boiler room equipment

### Hot water in thermal store HSK, RegulusBOX



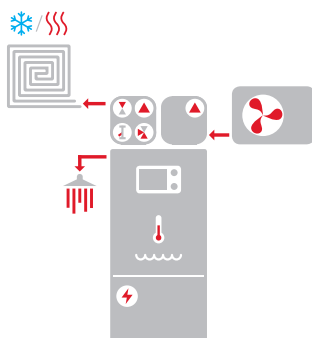
- inverter heat pump for heating & cooling
- RegulusBOX (IR RegulusBOX, electric boiler, circulation pump, 3-way zone valve)
- other boiler room equipment

### Hot water in thermal store (DUO or HSK), RegulusBOX, for use with PV systems



- inverter heat pump for heating & cooling
- RegulusBOX (IR RegulusBOX, electric boiler, circulation pump, 3-way zone valve)
- 3-way zone valve
- other boiler room equipment

### Continuous hot water in RegulusHBOX indoor unit

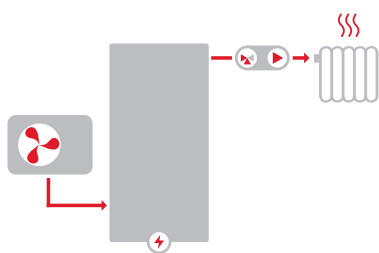


- inverter heat pump for heating & cooling
- RegulusHBOX indoor unit (thermal store with DHW heating, twine-line pump station, IR RegulusHBOX smart controller, electric boiler)
- other boiler room equipment

# Typical hydraulic variants

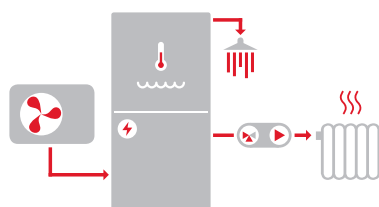
## with Air-to-water On/Off Heat Pumps for heating

### No hot water storage tank



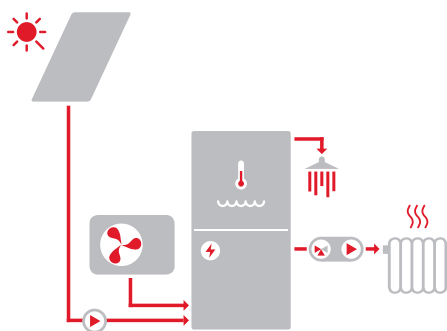
- on/off heat pump for heating
- PS 200 N+ thermal store
- IR 14 smart controller
- electric heating elements
- other boiler room equipment

### Hot water in thermal store (DUO or HSK)



- on/off heat pump for heating
- combination thermal store
- IR 14 smart controller
- electric heating elements
- other boiler room equipment

### Hot water in thermal store (DUO or HSK)+ solar thermal system



- on/off heat pump for heating
- solar thermal system
- combination thermal Store
- IR 14 smart controller
- electric heating elements
- other boiler room equipment

# ALPHABETICAL INDEX

<b>A</b>	Actuators	79,86,87,90	<b>I</b>	Insulation for Thermal Stores	40-46	
	Adjustable Thermostats	65		Intelligent Controllers	58	
	Air Bleed Kits	26	<b>K</b>	Knobs	66	
	Air Ducts	34-39		KOMBIFLEX	98	
	Air Heaters	37	<b>L</b>	Load and Heating Combi Units	74	
	Air Separators	26		Load Units	72,73	
	Air Vent Valves	26,93	<b>M</b>	MAGNET FILTERBALL	83	
	Anode Rods	49		Manifolds	80	
	Antifreeze Fluids	102		Manostats	63	
	Antifrost Valves	19	<b>O</b>	Mixing Valves	89	
	Anti-Scald Valves for DHW	84		Optimizers	20	
	Anti-Vibration Mounts	12,19		<b>P</b>	Photovoltaic systems	20,21
<b>B</b>	Back-up Sources	75			Pipes for Solar Systems	31,97
	Balancing Valves	27			Plate Heat Exchangers	50
<b>B</b>	Ball Valves for Drinking Water	83			Plug-in Thermostats	61
	Base Rail for Collectors	24			Pre-insulated Stainless-steel Tubes	31,97
<b>C</b>	Battery Energy Storages	20			Pressure Gauges	62,63
	Circulation Pumps	81,82			Pressure Reducing Valves	93
	Cleaning Pumps	101			Pressure Switches	67
	Collector Anchors	21,24			Pump Stations for DHW recirculation	82
	Collector Brackets	24			Pump Stations for Heating Systems	76-79
	Collector Mount Kits	21-23	<b>R</b>		Radiator Valves	91
	Collector Support	21,24			RegulusBIO	74
	Condensate Neutralization	119		RegulusBOX	12-17	
	Controllers for Heat Pumps	12-18		RegulusFLEX	108,109	
	Controllers for Solar Systems	27		RegulusHBOX	12-17	
	CSE MIX	77		RegulusRGMAT	72,73	
	CSE OTS	76		RegulusTOP	76-79	
CSE SOL	28,29	Room Units		58,60,74		
CSE2	78	<b>S</b>		Safety Assemblies	80,93	
<b>D</b>	Draft Regulators			69	Safety disconnectors	20
	Drain Valves			83	Safety Valves	48,92
<b>E</b>	DUO			46	Sensors for Controllers	27,58,60,74
	Electric Heating Elements		51-55	Sensors for HRV units	33	
<b>F</b>	Encased Thermostats		64	Service Valves	26,57	
	Expansion Vessels		26,56	Sheaths	43,66	
	Filling Pumps		30,102	SICURFLEX	96	
	Filling Sets		18	Solar Collectors	22,23	
	Filling Valves		27	Solar Pump Stations	28,29	
	Filters for Heating Circuits		83,93	SOLARFLEX	97	
	Filters for HRV units		33	SOLARTEN	30,102	
	Fittings	25,94,95,99	Solenoid Valves	85		
	Flanges	43,49	<b>T</b>	Stainless-steel Pipes for Gas	96	
	Flexible Stainless-steel Tubes	98		Thermal Safety Relief Valves	68	
	FLOW FILTERBALL	83		Thermal Stores	40-46	
	Flow Switches	67		Thermomanometers	62,63	
Flue Ducts	103-119	THERMOMAT		73		
<b>H</b>	Heat Pumps	18		Thermometers	62,63	
	Heat Pumps with refrigerant R290 (propane)	12,13,15		Thermostatic Elements	71,73	
	Heat Pumps with inverters	12-16		Thermostatic Head	91	
	Heating Elements	51-55		Thermostatic Mixing Valves	70,71	
	Heating System Protectors	101		Thermostatic Mixing Valves for DHW	84	
	Hemp	102		Thread Sealants	102	
	Hot Water Storage Tanks	47,48		Tube Heat Exchangers	43	
	HRV units	32	Tube Insulation	100		
	HSK	44,45	<b>U</b>	Uni schuko plugs	55	
	Hydraulic Dynamic Pressure Balancers (HVDT)	80		<b>W</b>	Weather Compensated Controllers	60
	<b>CH</b>	Chemicals	101-102		<b>Z</b>	Zone Valves
		<b>I</b>	Indoor Unit	12-17		

# CONTENTS




Air-to-water heat pumps Ground-to-water heat pumps Heat pump accessories Smart controllers	12-19	<b>HEAT PUMPS</b>	<b>HP</b>
Photovoltaic sets, support structures Inverters, battery storages, switchboards, charging stations, optimizers	20-21	<b>PHOTOVOLTAIC SYSTEMS</b>	<b>PV</b>
Solar collectors, roof anchors, flat roof supports, mount accessories Valves + air separators for solar systems, flow regulators and balanc. valves Solar fluid, expansion vessels, pre-insulated pipes Solar controllers, pump stations	22-31	<b>SOLAR THERMAL SYSTEMS</b>	<b>SOL</b>
Heat recovery ventilation units, installation accessories Air ducts Air duct heaters	32-39	<b>HEAT RECOVERY VENTILATION</b>	<b>HRV</b>
Storage water heaters, anode rods Thermal stores with DHW Thermal stores and insulation sets, finned heat exchangers Stainless-steel plate heat exchangers	40-50	<b>TANKS, HEAT EXCHANGERS</b>	<b>ACC</b>
Electric heating elements for hot water storage tanks and thermal stores Electric heating elements for heated towel rails, plug-in thermostats	51-55	<b>ELECTRIC HEATING ELEMENTS</b>	<b>EHE</b>
Expansion vessels for heating systems, drinking water and solar systems Brackets and service valves for expansion vessels	56-57	<b>EXPANSION VESSELS</b>	<b>EV</b>
Room thermostats Weather compensation controllers Thermostats, thermometers, manometers, sheaths, knobs	58-67	<b>CONTROLLERS, THERMOSTATS</b>	<b>CON</b>
Draft regulators and backup power supplies Thermal safety relief valves Thermostatic mixing valves Thermostatic pump stations for boilers and heating systems	68-75	<b>BOILER PROTECTION AND CONTROL</b>	<b>BPC</b>
Pump stations Manifolds for heating systems Circulation pumps	76-82	<b>PUMP STATIONS FOR HEATING SYSTEMS</b>	<b>PS</b>
Pump stations, manifolds for heating systems, circulation pumps Zone valves, mixing valves and actuators DHW thermostatic mixing valves, thermostatic radiator heads and valves Safety valves, drain valves, air vent valves and check valves	83-95	<b>HEATING SYSTEMS COMPONENTS</b>	<b>HSC</b>
Pre-insulated solar pipes Flexible stainless steel pipes/hoses for gas and water EPDM pipe insulation	96-100	<b>PIPES AND INSULATION</b>	<b>PI</b>
Cleaning pumps, chemicals for cleaning and protection of heating systems Thread sealants Antifreeze heat transfer fluids, accessories	101-102	<b>CHEMICALS, FLUIDS</b>	<b>CH</b>
Flue pipes for fanned boilers, flue ways in aluminum	103-107	<b>FLUE PIPES IN ALUMINUM</b>	<b>FAL</b>
Flue pipes for condensing boilers, flue ways in polypropylene - PP	108-119	<b>FLUE PIPES IN POLYPROPYLENE</b>	<b>FPP</b>

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Regulus RTC p Air-to-Water Heat Pumps				
	<ul style="list-style-type: none"> <li>» <i>three-phase with inverter</i></li> <li>» <i>refrigerant R290 (propane)</i></li> <li>» <i>heating / cooling</i></li> <li>» <i>max. flow temperature 75 °C</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>high coefficient of performance</i></li> <li>» <i>up to 10 years warranty<sup>1)</sup></i></li> <li>» <i>connection kit with 2 antifrost valves</i></li> </ul>	<b>Code</b>	
	RTC 15p Heat Pump 4–12 kW heating output, 6–12 kW cooling output, SCOP 5.62, energy efficiency class <sup>2)</sup> A+++			21501
	RTC 25p Heat Pump 6–20 kW heating output, 9–20 kW cooling output, SCOP 5.29, energy efficiency class <sup>2)</sup> A+++			21503
Outdoor Accessories (only for RTC 15p and 25p)			Code	
	Set of anti-vibration mounts (2 pcs) - 600mm long, required for installations without wall brackets		21977	
	Condensate drain elbow - 1" or 5/4" connection		22030	
IR 14 Controller with Pump Station				
	<ul style="list-style-type: none"> <li>» <i>IR 14 controller</i></li> <li>» <i>pump with speed control</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>filter with magnet</i></li> <li>» <i>insulation with thermometer</i></li> </ul>	<b>Code</b>	
	CSE IR 14 RTC EN - IR 14 RTC Controller and Pump station, menu in English			18242
RegulusBOX-E Electric Indoor Units				
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>extended number of outputs</i></li> <li>» <i>screwless terminal block</i></li> <li>» <i>free positions for additional modules</i></li> <li>» <i>heat pump circuit breaker</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>circuit breakers and contactors for 2 el. heating elements</i></li> <li>» <i>version with SSR for consumption of up to 15 kW of PV surplus with fast and precise response</i></li> </ul>	<b>Code</b>	
	RegulusBOX-E RTC 3/3SR EN	basic version	22064	
	- for RTC p Heat Pumps (menu in English), dimensions (WxHxD): 477x963x143 mm	version with 4 SSR relays	22069	
CSE TC W-PWM MFB 1F - pump station with filter w. magnet for heat pump		17868		
RegulusBOX Indoor Unit				
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>circulation pump</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>3-way valve for a hot water tank</i></li> <li>» <i>2–12 kW electric boiler</i></li> </ul>	<b>Code</b>	
	RegulusBOX 12 RTC 3/3SR EN - for RTC 15p and 25p Heat Pumps (menu in English), dimensions (WxHxD): 560x905x235 mm		21612	
RegulusHBOX K Indoor Unit with DHW heating				
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>circulation pump for HP and 1 unmixed heating circuit</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>RGC 170 hot water tank</i></li> <li>» <i>2–6 kW electric boiler</i></li> </ul>	<b>Code</b>	
	RegulusHBOX K 106 RTC 3/3SR EN - for RTC 15p and 25p Heat Pumps, dimensions WxHxD: 750 x 1222 x 833 mm, pump for heat pump and heating circuit included (menu in English)		21619	
RegulusHBOX Indoor Unit with DHW heating and thermal store				
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>HSK 210 thermal store</i></li> <li>» <i>DHW heating in stainless steel HE</i></li> <li>» <i>pump station for HP</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>safety kit for DHW</i></li> <li>» <i>safety group for heating system</i></li> <li>» <i>expansion vessel for heating system</i></li> <li>» <i>2–12 kW electric boiler</i></li> </ul>	<b>Code</b>	
	RegulusHBOX 212 RTC 3/3SR EN - for RTC 15p and 25p Heat Pumps, for heating systems with 1 or multiple heating circuits fitted with a dedicated circulation pump - pump station for heat pump included (menu in English), dimensions (WxHxD): 595x1725x650 mm		21616	

1) Please ask our regional sales representatives about current conditions for extended warranty.

2) Seasonal space heating energy efficiency class under average climatic conditions for low temperature applications.

Regulus RTC p Air-to-Water Heat Pumps			
	<ul style="list-style-type: none"> <li>» <i>single-phase with inverter</i></li> <li>» <i>refrigerant R290 (propane)</i></li> <li>» <i>heating / cooling</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>max. flow temperature 75 °C</i></li> <li>» <i>high coefficient of performance</i></li> <li>» <i>connection kit with antifrost valve</i></li> </ul>	Code
	RTC 40p Heat Pump 13–39 kW heating output, 12–34 kW cooling output, SCOP 4.86, energy efficiency class <sup>2)</sup> A+++		21590
IR 14 Controller with Circulation Pump			
	<ul style="list-style-type: none"> <li>» <i>IR 14 controller</i></li> <li>» <i>pump with speed control</i></li> <li>» <i>Magnet FilterBall</i></li> </ul>		Code
	CS IR 14 RTC 40p EN IR 14 RTC Controller and Pump station, menu in English		
RegulusBOX-E Electric Indoor Units			
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>extended number of outputs</i></li> <li>» <i>screwless terminal block</i></li> <li>» <i>free positions for additional modules</i></li> <li>» <i>heat pump circuit breaker</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>circuit breakers and contactors for 2 el. heating elements</i></li> <li>» <i>version with SSR for consumption of up to 15 kW of PV surplus with fast and precise response</i></li> </ul>	Code
	RegulusBOX-E RTC 3/3SR EN		
	- for RTC p Heat Pumps (menu in English), dimensions (WxHxD): 477x963x143 mm		
		basic version	22064
		version with 4 SSR relays	22069
CS TC W14 MFB 2F - set with circulation pump and filter w. magnet for heat pump			21597

1) Please ask our regional sales representatives about current conditions for extended warranty.

2) Seasonal space heating energy efficiency class under average climatic conditions for low temperature applications.









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Regulus RTC Air-to-Water Heat Pumps			
	<ul style="list-style-type: none"> <li>» <i>single-phase with inverter</i></li> <li>» <i>refrigerant R410A/R32</i></li> <li>» <i>heating / cooling</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>max. flow temperature 55 °C</i></li> <li>» <i>up to 10 years warranty<sup>1)</sup></i></li> </ul>	Code
	<p>RTC 6i Heat Pump 1–6 kW heating output, 1.5–5.5 kW cooling output, SCOP 4.47, energy efficiency class<sup>2)</sup> A+++</p>		17735
	<p>RTC 13e Heat Pump 3–12 kW heating output, 3–10 kW cooling output, SCOP 4.71, energy efficiency class<sup>2)</sup> A+++</p>		19437
IR 14 Controller with Pump Station			
	<ul style="list-style-type: none"> <li>» <i>IR 14 controller</i></li> <li>» <i>pump with speed control</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>filter with magnet</i></li> <li>» <i>insulation with thermometer</i></li> </ul>	Code
	<p>CSE IR 14 RTC EN Pump station and IR 14 RTC Controller, menu in English</p>		18242
RegulusBOX Indoor Unit			
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>circulation pump</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>3-way valve for a hot water tank</i></li> <li>» <i>2–12 kW electric boiler</i></li> </ul>	Code
	<p>RegulusBOX 12 RTC 3/1S EN - for RTC 6i and 13e Heat Pumps (menu in English), dimensions (WxHxD): 560x905x235 mm</p>		18930
RegulusHBOX K Indoor Unit with DHW heating			
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>circulation pump for HP and 1 unmixed heating circuit</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>RGC 170 hot water tank</i></li> <li>» <i>2–6 kW electric boiler</i></li> </ul>	Code
	<p>RegulusHBOX K 106 RTC 3/1S EN - for RTC 6i, 13e Heat Pumps, dimensions WxHxD: 750 x 1222 x 833 mm, pump for heat pump and heating circuit included (menu in English)</p>		20631
RegulusHBOX Indoor Unit with DHW heating and thermal store			
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>HSK 210 thermal store</i></li> <li>» <i>DHW heating in stainless steel HE</i></li> <li>» <i>pump station for HP</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>safety kit for DHW</i></li> <li>» <i>safety group for heating system</i></li> <li>» <i>expansion vessel for heating system</i></li> <li>» <i>2–12 kW electric boiler</i></li> </ul>	Code
	<p>RegulusHBOX 212 RTC 3/1S EN - for RTC 6i, 13e Heat Pumps, for heating systems with 1 or multiple heating circuits fitted with a dedicated circulation pump - pump station for heat pump included (menu in English), dimensions (WxHxD): 595x1725x650 mm</p>		20029

1) Please ask our regional sales representatives about current conditions for extended warranty.






2) Seasonal space heating energy efficiency class under average climatic conditions for low temperature applications.

CTC EcoAir 700M Air-to-Water Heat Pumps			
 	<ul style="list-style-type: none"> <li>» <i>three-phase with inverter</i></li> <li>» <i>refrigerant R290 (propane)</i></li> <li>» <i>heating / cooling</i></li> <li>» <i>max. flow temperature 75 °C</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>high coefficient of performance</i></li> <li>» <i>HP KEYMARK European quality label</i></li> <li>» <i>up to 10 years warranty<sup>1)</sup></i></li> <li>» <i>connection kit with 2 antifrost valves</i></li> </ul>	Code
	CTC EcoAir 712M Heat Pump 2–9 kW heating output, 2–7 kW cooling output, SCOP 5.00, energy efficiency class <sup>2)</sup> A+++		21162
	CTC EcoAir 720M Heat Pump 4–18 kW heating output, 3–17 kW cooling output, SCOP 5.35, energy efficiency class <sup>2)</sup> A+++		21548
IR 14 Controller with Pump Station			
	<ul style="list-style-type: none"> <li>» <i>IR 14 controller</i></li> <li>» <i>pump with speed control</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>filter with magnet</i></li> <li>» <i>insulation with thermometer</i></li> </ul>	Code
	CSE IR 14 CTC EN - IR 14 CTC controller and Pump station, menu in English		18923
RegulusBOX-E Electric Indoor Units			
 	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>extended number of outputs</i></li> <li>» <i>screwless terminal block</i></li> <li>» <i>free positions for additional modules</i></li> <li>» <i>heat pump circuit breaker</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>circuit breakers and contactors for 2 el. heating elements</i></li> <li>» <i>version with SSR for consumption of up to 15 kW of PV surplus with fast and precise response</i></li> </ul>	Code
	RegulusBOX-E CTC 3/3 EN - for CTC Heat Pumps (menu in English), dimensions (WxHxD): 477x963x143 mm		basic version 22062
			version with 4 SSR relays 22067
CSE TC W-PWM MFB 1F - pump station with filter w. magnet		17868	
RegulusBOX Indoor Unit			
	<ul style="list-style-type: none"> <li>» <i>IR 14 smart controller with display</i></li> <li>» <i>circulation pump</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>3-way valve for a hot water tank</i></li> <li>» <i>2–12 kW electric boiler</i></li> </ul>	Code
	RegulusBOX 12 CTC 3/3 EN - for CTC Heat Pumps (menu in English), dimensions (WxHxD): 560x905x235 mm		18928
RegulusHBOX K Indoor Unit with DHW heating			
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>circulation pump for HP and 1 unmixed heating circuit</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>RGC 170 hot water tank</i></li> <li>» <i>2–6 kW electric boiler</i></li> </ul>	Code
	RegulusHBOX K 106 CTC 3/3 EN - for CTC Heat Pumps with inverter, dimensions WxHxD: 750 x 1222 x 833 mm, pump for heat pump and heating circuit included (menu in English)		20630
RegulusHBOX Indoor Unit with DHW heating and thermal store			
	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>HSK 210 thermal store</i></li> <li>» <i>DHW heating in stainless steel HE</i></li> <li>» <i>pump station for HP</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>safety kit for DHW</i></li> <li>» <i>safety group for heating system</i></li> <li>» <i>expansion vessel for heating system</i></li> <li>» <i>2–12 kW electric boiler</i></li> </ul>	Code
	RegulusHBOX 212 CTC 3/3 EN - for CTC Heat Pumps with inverter, for heating systems with 1 or multiple heating circuits fitted with a dedicated circulation pump - pump station for heat pump included (menu in English), dimensions (WxHxD): 595x1725x650 mm		20026

1) Please ask our regional sales representatives about current conditions for extended warranty.










2) Seasonal space heating energy efficiency class under average climatic conditions for low temperature applications.

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CTC EcoAir 600M Air-to-Water Heat Pumps			
	<ul style="list-style-type: none"> <li>» <i>three-phase with inverter</i></li> <li>» <i>refrigerant R407C</i></li> <li>» <i>heating</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>max. flow temperature 65 °C</i></li> <li>» <i>HP KEYMARK European quality label</i></li> <li>» <i>up to 10 years warranty<sup>1)</sup></i></li> </ul>	Code
	CTC EcoAir 614M Heat Pump heat output 3–13 kW, SCOP 4.9, en.eff.class <sup>2)</sup> A+++		17156
	CTC EcoAir 622M Heat Pump heat output 4–24 kW, SCOP 4.93, en.eff.class <sup>2)</sup> A+++		17157
CTC EcoPart 600M Ground-to-Water Heat Pumps			
	<ul style="list-style-type: none"> <li>» <i>three-phase with inverter</i></li> <li>» <i>refrigerant R407C</i></li> <li>» <i>heating</i></li> <li>» <i>max. flow temperature 65 °C</i></li> <li>» <i>high coefficient of performance</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>primary circuit and heating circuit circulation pump</i></li> <li>» <i>HP KEYMARK European quality label</i></li> <li>» <i>up to 10 years warranty<sup>1)</sup></i></li> </ul>	Code
	CTC EcoPart 612M Inverter Heat Pump - heat output of 2.5–12 kW, SCOP 5.5, en.eff.class <sup>2)</sup> A+++		18259
	CTC EcoPart 616M Inverter Heat Pump - heat output of 4–16 kW, SCOP 5.5, en.eff.class <sup>2)</sup> A+++		18290
IR 14 Controller with Pump Station			
	<ul style="list-style-type: none"> <li>» <i>IR 14 controller</i></li> <li>» <i>pump with speed control</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>filter with magnet</i></li> <li>» <i>insulation with thermometer</i></li> </ul>	Code
	CSE IR 14 CTC EN IR 14 CTC controller and Pump station, menu in English		18923
RegulusBOX-E Electric Indoor Units			
 	<ul style="list-style-type: none"> <li>» <i>IR smart controller with display</i></li> <li>» <i>extended number of outputs</i></li> <li>» <i>screwless terminal block</i></li> <li>» <i>free positions for additional modules</i></li> <li>» <i>heat pump circuit breaker</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>circuit breakers and contactors for 2 el. heating elements</i></li> <li>» <i>version with SSR for consumption of up to 15 kW of PV surplus with fast and precise response</i></li> </ul>	Code
	RegulusBOX-E CTC 3/3 EN - for CTC Heat Pumps (menu in English), dimensions (WxHxD): 477x963x143 mm		basic version 22062 version with 4 SSR relays 22067
	CSE TC W-PWM MFB 1F - pump station with filter w. magnet		17868

1) Please ask our regional sales representatives about current conditions for extended warranty.

2) Seasonal space heating energy efficiency class under average climatic conditions for low temperature applications.

RegulusBOX Indoor Unit			
	» <i>IR smart controller with display</i> » <i>circulation pump</i>	» <i>3-way valve for a hot water tank</i> » <i>2–12 kW electric boiler</i>	Code
	RegulusBOX 12 CTC 3/3 EN - for CTC Heat Pumps (menu in English), dimensions (WxHxD): 560x905x235 mm		18928
RegulusHBOX K Indoor Unit with DHW heating			
	» <i>IR smart controller with display</i> » <i>circulation pump for HP</i> and <i>1 unmixed heating circuit</i>	» <i>RGC 170 hot water tank</i> » <i>2–6 kW electric boiler</i>	Code
	RegulusHBOX K 106 CTC 3/3 EN - for CTC Heat Pumps with inverter, dimensions WxHxD: 750 x 1222 x 833 mm, pump for heat pump and heating circuit included (menu in English)		20630
RegulusHBOX Indoor Unit with DHW heating and thermal store			
	» <i>IR smart controller with display</i> » <i>HSK 210 thermal store</i> » <i>DHW heating in stainless steel HE</i> » <i>pump station for HP</i>	» <i>safety kit for DHW</i> » <i>safety group for heating system</i> » <i>expansion vessel for heating system</i> » <i>2–12 kW electric boiler</i>	Code
	RegulusHBOX 212 CTC 3/3 EN - for CTC Heat Pumps with inverter, for heating systems with 1 or multiple heating circuits fitted with a dedicated circulation pump - pump station for heat pump included (menu in English), dimensions (WxHxD): 595x1725x650 mm		20026
Accessories to RegulusBOX, HBOX, HBOX K Indoor Units			Code
	Blind plug and frame for using the display as a room unit. The frame is used to place the display on the wall and the blind plug replaces the display in the front panel.		18248
	Kit for upgrading IR RegulusBOX by 4 outputs (relays)		19401
	Set for connecting module 4xRO (5A) to RegulusHBOX K		21435
	Solar module for RegulusHBOX - plate heat exchanger, pump station, set of pipes		20031
	Cooling set for RegulusHBOX - 3-way valves and set of connecting pipes and fittings		21100
	Drinking water connection kit for RegulusHBOX K - safety connection kit, expansion vessel, accessories for mounting on RegulusHBOX K		21434

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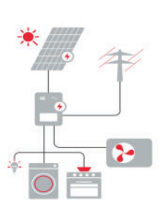
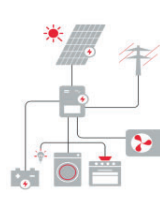
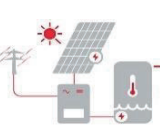




CTC EcoAir 400 Air-to-Water Heat Pumps			
	<ul style="list-style-type: none"> <li>» <i>three-phase on/off</i></li> <li>» <i>refrigerant R407C</i></li> <li>» <i>heating</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>max. flow temperature 65 °C</i></li> <li>» <i>HP KEYMARK European quality label</i></li> <li>» <i>up to 10 years warranty<sup>1)</sup></i></li> </ul>	<b>Code</b>
	CTC EcoAir 406 Heat Pump heat output of 6.2 kW at A7/W35, SCOP 3.85, en.eff.class <sup>2)</sup> A++	x	13243
	CTC EcoAir 408 Heat Pump heat output of 7.8 kW at A7/W35, SCOP 3.92, en.eff.class <sup>2)</sup> A++		13244
	CTC EcoAir 410 Heat Pump heat output of 11.5 kW at A7/W35, SCOP 3.92, en.eff.class <sup>2)</sup> A++		12994
	CTC EcoAir 415 Heat Pump heat output of 15.9 kW at A7/W35, SCOP 3.76, en.eff.class <sup>2)</sup> A++		12995
	CTC EcoAir 420 Heat Pump heat output of 17.5 kW at A7/W35, SCOP 3.71, en.eff.class <sup>2)</sup> A+	x	12848
CTC EcoPart 400 Ground-to-Water Heat Pumps			
	<ul style="list-style-type: none"> <li>» <i>three-phase on/off</i></li> <li>» <i>refrigerant R407C</i></li> <li>» <i>heating</i></li> <li>» <i>max. flow temperature 65 °C</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>primary circuit circulation pump</i></li> <li>» <i>HP KEYMARK European quality label</i></li> <li>» <i>up to 10 years warranty<sup>1)</sup></i></li> </ul>	<b>Code</b>
	CTC EcoPart 406 Heat Pump heat output of 5.9 kW at B0/W35, SCOP 4.70, en.eff.class <sup>2)</sup> A+++		12647
	CTC EcoPart 408 Heat Pump heat output of 8.2 kW at B0/W35, SCOP 4.70, en.eff.class <sup>2)</sup> A+++		12648
	CTC EcoPart 410 Heat Pump heat output of 10 kW at B0/W35, SCOP 4.70, en.eff.class <sup>2)</sup> A+++		12649
	CTC EcoPart 412 Heat Pump heat output of 11.8 kW at B0/W35, SCOP 4.80, en.eff.class <sup>2)</sup> A++		12650
	CTC EcoPart 414 Heat Pump (incl. heating water circulation pump) heat output of 14.5 kW at B0/W35, SCOP 4.60, en.eff.class <sup>2)</sup> A++		12651
	CTC EcoPart 417 Heat Pump (incl. heating water circulation pump) heat output of 16.76 kW at B0/W35, SCOP 4.70, en.eff.class <sup>2)</sup> A+++		12652
CTC EcoPart 435 Heat Pump (incl. heating water circulation pump) heat output of 32.5 kW at B0/W35, SCOP 4.70, en.eff.class <sup>2)</sup> A+++	x	15903	
IR 14 Controller with Pump Station			
	<ul style="list-style-type: none"> <li>» <i>IR 14 controller</i></li> <li>» <i>pump with speed control</i></li> </ul>	<ul style="list-style-type: none"> <li>» <i>filter with magnet</i></li> <li>» <i>insulation with thermometer</i></li> </ul>	<b>Code</b>
	CSE IR 14 CTC EN - IR 14 CTC controller and Pump station, menu in English		18923
Accessories to Ground-to-Water Heat Pumps			
	Filling set for primary circuit, incl. filter	1" M	12454
		5/4" M	12455

1) Please ask our regional sales representatives about current conditions for extended warranty.

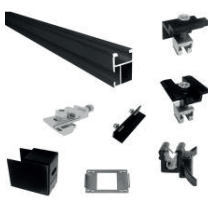

2) Seasonal space heating energy efficiency class under average climatic conditions for low temperature applications.

Support Accessories		Code	
	Wall Support for heat pumps incl. anti-vibration silentblocks - for both RTC and CTC heat pumps on an outer wall without thermal insulation, for CTC EcoAir 406, 408, 614M, <b>712M</b> and RTC 6i, 13e on a thermally insulated outer wall	17458	
	Wall Support on a thermally insulated outer wall for heat pumps, incl. anti-vibration silentblocks, for CTC EcoAir 410–420, 622M, <b>720M and RTC 15p, 25p</b> on a thermally insulated outer wall	18406	
	Set of anti-vibration mounts (2 pcs) - 600mm long, required for installations of RTC 15p and 25p without wall brackets	<b>21977</b>	
Connection Hoses		Code	
	Braided Hose, 2x 1" F	300 mm 18621 500 mm 15493 700 mm 15494 1000 mm 15495	
	Braided Hose, 1" F x 1" M	300 mm 18622 500 mm 15496 700 mm 15497 1000 mm 15498	
		Braided Hose, 2x 5/4" F	300 mm 19752 500 mm 16896 700 mm 16897 1000 mm 16898
			Braided Hose, 5/4" F x 5/4" M
Nut Gasket	1" 9980 5/4" 9981		
Pump Stations		Code	
	CSE TC W iPWM MFB 1F Pump Station for heat pumps in series - includes a Wilo PARA 25/8 iPWM1 pump, filter w. magnet, thermometer, insulation	17868	
	CS TC W14 MFB 2F Kit with pump for cascades of RTC 40p heat pumps - contains Wilo Stratos MAXO 30/14 pump, 2" Magnet FilterBall	<b>21597</b>	
Regulace a elektropřisloušení		Code	
	In Line Heater	7.5 kW 16166	
	In line heater contains a safety valve, thermostat and wall mount brackets. An ETT-A electric heating element can be installed into the in line heater. Output up to:	9.0 kW 19391	
	Kit for measurement of electricity overflow to IR controller - electricity meter and 3 transformers for control of heat pumps according to electricity overflow to the network	19446	
	Sub-module for PV systems to interconnect an IR 14 controller and <b>some types of inverters</b>	20664	
	Reversing contactor for switchboard, for installations of RTC 15p and 25p with IR controller	<b>21628</b>	
	Heating Cable for EcoAir total length: (non-heating end always 1 m)	3.5 m 16168 5 m 18104	
	Heating Cable for RTC, total length: (non-heating end always 1 m)	2.5 m 20629 5 m 18491	
Antifrost Valves		Code	
	TSV D thermostatic antifrost valve w. insulation - valve opening temp. 3 °C (included in supply with propane heat pumps)	1" M 21640 1" F 21965 Cu 28 x 1" F 21966	




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Regulus Photovoltaic Sets		
	» <b>suitable to be combined with our heat pumps</b> » <b>do not contain mount kits, anchoring elements</b>	<b>Code</b>
	<b>FVE 5.4 kWp Photovoltaic Kit</b> - includes 12 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, Solax 8 kWh G4 X3-Hybrid inverter, AC and DC switchboards for 2 strings	21467
	<b>FVE 7.2 kWp Photovoltaic Kit</b> - includes 16 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, Solax 8 kWh G4 X3-Hybrid inverter, AC and DC switchboards for 2 strings	20974
	<b>with battery energy storage</b>	<b>Code</b>
	<b>FVE 7.2 kWp BAT 11.6 kWh Photovoltaic Kit</b> - includes 16 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, Solax 8 kWh G4 X3-Hybrid inverter, AC and DC switchboards for 2 strings, T58 battery energy storage, 11,6 kWh	20978
	<b>FVE 9.9 kWp BAT 11.6 kWh Photovoltaic Kit</b> - includes 22 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, Solax 10 kWh G4 X3-Hybrid inverter, AC and DC switchboards for 2 strings, T58 battery energy storage, 11.6 kWh	20987
Regulus Photovoltaic Sets for heating of DHW		
	» <b>do not contain mount kits, anchoring elements</b>	<b>Code</b>
	<b>FVE-TV 1.8 kWp set</b> - includes 4 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, GETI inverter, DC switchboard for 1 string	21342
	<b>FVE-TV 2.2 kWp set</b> - includes 5 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, GETI inverter, DC switchboard for 1 string	21340
	<b>FVE-TV 2.7 kWp set</b> - includes 6 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, GETI inverter, DC switchboard for 1 string	21282
The above kits/sets serve as examples - we will always work out a specific solution to suit your needs.		
Safety disconnectors		
	Rapid Shutdown BFS-A2 safety disconnector for max. 4 PV panels	21440
	Rapid Shutdown BFS-ESW12-K emergency disconnect button	21441
	Cable for communication between the button and disconnector, 20m	21442
	Cable for communication between two disconnectors, 2m	21443
Optimizers for Shaded Panels		
	Optimizer TIGO TS4-A-O (700W, 1000V, 15A, 16 - 80V, MC4)	20471
	Communication unit CLOUD CONNECT KIT TIGO	20472
	Junction box SCABOX - IP56, internal dimensions 300x220x120 mm	20550
Accessories for Regulus Heat Pumps		
	Submodule to connect IR 14 controller and Solax X3-HYBRID inverter	20664
	<b>Set of 3 SSR relays with heat sink for DIN rail mounting</b> - for smooth consumption of overflows	21559
Electric heating element for PV sets for DHW heating		
	<b>ETT-NK 3 kW heating element with thermostatic head</b> - nickel-plated, G 6/4", 230 V - length incl. thread 450 mm, non-heating end length 180 mm - 5m 3-wire power cable	21252







Sloping Roofs

Mount Kits		Code
	1 panel	21271
	array with 2 panels	20982
	array with 3 panels	20983
	array with 4 panels	20984
	array with 5 panels	20985
	array with 6 panels	20986
	array with 7 panels	21273
	array with 8 panels	21274
	array with 9 panels	21275
	array with 10 panels	21276
	array with 11 panels	21280
	array with 12 panels	21281
Mount and interconnection kit for vertical PV panels - contains a P-profile rail, end brackets, middle brackets, connecting pieces and end plugs for the rail, screw clamps for earthing, earthing clips, cable ties.		
Anchoring Elements		Code
	Black stainless-steel anchor for mounting the roof P-rail for pantiles (incl. T-slot stone), number of anchors for one array = 2 + 2x number of panels	21245
	Black aluminium anchor for mounting the roof P-rail for pantiles (incl. T-slot stone), number of anchors for one array = 2 + 2x number of panels	21090
	COMBI bolt with angle bracket for attaching the roof rail to wooden rafters	21240
	Clamp for standing seam metal roofs (to be used with angle bracket)	20398
	Angle bracket for attaching the roof rail to corrugated metal roofs	21244
	Aluminium flashing under angle bracket for composite shingle roofs	20399
	Aluminium flashing over anchor for composite shingle roofs	20617
	MINI rails - for trapezoidal profiled sheet metal roofing (without installation of continuous P-profile rails)	20397






Flat Roofs

Mount Kits		Code
	End bracket kit to mount PV panels (1 set for 1 array) - contains 4 end brackets, 2 screw clamps for earthing, 2 cable ties	21270
		Middle bracket kit to mount PV panels (number of kits = number of panels - number of arrays) - contains 2 middle brackets, 2 screw clamps for earthing, 2 cable ties
Anchoring Elements		Code
	Triangular roof support for horizontal panels on flat roof, EAST-WEST - number of supports for one array = 1 + number of panels/2	20401
	Triangular roof support for horizontal panels on flat roof, SOUTH - number of supports for one array = 1 + number of panels	20400
	Base plate for load on load-bearing structures	20402
	Connecting segment for roof fixings SOUTH (incl. bolts and nuts)	20677
	Deflector for SOUTH support (sheet metal at the back of the triangle)	20656

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<b>KPS1 flat plate solar collector - harp type absorber, 7 year warranty</b>		<b>Code</b>
    	<p>KPS1 Solar collector collector area 2.11 sqm, output 1481 W at 1000 W/m<sup>2</sup> irradiance,  for portrait installation, 204x104x9 cm, fluid volume 1.4 l, grey aluminium frame, solar prismatic glass, harp type absorber with TiNOx highly selective surface on aluminium sheet, laser welded to copper pipes, connection with 4 copper pipes 22 mm</p>	16277
	<b>Mount kits for fixing and connecting KPS1 solar collectors</b>	<b>Code</b>
	<p>Connection kit for KPS, KPG1 collector array (G3/4" M inlet and outlet, 2 plugs, G3/8" F for air vent, sensor sheath)</p>	7710
	<p>Mount kit for 1 KPS1 solar collector  *(for 4 anchors or 2 supports+1 strut)</p>	12178
	<p>Mount and interconnection kit for 2 KPS1 collectors  *(for 6 anchors or 3 supports+1 strut)</p>	12179
	<p>Mount and interconnection kit for 3 KPS1 collectors  *(for 8 anchors or 4 supports+1 strut)</p>	12180
	<p>Mount and interconnection kit for 4 KPS1 collectors  *(for 10 anchors or 5 supports+1 strut)</p>	12181
	<p>Mount and interconnection kit for 5 KPS1 collectors  *(for 10 anchors or 5 supports+1 strut)</p>	12182
<p>Extension kit for fixing and interconnecting 1 KPS1 solar collector  *(for 4 anchors or 2 supports+1 strut)</p>	12183	
<b>KPS11 flat plate solar collector - harp type absorber, 7 year warranty</b>		<b>Code</b>
    	<p>KPS11 Solar collector collector area 2.52 sqm, output 1802 W at 1000 W/m<sup>2</sup> irradiance,  for portrait installation, 204x124x9 cm, fluid volume 1.7 l, grey aluminium frame, solar prismatic glass, harp type aluminium absorber with TiNOx highly selective surface on aluminium sheet, laser welded to copper pipes, connection with 4 copper pipes 22 mm</p>	16278
	<b>Mount kits for fixing and connecting KPS11 solar collectors</b>	<b>Code</b>
	<p>Connection kit for KPS, KPG1 collector array (G3/4" M inlet and outlet, 2 plugs, G3/8" F for air vent, sensor sheath)</p>	7710
	<p>Mount kit for 1 KPS11 solar collector  *(for 4 anchors or 2 supports+1 strut)</p>	12184
	<p>Mount and interconnection kit for 2 KPS11 collectors  *(for 6 anchors or 3 supports+1 strut)</p>	12185
	<p>Mount and interconnection kit for 3 KPS11 collectors  *(for 8 anchors or 4 supports+1 strut)</p>	12186
	<p>Mount and interconnection kit for 4 KPS11 collectors  *(for 10 anchors or 5 supports+1 strut)</p>	12187
	<p>Extension kit for fixing and interconnecting 1 KPS11 Solar Collector  *(for 4 anchors or 2 supports+1 strut)</p>	12188








\* Mount and interconnection kits are intended to form a collector array using base rails and pipe fittings with insulation. They contain neither roof anchors nor struts, these shall be ordered depending on the roof and tile type.

KPG1 flat plate solar collector - harp type absorber		Code	
  	<p>KPG1 Solar collector collector area 2.52 sqm, 1866 W output at 1000 W/m<sup>2</sup> irradiance,</p> <p>for landscape/portrait installation, 215x117x8.5 cm, fluid volume 1.7 l, silver aluminium frame, tempered low-iron glass, harp type absorber with TiNOx highly selective surface on aluminium sheet, laser welded to copper pipes, connection with 4 copper pipes 22 mm, BAFA approved, Solar Keymark certified</p>	10336	
	Mount kits for fixing and connecting KPG1 solar collectors		Code
	<p>Connection kit for KPS, KPG1 collector array (G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath)</p>	7710	
	<p>Mount kit for 1 KPG1 solar collector *(for 4 anchors or 2 supports+1 strut)</p>	10538	
	<p>Mount and interconnection kit for 2 KPG1 collectors *(for 6 anchors or 3 supports+1 strut)</p>	10539	
	<p>Mount and interconnection kit for 3 KPG1 collectors *(for 8 anchors or 4 supports+1 strut)</p>	10540	
	<p>Mount and interconnection kit for 4 KPG1 collectors *(for 10 anchors or 5 supports+1 strut)</p>	10541	
	<p>Mount and interconnection kit for 5 KPG1 collectors *(for 12 anchors or 6 supports+1 strut)</p>	14067	
	<p>Extension kit for fixing and interconnecting 1 KPG1 Solar Collector *(for 4 anchors or 2 supports+1 strut)</p>	11986	
	Mount kits for fixing and connecting KPG1 solar collectors - horizontally		Code
<p>Connection kit for landscape KPG1 collector array (G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath)</p>	14134		
<p>Mount kit for landscape installation of 1 KPG1 solar collector *(for 4 anchors or 2 supports+1 strut)</p>	10700		
Landscape KPG1H flat plate solar collectors, double harp type absorber		Code	
 	<p>KPG1H Solar collector collector area 2.52 sqm, 1866 W output at 1000 W/m<sup>2</sup> irradiance,</p> <p>for landscape installation, 117x215x8 cm, fluid volume 1.7 l, silver aluminium frame, solar prismatic glass, double harp type absorber with TiNOx highly selective surface on aluminium sheet, laser welded to copper pipes, connection with 2 copper pipes 22 mm</p>	11427	
	Mount kits for fixing and connecting landscape KPG1H solar collectors		Code
	<p>Connection kit for KPG1H collector array (G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath)</p>	14618	
	<p>Mount kit for installation of 1 KPG1H solar collector *(for 4 anchors or 2 supports+1 strut)</p>	10700	
	<p>Mount and interconn. kit for installation of 2 KPG1H *(for 6 anchors or 3 supports+1 strut)</p>	14517	
	<p>Extension kit for installation and connection of 1 KPG1H solar coll. *(for 4 anchors or 2 supports+1 strut)</p>	14518	

\* Mount and interconnection kits are intended to form a collector array using base rails and pipe fittings with insulation. They contain neither roof anchors nor struts, these shall be ordered depending on the roof and tile type.

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<b>Solar collector support brackets for flat roofs</b>			<b>Code</b>
	Triangle support bracket	15°	11979
		25°	10975
		45°	6859
	Strut incl. screws for triangle support brackets - flat roof		
<b>Solar collectors support brackets, flat roof, for horizontal KPG1 and KPG1H</b>			<b>Code</b>
	Triangle support bracket	25°	10907
		45°	10921
	Strut incl. screws for triangle support brackets, flat roof, for landscape KPG1 and KPG1H		
<b>Wall support brackets for horizontal KPG1 and KPG1H - solar awning</b>			<b>Code</b>
	Wall support bracket for KPG1H, tilt angle:	75°	14792
		65°	14793
		45°	14794
<b>Anchors for inclined roofs</b>			<b>Code</b>
	Stainless-steel anchor for pantiles		6857
	Hot-dipped galvanized steel anchor for pantiles		7929
	Stainless-steel anchor for slate tiles		11574
	Stainless-steel anchor for pantiles, for roof rafters, incl. self tapping screws		10159
	Bolt with clamp for fixing rails onto a roof (incl. gasket)		7320
<b>Triangle support brackets for inclination adjustment, for inclined roofs</b>			<b>Code</b>
	Triangle support bracket	15°	10748
		25°	8805
		45°	10094
		x 60°	9631
<b>Triangle support brackets for inclination adjustment, for horizontal KPG1 and KPG1H, for inclined roofs</b>			<b>Code</b>
	Triangle support bracket for KPG1 and KPG1H landscape installation	15°	11070
		25°	11071
		45°	11072
<b>Mounting rails</b>			<b>Code</b>
	Mounting rail, 6.15 m long	price for 6.15 m	7009
	Mounting rail,sold by the meter (max. length 6.15 m)	price for 1 m	6949

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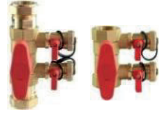



Parts for mount and connection kits for solar collectors		Code	
	Extension kit for aluminum rail connection (1 connection)	10201	
	Base rail end plug	11773	
	M8 Travelling nut for base rail	6925	
	M8x16 stainless-steel bolt for KPG1	6926	
	M8x20 stainless-steel bolt for KPC, KPS	12136	
	M8x30 bolt+nut+washer, travelling head, for base rail slot	8383	
	Fixing bracket for KPG bottom rail - stainless steel	13057	
	Fixing bracket for KPC, KPS bottom rail	11690	
	Retaining side bracket for KPC, KPS	12141	
	Retaining stainless-steel side bracket for KPG	10522	
	Retaining side bracket between 2 KPG collectors with bolt	10673	
	X-piece for 22 mm Cu pipe for collector outlet, 3/4" M for outlet, 1/2" F for sheath, 3/8" F with plug for air vent valve	13716	
	Elbow compression adaptor for Cu22 pipe, 3/4" M – for collector inlet	13694	
	Straight Compression Fitting for Cu22 pipe	7629	
	Blind hex compression fitting for Cu22 pipe	13696	
	Compression fitting adaptor, Cu 22 x G 3/4" M (with enlarged sealing area at the M thread)	13695	
	Compression fitting adaptor, Cu 22 x G 3/4" F	7315	
	Compression ring for Cu22 pipe	7330	
	Insert to 22 mm Cu pipe, for compression connections	12923	
		Plug with gasket	3/8"
1/2"			7634
3/4"			7954
	Gasket for Plug	17 x 24 x 1,5 mm - 3/8"	7794
		21 x 27 x 1,5 mm - 1/2"	7795
		27 x 34 x 1,5 mm - 3/4"	7796

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Valves for solar thermal systems						Code
	Automatic air vent valve, 3/8" M, bottom connection, up to 150 °C					6118
	Ball valve, 3/8" M/F, up to 160 °C, under an air vent valve					7250
	Safety valve, 1/2"x3/4" F/F, 6 bar, up to 150 °C, for solar thermal systems					1616
	Safety valve, 1/2"x3/4" M/F, 6 bar, up to 150 °C, for solar thermal systems					16680
Air separators and accessories						Code
	Horizontal brass air separator, connection 3/4" M, 3/8"F connection to air vent					11591
	Vertical brass air separator, connection 3/4" M, air vent manually operated					19881
Air bleed kits						Code
	Kit of air separator and air vent valve for solar systems					13308
	Insulation set for air separator and air vent valve					13197
Expansion vessels for solar thermal systems						Code
	Expansion Vessel SL - wall-hung	12 l	8 bar	ø 270 mm	3/4" M	13720
		18 l	8 bar	ø 270 mm	3/4" M	13721
		25 l	8 bar	ø 290 mm	3/4" M	13722
		40 l	8 bar	ø 320 mm	3/4" M	13723
	Expansion Vessel SL - legs - replaceable membrane	50 l	10 bar	ø 320 mm	3/4" M	13724
		80 l	10 bar	ø 450 mm	3/4" M	13725
		100 l	10 bar	ø 450 mm	1" M	13726
		150 l	10 bar	ø 554 mm	6/4" M	13727
		200 l	10 bar	ø 554 mm	6/4" M	13728
		300 l	10 bar	ø 624 mm	6/4" M	13729
500 l	8 bar	ø 780 mm	x 6/4" M	13730		
Service valves for expansion vessels						Code
	Service Valve for expansion vessels connection and easy servicing with drain hose adapter					3/4" F 8770
						1" F 12295
						6/4" F 14492
	Service Valve for expansion vessels connection and easy servicing with 1/2" drain valve					3/4" F 22077
						1" F 22078
						3/4" F/M 22079
					1" F/M 22080	
Exp. vessel bracket for wall mount with connection valve 3/4"						7766
3/4" Service Valve for expansion vessels connection (part of bracket 7766)						19722
Exp. vessel bracket						12174
Stainless-steel connecting pipe 2x 3/4"F - 0.5 m						9156

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<b>Filling valve assembly for solar systems</b>		<b>Code</b>	
	Filling valves with 2x Cu 28 mm connections	11643	
	Filling valves with 2x 1" F connections	11644	
<b>Balancing valves for solar thermal systems</b>		<b>Code</b>	
	AV23 balancing valve with indication 2-12 l/min, 3/4" F, 185 °C	7982	
	AV23 balancing valve with indication 10-40 l/min, 1" F, 185 °C	8232	
	AV23 balancing valve with indication 20-70 l/min, 5/4" F, 100 °C	8022	
<b>Controllers for Regulus solar thermal systems</b>		<b>Code</b>	
	<b>STDC E</b> - 3-sensor controller for solar thermal systems with 1 collector array and 1 solar consumer - 230V and PWM/0-10V output for high-efficiency pumps - 2 Pt1000 sensors included	13164	
	<b>SRS1 T</b> - 3-sensor controller for solar thermal systems of one collector array and one consumer - potential-free contact to switch a boiler or a heating element up to 3kW power input, 230V and PWM/0-10V output and iPWM input (flow rate info) - 2 Pt1000 sensors included	17570	
	<b>SRS2 TE</b> - 4-sensor controller for solar thermal systems with 1 collector array and 1 solar consumer, with a potential-free contact to switch a boiler or a heating element up to 3kW power input - two 230V outputs and PWM/0-10V output for high-efficiency pumps - 3 Pt1000 sensors included	14388	
	<b>SRS3 E</b> - 4-sensor controller for solar thermal systems with 1 collector array and up to 2 solar consumers, or 2 independent arrays and one solar consumer - two 230V outputs and PWM/0-10V output for high-efficiency pumps - 3 Pt1000 sensors included	13166	
	<b>SRS6 EP</b> - 6-sensor controller for solar thermal systems with 1 collector array and up to 3 solar consumers, or 2 independent arrays and up to 2 solar consumers, permitting flowmeter connection for heat measurement - potential-free contact for switching of a boiler or a heating element of up to 3 kW power input w. two 230V outputs and two PWM/0-10V outputs for high-efficiency pumps - 5 Pt1000 sensors included	13168	
<b>Accessories to solar controllers</b>		<b>Code</b>	
	Pt1000 Temperature sensor for sheath, with 2m cable, increased temperature and UV resistance	9108	
	Pt1000 for sheath with 4 m cable	9109	
	Pipe mounted sensor housing (for Pt1000)	14250	
	Contact temperature sensor with 4 m cable, on pipe - Pt1000	9789	
	Surge protector for Pt1000 temperature sensors	9530	
	Flowmeter VFS with integrated temperature sensor	2–40 l/min, DN 20	11052
		5–100 l/min, DN 25	10966
		10–200 l/min, DN 32	11050
IP44 protected box with 2A fuse, to power supply valves with 2-point control SPST (on/off live and permanent live el. connection) (VZK and LK zone valves)	11685		

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RegulusSOL Solar Pump Stations without controller				
		» 230 V power cable 3m long    » PWM/iPWM control cable 3m long		Code
 <p><b>CSE1 SOL</b>                      - single-line                      - housing insulation                      - mechanical flowrate indicator</p>	Wilo PARA ST 25/7 - PWM / iPWM	2–12 l/min, 3/4" M	19981	
		2–12 l/min, Cu 22	20568	
		8–28 l/min, 1" M	19991	
		2–12 l/min, 3/4" M	19987	
 <p><b>CSE SOL</b>                      - single-line                      - all components fully insulated                      - safety valve drain pipe                      - mechanical flowrate indicator</p>	Wilo PARA ST 25/7 - PWM / iPWM	2–12 l/min, 3/4" M	17155	
		2–12 l/min, 3/4" M	18958	
		2–12 l/min, 3/4" M	19985	
		2–12 l/min, Cu 22	20549	
 <p><b>CSE2 SOL</b>                      - twin-line                      - housing insulation                      - air separator                      - mechanical flowrate indicator</p>	Wilo PARA ST 25/7 - PWM / iPWM	8–28 l/min, 1" M	19988	
		2–12 l/min, 3/4" M	19990	
		2–12 l/min, 3/4" M	19983	
		8–28 l/min, 1" M	19983	
 <p><b>S2 Solar 2</b>                      - twin-line                      - housing insulation                      - mechanical flowrate indicator</p>	Wilo MAXO 25/1-8 - ON/OFF, 0-10V, PWM / iPWM	20–70 l/min, 6/4" M	14868	
RegulusSOL Solar Pump Stations with controller SRS1 T				
		» SRS1 T controller w. 2 sensors » 3m power cable w. plug		Code
 <p><b>CSE1 SOL SRS1 T</b>                      - single-line                      - housing insulation</p>	Wilo PARA ST 25/7 - flowrate on display	2–20 l/min, 3/4" M	20566	
		2–20 l/min, 1" M	20575	
		2–20 l/min, Cu 22	20584	
		2–12 l/min, 3/4" M	20576	
 <p><b>CSE SOL SRS1 T</b>                      - single-line                      - all components fully insulated                      - safety valve drain pipe</p>	Wilo PARA ST 25/7 - flowrate on display	8–28 l/min, 1" M	20572	
		2–20 l/min, 3/4" M	17726	
		2–20 l/min, 1" M	17902	
		2–20 l/min, Cu 18	18117	
 <p><b>CSE2 SOL SRS1 T</b>                      - twin-line                      - housing insulation                      - air separator</p>	Wilo PARA ST 25/7 - flowrate on display	2–20 l/min, Cu 22	17903	
		2–12 l/min, 3/4" M	18969	
		2–12 l/min, 3/4" M	18960	
		8–28 l/min, 1" M	18960	
 <p><b>CSE2 SOL SRS3 E</b>                      - twin-line                      - housing insulation                      - air separator</p>	Wilo PARA ST 25/7 - mechanical flowrate indicator	2–20 l/min, 3/4" M	20564	
		2–20 l/min, 1" M	20579	
		2–20 l/min, Cu 22	20573	
		2–12 l/min, 3/4" M	20581	
 <p><b>CSE2 SOL SRS3 E</b>                      - twin-line                      - housing insulation                      - air separator</p>	Grundfos UPM3 Hybrid 7m - mechanical flowrate indicator	2–12 l/min, 3/4" M	20581	
		8–28 l/min, 1" M	20453	
RegulusSOL Solar Pump Stations with SRS3 E controller				
		» SRS3 E controller w. 3 sensors    » 3m power cable w. plug		Code
 <p><b>CSE2 SOL SRS3 E</b>                      - twin-line                      - housing insulation                      - air separator</p>	Wilo PARA ST 25/7 - mechanical flowrate indicator	2–12 l/min, 3/4" M	20373	
		8–28 l/min, 1" M	20452	
		2–12 l/min, Cu 22	20457	
		2–12 l/min, 3/4" M	20372	
 <p><b>CSE2 SOL SRS3 E</b>                      - twin-line                      - housing insulation                      - air separator</p>	Grundfos UPM3 Hybrid 7m - mechanical flowrate indicator	8–28 l/min, 1" M	20453	


<b>RegulusSOL Solar Pump Stations with controller SRS1 T for switching the auxiliary heat source</b>				
	<b>» SRS1 T controller w. 3 sensors</b> <b>» 4m cable for switching aux. heat source</b>		<b>Code</b>	
	<b>CSE SOL SRS1 T-K</b> - single-line - all components fully insulated - safety valve drain pipe	Wilo PARA ST 25/7 - flowrate on display	2–20 l/min, 3/4" M	17899
	<b>CSE2 SOL SRS1 T-K</b> - twin-line - housing insulation - air separator	Wilo PARA ST 25/7 - flowrate on display	2–20 l/min, 3/4" M	20569
<b>RegulusSOL Solar Pump Stations with controller SRS1 T with socket for el. heating element up to 3 kW</b>				
	<b>» SRS1 T controller w. 3 sensors</b> <b>» 3m power cable w. plug</b>	<b>» special socket for connecting ETT-N heating element switched by temperature and time program</b>	<b>Code</b>	
	<b>CSE1 SOL SRS1 T-E</b> - single-line - housing insulation	Wilo PARA ST 25/7 - flowrate on display	2–20 l/min, 3/4" M	20574
	<b>CSE SOL SRS1 T-E</b> - single-line - all components fully insulated - safety valve drain pipe	Wilo PARA ST 25/7 - flowrate on display	2–20 l/min, 3/4" M	16955
		Grundfos UPM3 Hybrid 7m - mechanický ukazatel průtoku	2–12 l/min, 3/4" M	18970
	<b>CSE2 SOL SRS1 T-E</b> - twin-line - housing insulation - air separator	Wilo PARA ST 25/7 - flowrate on display	2–20 l/min, 3/4" M	20557
			2–20 l/min, 1" M 2–20 l/min, Cu 22	20558 20560
<b>RegulusSOL Solar Pump Stations with controller SRS1 T with socket for el. heating element up to 3 kW blocked by Ripple control</b>				
	<b>» SRS1 T controller w. 3 sensors</b> <b>» 3m power cable w. plug</b> <b>» 3m cable for power supply of heating element</b>	<b>» special socket for connecting ETT-N heating element switched by temperature and time program and Ripple control</b>	<b>Code</b>	
	<b>CSE SOL SRS1 T-E HDO</b> - single-line - all components fully insulated - safety valve drain pipe	Wilo PARA ST 25/7 - flowrate on display	2–20 l/min, 3/4" M	17350
	<b>CSE2 SOL SRS1 T-E HDO</b> - twin-line - housing insulation - air separator	Wilo PARA ST 25/7 - flowrate on display	2–20 l/min, 3/4" M	20526
<b>Accessories to pump stations w. special socket</b>			<b>Code</b>	
	ETT-N Heating element with thermostatic head - non-heating end 180 mm long		2,0 kW	16942
	- 5m cable with a connector - to plug in pump stations with socket		3,0 kW	16943
	Connector for socket in Pump Station to connect circulation pump			16940

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Antifreeze fluid for solar thermal systems		Pack.	Code
 	<p>Solarten Super</p> <ul style="list-style-type: none"> <li>- fluid based on monopropylene glycol</li> <li>- low freezing point and anticorrosion properties</li> <li>- extended warranty for Regulus collectors is valid only when this fluid is used</li> <li>- it can be mixed with previously sold types Solarten Super+ and Solarten HT</li> </ul>	5 l	10109
		10 l	10110
		25 l	10069
		60 l	10111
		x 200 l	10112
Accessories for handling antifreeze fluid			Code
	Refractometer - for measurements of antifreeze fluid properties in solar systems		6933
	Manual filling pump for solar thermal systems		15111
	Manual filling pump with 600 ml container to fill fluid into solar thermal systems and cleaning/protective chemicals to heating systems		15054
	Electric filling pump for filling solar systems from a 25 l plastic container, DIN61 conn. thread		9688
	Filling push cart for solar systems, 1.1 kW power consumption. Max. volume flow 60 l/min., max. working pressure 5 bar		9561

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SOLARFLEX A - DUO, pre-insulated twinway stainless-steel tubes with cable in EPDM insulation, for solar systems with insulation surface protection only		
	insulation thickness of 13 mm	Code
	Twinway DN 16 stainless-steel tube	10 m 9916
	incl. 4 nuts with lock rings and rim nipple	15 m 9619
	Twinway DN 16 stainless-steel tube	50 m 10564
	Twinway DN 20 stainless-steel tube	10 m 9917
	incl. 4 nuts with lock rings and rim nipple	15 m 9620
Twinway DN 20 stainless-steel tube	50 m 10565	
SOLARFLEX A - MONO, pre-insulated single stainless-steel pipe in EPDM insulation, for solar systems with insulation surface protection only		
	insulation thickness of 13 mm	Code
	DN 16 stainless-steel pipe	10 m 12899
	incl. 4 nuts with lock rings and rim nipple	20 m 12900
		30 m 12901
	DN 16 stainless-steel pipe	50 m 12902
		10 m 12903
	DN 20 stainless-steel pipe	20 m 12904
	incl. 4 nuts with lock rings and rim nipple	30 m 12905
	DN 20 stainless-steel pipe	50 m 12906
	insulation thickness of 19 mm	Code
	DN 16 stainless-steel pipe	10 m 12911
	incl. 4 nuts with lock rings and rim nipple	30 m 12913
	DN 16 stainless-steel pipe	50 m 12914
		10 m 12915
DN 20 stainless-steel pipe	20 m 12916	
incl. 4 nuts with lock rings and rim nipple	30 m 12917	
DN 20 stainless-steel pipe	50 m 12918	
Accessories to SOLARFLEX A stainless steel pipes		Pipe size:
	Set of 4 nuts, lock rings, gaskets and rim nipple	DN 16 9644
		DN 20 9645
	Lock rings	DN 16 8802
		DN 20 8803
	Nut	DN 16 10708
		DN 20 10707
	Rim nipple	DN 16 6970
		DN 20 6969
	Wall clamps for twinway stainless-steel pipe – set of 4	DN 16–20 9641
	Wall clamps for single stainless-steel pipe – set of 4	DN 16–20 12932

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Central Heat Recovery Ventilation Units - vertical		Code
	<p>Sentinel Kinetic B</p> <ul style="list-style-type: none"> <li>- max. ventilation capacity 275 m<sup>3</sup>/h, 125 mm spigot diam.</li> <li>- integrated control unit with display</li> <li>- integrated summer by-pass</li> </ul>	10176
	<p>Sentinel Kinetic B Plus</p> <ul style="list-style-type: none"> <li>- max. ventilation capacity 490 m<sup>3</sup>/h, 150 mm spigot diam.</li> <li>- integrated control unit with display</li> <li>- integrated summer by-pass</li> <li>- humidity sensor</li> </ul>	10335
	<p>Sentinel Econiq S</p> <ul style="list-style-type: none"> <li>- max. ventilation capacity 414 m<sup>3</sup>/h, 125 mm spigot diam.</li> <li>- integrated control unit with display</li> <li>- integrated summer by-pass</li> <li>- humidity sensor</li> </ul>	21225
	<p>Sentinel Econiq Se w. enthalpic heat exchanger</p> <ul style="list-style-type: none"> <li>- max. ventilation capacity 414 m<sup>3</sup>/h, 125 mm spigot diam.</li> <li>- integrated control unit with display</li> <li>- integrated summer by-pass</li> <li>- humidity sensor</li> </ul>	21224
Central Heat Recovery Ventilation Units - horizontal - for apartments		Code
	<p>HR100R</p> <ul style="list-style-type: none"> <li>- max. ventilation capacity 66 m<sup>3</sup>/h, 98 mm spigot diam., 160 mm unit height</li> <li>- installation on a base (access from above)</li> </ul>	7483
	<p>HR100RS</p> <ul style="list-style-type: none"> <li>- max. ventilation capacity 66 m<sup>3</sup>/h, 98 mm spigot diam., 160 mm unit height</li> <li>- under ceiling design</li> </ul>	10308
	<p>Sentinel Kinetic Horizontal 200ZPH</p> <ul style="list-style-type: none"> <li>- max. ventilation capacity 168 m<sup>3</sup>/h, rectangular spigots (204 x 60 mm), 200 mm unit height</li> <li>- under-ceiling design</li> <li>- external room unit with display, integrated summer by-pass, humidity sensor</li> </ul>	16709
Local Heat Recovery Ventilation Units - single-room		Code
	<p>HR30W</p> <ul style="list-style-type: none"> <li>- max. ventilation capacity: intake 40 m<sup>3</sup>/h, exhaust 50 m<sup>3</sup>/h</li> <li>- for wall thickness up to 28 cm</li> </ul>	6954
	<p>HR100W</p> <ul style="list-style-type: none"> <li>- max. ventilation capacity: intake 69 m<sup>3</sup>/h, exhaust 77 m<sup>3</sup>/h</li> <li>- for wall thickness up to 28 cm</li> </ul>	6955
	<p>EXT 100 Extension</p> <ul style="list-style-type: none"> <li>- for HR30W and HR100W HRV units, for walls 28–50 mm thick</li> </ul>	6956






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Accessories to HRV units		Code
	Remote control with 15m cable, for Sentinel Kinetic B, B Plus, Horizontal	10757
	Humidity sensor for Sentinel Kinetic B, B Plus, Horizontal	10177
	CO <sub>2</sub> sensor for Sentinel Kinetic	11852
	CO <sub>2</sub> sensor for Sentinel Econiq (wired and wireless)	21887
	Docking station for Econiq unit control module, incl. 15 m cable	20192
	Connection Module - Sentinel Kinetic to IR via CIB - 2-wire connection	17786
	Connection Module - Sentinel Econiq to IR via CIB - 2-wire connection	17787
	HR-S Mechanical humidistat, 35-95 % RH	14334
	Single Pole Circuit Breaker, interrupts N line, 3A, char.D	9532
	Insulation for HR100 Heat Recovery Unit	11767
	Insulation for HR100RS Heat Recovery Unit	11768
	Cleaning spray for HRV units and ducts	10686
Spare Parts for HRV units		Code
	Filter textile for HR30W and HR100W	9001
	Filter textile for HR100R	8136
	Filter textile for Sentinel Kinetic B - set of two G3 filters	13323
	Filter textile for Sentinel Kinetic B - set of two F5 pollen filters	13324
	Filter textile for Sentinel Kinetic B Plus - set of two G3 filters	13325
	Filter textile for Sentinel Kinetic B Plus - set of two F5 pollen filters	13326
	Spare filter for Sentinel Kinetic B - set of two G3 filters	17026
	Spare filter for Sentinel Kinetic B - set of two F5 pollen filters	17572
	Spare filter for Sentinel Kinetic B Plus - set of two G3 filters	17028
	Spare filter for Sentinel Kinetic B Plus - set of two F5 pollen filters	17573
	Spare filter for Sentinel Econiq - one G4 pocket filter	21452
	Spare filter for Sentinel Kinetic Econiq/Advance - set of two G3 filters	16891
	Spare filter for Sentinel Kinetic Econiq/Advance - set of two F5 pollen filters	16892
	Filter for Sentinel Kinetic Econiq/Advance HRV unit – one F5 pollen bag filter	17024
	Filter for Sentinel Kinetic Econiq/Advance HRV unit – one F7 pollen bag filter	17025
	Spare filter for Sentinel Kinetic Horizontal - set of two G3 filters	17030

*Filters for older generations of units and other spare parts can be found in the Pricelist of Spare Parts.*

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Flexible Highly Resistant Air Duct in PE		Code
	50 m	21773
	10 m	21984
Plastic Air Distribution Boxes for ø 75 mm ducts		Code
	Plastic air distribution box, angled, 8x75/125 mm	21758
	Extension kit 2x75 mm for box	21759
	Kit of adapter and lid, diam. 152 mm, for transition to flat square ducts	21762
	Ceiling outlet w. twin ducts, 2x75/125 mm	21757
	Butterfly damper diam. 75	16730
	Spigot for box - to connect air distribution box to 150mm diam. ducting	21975
	Restrictor ring for box, for diam. 75mm ducting	22085
	Plug ø 75 mm	21769
	Adapter for crossing of up to 3 duct branches, 75 mm diam.	21763
	PE Hose (75 mm) Cutter	22086
	Flexible Air Duct Coupler	22087
	Seal for flexible ducts	21768

Plastic air disc valves, for air intake and discharge		Diam.	Code
	Air duct inlet / outlet disc valve	100 mm	7901
		125 mm	7902
	G2 Filter set for disc valves 7901, 7902	100 mm	18619
		125 mm	18620
	Designer air disc valve, small	125 mm	18766
	Designer air disc valve, big – lacquered aluminium	125 mm	18767
	Designer air disc valve, square – lacquered aluminium	125 mm	18768
	Shield for designer air disk valve		18769
	Round plastic grille, anti-insect net	80-125 mm	9002
Plastic air disc valves, for air intake and discharge		Diam.	Code
	Round grille, insect mesh, stainless steel	100 mm	16647
		125 mm	16648
		150 mm	16649
	Round grille, bull nose, insect mesh, stainless steel	100 mm	16650
		125 mm	16651
		150 mm	16652
	Inlet/outlet Terminal	125 mm	175
	Pitched-roof flashing, workable Al sheet	125 mm	8014

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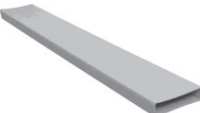








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Flexible hoses in AL		Diam.	Code
	Single-layer flexible hose in Al, 5 m	100 mm	7743
		125 mm	7589
		150 mm	7886
	Thermally insulated flexible hose in Al, 10 m	102 mm	8000
		127 mm	7887
		152 mm	7888
		203 mm	8037
	Thermally insulated anti-bacterial flexible hose with plastic surface, 10 m	127 mm	16068
	Male coupler	100 mm	8854
		125 mm	7894
		150 mm	7895
	Duct reducer	125/100 mm	7896
		150/100 mm	16653
		150/125 mm	7897
		200/150 mm	7904
100/100 mm		7769	
T-piece	125/100 mm	7721	
	125/125 mm	7889	
	150/100 mm	7890	
	150/125 mm	7908	
	150/150 mm	7891	
Round Plastic Air Ducts		Diam.	Code
	Round Plastic Duct, 1 m	100 mm	8852
		125 mm	8039
		150 mm	16731
	90° Plastic elbow	100 mm	18164
		125 mm	18165
	45° Plastic elbow	150 mm	18166
		100 mm	18167
	Plastic T-piece	150 mm	18168
		100 mm	18161
	Plastic coupler	125 mm	18162
		150 mm	18163
		100 mm	18169
	Plastic duct reducer	125 mm	18170
		150 mm	18171
		100 mm	18172
150 mm		18173	
Round EPP Air Ducts		Diam.	Code
	Round EPP Duct, 0.5 m	125 mm	18064
		150 mm	18065
	Round EPP Duct, 1 m	125 mm	18066
		150 mm	18067
	90° EPP Elbow	125 mm	18068
		150 mm	18069
	45° EPP Elbow	125 mm	18070
		150 mm	18071
	EPP Coupler	125 mm	18072
		150 mm	18073

Round air duct heaters and heat exchangers		Code	
	Electric air duct heater, 0.4 kW, DN 125 incl. adjust. and high limit thermostats, 3 m cable	14059	
	Electric air duct heater, 0.6 kW, DN 150 incl. adjust. and high limit thermostats, 3 m cable	14796	
	HDW 150 air duct heater spigot diam. 150 mm., max. airflow rate 400 m <sup>3</sup> /h 2.8 kW output (at 300 m <sup>3</sup> /h airflow, incoming water temperature of 60°C and incoming air temperature of 0°C)	18642	
	Air heater/cooler MKW 150, condensate discharge, drop eliminator, spigot diam. 150 mm, for max. airflow rate 300 m <sup>3</sup> /h, 1.6 kW cooling output (at 300 m <sup>3</sup> /h airflow, incoming water temperature of 7°C and incoming air temperature of 28°C), 2 kW heating output (at 300 m <sup>3</sup> /h airflow, incoming water temperature of 50°C and incoming air temperature of 15°C)	18139	
	Insulation kit for MKW 150 air heater/cooler	18269	
Shaped pieces		Diam.	
	Butterfly damper	100 mm	7898
		125 mm	7899
		150 mm	7900
	Non-return damper, airtight	100 mm	7771
		125 mm	10872
		150 mm	11565
	Duct muffler, 175 x 175 x 600 mm	125 mm	16646
	Aluminum hose band, 50 mm x 50 m x 0.3 mm, up to 120 °C		11515
	Quick-lock hose band, 30 m, in roll		9209
	Clamp for quick-lock hose band	1 pcs	9210
		50 pcs	17061

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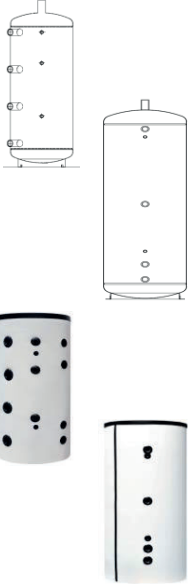
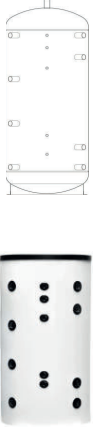
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Square plastic air ducts 60x200 mm		Code
	Square plastic air duct 1.5 m	19247
	Square plastic coupling	20186
	Elbow plastic adapter, square to round 100 mm	20285
	Elbow plastic adapter, square to round 125 mm	20239
	Square to round plastic adapter 100 mm	20290
	Square to round plastic adapter 125 mm	20291
	90° horizontal plastic elbow	20240
	45° horizontal plastic elbow, no divisible segments	20287
	90° vertical plastic elbow	20188
	45° vertical plastic elbow	20288
	T-piece plastic	20187
	Drop down section plastic	20289
	Horizontal ventilation plastic grille, enlarged cover frame	11754
	Plastic ventilation grille, horizontal, frame into a coupling	18578
	Vertical ventilation plastic grille	18159
	Air duct bracket	14255

Metal Air Distribution Boxes for diam. 75mm ducting		Code	
	Air Distribution Box, angled, 3x75/125	15733	
	Air Distribution Box, angled, 5x75/125	16536	
	Air Distribution Box, angled, 8x75/125	16537	
	Air Distribution Box, angled, 8x75/150	16538	
	Air Distribution Box 5x75/60x200	16540	
	Air Distribution Box 8x75/60x200	16539	
	Extension for Air Distribution Box – 0.5m long	125 mm	16542
		150 mm	16706
	Bend, 90°	15739	
	Duct Reducer, angled, 125/75	16541	
	Heat Shrink Sleeve for air ducts	15749	
	DUCT Adhesive Tape, PE - 50 mm x 50 m x 0.15 mm, up to 60°C		16654
			16655
	TALE Adhesive tape, AL - 50 mm x 50 m x 0.3 mm, up to 120°C	16655	
	Air Distribution Box Plug	15751	

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<b>Wall-hung Thermal Stores with insulation for heating/cooling, PSH series, four 1" connections and one 6/4" connection for el. heat. element</b>		<b>Code</b>
	PSH 50 P IZ, WxDxH 560x273x810 mm, 50 l, en. eff. class C, w. insulation, four 1" connections and one 6/4" connection for el. heating element	22071
	PSH 50 PM IZ, WxDxH 560x273x838 mm, 50 l, en. eff. class C, w. insulation, four 1" connections, 2 connections w. 6/4" union nut for manifold/collector and one 6/4" connection for el. heating element	22072
<b>Wall-hung Thermal Stores with insulation for heating/cooling, PS ZC series, 4 connections 1" or 6/4", one connection 6/4" for el. heating element</b>		<b>Code</b>
	PS 50 ZC, WxDxH 480x460x579 mm, 51 l, en. eff. class B, w. insulation, four 1" connections (no connection for el. heating element)	21717
	PS 100 ZC, WxDxH 480x460x894 mm, 97 l, en. eff. class B, w. insulation, four 6/4" connections	21718
<b>Thermal Stores with insulation for heating/cooling, PS IZ series, 5 connections G 6/4", one top connection G 5/4"</b>		<b>Code</b>
	PS 100 IZ, 560 mm diam., 795 mm high, 99 l, en. effic. class A*, with insulation	19769
	PS 200 IZ, 560 mm diam., 1480 mm high, 204 l, en. effic. class B*, with insulation	19770
	PS 300 IZ, 650 mm diam., 1475 mm high, 301 l, en. effic. class B*, with insulation	21560
	PS 500 IZ, 750 mm diam., 1615 mm high, 469 l, en. effic. class C*, with insulation	21561
<b>PS E+ Thermal Stores, 5 G 6/4" connections</b>		<b>Code</b>
	PS 200 E, 450/650 mm diam., 1351 mm high, 180 l, en. effic. class B*	21359
	PS 300 E, 550/750 mm diam., 1405 mm high, 280 l, en. effic. class B*	21428
	PS 500 E+, 600/800 mm diam., 1915 mm high, 473 l, en. effic. class C*	14754
	PS 600 E, 650/850 mm diam., 1935 mm high, 560 l, en. effic. class C*	19488
	PS 800 E, 790/990 mm diam., 1774 mm high, 780 l	21400
	PS 1000 E, 790/990 mm diam., 2124 mm high, 960 l	19493
	PS 1250 E+, 950/1150 mm diam., 2065 mm high, 1260 l	15992
<b>Insulation Sets for PS E and PS E+ (incl. top and bottom insulation)</b>		<b>Code</b>
	SII insulation for PS 200 E thermal store	21427
	SII insulation for PS 300 E thermal store	21429
	SE insulation for PS 500 E+ thermal store	19319
	SE insulation for PS 600 E+ thermal store	19495
	SE insulation for PS 800 E+ thermal store	21451
	SE insulation for PS 1000 E+ thermal store	19500
	SE insulation for PS 1250 E+ thermal store	19324
<b>PS K+ Thermal Stores (reduced height), 9 G 6/4" connections</b>		<b>Code</b>
	PS 400 K+, 600/800 mm diam., 1665 mm high, 403 l, en. effic. class C*	15285
	PS 500 K+, 650/850 mm diam., 1685 mm high, 477 l, en. effic. class C*	15288
	PS 600 K+, 700/900 mm diam., 1705 mm high, 560 l	15291
	PS 900 K+, 850/1050 mm diam., 1765 mm high, 861 l	15297
	PS 1100 K+, 950/1150 mm diam., 1815 mm high, 1085 l	16119
	<b>Insulation Sets for PS K+ (incl. top and bottom insulation)</b>	
	SE insulation for PS 400 K+ thermal store	19338
	SE insulation for PS 500 K+ thermal store	19307
	SE insulation for PS 600 K+ thermal store	19314
	SE insulation for PS 900 K+ thermal store	19326
	SE insulation for PS 1100 K+ thermal store	19323

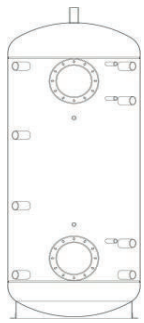
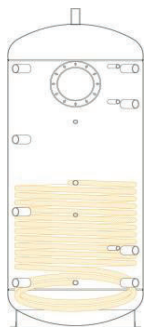
Tank diameter is without/with soft insulation.  
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PS N+ Thermal Stores, 9 G 6/4" connections		Code	
	PS 200 N+, 450/650 mm diam., 1351 mm high, 181 l, en.effic.class C*	14717	
	PS 300 N+, 550/750 mm diam., 1405 mm high, 280 l, en.effic.class C*	14720	
	PS 400 N+, 550/750 mm diam., 1905 mm high, 397 l, en.effic.class C*	13783	
	PS 500 N+, 600/800 mm diam., 1915 mm high, 474 l, en.effic.class C*	14723	
	PS 600 N+, 650/850 mm diam., 1935 mm high, 560 l	15135	
	PS 700 N+, 700/900 mm diam., 1955 mm high, 656 l	15138	
	PS 800 N, 790/990 mm diam., 1774 mm high, 780 l	19492	
	PS 900 N+, 790/990 mm diam., 1975 mm high, 860 l	15144	
	PS 1000 N, 790/990 mm diam., 2124 mm high, 960 l	19489	
	PS 1100 N+, 850/1050 mm diam., 2080 mm high, 1040 l	15150	
	PS 1500 N+, 1100/1300 mm diam., 1885 mm high, 1504 l	15153	
	PS 2000 N+, 1250/1450 mm diam., 1955 mm high, 2005 l	15156	
	<b>Insulation Sets for PS N+ (incl. top and bottom insulation)</b>		<b>Code</b>
	SII insulation for PS 200 N+ thermal store	16326	
	SII insulation for PS 300 N+ thermal store	16327	
	SE insulation for PS 400 N+ thermal store	19304	
	SE insulation for PS 500 N+ thermal store	19296	
	SE insulation for PS 600 N+ thermal store	19322	
	SE insulation for PS 700 N+ thermal store	19316	
	SE insulation for PS 800 N thermal store	19499	
	SE insulation for PS 900 N+ thermal store	19298	
	SE insulation for PS 1000 N thermal store	19496	
	SE insulation for PS 1100 N+ thermal store	19305	
	SE insulation for PS 1500 N+ thermal store	19303	
	SE insulation for PS 2000 N+ thermal store	19312	
	PS N25 Thermal Stores, 9 G 2,5" connections		Code
	PS 500 N25, 600/800 mm diam., 1915 mm high, 476 l, en.effic.class C*	19272	
	PS 1000 N25, 790/990 mm diam., 2124 mm high, 960 l	21366	
	PS 1500 N25, 1100/1300 mm diam., 1885 mm high, 1506 l	19379	
	PS 2000 N25, 1250/1450 mm diam., 1955 mm high, 2007 l	19370	
	PS 3000 N25, 1500/1700 mm diam., 2065 mm high, 3022 l, 9 G 2.5" connections	x 14454	
	PS 4000 N25, 1600/1800 mm diam., 2355 mm high, 3991 l, 9 G 2.5" connections	x 14457	
	PS 5000 N25, 1600/1800 mm diam., 2855 mm high, 4989 l, 9 G 2.5" connections	x 14331	
	<b>Insulation Sets for PS N25 (incl. top and bottom insulation)</b>		<b>Code</b>
		SE insulation for PS 500 N25 thermal store	19274
		SE insulation for PS 1000 N25 thermal store	21464
		SE insulation for PS 1500 N25 thermal store	19381
		SE insulation for PS 2000 N25 thermal store	19372
		SE insulation for PS 3000 N25 thermal store	x 19345
SE insulation for PS 4000 N25 thermal store		x 19352	
SE insulation for PS 5000 N25 thermal store		x 19358	

Tank diameter is without/with soft insulation.  
 \* energy efficiency class of tank with insulation  
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Thermal Stores with 2 flanged openings (no flanges), 9 G 6/4" connections		Code	
	PS2F 300 N+, 550/750 mm diam., 1405 mm high, 285 l, en.effic.class C*	14726	
	PS2F 500 N+, 600/800 mm diam., 1915 mm high, 479 l, en.effic.class C*	14729	
	PS2F 800 N+, 800/1000 mm diam., 1845 mm high, 809 l	15218	
	PS2F 1000 N+, 800/1000 mm diam., 2080 mm high, 932 l	15221	
	PS2F 1500 N+, 1100/1300 mm diam., 1885 mm high, 1509 l	15224	
	PS2F 2000 N+, 1250/1450 mm diam., 1955 mm high, 2010 l	15227	
	PS2F 3000 N25, 1500/1700 mm diam., 2065 mm high, 3027 l, 9 G 2.5" connections	x 14460	
	<b>Insulation Sets for PS2F N+ (incl. top and bottom insulation)</b>		<b>Code</b>
	SE insulation for PS2F 300 N+ thermal store	19349	
	SE insulation for PS2F 500 N+ thermal store	19347	
SE insulation for PS2F 800 N+ thermal store	19348		
SE insulation for PS2F 1000 N+ thermal store	19340		
SE insulation for PS2F 1500 N+ thermal store	19344		
SE insulation for PS2F 2000 N+ thermal store	19351		
SE insulation for PS2F 3000 N25 thermal store	x 19359		
<b>Thermal Stores with heat exchanger and flanged opening (no flange), 9 G 6/4" connections</b>		<b>Code</b>	
	PSWF 300 N+, 550/750 mm diam., 1405 mm high, 280 l, 1.5 sqm heat exchanger, en.effic.class C*	14732	
	PSWF 500 N+, 600/800 mm diam., 1915 mm high, 472 l, 2,0 sqm heat exchanger, en.effic.class C*	14735	
	PSWF 800 N+, 800/1000 mm diam., 1845 mm high, 807 l, 2,7 sqm heat exchanger	15230	
	PSWF 1000 N+, 800/1000 mm diam., 2080 mm high, 930 l, 3,2 sqm heat exchanger	15232	
	PSWF 1500 N+, 1100/1300 mm diam., 1885 mm high, 1498 l, 4,0 sqm heat exchanger	15234	
	PSWF 2000 N+, 1250/1450 mm diam., 1955 mm high, 1996 l, 4,5 sqm heat exchanger	15236	
	PSWF 2000 N25, 1250/1450 mm diam., 1955 mm high, 1997 l, 4,5 sqm heat exchanger, 9x 0	20565	
	<b>Insulation Sets for PSWF N+ (incl. top and bottom insulation)</b>		<b>Code</b>
	SE insulation for PSWF 300 N+ thermal store	19342	
	SE insulation for PSWF 500 N+ thermal store	19332	
SE insulation for PSWF 800 N+ thermal store	19343		
SE insulation for PSWF 1000 N+ thermal store	19325		
SE insulation for PSWF 1500 N+ thermal store	19350		
SE insulation for PSWF 2000 N+ thermal store	19355		
SE insulation for PSWF 2000 N25 thermal store	20602		

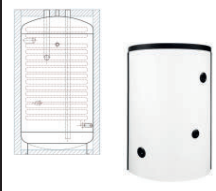
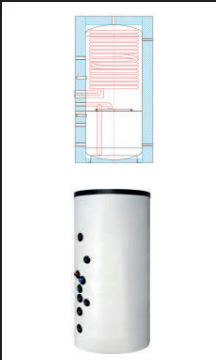


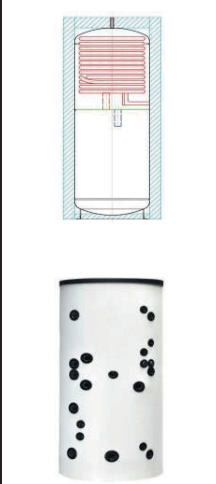
Tank diameter is without/with insulation.  
 \* energy efficiency class of tank with insulation  
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Prices of PS2F Thermal stores do not include flanges. For flanges, see next page.

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Flanges for thermal stores		Code	
	Blind flange - d=312, no holes	6230	
	Flange for finned copper heat exchanger (code 6150 to 6154) - d=312, 2xd=30-70	6231	
	Flange for finned copper heat exchanger (code 6155 to 6157) - d=312, 2xd=39-90	6232	
Finned copper tube heat exchangers, flange mount		Code	
	Tube heat exchanger 0.6 sqm, d. 145x410mm, 3/4", 1 coil (for flange code 6231)	6150	
	Tube heat exchanger 1.06 sqm, d. 145x420mm, 3/4", 1 coil (for flange code 6231)	6151	
	Tube heat exchanger 1.8 sqm, d. 170x470mm, 3/4", 1 coil (for flange code 6231)	6152	
	Tube heat exchanger 2.63 sqm, d. 190x600mm, 3/4", 1 coil (for flange code 6231)	6154	
	Tube heat exchanger 3.15 sqm, d. 190x560mm, 1", 2 coils (for flange code 6232)	6157	
	Tube heat exchanger 3.6 sqm, d. 190x630mm, 1", 2 coils (for flange code 6232)	6155	
	Tube heat exchanger 4.5 sqm, d. 190x750mm, 1", 2 coils (for flange code 6232)	6156	
Other accessories to thermal stores		Code	
	Accessory Kit for PSxx N+ (thermometer, pressure gauge, safety valve, sheath)	17566	
	Accessory Kit for PS E+ (thermometer, pressure gauge, safety valve, T-piece)	17567	
	Insulation in EPP to insulate not used (blinded) connections, 110 mm diam., 85 mm long	14818	
	Plug 1/2" w. gasket (Asbestos-free)	7634	
	Plug 1"	7691	
	Plug 6/4"	7881	
	Hex Nipple, 6/4" M/M	7627	
	Reducing Hex Nipple, 6/4" x 1", M/M	8766	
	Reducing Hex Nipple, 6/4" x 5/4", M/M	8767	
	Reducer, 1/2" x 1/4" M/F for thermomanometers	16169	
	Reducer, 6/4" x 1", M/F	7882	
	T-piece set, 1" F/M with 7 x 9 x 45 mm sheath and spring	18650	
	T-piece set with union nut 1" F/Fu with 7 x 9 x 45 mm sheath and spring	18651	
	T-piece, 1/2" F x 1/4" F x 1/2" M for pressure gauge and 1/2" sheath installation	16170	
		45 mm	14879
		60 mm	15746
		100 mm	14880
	Single sheath, 7x9 mm, 1/2", brass	120 mm	15745
		160 mm	16590
		180 mm	16591
		200 mm	14881
		100 mm	15744
	Sheath for 3 sensors, 15x17 mm, 1/2", brass	130 mm	16592
		230 mm	15743
	Sheath for 4 sensors, 15x17 mm, 1/2", brass	120 mm	14882
	Spring to replace one sensor in multi-sensor sheath		9185
	Curly spring to fix sensor in sheath (for sheath for 3 or 4 sensors)		1497
Capillary spring, small, 1/2", stainless steel	1 ks	10845	
	100 ks	13563	
Capillary spring, big, 3/4", stainless steel	1 ks	13557	
	100 ks	13565	

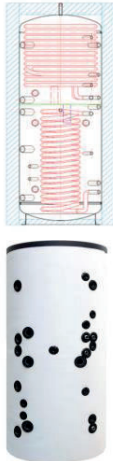
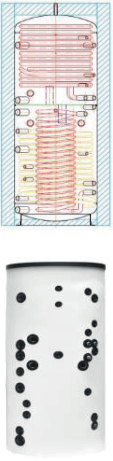

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<b>HSK TV Hot water storage tank with stainless-steel tube DHW heat exchanger</b>		<b>Code</b>
	HSK 220 TV - diam. 550/710 mm, 1105 mm high, 222 l, 6 sqm DHW heat exchanger, energy effic. B*	19617
	<b>Insulation Set for HSK TV (incl. top and bottom insulation)</b>	<b>Code</b>
	SE insulation for HSK 220 TV tank	19619
<b>HSK PB Thermal Store, reduced height, stainless-steel DHW heat exchanger, for installation with one 3-way valve (suitable for RegulusBOX)</b>		
	HSK 250 PB - diam. 450/650 mm, 1850 mm high, 260 l, 6 sqm DHW heat exchanger, energy effic. class C*	20294
	HSK 350 K P-B - diam. 550/750 mm, 1655 mm high, 340 l, 6 sqm DHW heat exchanger, energy effic. class C*	18628
	HSK 650 PB - diam. 750/950 mm, 1725 mm high, 625 l, 6 sqm DHW heat exchanger	19633
	<b>Insulation Set for HSK PB (incl. top and bottom insulation)</b>	<b>Code</b>
	SE insulation for HSK 250 PB thermal store	20296
	SE insulation for HSK 350 K P-B thermal store	18837
	SE insulation for HSK 650 PB thermal store	19635
<b>HSK P+ Thermal Store with stainless-steel tube DHW heat exchanger and separating metal sheet (left or right connection of heat pump)</b>		
	HSK 400 P+ diam. 550/750 mm, 1905 mm high, 408 l, 6 sqm DHW heat exchanger, energy effic. class B/C (SN/SE)*	21208
	<b>Insulation Set for HSK P+ (incl. top and bottom insulation)</b>	<b>Code</b>
	SN insulation for HSK 400 P+	21719
	SE insulation for HSK 400 P+	19609
<b>HSK PR+ Thermal Store with stainless-steel tube DHW heat exchanger, separ. metal sheet and solar heat exchanger (left or right connection)</b>		
	HSK 400 PR+ diam. 550/750 mm, 1905 mm high, 404 l, 6 sqm DHW heat exchanger, 1.5 sqm solar HE, energy effic. class B/C (SN/SE)*	21210
	<b>Insulation Set for HSK PR+ (incl. top and bottom insulation)</b>	<b>Code</b>
	SN insulation for HSK 400 PR+	21720
	SE insulation for HSK 400 PR+	19612
<b>HSK P Thermal Store with stainless-steel tube DHW heat exchanger and separating metal sheet</b>		
	HSK 600 P diam. 650/850 mm, 1935 mm high, 560 l, 6 sqm DHW heat exchanger	21180
	HSK 750 P diam. 750/950 mm, 1975 mm high, 760 l, 6 sqm DHW heat exchanger	21198
	HSK 1000 P diam. 800/1000 mm, 2080 mm high, 925 l, 6 sqm DHW heat exchanger	21192
	HSK 1700 P diam. 1100/1300 mm, 2075 mm high, 1687 l, 6 sqm DHW heat exchanger	21185
	<b>Insulation Sets for HSK P (incl. top and bottom insulation)</b>	<b>Code</b>
	SE insulation for HSK 600 P thermal store	18724
	SE insulation for HSK 750 P thermal store	18840
	SE insulation for HSK 1000 P thermal store	18843
SE insulation for HSK 1700 P thermal store	18846	

Tank diameter is without/with insulation.

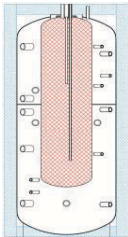

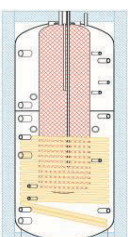


\* energy efficiency class of tank with insulation

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<b>HSK PV Thermal Store with 2 stainless-steel tube DHW heat exchangers and separating metal sheet</b>		<b>Code</b>	
	HSK 600 PV diam. 650/850 mm, 1935 mm high, 557 l, 6+3 sqm DHW heat exchangers	21196	
	HSK 750 PV diam. 750/950 mm, 1975 mm high, 760 l, 6+3 sqm DHW heat exchangers	21190	
	HSK 1000 PV diam. 800/1000 mm, 2080 mm high, 922 l, 6+3 sqm DHW heat exchangers	21184	
	HSK 1700 PV diam. 1100/1300 mm, 2075 mm high, 1684 l, 6+3 sqm DHW heat exchangers	21202	
	<b>Insulation Sets for HSK PV (incl. top and bottom insulation)</b>	<b>Code</b>	
	SE insulation for HSK 600 PV thermal store	18839	
	SE insulation for HSK 750 PV thermal store	18842	
	SE insulation for HSK 1000 PV thermal store	18845	
	SE insulation for HSK 1700 PV thermal store	18848	
<b>HSK PR Thermal Store with stainless-steel DHW tube heat exchanger(s), separating metal sheet and solar HE (suitable for solar thermal systems)</b>		<b>Code</b>	
	HSK 600 PR - diam. 650/850 mm, 1935 mm high, 553 l, 6+3 sqm DHW heat exchanger, 2.4 sqm solar HE	21188	
	HSK 750 PR - diam. 750/950 mm, 1975 mm high, 753 l, 6+3 sqm DHW heat exchanger, 2.5 sqm solar HE	21182	
	HSK 1000 PR - diam. 800/1000 mm, 2080 mm high, 916 l, 6+3 sqm DHW heat exchanger, 3.2 sqm solar HE	21200	
	HSK 1700 PR - diam. 1100/1300 mm, 2075 mm high, 1676 l, 6+3 sqm DHW heat exchanger, 4.0 sqm solar HE	21194	
	<b>Insulation Sets for HSK PR (incl. top and bottom insulation)</b>	<b>Code</b>	
	SE insulation for HSK 600 PR thermal store	18838	
	SE insulation for HSK 750 PR thermal store	18841	
	SE insulation for HSK 1000 PR thermal store	18844	
	SE insulation for HSK 1700 PR thermal store	18847	
<b>Accessories to DUO and HSK thermal store</b>		<b>Code</b>	
	Accessory Kit for HSK P (thermometer, pressure gauge, safety valve, air vent valve, sheath)	17568	
	Accessory Kit for HSK PR/PV (thermometer, pressure gauge, safety valve, air vent valve, 2x sheath)	17569	
	Safety Kit for hot water storage tanks up to 200 l (safety valve, non-return valve with functional check, ball valve, drain valve, pressure gauge), 3/4" F/M	6 bar	17387
		7 bar	18272
		8 bar	18288
		10 bar	18274
	3/4" PTR valve pressure and temperature release valve for hot water storage tank protection against high pressure and overheating	7 bar, 92 °C	17240
10 bar, 92 °C		17241	
Connection Kit – PTR valve x HSK Thermal Stores	17527		

Tank diameter is without/with insulation.  
\* energy efficiency class of tank with insulation

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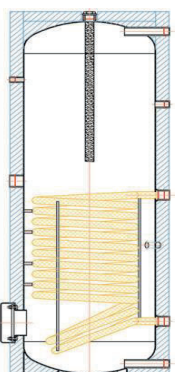
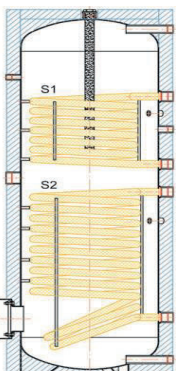
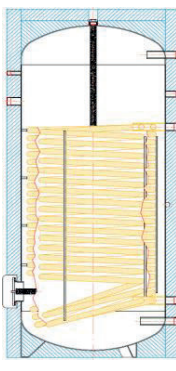
<b>DUO N P Thermal Stores with immersed stainless-steel DHW tank and separating metal sheet</b>		<b>Code</b>	
	DUO 390/130 N P diam. 550/750 mm, 1880 mm high, 396 l, energy effic. class C*	19131	
	DUO 600/200 N P diam. 650/850 mm, 1910 mm high, 559 l	19147	
	DUO 750/200 N P diam. 750/950 mm, 1955 mm high, 757 l	19141	
	DUO 1000/200 N P diam. 800/1000 mm, 2055 mm high, 903 l	19143	
	DUO 1700/200 N P diam. 1100/1300 mm, 2055 mm high, 1682 l	x 19137	
	<b>Insulation sets for DUO N P (incl. top and bottom insulation)</b>		<b>Code</b>
	SE insulation for DUO 390/130 N P thermal store	19318	
	SE insulation for DUO 600/200 N P thermal store	19330	
	SE insulation for DUO 750/200 N P thermal store	19333	
	SE insulation for DUO 1000/200 N P thermal store	19334	
	SE insulation for DUO 1700/200 N P thermal store	x 19354	
	<b>DUO N PR Thermal Stores with immersed stainless-steel DHW tank, separating metal sheet and heat exchanger (intended for use with solar)</b>		
	<b>Code</b>		
		DUO 390/130 N PR diam. 550/750 mm, 1880 mm high, 396 l, 1.5 sqm heat exchanger, en. eff. class C*	19139
		DUO 600/200 N PR diam. 650/850 mm, 1910 mm high, 559 l, 2.4 sqm heat exchanger	19133
		DUO 750/200 N PR diam. 750/950 mm, 1955 mm high, 757 l, 2.5 sqm heat exchanger	19135
		DUO 1000/200 N PR diam. 800/1000 mm, 2055 mm high, 903 l, 3.2 sqm heat exchanger	19149
DUO 1700/200 N PR diam. 1100/1300 mm, 2055 mm high, 1682 l, 4 sqm heat exchanger		x 19145	
<b>Insulation sets for DUO N PR (incl. top and bottom insulation)</b>		<b>Code</b>	
	SE insulation for DUO 390/130 N PR thermal store	19293	
	SE insulation for DUO 600/200 N PR thermal store	19321	
	SE insulation for DUO 750/200 N PR thermal store	19327	
	SE insulation for DUO 1000/200 N PR thermal store	19329	
	SE insulation for DUO 1700/200 N PR thermal store	x 19357	
	<b>Accessories to DUO and HSK thermal store</b>		
	<b>Code</b>		
		Electronic anode rod for DUO 390/130 - 1700/200	13793
		Accessory Kit for DUO P (thermometer, pressure gauge, safety valve, air vent valve, sheath)	17568
		Accessory Kit for DUO PR (thermometer, pressure gauge, safety valve, air vent valve, 2x sheath)	17569
		Safety Kit for hot water storage tanks up to 200 l (safety valve, non-return valve with functional check, ball valve, drain valve, pressure gauge), 3/4" F/M	6 bar 17387 7 bar 18272 8 bar 18288 10 bar 18274
3/4" PTR valve - pressure and temperature release valve for hot water storage tank protection against high pressure and overheating		7 bar, 92 °C 17240 10 bar, 92 °C 17241	
Connection Kit – PTR valve x DUO Thermal Stores		17525	

Tank diameter is without/with insulation.

\* energy efficiency class of tank with insulation

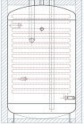


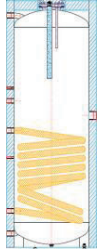




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<b>R0BC hot water storage tanks, incl. insulation</b>		<b>Code</b>
	R0BC 200, HW storage tank, enameled, 212 l, diam. 600 mm, 1265 mm high, en. ef. class C	10586
	R0BC 300 HW storage tank, enameled, 297 l, diam. 610 mm, 1710 mm high, en. ef. class C	10571
	R0BC 400 HW storage tank, enameled, 420 l, diam. 710 mm, 1690 mm high, en. ef. class C	10587
	R0BC 500 HW storage tank, enameled, 513 l, diam. 760 mm, 1780 mm high	8795
	R0BC 750 HW storage tank, enameled, 763 l, diam. 950 mm, 1870 mm high	10364
	R0BC 1000 HW storage tank, enameled, 885 l, diam. 950 mm, 2120 mm high	10365
	R0BC 1500 HW storage tank, enameled, 1494 l, diam. 1200 mm, 2285 mm high	x 16715
	R0BC 2000 HW storage tank, enameled, 2013 l, diam. 1300 mm, 2550 mm high	x 16716
	R0BC 2500 HW storage tank, enameled, 2508 l, diam. 1400 mm, 2680 mm high	x 10501
	R0BC 3000 HW storage tank, enameled, 2841 l, diam. 1400 mm, 2980 mm high	x 8901
	R0BC 4000 HW storage tank, enameled, 3910 l, diam. 1800 mm, 2410 mm high	x 21422
R0BC 5000 HW storage tank, enameled, 4915 l, diam. 1800 mm, 2915 mm high	x 21423	
<b>RBC hot water storage tanks with 1 heat exchanger, incl. insulation</b>		<b>Code</b>
	RBC 200 HW storage tank, enameled, 214 l, diam. 610 mm, 1265 mm high, en. ef. class C	3252
	RBC 300 HW storage tank, enameled, 297 l, diam. 610 mm, 1710 mm high, en. ef. class C	3253
	RBC 400 HW storage tank, enameled, 408 l, diam. 710 mm, 1655 mm high, en. ef. class C	6479
	RBC 500 HW storage tank, enameled, 515 l, diam. 760 mm, 1785 mm high, en. ef. class C	6480
	RBC 750 HW storage tank, enameled, 767 l, diam. 950 mm, 1870 mm high	4037
	RBC 1000 HW storage tank, enameled, 887 l, diam. 950 mm, 2120 mm high	4038
	RBC 1500 HW storage tank, enameled, 1492 l, diam. 1200 mm, 2285 mm high	x 16710
	RBC 2000 HW storage tank, enameled, 2006 l, diam. 1300 mm, 2550 mm high	x 16711
	RBC 2500 HW storage tank, enameled, 2509 l, diam. 1400 mm, 2680 mm high	x 12420
	RBC 3000 HW storage tank, enameled, 2841 l, diam. 1400 mm, 2980 mm high	x 8477
<b>R2BC hot water storage tanks with 2 heat exchangers, incl. insulation</b>		<b>Code</b>
	R2BC 200 HW storage tank, enameled, 212 l, diam. 610 mm, 1265 mm high, en. ef. class C	6481
	R2BC 300 HW storage tank, enameled, 299 l, diam. 660 mm, 1710 mm high, en. ef. class C	6482
	R2BC 400 HW storage tank, enameled, 420 l, diam. 710 mm, 1690 mm high, en. ef. class C	6483
	R2BC 500 HW storage tank, enameled, 514 l, diam. 760 mm, 1780 mm high, en. ef. class C	6484
	R2BC 750 HW storage tank, enameled, 762 l, diam. 950 mm, 1870 mm high	6485
	R2BC 1000 HW storage tank, enameled, 883 l, diam. 950 mm, 2120 mm high	5758
	R2BC 1500 HW storage tank, enameled, 1493 l, diam. 1200 mm, 2285 mm high	x 16712
	R2BC 2000 HW storage tank, enameled, 2007 l, diam. 1300 mm, 2550 mm high	x 16713
	R2BC 2500 HW storage tank, enameled, 2510 l, diam. 1400 mm, 2680 mm high	x 12432
	R2BC 3000 HW storage tank, enameled, 2841 l, diam. 1400 mm, 2980 mm high	x 8474
	<b>RBC HP hot water storage tanks, upsized heat exchanger, incl. insul.</b>	
	RBC 200HP, HW storage tank, enameled, 205 l, diam. 610 mm, 1265 mm high heat exchanger surface 3 sqm, en. effic. class C	10534
	RBC 300 HP 3.2V - diam. 604 mm, 1710 mm high, 299 l, heat exchanger surface 3.2 sqm, en. effic. class C	18748
	RBC 300HP, HW storage tank, enameled, 299 l, diam. 610 mm, 1710 mm high heat exchanger surface 3.8 sqm, en. effic. class C	10535
	RBC 400HP, HW storage tank, enameled, 407 l, diam. 710 mm, 1655 mm high heat exchanger surface 5 sqm, en. effic. class C	10536
	RBC 500HP, HW storage tank, enameled, 509 l, diam. 760 mm, 1785 mm high heat exchanger surface 5.9 sqm, en. effic. class C	8546
	RBC 750HP, HW storage tank, enameled, 764 l, diam. 950 mm, 1870 mm high heat exchanger surface 7.5 sqm	10537
	RBC 1000HP, HW storage tank, enameled, diam. 950 mm, 2120 mm high heat exchanger surface 10 sqm (no 6/4" connection for electric heating element)	7883
	RBC 1500HP, HW storage tank, enameled, 1516 l, diam. 1200 mm, 2285 mm high heat exchanger surface 11 sqm (no 6/4" connection for electric heating element)	x 16714

Tank diameter is incl. insulation. The insulation is detachable.







x - upon order

<b>HSK TV Hot water storage tank with stainless-steel tube DHW heat exchanger</b>		<b>Code</b>	
	HSK 220 TV diam. 550/710 mm, 1105 mm high, 222 l, 6 sqm DHW heat exchanger, energy effic. B (with insulation)	19617	
	SE insulation for HSK 220 TV tank	19619	
<b>NBC hot water storage tanks with 1 upsized heat exchanger, incl. insulation</b>		<b>Code</b>	
	NBC 170 HP hot water storage tank, stainless-steel, connection points upwards, 170 l, 603 mm diam., 1075 mm high, 2 sqm DHW heat exchanger, energy eff. class B, suitable to connect to a heat pump and condensing boiler	17615	
<b>RGC Hot Water Storage Tanks with 1 heat exchanger, incl. insulation</b>		<b>Code</b>	
	RGC 170 hot water storage tank, enameled, connection points upwards, 173 l, diam. 715 mm, 1030 mm high, 1.6 sqm DHW heat exchanger, energy effic. class B	19196	
	RGC 300 HP 2.5 hot water storage tank, enameled, 283 l, diam. 700 mm, 1205 mm high, 2.5 sqm DHW heat exchanger, energy effic. class C	19856	
<b>RDC hot water storage tanks with 1 heat exchanger, incl. insulation</b>		<b>Code</b>	
	RDC 160 hot water storage tank, enameled, 157 l, diam. 584 mm, 1075 mm high, 0.8 sqm DHW heat exchanger, energy effic. class C	12772	
	RDC 200 hot water storage tank, enameled, 216 l, diam. 584 mm, 1352 mm high, 1 sqm DHW heat exchanger, energy effic. class C	12758	
	RDC 250 hot water storage tank, enameled, 274 l, diam. 584 mm, 1560 mm high, 1.5 sqm DHW heat exchanger, energy effic. class C	15860	
	RDC 300 hot water storage tank, enameled, 302 l, diam. 597 mm, 1790 mm high, 1.5 sqm DHW heat exchanger, energy effic. class C	12759	
<b>R2DC hot water storage tanks with 2 heat exchangers, incl. insulation</b>		<b>Code</b>	
	R2DC 160 hot water storage tank, enameled, 153 l, diam. 584 mm, 1074 mm high, 0.7+0.8 sqm DHW heat exchanger, energy effic. class C	13490	
	R2DC 200 hot water storage tank, enameled, 216 l, diam. 584 mm, 1380 mm high, 1.0+1.0 sqm DHW heat exchanger, energy effic. class C	11351	
	R2DC 250 hot water storage tank, enameled, 260 l, diam. 584 mm, 1560 mm high, 1.0+1.5 sqm DHW heat exchanger, energy effic. class C	12051	
	R2DC 300 hot water storage tank, enameled, 293 l, diam. 597 mm, 1790 mm high, 1.0+1.5 sqm DHW heat exchanger, energy effic. class C	11352	
<b>Safety Kits for hot water storage tanks</b>		<b>Code</b>	
	Safety Kit for hot water storage tanks up to 200 l (safety valve, non-return valve with functional check, ball valve, drain valve, pressure gauge), 3/4" F/M	6 bar	17387
		7 bar	18272
		8 bar	18288
		10 bar	18274
	Safety Kit for hot water storage tanks up to 1000 l (safety valve, non-return valve with functional check, ball valve, drain valve, pressure gauge), 1" F/M	6 bar	18678
		7 bar	18273
		8 bar	18287
		10 bar	18275
	PTR valve - pressure and temperature release valve for hot water storage tanks protection against high pressure and overheating	7 bar, 92 °C	17240
		10 bar, 92 °C	17241
Connection Kit - PTR valve x hot wat. tanks:	RxDC, DUO	17525	
	R0BC 200–750	17524	
	RBC 200–400 (HP), R2BC 200–400	17526	
	RBC 500–1000 (HP), R2BC 500–1000	17528	
	R0BC 1000, RxBC 1500–3000 (HP)	17529	

Tank diameter is incl. insulation. The insulation is not detachable.

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Electronic anode rods			
	<b>Kits for Regulus Hot Water Storage Tanks</b>		<b>Code</b>
	Electronic anode rod for hot water st. tanks:	DUO 390/130–1700/200, NBC 170 HP	13793
		RGC 170, RGC 300 HP 2.5	9176
		RxDC 160, RBC 200	9173
		RxDC 200–250, R0BC 200–500, RBC 300, R2BC 200–300	9174
		RBC 200–300 HP	17375
		RBC 300 HP 3.2	21585
	Electronic anode rod (set of two) for hot water st. tanks:	R0BC 750–1000	17372
		RxDC 300	17378
		RBC 400–500, R2BC 400–500	17368
RBC 400–500 HP		17376	
RBC 750–1000, R2BC 750–1000		17369	
RBC 750–1500 HP		17377	
Electronic anode rod (set of three) for hot water st. tanks:	RxBC 1500–2500, R0BC 3000	14429	
	RBC 3000, R2BC 3000	17371	
	R0BC 4000 a 5000	21613	
<b>Universal Kits</b>		<b>Code</b>	
	Electronic anode rod - 1/2" thread, incl. electronics, length in total/active:	350/150 mm	9169
		450/250 mm	4052
		500/150 mm	9170
		600/250 mm	3836
		750/200 mm	3837
		800/250 mm	17475
<b>Other accessories to hot water storage tanks</b>			<b>Code</b>
	Flange for another el. heating element 6/4", incl. el. anode rod kit for hot water storage tanks:	RxDC 300	21634
		RBC 200	21644
		R0BC 200, R2BC 200, RxBC 300	21635
	Flange for another el. heating element 6/4", incl. el. anode rod kit, for hot water storage tanks:	RxBC 400–500, RBC 300 HP 3.2	17432
		RBC 200–500 HP	17434
		RBC 750–1000 HP, R0BC 750–1000	17428
		RBC 750–1000, R2BC 750–1000	17433
		RBC 1500 HP, RxBC 1500–2500, R0BC 3000	17435
	Flange for tube heating exchanger, incl. el. anode rod kit for hot water storage tanks:	RBC 3000, R2BC 3000	17436
		RxDC 300	21636
		RBC 200	21648
	Tube heat exchanger 0.94 sqm, 3/4", l=400 for hot water storage tanks:	R0BC 200, R2BC 200, RxBC 300	21637
		RxBC 200-300 i RxDC 300	8377

Magnesium anode rods can be found in the Spare Parts Catalogue.

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## Regulus stainless-steel plate heat exchangers with EPDM insulation

DV193 insulated heat exchangers					Code
		fluid / flow rate (l/h)	fluid / flow rate (l/h)	fluid / flow rate (l/h)	
	Primary circuit	Solarten/60 l/h/sqm	water / 1000 l/h	water / 1000 l/h	
	Secondary circuit	water / 1000 l/h	water / 1000 l/h	water / 1000 l/h	
		collector surface	heat exch. output	heat exch. output	
		for mid dT* 10K	for mid dT* 20K	for mid dT* 40K	
	<b>DV193-20E</b>	4xG3/4"M	6 sqm	16 kW	26 kW
<b>DV193-30E</b>	4xG3/4"M	10 sqm	24 kW	38 kW	9549
<b>DV193-45E</b>	4xG3/4"M	16 sqm	35 kW	58 kW	9550
<b>DV193-60E</b>	4xG3/4"M	21 sqm	47 kW	78 kW	9551
DV285 insulated heat exchangers					Code
		fluid / flow rate (l/h)	fluid / flow rate (l/h)	fluid / flow rate (l/h)	
	Primary circuit	Solarten/60 l/h/sqm	water / 1500 l/h	water / 1500 l/h	
	Secondary circuit	water / 1500 l/h	water / 1500 l/h	water / 1500 l/h	
		collector surface	heat exch.output	heat exch.output	
		for mid. dT* 10K	for mid. dT* 20K	for mid. dT* 40K	
	<b>DV285-10E</b>	4xG1"M	4 sqm	14 kW	22 kW
<b>DV285-20E</b>	4xG1"M	10 sqm	30 kW	46 kW	9553
<b>DV285-30E</b>	4xG1"M	15 sqm	45 kW	71 kW	9554
<b>DV285-45E</b>	4xG1"M	23 sqm	68 kW	109 kW	9555
<b>DV285-60E</b>	4xG1"M	31 sqm	90 kW	141 kW	9556
DV500 insulated heat exchangers					Code
	DV503-20E, 4xG1"M - design on request				11045
	DV503-40E, 4xG1"M - design on request				10495
	DV503-60E, 4xG1"M - design on request				10496
DV800 insulated heat exchangers					Code
DV800-30E, 4xG2"M - design on request				10490	
DV800-50E - 4xG2"M - design on request				10491	
Kits for solar heating of thermal stores with no solar heat exchanger					Code
	DV193-30E with CSE OTS ZV W pump station with Wilo Para 25/8 SC pump				15946

\*delta T – medium temperature difference between the primary and secondary HE circuit  
Recommended collector areas and performances are calculated for specific examples and are informative only.

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<b>ETT-A Electric Heating Elements, 6/4" M, for Hot Water Heaters and Thermal Stores</b>					<b>Code</b>
 <p><b>Heating element ETT-A</b> - 100 mm non-heating end - nickel-plated - for heating/drinking water - without power cable</p>	3x230 V	245 mm	2 kW	8935	
	3x230 V	305 mm	3 kW	8936	
	3x230 V	370 mm	4,5 kW	8937	
	3x230 V	495 mm	6 kW	8938	
	3x400 V	585 mm	7,5 kW	8939	
	3x400 V	680 mm	9 kW	8940	
	3x400 V	815 mm	12 kW	8941	
<b>ETT-C Electric Heating Elements, 6/4" M, for Thermal Stores</b>					<b>Code</b>
 <p><b>Heating element ETT-C</b> - 180 mm non-heating end - copper - for heating/drinking water - without power cable</p>	3x230 V	310 mm	2 kW	14519	
	3x230 V	370 mm	3 kW	8902	
	3x230 V	500 mm	5 kW	14359	
	3x230 V	555 mm	6 kW	8897	
	3x400 V	635 mm	7,5 kW	9618	
	3x400 V	700 mm	8,2 kW	14501	
	3x400 V	755 mm	9 kW	12272	
3x400 V	955 mm	12 kW	12273		
<b>ETT-B Electric Heating Elements, 6/4" M, for Thermal Stores</b>					<b>Code</b>
 <p><b>Heating element ETT-B</b> - 45 mm non-heating end - copper - for heating/drinking water - without power cable</p>	3x230 V	178 mm	2 kW	4973	
	3x230 V	240 mm	3 kW	4972	
	3x230 V	333 mm	4,5 kW	4971	
	3x230 V	428 mm	6 kW	4970	
	3x400 V	520 mm	7,5 kW	4969	
	3x400 V	615 mm	9 kW	16950	

The heating element's length includes the thread.

Copper and nickel-plated copper elements are not intended for stainless steel tanks! In stainless steel tanks only stainless steel heating elements shall be used.

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ETT-M Electric Heating Elements, 6/4" M, for Hot Water Heaters and Thermal Stores					Code
	<b>Heating element ETT-M</b> - adjustable thermostat 0–90 °C - 180 mm non-heating end - nickel-plated - for heating/drinking water - 3m power cable with plug - high-limit thermostat 99 °C	1x230 V	300 mm	1,2 kW	15166
		1x230 V	350 mm	2 kW	15167
		1x230 V	420 mm	2,4 kW	15168
		1x230 V	450 mm	3 kW	15169
ETT-N Electric Heating Elements, 6/4" M, for Hot Water Heaters and Thermal Stores to plug in solar pump stations					Code
	<b>Heating element ETT-N</b> - 180 mm non-heating end - nickel-plated - for heating/drinking water - 5m 3-wire power cable with connector - high-limit thermostat 99 °C - switch	1x230 V	350 mm	2 kW	16942
		1x230 V	450 mm	3 kW	16943
ETT-D2 Electric Heating Elements, 6/4" M, for Hot Water Heaters and Thermal Stores					Code
	<b>Heating element ETT-D2</b> - adjustable thermostat 0–90 °C - 100 mm non-heating end - nickel-plated - for heating/drinking water - 2m 5-wire power cable - high-limit thermostat 99 °C - contactor	1x230 V	315 mm	2 kW	19703
		1x230 V	370 mm	3 kW	19710
ETT-P Electric Heating Elements, 6/4" M, for Hot Water Heaters and Thermal Stores					Code
	<b>Heating element ETT-P</b> - adjustable thermostat 0–90 °C - 180 mm non-heating end - nickel-plated - for heating/drinking water - 2m 7-wire power cable - high-limit thermostat 99 °C - contactor	3x230 V	310 mm	2 kW	19041
		3x230 V	370 mm	3 kW	19043
		3x230 V	500 mm	5 kW	18915
		3x230 V	555 mm	6 kW	18386
		3x400 V	635 mm	7,5 kW	19045
		3x400 V	700 mm	8,2 kW	19042
		3x400 V	755 mm	9 kW	19044

The heating element's length includes the thread.

Copper elements and nickel-plated copper elements are not intended for stainless steel vessels! For stainless-steel vessels use stainless-steel elements only.





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<b>ETT-F2 Electric Heating Elements, 6/4" M, for Hot Water Heaters and Thermal Stores, for use with PV systems</b>				<b>Code</b>	
	<b>Heating element ETT-F2</b> - adjustable thermostat 0–90 °C - 180 mm non-heating end - nickel-plated - for heating/drinking water - 2m 7-wire power cable - high-limit thermostat 99 °C - contactor	3x230 V	370 mm	3 kW	20232
		3x230 V	500 mm	5 kW	20234
<b>ETT-U Electric Heating Elements, 6/4" M, for Hot Water Heaters and Thermal Stores, for use with PV systems</b>				<b>Code</b>	
	<b>Heating element ETT-U</b> - adjustable thermostat 15–80 °C - 180 mm non-heating end - nickel-plated - for heating/drinking water - 2m 5-wire power cable (7-wire at 6 kW) - high-limit thermostat 99 °C	3x230 V	310 mm	2 kW	20214
		3x230 V	370 mm	3 kW	20220
		3x230 V	500 mm	5 kW	20216
		3x230 V	555 mm	6 kW	20219
<b>ETT-R Electric Heating Elements, 6/4" M, for Hot Water Heaters and Thermal Stores, for use with PV systems</b>				<b>Code</b>	
	<b>Heating element ETT-R</b> - adjustable thermostat 25–85 °C - 100 mm non-heating end - nickel-plated - for heating/drinking water - without power cable - high-limit thermostat 99 °C	3x230 V	295 mm	2 kW	19695
		3x230 V	295 mm	3 kW	19699
		3x230 V	360 mm	4,5 kW	19691
		3x230 V	485 mm	6 kW	19277
		3x230 V	670 mm	9 kW	19693
		3x230 V	805 mm	12 kW	20168
<b>ETT-S Electric Heating Elements, 6/4" M, for Hot Water Heaters and Thermal Stores</b>				<b>Code</b>	
	<b>Heating element ETT-S</b> - adjustable thermostat 25–85 °C - 100 mm non-heating end - nickel-plated - for heating/drinking water - without power cable - high-limit thermostat 99 °C	3x400 V	575 mm	7,5 kW	20169
		3x400 V	670 mm	9 kW	19701
		3x400 V	805 mm	12 kW	20167

The heating element's length includes the thread.

Copper elements and nickel-plated copper elements are not intended for stainless steel vessels! For stainless-steel vessels use stainless-steel elements only.

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Electric heating elements Z-ZT, 1/2", for bathroom towel radiators			Code
 <p><b>Heating element Z-ZT</b> - stainless steel - for heating/drinking water - coiled cord with a plug</p>	318 mm	200 W	11950
	395 mm	300 W	7145
	435 mm	400 W	7146
	535 mm	500 W	7585
	585 mm	600 W	7586
	685 mm	700 W	7587
	735 mm	800 W	7147
	835 mm	900 W	7148
	885 mm	1000 W	7590
	1045 mm	1200 W	7591
1135 mm	1350 W	8402	
Electric heating elements Z-ZTV, 1/2", for bathroom towel radiators			Code
 <p><b>Heating element Z-ZTV</b> - stainless steel - for heating/drinking water - coiled cord with a plug <b>with switch</b></p>	395 mm	300 W	13426
	435 mm	400 W	13427
	535 mm	500 W	13428
	585 mm	600 W	13429
	685 mm	700 W	13430
	735 mm	800 W	13431
	835 mm	900 W	13432
	885 mm	1000 W	13433
	1045 mm	1200 W	13434
	1135 mm	1350 W	13435
Kits with a T-piece and TZT63 plug-in thermostat			Code
 <p><b>Heating element Z-SKVT-T</b> - stainless steel - for heating/drinking water - coiled cord with a plug - T-piece - <b>thermostat with timer</b></p>	395 mm	300 W	8841
	435 mm	400 W	8842
	535 mm	500 W	8843
	585 mm	600 W	8844
	685 mm	700 W	8845
	735 mm	800 W	8846
	835 mm	900 W	8847
	885 mm	1000 W	8848
	1045 mm	1200 W	8849
	1135 mm	1350 W	8850
Kits with a T-piece and TZ33 plug-in thermostat			Code
 <p><b>Heating element Z-SKVT</b> - stainless steel - for heating/drinking water - coiled cord with a plug - T-piece - <b>thermostat</b></p>	395 mm	300 W	7573
	435 mm	400 W	7574
	535 mm	500 W	7575
	585 mm	600 W	7576
	685 mm	700 W	7577
	735 mm	800 W	7578
	835 mm	900 W	7579
	885 mm	1000 W	7580
	1045 mm	1200 W	7581
	1135 mm	1350 W	8597

Electric heating elements TT-TNTW, 1/2", for bathroom towel radiators			Code
	<b>Heating element TT-TNTW</b> - stainless steel - for heating/drinking water - 1,2 3-wire power cable - integrated <b>thermostat with display and timer</b>	395 mm      300 W	11399
		435 mm      400 W	11400
		535 mm      500 W	11401
		585 mm      600 W	11402
		685 mm      700 W	11403
		735 mm      800 W	11404
835 mm      900 W	11405		
Uni schuko plug with switch and LED, to plug heating elements with thermostat to el. socket			Code
	VSV-W Uni schuko plug with switch, white, IP20, 16A/250V		11841
	VSV-S Uni schuko plug with switch, silver, IP20, 16A/250V		11840
Nickel-plated brass T-piece			Code
	1/2" T-piece, F/F/M, nickel-plated To connect el. heating element together with a heating circuit into a heated towel rail.		7926
Regulus plug-in thermostats			Code
	TZ33 - Regulus Plug-in thermostat with LCD display (thermometer) and LED. 5-35°C adjustable temperature, 16(3) A 230 V.		6295
		TZT63 – Regulus Plug-in thermostat with LCD display (thermometer) and LED. Timer for manual operation available – 15 to 300 min. 5-35°C adjustable temperature, 16(3) A 230 V.	8269

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Expansion vessels for heating systems						Code	
	Expansion Vessel HS - wall-hung	5 l	6 bar	ø 160 mm	3/4" M	13731	
		8 l	6 bar	ø 200 mm	3/4" M	13732	
		12 l	6 bar	ø 270 mm	3/4" M	13734	
		18 l	6 bar	ø 270 mm	3/4" M	13735	
		25 l	6 bar	ø 290 mm	3/4" M	13736	
		40 l	5 bar	ø 320 mm	3/4" M	13737	
	Expansion Vessel HS - legs	35 l	5 bar	ø 320 mm	3/4" M	13738	
			Expansion Vessel HS - legs - replaceable membrane	50 l	6 bar	ø 380 mm	3/4" M
	60 l			6 bar	ø 380 mm	1" M	13740
	80 l			6 bar	ø 450 mm	1" M	13741
100 l	6 bar			ø 450 mm	1" M	13742	
150 l	6 bar			ø 554 mm	6/4" M	13743	
200 l	6 bar			ø 554 mm	6/4" M	13744	
250 l	6 bar			ø 624 mm	6/4" M	13745	
300 l	6 bar			ø 630 mm	6/4" M	13746	
400 l	6 bar			ø 624 mm	6/4" M	13747	
500 l	6 bar			ø 775 mm	6/4" M	13748	
600 l	6 bar	ø 775 mm	x 6/4" M	13749			
700 l	6 bar	ø 775 mm	x 6/4" M	13750			
Expansion vessels for solar thermal systems						Code	
	Expansion Vessel SL - wall-hung	12 l	8 bar	ø 270 mm	3/4" M	13720	
		18 l	8 bar	ø 270 mm	3/4" M	13721	
		25 l	8 bar	ø 290 mm	3/4" M	13722	
		40 l	8 bar	ø 320 mm	3/4" M	13723	
	Expansion Vessel SL - legs - replaceable membrane	50 l	10 bar	ø 320 mm	3/4" M	13724	
		80 l	10 bar	ø 450 mm	3/4" M	13725	
		100 l	10 bar	ø 450 mm	1" M	13726	
		150 l	10 bar	ø 554 mm	6/4" M	13727	
		200 l	10 bar	ø 554 mm	6/4" M	13728	
		300 l	10 bar	ø 624 mm	6/4" M	13729	
500 l	8 bar	ø 780 mm	x 6/4" M	13730			
Expansion vessels for drinking water						Code	
 	Expansion Vessel HW - wall-hung	0,16 l	15 bar	ø 65 mm	1/2" M	13752	
		2 l	10 bar	ø 125 mm	1/2" M	13753	
		5 l	8 bar	ø 160 mm	3/4" M	13754	
		8 l	8 bar	ø 200 mm	3/4" M	13755	
		12 l	8 bar	ø 270 mm	3/4" M	13756	
		18 l	8 bar	ø 270 mm	3/4" M	13757	
		25 l	8 bar	ø 290 mm	3/4" M	13758	
		40 l	8 bar	ø 320 mm	3/4" M	13759	
	Expansion Vessel HW - legs - replaceable membrane	60 l	10 bar	ø 380 mm	1" M	13760	
		80 l	10 bar	ø 450 mm	1" M	13761	
		100 l	10 bar	ø 450 mm	1" M	13762	
		200 l	10 bar	ø 554 mm	6/4" M	13763	
		300 l	10 bar	ø 624 mm	6/4" M	13764	
		400 l	10 bar	ø 624 mm	x 6/4" M	13765	

x - upon order

Service valves and brackets for expansion vessels		Code
	3/4" F	8770
	1" F	12295
	6/4" F	14492
	3/4" F	22077
	1" F	22078
	3/4" F/M	22079
	1" F/M	22080
	6/4"x1" F/M reducing adapter	14494
	Exp. vessel bracket for wall mount with connecting valve 3/4"	7766
	3/4" Service Valve for expansion vessels connection (part of bracket 7766)	19722
	Exp. vessel bracket	12174
	Expansion vessel bracket, wall mounted, incl. screws and dowels	10046
	Expansion vessel bracket, wall mounted, incl. 3 bar safety valve, air vent valve, pressure gauge, screws and dowels (not assembled)	10095
	Stainless-steel connecting pipe 3/4" Fu - 0.5 m	9156











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REGULUS IR Smart Controllers		
	<p>» <i>smart Controller w. English menu, to control Heat Pumps, hydronic boiler or fireplace, solar thermal system, auxiliary heat source, HRV unit and up to 2 heating circuits</i></p> <p>» <i>integrated web server for easy remote access</i></p> <p>» <i>involves 1 outdoor sensor, 2 temperature sensor for sheath (4m)</i></p>	Code
	<p>IR 14 RTC EN - for control of RTC Heat Pumps</p>	18239
	<p>IR 14 CTC EN - for control of CTC heat pumps</p>	18514
Room Units and sensors for IR Smart Controllers		Code
          	<p><b>RCA Room Unit</b> - with a display, backlight, temperature &amp; humidity measurement</p>	22014
	<p>RC 25 Room Unit - with a temperature and humidity sensor, knob for temperature adjustment, pushbutton with mode selection, backlight and signalling, two-wire connection</p>	18540
	<p>RS10 Room Temperature Sensor - ABB Time design, two-wire connection</p>	16167
	<p>RSW 30 Room Temperature and Humidity Sensor - wireless WiFi connection, battery or USB power supplied</p>	18474
	<p>Pt1000 Temperature sensor with 4 m cable, contact type</p>	9789
	<p>Pt1000 Temperature sensor with 4 m cable, for sheath</p>	9109
	<p>Pt1000 Temperature sensor with 2 m cable, for sheath, increased temperature and UV resistance</p>	9108
	<p>Pipe Mounted Sensor Housing for Pt1000</p>	14250
	<p>Outdoor temperature sensor Pt1000 for IR controllers</p>	9110
	<p>0-10 bar Pressure Sensor, 4-20 mA output for IR 14, 1/2 "M, connector</p>	18989
<p><b>0-4 bar Pressure Sensor, 0,5-2,5 mA output for RegulusBOX-E, 1/2 "M, cable 115 cm with connector</b></p>	22075	

<b>Modules for IR smart controllers and controls of Indoor Units</b>		
	<b>modules for internal CIB bus</b>	<b>Code</b>
	UNI Module - universal extension module - 2 analog inputs, 2 relay outputs, 1x PWM or 0/10V (CIB - two-wire connection)	12419
	CH Module – extension by 1 mixed heating circuit - 3 in-/outputs (CIB - two-wire connection, for 4th-6th circuit, CIB master 18750 is needed)	17116
	SKB Connection Module - Sentinel Kinetic B, B Plus, Horizontal to IR via CIB - 2-wire connection	17786
	SE Connection Module - Sentinel Econiq to IR via CIB - 2-wire connection	17787
	CIB internal bus booster - to connect more CIB units with total consumption greater than 100 mA (connection to CIB and 24 V power supply - four-wire connection)	11981
	<b>modules for external CIB bus</b>	<b>Code</b>
	External CIB bus Module (CIB master) - used to connect modules that extend the system with 4th-6th heating circuit, control of room temperatures, control of window blinds and control of RTC heat pump cascades (connection to ETH and 24 V power supply)	18750
	UNI Module - universal extension module - 2 analog inputs, 2 relay outputs, 1x PWM or 0/10V - to control RTC heat pump cascade (connection to CIB master 18750 - two-wire)	12419
	CH Module – extension by 1 mixed heating circuit - 3 in-/outputs - for 4th-6th circuit (connection to CIB master 18750 - two-wire)	17116
	Module PJ – extension module - 6 relay outputs - for temperature control of separate rooms (connection to CIB master 18750 - two-wire)	11982
	PWM Module – extension module for control of PWM circulation pumps in heat pump cascades (series) – 8 analogue outputs (PWM), CIB - two-wire connection (connection to CIB master)	18116
	<b>modules for TCL2 bus</b>	<b>Code</b>
	OT Module - to connect boilers with OpenTherm protocol (connection to TCL2 and 24 V power supply - four-wire connection)	10442
	BOOST Module - extension module - for 12 24VAC/DC digital inputs - for boost mode buttons in HRV units (connection to TCL2 and 24 V power supply - four-wire connection)	13050
	SSR Module - to control up to four SSR relays for utilization of PV surplus (not designed to control heating elements in BOX, connection to TCL2 and 24 V power supply - four-wire connection)	15353
	Termination resistor for TCL2 bus	20095
	<b>other accessories</b>	<b>Code</b>
	LAN Module - switch - 5x LAN, on DIN rail (connection to ETH and 24 V power supply)	19007
	WiFi Module (USB connection)	18777
Power Supply, 30 W output	16491	

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Weather compensation controllers for heating systems		Code
	<p>TRS3 Controller for 1 heating circuit</p> <ul style="list-style-type: none"> <li>- 4 inputs and 3 outputs</li> <li>- CAN bus for connecting the RC CALEON and RC CALEON WIFI room units</li> <li>- 1 outdoor sensor and 1 contact sensor enclosed</li> </ul>	9055
	<p>TRS4 Controller for 2 heating circuits</p> <ul style="list-style-type: none"> <li>- 6 inputs and 5 outputs</li> <li>- selection from 6 hydraulic systems (from a simple system with one mixed circuit to a system with one mixed circuit, 1 unmixed circuit and a thermal store)</li> <li>- 1 outdoor sensor, 1 contact sensor and 1 sheath sensor enclosed</li> </ul>	9056
	<p>TRS5 Controller for 1 heating circuit and DHW</p> <ul style="list-style-type: none"> <li>- 6 inputs and 5 outputs</li> <li>- selection from 3 hydraulic systems with DHW (a system with a DUO combination tank and a mixed circuit, a system with an independent DHW storage and a mixed circuit, a system with an independent DHW storage and a mixed circuit with a thermal store)</li> <li>- 1 outdoor sensor, 1 contact sensor and 2 sheath sensors enclosed</li> </ul>	9057
	<p>TRS6 K Controller for solid fuel boilers, hydronic fires and combinations of other heat sources</p> <ul style="list-style-type: none"> <li>- selection from 14 hydraulic variants - depending on the variant selected, for example the following can be controlled: solar thermal system, solid fuel boiler, 1 mixed and 1 unmixed circuit, DHW heating in a boiler, auxiliary heating of a thermal store etc. PWM control of circulation pumps</li> <li>- 1 outdoor sensor and 4 immersion sensors included</li> </ul>	16821
Room Units and sensors for TRS Controllers		Code
	<p>RS 10 Room Temperature Sensor</p> <ul style="list-style-type: none"> <li>- ABB Time design, two-wire connection</li> </ul>	16167
	<p>RC CALEON</p> <p>Room Unit with temperature sensor, humidity sensor, touch screen, 4-lead connection to controller (only for TRS3 and TRS6 K)</p>	17150
	<p>RC CALEON WIFI</p> <p>Room Unit, wifi internet connection, temperature and humidity sensors, touchscreen, for CAN-bus controllers TRS3 and TRS6 K - four-wire connection to the controller.</p>	18126
	<p>Contact temperature sensor with 4 m cable, on pipe - Pt1000</p>	9789
	<p>Pt1000 for sheath with 4 m cable</p>	9109
	<p>Pt1000 Temperature sensor for sheath, with 2 m cable, increased temperature and UV resistance</p>	9108

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<b>Electronic programmable room thermostats</b>		<b>Code</b>
  	<b>TP08 room thermostat</b> - 8+7 weekly programs, 2 temperature settings 5-30 °C in 1 hour step - power supply 2 x 1.5 V (AA) included, 8(2) A / 230 V contacts	6298
	<b>TP44 room thermostat</b> - 7 days / 5+2 days / 24h – always max. 6 changes per day - power supply 2x 1,5V (AAA) incl. in supply, contacts 6(2) A / 230 V	17173
	<b>TP44 RF room thermostat</b> - wireless, programmable - 7 days / 5+2 days / 24h – always max. 6 changes per day - power supply 2x 1,5V (AAA) incl. in supply, contacts 6(2) A / 230 V	17174
<b>Electronic room thermostats and TZ plug-in thermostats</b>		<b>Code</b>
      	<b>TP18 room thermostat</b> - LCD display (thermometer function) - 5–35 °C knob adjustable temperature - 2 x 1.5 V (AAA), 5(3.5) A / 250 V	7355
	<b>TP34 room thermostat</b> - LCD display - 5–35°C knob adjustable temperature - power supply 2x 1,5V (AAA) incl. in supply, contacts 6(2) A / 230 V	17168
	<b>TP34 RF room thermostat</b> - wireless, LCD display, 5–35°C knob adjustable temperature - power supply 2x 1,5V (AAA) incl. in supply, contacts 6(2) A / 230 V	17169
	<b>TP39 room thermostat</b> - electronic LCD display (thermometer function) - 5–35 °C knob adjustable temperature, 16(3) A 230 V	6299
	<b>TP69 room thermostat</b> - LCD display (thermometer) - 5–35 °C key adjustable temperature, 16(3) A 230 V	11583
	<b>TZ33 plug-in thermostat</b> - LCD display (thermometer function), LED - 5–35 °C adjustable temperature, 16(3) A 230 V.	6295
	<b>TZT63 plug-in thermostat</b> - LCD display (thermometer function), LED - manual timer for adjustable time period - 5–35 °C adjustable temperature, 16(3) A 230 V.	8269
<b>Mechanical thermostats for current appliances (250 mA min. current)</b>		<b>Code</b>
  	<b>TP546DT Room thermostat, basic version.</b> - adjustable temperature 5–30 °C, switch-off contact 16(2.5) A max. / 230 V	10945
	<b>TP546LA Room thermostat, with ON signal lamp</b> - adjustable temperature 5–30 °C, switch-off contact 16(2.5) A max. / 230 V	10946
	<b>TP546OL Room thermostat, with ON signal lamp and switch</b> - adjustable temperature 5–30 °C, switch-off contact 16(2.5) A max. / 230 V	10947
<b>Mechanical thermostats for electronic circuits (300 mA max. current)</b>		<b>Code</b>
	<b>TP546GCDT Room thermostat</b> - adjustable temperature 5-30 °C, switch-off contact 20-300 mA / 24 and 230 V	10948
<b>Installation accessories for TP 546 room thermostats</b>		<b>Code</b>
 	Base frame for TP 546, on el. backbox	11076
	Temperature limiting clip for TP 546	11077

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Thermometers		Code
	Contact thermometer with fixing spring, 0-120 °C, diam. 63 mm	3042
	Thermometer with sheath 3/8", rear conn., 0-120 °C, diam. 40 mm	l = 30 mm 10472
		l = 45 mm 10473
	Thermometer with sheath 1/2", rear conn., 0-120 °C, diam. 63 mm	l = 100 mm 14296
		l = 150 mm 10474
	Stem-type thermometer, no sheath, rear conn., 0-500 °C, diam. 63 mm	l = 100 mm 10476
	Heat conducting paste, 2 g	6754
	Sheath for stem-type thermometers, 9,5x11,5-100 mm, 1/2"	11755
Thermomanometers		Code
	Thermomanometer 0-120 °C / 4 bar, 1/2", bottom conn., diam. 80 mm	10482
	Thermomanometer 0-120 °C / 4 bar, 1/2", rear conn., diam. 80 mm	10481
Pressure gauges		Pressure
	Pressure gauge, 1/4", bottom connection, diam. 50 mm	4 bar 10170
		6 bar 2126
		4 bar 2128
		6 bar 2129
	Pressure gauge, 1/4", bottom connection, diam. 63 mm	2.5 bar 294
		4 bar 2127
		6 bar 3319
		10 bar 3822
	Pressure gauge, 1/4", rear connection, diam. 63 mm	4 bar 5675
		6 bar 3409
		10 bar 3357
	Reducer, 1/2" M x 1/4" F to install pressure gauge to 1/2" tank connection	16169
	T-piece, 1/2" F x 1/4" F x 1/2" M for pressure gauge and 1/2" sheath installation	16170
	Pressure gauge, 2.5 bar, 1/2", diam. 100 mm	2.5 bar 300
		4 bar 2170
		6 bar 3320
		10 bar 3408

Thermometers						Code
	model	range	dimensions	capillary		
	110.10115.03A	0 - 120°C	Ø 57.5 mm	0,5 m		14702
	110.10025.00A	0 - 120 °C	Ø 57.5 mm	1 m		172
	110.10125.00A	0 - 120 °C	Ø 57.5 mm	1 m		224
	113.10126.00A	0 - 120 °C	Ø 42 mm	1 m	white	1148
	113.10127.00A	0 - 120 °C	Ø 42 mm	1 m	grey	1829
	113.10025.00A	0 - 120 °C	Ø 42 mm	1 m	black	14256
	130.10025.00A	0 - 120 °C	48x48 mm	1 m		120
	180.10125.00A	0 - 120 °C	14.5x64.5mm	1 m		275
Thermomanometers						Code
	520.75025.00A	0-120 °C;0-4 b	Ø 57.5 mm	1 m		272
	540.80125.00A	0-120 °C;0-6b	42x78 mm	1 m		3643
	540.71526.00A	0-120 °C;0-4 b	42x78 mm	1 m		5190
Pressure gauges						Code
	340.70025.00A	0-4 bar	48x48 mm	1 m		121
Accessories to manometers and thermomanometers						Code
	4700.10.9A	Check valve, 1/4G				21
	4700.00.1A	Check valve, 1/2G				20
Manostats						Code
	GW 50A6	Gas manostat, 5-50 mbar				1004
	Terminal for GW manostats series A6				1005	
	LGW 3A1	Air manostat, fixed 0.4 mbar				478
	LGW 3A2	Air manostat, 0.4-3 mbar				777

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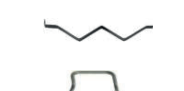

Encased thermostats		Code
	BB1-1000 Adjustable contact thermostat, higher sensit., 10-90 °C, heat cond. paste	10811
	TS5310.54 Adjustable contact thermostat, standard sensitivity, 17-90 °C	10746
	TS9510.52 Adjustable immersion thermostat, 0-90 °C, G 1/2", l=104 mm (C-1 16A, C-2 6A)	10781
	TPS1-1500 Adjustable immersion thermostat, 0-90 °C, G 1/2", l=106 mm (C-1 10A, C-2 2A)	18624
	TS9520.55 Adjustable capillary thermostat, 0-60 °C, 1.5 m capillary, sensor 6.5x73 mm	10750
	TS9520.54 Adjustable capillary thermostat, 0-90 °C, 1.5 m capillary, IP 40	10772
	TS9520.53R Adjustable capillary thermostat, 0-300°C, 2 m capillary INOX, IP 40	11514
	TS9520.56 Adjustable capillary thermostat, -35/+35 °C, 1.5 m capillary	11279
	TS95H10.58 Immersion limiter, 100 °C, 2 contacts	10803
	TS95H20.52 Immersion capillary limiter, 100 °C, 1,3 m capillary, IP 40	19548
	TS9530.52 Double encased immersion thermostat, 0-60/30-120 °C	10782
	TS95H30.63 Encased adjustable immersion thermostat, 0-90 °C, limit fix 100 °C, sensors 6.5x100 mm	10771
	TPSRM1-1000 /Pt1000 Encased immersion therm., adj. 0-90 °C, limit. 100 °C fix with Pt1000 sensor w. 4 m cable	14105
	TPSRM1-1000 /Pt1000 Encased Thermostat, adj. 0-90 °C, limit. 100 °C fix with Pt1000 sensor fitted w. 4m cable, incl. 4x1,5 mm <sup>2</sup> cable, the fourth conductor for heating element circuit breaker trip coil	17734
	TS9501.54 Room thermostat, stainless-steel sensor, -35/+35 °C, IP 55	10804
	Heat conducting paste, 2 g	6754
Danfoss encased thermostats		Code
	KP78 Encased thermostat, 30-90 °C temperature range, 5-15 °C difference, 2 m capillary, IP 30	060L118466 12274





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Adjustable thermostats, liquid filled						
	<i>model</i>	<i>range</i>	<i>adjustment</i>	<i>capillary</i>	<i>contacts</i>	<i>Code</i>
	95A040R21	0 - 40 °C	knob	1 m	SPST	10925
	95A095R01	50 - 95 °C (ATMOS)	knob	1 m	SPST	10736
	95A090R20	0 - 90 °C	knob	1 m	SPST	10924
	5285-0-204-3	2 levels, 39-78 °C, 46-85 °C	knob	1 m	SPDT	4462
	95B090R23	0-90 °C	knob	0.6 m	SPDT	10739
	95B090R25	0 - 90 °C	knob	1 m	SPDT	10922
	95B090R27	0 - 90 °C	knob	2 m	SPDT	11020
	95A070R06	30-70 °C gold-plated contacts	screwdr.	1 m	SPST	10737
	95B090R24	0 - 90 °C	screwdr.	1 m	SPDT	10940
	95B090R26	0 - 90 °C	screwdr.	1.5 m	SPDT	10780
	95A090R21	90 °C	fixed	1 m	SPST	10882
High limit thermostats, adjustable						
	<i>model</i>	<i>range</i>	<i>reset</i>	<i>capillary</i>	<i>contacts</i>	<i>Code</i>
	962.11228.00A	90 - 110 °C	automatic	1 m	SPST	823
	95H110R10	90 - 110 °C	manual	1 m	SPST	10923
	95H060R01	40 - 60 °C	manual	1 m	SPDT	11074
	95H090R02	63 - 90 °C	manual	1,5 m	SPDT	10745
	95H110R12	90 - 110 °C	manual	1 m	SPDT	11159
	95H110R09	90 - 110 °C	manual	1,5 m	SPDT	10740
High limit thermostats, fixed temperature						
	<i>model</i>	<i>range</i>	<i>reset</i>	<i>capillary</i>	<i>contacts</i>	<i>Code</i>
	974.99228.01A	100 °C gold pl.contacts	automatic	1 m	SPST	1094
	95H230I08	230 °C	manual	1 m	SPST	15765
	95H099R01	99 °C	manual	0.55 m	SPDT	10743
	95H099R01	99 °C	manual	0.55 m	SPDT	20933




Contact rating: resistance load 16A/250V, 6A/400V, induction load 4A/250V, 1A/400V. For gold-plated contacts 100mV 0.3A DC. EI. protection degree IP 00.




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Accessories to thermostats		Code	
	Convex knob, black, 0-40 °C	1145	
	Convex knob, black, 5-45 °C	20293	
	Convex knob, black, 0-90 °C	1472	
	Convex knob, black, 0-120 °C	1404	
	Convex knob, black, 0-210 °C	2164	
	Convex knob, black, limit mark	683	
	Convex knob, black, symbolic, TG	752	
	Convex knob, white, 0-90 °C	1830	
	Convex knob, white, with scale line	879	
	Knob frame, black	15	
	Knob frame, white	561	
	Limiting spring	17	
	Limiting screw	16	
	Screw for adjustable thermostat	790	
Accessories to thermostats, thermometers, pressure gauges		Code	
	T-piece set, 1" F/M with 7 x 9 x 45 mm sheath and spring	18650	
	T-piece set with union nut 1" F/Fu with 7 x 9 x 45 mm sheath and spring	18651	
	Single sheath, 7x9 mm, 1/2", brass	45 mm	14879
		60 mm	15746
		100 mm	14880
		120 mm	15745
		160 mm	16590
		180 mm	16591
		200 mm	14881
		100 mm	15744
	Sheath for 3 sensors, 15x17 mm, 1/2", brass	130 mm	16592
		230 mm	15743
	Sheath for 4 sensors, 15x17 mm, 1/2", brass	120 mm	14882
	Spring to replace sensor in sheath 14882		9185
	Curly spring to fix sensor in sheath (for sheath for 3 or 4 sensors)		1497
	Capillary spring, small, 1/2", stainless steel	1 pc	10845
		100 pcs	13563
	Capillary spring, big, 3/4", stainless steel	1 pc	13557
		100 pcs	13565

Flow switches		Code
	Flow switch FP204-1, 3/4" M, 400 l/h, microswitch with silver contacts	381
	Flow switch FP204-2, 3/4" M, 400 l/h, microswitch with gold-plated contacts	13552
	Flow switch FP214-1, 3/4"x1" M/Fu, 400 l/h, microswitch with silver contacts	382
	Flow switch FP214-2, 3/4"x1" M/Fu, 400 l/h, microswitch with gold-plated contacts	13553
	Flow switch FP224-1, 1"x3/4" Fu/M, 400 l/h, microswitch with silver contacts	383
	Flow switch FP224-2, 1"x3/4" Fu/M, 400 l/h, microswitch with gold-plated contacts	4247
	Flow switch FP25-1, 6/4" M, 700 l/h, microswitch	14843
	Flow switch FP25-2, 6/4" M, 700 l/h, microswitch with gold-plated contacts	14844








Switching current for microswitches with gold-plated contacts is 1-100 mA.

Pressure switches		Code
  	Pressure switch - closes at 0.7 bar fixed, 1/4" M fitting, gold-plated contacts, 60V070A01	10927
	Pressure switch - closes at 0.4 bar fixed, 1/4" M	7831
	Pressure switch - closes at 0.5 bar fixed, 1/8" M	11418









KPI Pressure switch, 18bar max. pressure, IP 30, for gases and liquids		Code
  	KPI 35 Pressure switch, -0.2 to 8 bar range, 0.4 to 1.5 bar difference, 1/4" M	060-121766 12275
	KPI 35 Pressure switch, -0.2 to 8 bar range, 0.5 to 2 bar difference, 1/4" M	060-121966 12277
	IP55 Cover for KP, KPI thermostats and pressure switches, to increase IP protection from IP30 to IP55	060-062866 12279

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Regulus Two-way Thermal Safety Relief Valves		Code
	<p>DBV2 Insulated Thermal Safety Relief Valve</p> <ul style="list-style-type: none"> <li>- for solid fuel boilers without a cooling heat exchanger, with 2 independent thermostatic elements – meets the requirements of EN 303-5:2012</li> <li>- thermostatic elements' sensors are placed in heating water</li> <li>- connection to a boiler, cooling water and sewer with 3/4" M</li> <li>- 97 °C ± 2 °C opening temperature</li> </ul>	16627
	<p>Set of DBV2 Insulated Thermal Safety Relief Valve with 1/2" ball valve w. filter</p>	21986
	<p>DBV2 Insulated, in 6/4" F T-piece</p>	16863
	<p>DBV1 Insulated Thermal Relief Valve</p> <ul style="list-style-type: none"> <li>- for solid fuel boilers without a cooling heat exchanger</li> <li>- thermostatic element sensor immersed in heating water</li> <li>- connection to boiler, cooling water and sewer with 3/4" M</li> <li>- 97 °C ± 2 °C opening temperature</li> </ul>	16912
	<p>Set of DBV1 Insulated Thermal Safety Relief Valve with 1/2" ball valve w. filter</p>	21985
	<p>DBV1 Insulated, in 6/4" F T-piece</p>	16913
Regulus One-way Thermal Relief Valves		Code
	<p>JBV1 One-way Thermal Relief Valve</p> <ul style="list-style-type: none"> <li>- for solid fuel boilers with a cooling heat exchanger</li> <li>- thermostatic element sensor immersed in heating water</li> <li>- connection to boiler 1/2" M, connection to both cooling water and sewer 3/4" M</li> <li>- 97 °C ± 2 °C opening temperature</li> </ul>	8877










BVTS valves are made upon order also with extended sheath.










Thermal Safety Relief Valves for solid fuel boilers, EN 303-5:2012 compliant		Opening temperature	Code
	BVTS Thermal Safety Relief Valve, nickel-plated - 3/4"F - 1.3 m fixed capillary, - 140 mm sheath, 1/2" M	97 °C	14713
		55 °C	14474
	BVTS Thermal Safety Relief Valve - 3/4"F - 1.3 m fixed capillary - 140 mm sheath, 1/2" M	65 °C	14475
		70 °C	14476
		95 °C	14477
		97 °C	14480
		108 °C	14483
	BVTS Thermal Safety Relief Valve - 3/4"F - 1.3 m detachable capillary - 140 mm sheath, 1/2" M	50 °C	21842
		95 °C	14479
		100 °C	14481
	BVTS Thermal Safety Relief Valve - 3/4"F - 4 m fixed capillary - 140 mm sheath, 1/2" M	95 °C	14478
		95 °C	21987
	Set of BVTS Thermal Safety Relief Valve with 1/2" ball valve w. filter	97 °C	21988
		Draft Regulators for solid-fuel boilers	
			Code
	RT4 - 3/4" Thermostatic draft regulator		13878
		RT4 L - 3/4" Thermostatic draft regulator with longer lever	14743
		RT4 S - 3/4" Thermostatic draft regulator with 90 degree bend lever, 313 mm	14716
		RT4 T - 3/4" Thermostatic draft regulator for boilers with higher casing	14138

Spare parts for draft regulators can be found in the Spare Parts Catalogue.

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Load Valves in brass, for solid fuel boilers with automatic bypass balancing		Opening temperature	Code
	TSV3B - DN 25 - connections 3x 1" F - $K_{vs} = 6.2 \text{ m}^3/\text{h}$	45 °C	11282
		50 °C	15517
		55 °C	11281
		60 °C	15518
		65 °C	10080
	TSV3BF - DN 25 - connections 2x 1" F and 6/4" Fu nut - $K_{vs} = 6.2 \text{ m}^3/\text{h}$ - coupler for circulation pump 6/4" F x 1" F + 2 gaskets	70 °C	15519
		45 °C	13095
		50 °C	15939
		55 °C	13096
		60 °C	15940
	TSV5B - DN 32 - connections 3x 5/4" F - $K_{vs} = 7.0 \text{ m}^3/\text{h}$	65 °C	13097
		70 °C	15941
		45 °C	11806
		50 °C	15520
		55 °C	11807
	TSV6B - DN 40 - connections 3x 6/4" F - $K_{vs} = 13.3 \text{ m}^3/\text{h}$	60 °C	15521
		65 °C	11808
		70 °C	15522
		45 °C	12974
		55 °C	12975
	TSV8B - DN 50, - connections 3x 2" F - $K_{vs} = 15.8 \text{ m}^3/\text{h}$	65 °C	12976
		45 °C	12977
		55 °C	12978
		65 °C	12979
		<b>Special models of TSV valves with outer threads</b>	
	TSV3BM - DN 25 - connections 3x 1" M - $K_{vs} = 9.8 \text{ m}^3/\text{h}$	45 °C	13977
		50 °C	18855
		55 °C	13978
		65 °C	13979
	TSV3BMF - DN 25 - connections 2x 1" M and 1" Fu nut - $K_{vs} = 8.6 \text{ m}^3/\text{h}$	45 °C	13980
		55 °C	13981
		65 °C	13982
	TSV5BMF - DN 32 - connections 2x 6/4" M and 5/4" F - $K_{vs} = 7.3 \text{ m}^3/\text{h}$	45 °C	21395
		55 °C	18655
		65 °C	18656
	Hex nipple 6/4"x5/4" F/M incl. gasket		19058

Load Valves for control of boiler return line temp., manual bypass balancing - for ATMOS boilers		Opening temperature	Code
	TSV3 - DN 25 - connections 3x 1" F - $K_{vs} = 6.2 \text{ m}^3/\text{h}$	65 °C	10347
		72 °C	16029
	TSV5 - DN 32 - connections 3x 5/4" F - $K_{vs} = 7.0 \text{ m}^3/\text{h}$	65 °C	11804
		72 °C	15533
	TSV6 - DN 40 - connections 3x 6/4" F - $K_{vs} = 13.3 \text{ m}^3/\text{h}$	65 °C	11821
	TSV8 - DN 50 - connections 3x 2" F - $K_{vs} = 15.8 \text{ m}^3/\text{h}$	65 °C	11819
Thermal Insulation for Thermostatic Valves			Code
	Thermal insulation for TSV3B thermostatic valve		14979
	Thermal insulation for TSV5B thermostatic valve		14980
	Thermal insulation for TSV6B thermostatic valve		11874
	Thermal insulation for TSV8B thermostatic valve		11875
Thermostatic Elements – accessories for temperature change			Code
	VB24 Thermostatic element with cone for TSV3B, 5B valves, 45 °C	45°C	12102
		50°C	16095
		55°C	12101
		60°C	16096
		65°C	12100
		70°C	16097
	VB24 Thermostatic element with cone for TSV5BMF valves	45°C	21396
		55°C	21352
		65°C	21351
	VB35 Thermostatic element with cone for TSV6B, 8B valves	45°C	13193
		55°C	13194
		65°C	13195
Thermostatic Elements – accessories for temperature change			Code
	VB24 Thermostatic element for TSV3, 5 valves	65°C	16198
		72°C	16098
	VB35 Thermostatic element for TSV6, 8 valves	65°C	16199

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RegulusRGMAT Load Units with AUTOMATIC bypass balancing				
connections 1" F, ball valve, thermometer			Code	
	RegulusRGMAT E R6 1" - DN 25 - TSV3B valve	Regulus RPA 25-6 - ON/OFF	45 °C	22040
			50 °C	22041
			55 °C	22042
			60 °C	22043
			65 °C	22044
			70 °C	22045
	RegulusRGMAT E R8 1" - DN 25 - TSV3B valve	Regulus RPA 25-8 - ON/OFF	45 °C	21374
			50 °C	22038
			55 °C	21115
			60 °C	22039
			65 °C	21122
	RegulusRGMAT E W6 1" - DN 25 - TSV3B valve	Wilo PARA 25/6 SC - ON/OFF	55 °C	18612
			60 °C	18681
			65 °C	18682
	RegulusRGMAT E W-PWM 1" - DN 25 - TSV3B valve	Wilo PARA 25/8 iPWM1 - ON/OFF, PWM	55 °C	18133
			65 °C	18131
	RegulusRGMAT E G60 1" - DN 25, - TSV3B valve	Grundfos UPM3 FLEX AS 25-60 - ON/OFF, PWM-A	55 °C	19086
			60 °C	19092
			65 °C	19089
connections 1" F, 3 ball valves, thermometer			Code	
	RegulusRGMAT E R6 1" KK - DN 32 - TSV5BMF valve	Regulus RPA 25-6 - ON/OFF	55 °C	22046
			65 °C	22047
	RegulusRGMAT E R8 1" KK - DN 32 - TSV5BMF valve	Regulus RPA 25-8 - ON/OFF	55 °C	21459
			65 °C	21460
	RegulusRGMAT E W6 1" KK - DN 32 - TSV5BMF valve	Wilo PARA 25/6 SC - ON/OFF	55 °C	19015
			65 °C	19016
connections 5/4" F, ball valve, thermometer			Code	
	RegulusRGMAT E R8 5/4" - DN 32 - TSV5B valve	Regulus RPA 25-8 - ON/OFF	55 °C	21258
			65 °C	21260
	RegulusRGMAT E W8 5/4" - DN 32 - TSV5B valve	Wilo PARA 25/8 SC - ON/OFF	55 °C	18684
			65 °C	18663
	RegulusRGMAT E G75 5/4" - DN 32 - TSV5B valve	Grundfos UPM3 FLEX AS 25-75 - ON/OFF, PWM-A	55 °C	16395
			65 °C	16397
connections 5/4" F, 3 ball valves, thermometer			Code	
	RegulusRGMAT E R8 5/4" KK - DN 32 - TSV5BMF valve	Regulus RPA 25-8 - ON/OFF	55 °C	22048
			65 °C	22049
	RegulusRGMAT E W8 5/4" KK - DN 32 - TSV5BMF valve	Wilo PARA 25/8 SC - ON/OFF	55 °C	18654
			65 °C	18657
	RegulusRGMAT E G75 5/4" KK - DN 32 - TSV5BMF valve	Grundfos UPM3 FLEX AS 25-75 - ON/OFF, PWM-A	55 °C	18985
			65 °C	18986

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<b>RegulusRGMAT Load Units with MANUAL bypass balancing, 1"</b>			
<b>connections 1" F, ball valve, thermometer</b>			<b>Code</b>
	RegulusRGMAT EA W6 1" - for ATMOS boilers - DN 25 - TSV3 valve	Wilo PARA 25/6 SC - ON/OFF	65 °C 18699
			72 °C 18701
	RegulusRGMAT EA G60 1" - for ATMOS boilers - DN 25 - TSV3 valve	Grundfos UPM3 FLEX AS 25-60 - ON/OFF, PWM-A	65 °C 19084
			72 °C 19087
<b>connections 5/4" F, ball valve, thermometer</b>			<b>Code</b>
	RegulusRGMAT EA W8 5/4" - for ATMOS boilers - DN 32 - TSV5 valve	Wilo PARA 25/8 SC - ON/OFF	65 °C 18700
			72 °C 18637
	RegulusRGMAT EA G75 5/4" - for ATMOS boilers - DN 32 - TSV5 valve	Grundfos UPM3 FLEX AS 25-75 - ON/OFF, PWM-A	65 °C 16399
			72 °C 16400
<b>Accessories for RegulusRGMAT Load Units</b>			<b>Code</b>
	Bypass with float check valve for RegulusRGMAT Load Units		1" 16126
			5/4" 16139
<b>Load Units with float check valve</b>			<b>Code</b>
	THERMOMAT - connections 5/4" F - Grundfos UPM3 pump (delivery head 7 m, control ON/OFF (Δp-c / Δp-v / I, II, III)) - thermost. element, thermometer, check valve, ball shut-off valves		55 °C 15046
			65 °C 15047
			72 °C 16244
<b>Thermostatic Elements – spare parts for ThermoMat</b>			<b>Code</b>
	Thermostatic element for ThermoMat Pump Station		55 °C 15080
			60 °C 15081
			65 °C 15082
			72 °C 16240

More spare parts can be found in the Spare Parts Catalogue.

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RegulusBIO Load and Heating Combi Units for an easy connection of a boiler, heating system, thermal store, HW storage tank and an expansion vessel				
<b>for system with thermal store</b>				
	» <b>connections 1" F</b>	» <b>ball valves</b> » <b>drain valves</b>	<b>Code</b>	
	RegulusBIO MIX W-PWM 1" TRS6K - controller TRS6 K	55 °C	17499	
	- 3-way mixing valve ( $K_{vs}=6.3 \text{ m}^3/\text{h}$ ) - actuator - TSV3BM valve ( $K_{vs}=9.8 \text{ m}^3/\text{h}$ )	Wilo PARA 25/8 iPWM1 - ON/OFF, PWM	65 °C	21255
		70 °C	21259	
	RegulusBIO MIX-BP G75 1"	55 °C	17553	
	- 3-way mixing valve ( $K_{vs}=6.3 \text{ m}^3/\text{h}$ ) - TSV3BM load valve ( $K_{vs}=9.8 \text{ m}^3/\text{h}$ )	Grundfos UPM3 FLEX AS 25-75 - ON/OFF, PWM-A	65 °C	21257
		70 °C	21261	
<b>for system without thermal store</b>				
	» <b>connections 1" F</b>	» <b>ball valves</b> » <b>drain valves</b>	<b>Code</b>	
	RegulusBIO G75 1" - TSV3BM load valve ( $K_{vs}=9.8 \text{ m}^3/\text{h}$ )	Grundfos UPM3 FLEX AS 25-75 - ON/OFF, PWM-A	55 °C	17502
<b>Accessories</b>			<b>Code</b>	
	RC CALEON Room Unit with temperature sensor, humidity sensor, touch screen, 4-lead connection to controller (for model with TRS6 K regulator)		17150	
	RC CALEON WIFI Room Unit, wifi internet connection, temperature and humidity sensors, touchscreen, for model with TRS6 K regulator, 4-lead connection to controller		18126	
	RS 10 Room Temperature Sensor (can be used for model with TRS6 K regulator and hydraulic variants 1 A, B, C)		16167	
	Pt1000 for sheath with 4 m cable (for model with TRS6 K regulator)		9109	
	Magnet FilterBall 1" F ball valve with filter and magnet		17405	
	PG 600 S Backup Power Supply with 18 Ah battery 600 W max. inverter output		17135	

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Compact Backup Power Supplies for circulation pumps in solid-fuel boilers		
	» <i>integrated batteries</i> » <i>output in the form of a modified sine wave</i>	<b>Code</b>
	PG 500 Backup Power Supply with integrated batteries, 18 Ah capacity 600 W max. inverter output. Not suitable for electronics and PWM pumps.	16214
Backup Power Supplies for circulation pumps and boiler-room controllers		
      	» <i>LCD display</i> » <i>output in the form of a smooth sine wave</i> » <i>600 W max. inverter output</i>	<b>Code</b>
	PG 600 S Backup Power Supply without battery	17035
	PG 600 S Backup Power Supply with 18 Ah battery	17135
	PG 600 S Backup Power Supply with 44 Ah battery	17136
PG600 S Backup Power Supply with 100 Ah battery	17137	

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## RegulusTOP Single-pipe Pump Stations for unmixed heating circuits, insulated, thermo

with 2 ball valves		Pump	Code	
 <p>CSE OTS 1" F - 1" F connection - 2 ball valves</p>	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8	22015	
		Regulus RPA 25-8	21123	
		Wilo PARA 25/6 SC	18611	
		Wilo PARA 25/8 SC	19636	
		I, II, III / PWM-A	Grundfos UPM3 FLEX AS 25-60	19085
with 2 ball valves with check valve		Pump	Code	
 <p>CSE OTS ZV 1" F - 1" F connection - 2 ball valves - check valves</p>	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8	22016	
		Regulus RPA 25-8	21367	
		Wilo PARA 25/8 SC	17979	
		max. speed / PWM	Wilo PARA 25/8 iPWM1	18127
		I, II, III / PWM-A	Grundfos UPM3 FLEX AS 25-60	19088
with filter&magnet, ball valve with check valve			Code	
 <p>CSE OTS MFB+ZV 1" F - 1" F connection - ball valve - check valve - Magnet FilterBall</p>	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8	22017	
		Regulus RPA 25-8	21256	
		Wilo PARA 25/8 SC	17818	
		I, II, III / PWM-A	Grundfos UPM3 FLEX AS 25-75	17922


RegulusTOP Single-pipe Pump Stations for mixed heating circuits

		with mixing valve with actuator (230 V, 120 s)	Code
	CSE MIX 1" F - connection 1" F - $K_{vs} = 10 \text{ m}^3/\text{h}$	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8
			22020
			Regulus RPA 25-8
			21124
			Wilco PARA 25/6 SC
18317			
			Grundfos UPM3 AUTO 25-60
			19106
		max. speed / PWM	Wilco PARA 25/8 iPWM1
			18128
	CSE MIX 1" M - connection 1" M - $K_{vs} = 6,3 \text{ m}^3/\text{h}$	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8
			22022
			Regulus RPA 25-8
			21368
			Wilco PARA 25/6 SC
18730			
			Wilco PARA 25/8 SC
			17980
			Grundfos UPM3 AUTO 25-60
			19110
	CSE MIX 5/4" F - connection 5/4" F - $K_{vs} = 16 \text{ m}^3/\text{h}$	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8
			21369
			Wilco PARA 25/8 SC
			18524
		I, II, III / PWM-A	Grundfos UPM3 FLEX AS 25-75
			16402
		with thermometer and mixing valve with actuator (230 V, 120 s)	Code
	CSE MIX 1" F T - connection 1" F - $K_{vs} = 10 \text{ m}^3/\text{h}$	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-6
			22021
		with mixing valve without actuator	Pump
			Code
	CSE MIX-BP 1" F - connection 1" F - $K_{vs} = 10 \text{ m}^3/\text{h}$	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8
			22023
			Regulus RPA 25-8
			21371
			Wilco PARA 25/6 SC
18731			
			Grundfos UPM3 AUTO 25-60
			19102
	CSE MIX-BP 5/4" F - connection 5/4" F - $K_{vs} = 16 \text{ m}^3/\text{h}$	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8
			21370
			Wilco PARA 25/8 SC
			18732
		I, II, III / PWM-A	Grundfos UPM3 FLEX AS 25-75
			18753

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**RegulusTOP Twin-line Pump Stations for unmixed heating circuits**

		» connection pitch 125mm » check valve, ball valves » filter w. magnet » connection to manifold	Code	
	CSE2 F 1" - connection 1" F	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8	22024
			Regulus RPA 25-8	21125
			Wilco PARA 25/6 SC	18312
			Wilco PARA 25/8 SC	17936
			Grundfos UPM3 AUTO 25-60	19107
			I, II, III / PWM-A Grundfos UPM3 FLEX AS 25-75	17487


**RegulusTOP Twin-line Pump Stations for mixed heating circuits**

**with mixing valve**


		» connection pitch 125mm » check valve, ball valves » filter w. magnet » connection to manifold	Code	
	CSE2 MIX F 1" - connection 1" F - valve $K_{vs}$ 6,3 m <sup>3</sup> /h - actuator (230 V, 120 s)	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8	22025
			Regulus RPA 25-8	21126
			Wilco PARA 25/6 SC	18313
			Wilco PARA 25/8 SC	17937
			Grundfos UPM3 AUTO 25-60	19103
			I, II, III / PWM-A Grundfos UPM3 FLEX AS 25-75	17484
	CSE2 MIX F FIX 1" - connection 1" F - valve $K_{vs}$ 6,3 m <sup>3</sup> /h - actuator (230 V) w. control to fixed temperature	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8	22026
			Regulus RPA 25-8	21426
	CSE2 MIX-BP F 1" - connection 1" F - valve $K_{vs}$ 6,3 m <sup>3</sup> /h - without actuator	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8	22036
			Regulus RPA 25-8	21372
			Wilco PARA 25/6 SC	18314
			Wilco PARA 25/8 SC	17917
			Grundfos UPM3 AUTO 25-60	19111
			I, II, III / PWM-A Grundfos UPM3 FLEX AS 25-75	18082
<b>with thermostatic valve</b>				
		» connection pitch 125mm » check valve, ball valves » filter w. magnet » connection to manifold	Code	
	CSE2 TMV F 1" - connection 1" F - valve $K_{vs}$ 3,5 m <sup>3</sup> /h - temperature range 25–45 °C	$\Delta p\text{-c} / \Delta p\text{-v} / \text{I, II, III}$	Regulus RPA 25-8	22027
			Regulus RPA 25-8	21417
			Grundfos UPM3 AUTO 25-60	19487

AVC Actuators for mixing valves						Code
	AVC actuator incl. 2m cable	3-point control	230 V	60 s	5 Nm	10875
			230 V	120 s	5 Nm	9193
			230 V	240 s	5 Nm	10876
			24 V	120 s	5 Nm	11118
	ACC30 actuator incl. 2m cable	control to fixed temperature, with one Pt1000 sensor	230 V	120 s	5 Nm	16101
			AHC40 actuator incl. 2m cable	weather compensated control, 3 Pt1000 sensors	230 V	120 s



Accessories		Code
	Kit of a T-piece, 2 unions, 1 ball valve - for easy connection of CSE MIX 1" M pump stations to Regulus heating circuit manifolds	16922
	Kit of a T-piece with check valve, 2 unions, 1 ball valve with filter and magnet - for easy connection of CSE MIX 1" M pump stations to Regulus heating circuit manifolds	18330
	T-piece, 1" M/Fu/M, 125 mm pitch, incl. gasket - for easy connection of CSE MIX 1" M pump stations to heating circuit manifolds	16659
	T-piece, 1" M/Fu/M, 90 mm pitch, incl. gasket - for connection of return line to mixing valve in CSE MIX 1" M pump station	16660
	Filter replacement section for CSE2	19017
	Ball Valve w. drain valve, 1" Fu/F - unions 15695 are needed for connection with CSE2	17415
	Union, 1" Fu/M, incl. gasket	15695
	Union, 1" Fu/F, incl. gasket	15694
	Union 1"x5/4" Fu/F - to connect CSE MIX 1" M to 5/4" manifold	17920
	Union with check valve, 1" Fu/F, extended, incl. gasket - for return line of CSE2 pump stations	18653
Union, 1" Fu/F, extended, incl. gasket - for supply line of CSE2 pump stations	18797	

Regulus Pump Stations for large boiler rooms		Code
	CS2 OTS MFB W 5/4" F - connection 5/4" F - Yonos MAXO pump (max. head 10,7 m, control ON/OFF ( $\Delta p-c / \Delta p-v / I, II, III$ )) - strainer with mesh and magnet - intended for 5/4" manifolds	17820
	CS2 MIX ZV W 5/4" F - connection 5/4" F - Yonos MAXO pump (max. head 10,7 m, control ON/OFF ( $\Delta p-c / \Delta p-v / I, II, III$ )) - 3-way mixing valve ( $K_{vs} = 16 \text{ m}^3/\text{h}$ ) with actuator w. 3-point control, ball valves - intended for 5/4" manifolds	17267
	CS2 MIX MFB+ZV W 5/4" F - connection 5/4" F - Yonos MAXO pump (max. head 10,7 m, control ON/OFF ( $\Delta p-c / \Delta p-v / I, II, III$ )), - 3-way mixing valve ( $K_{vs} = 16 \text{ m}^3/\text{h}$ ) with actuator w. 3-point control - strainer with mesh and magnet - intended for 5/4" manifolds	17819

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1" Manifolds for heating systems		Code
	HV 60/125 SG-2 Manifold/collector - two 1" heating circuits with outlet for safety assembly, thermal insulation, 3/4" side port, max. flowrate 2 m <sup>3</sup> /h, pipe distance 125 mm	9186
		HV 60/125 SG-3 Manifold/collector - three 1" heating circuits with outlet for safety assembly, thermal insulation, 3/4" side port, max. flowrate 2 m <sup>3</sup> /h, pipe distance 125 mm
	<b>BSR Insulated Safety Assembly</b>	<b>2 bar</b> <b>21391</b>
	- safety valve, air vent valve, 0-4 bar pressure gauge	<b>2,5 bar</b> <b>21713</b>
	- connections: 1" F to heat source, 3/4" F safety valve outlet, two side outlets 3/4" M and 1/2" F for accessories (expansion vessel, drain)	<b>3 bar</b> <b>20753</b>
	HV 60/125-2 Manifold/collector - two 1" heating circuits with insulation, max. flowrate 2 m <sup>3</sup> /h, pipe distance 125 mm	9507
		HV 60/125-3 Manifold/collector - three 1" heating circuits with insulation, max. flowrate 2 m <sup>3</sup> /h, pipe distance 125 mm
	HV 70/125-4 Manifold/collector - four 1" heating circuits, 5/4" for heat source, 3/4" side outlet, insulation, max. flowrate 3 m <sup>3</sup> /h, pipe distance 125 mm	9509
		HV 70/125-5 Manifold/collector - five 1" heating circuits, 5/4" for heat source, 3/4" side outlet, thermal insulation, max. flowrate 3 m <sup>3</sup> /h, pipe distance 125 mm
	HV 70/125-6 Manifold/collector - six 1" heating circuits, 5/4" for heat source, 3/4" side outlet, thermal insulation, max. flowrate 3 m <sup>3</sup> /h, pipe distance 125 mm	9511
	Wall support for 1" manifold/collector, set of 2	9191
5/4" Manifolds for heating systems		Code
	HV 80/125-2 Manifold/collector - two 5/4" heating circuits (pipe distance 125 mm), 2" for heat source alternatively on the right or left side (incl. plugs for unused outlets), thermal insulation, max. flowrate 7 m <sup>3</sup> /h	15857
		HV 80/125-3 Manifold/collector - three 5/4" heating circuits (pipe distance 125 mm), 2" for heat source alternatively on the right or left side (incl. plugs for unused outlets), thermal insulation, max. flowrate 7 m <sup>3</sup> /h
	Wall support for 5/4" manifold/collector, set of 2	17599
Hydraulic Dynamic Pressure Balancers (HVDT)		Code
	HW 60/125 G1" Pressure balancer between primary and secondary circuit - 1" F, max. flow rate 2 m <sup>3</sup> /h incl. threaded fittings	9188
	HW 60/125 G5/4" Pressure balancer between primary and sec. circuit - 5/4" F, max. flow rate 3 m <sup>3</sup> /h incl. threaded fittings	9514
	HW 80/570 G2" Pressure balancer between primary and sec. circuit - 2" M, max. flow rate 8 m <sup>3</sup> /h incl. threaded fittings	17598
	Interconnection Kit for HV 80 Manifold/Collector and HW 80 balancer 2"	17612
	Wall support for hydraulic pressure balancers code 9188, 9514, set of 2	9190
	Wall support for hydraulic pressure balancers code 17598, set of 2	16133

High-efficiency circulation pumps for heating systems, solar thermal systems and geothermal systems			Code
	Regulus RPA pump - 180 mm, connection 6/4", 230 V, - ON/OFF control ( $\Delta p$ -c / $\Delta p$ -v / I, II, III) - 3 m long power supply cable with connector	Regulus RPA 25-6	21683
		Regulus RPA 25-8	21416
Pump Sets with fittings w. ball valve			Code
	CS KK 1" Pump with control: ON/OFF ( $\Delta p$ -c / $\Delta p$ -v / I, II, III), threaded fittings with shut-off ball valves 1" F	Regulus RPA 25-8	22018
		Regulus RPA 25-8	21264
		Wilco PARA 25/6 SC	18563
	CS KK T 1" Pump with control: ON/OFF ( $\Delta p$ -c / $\Delta p$ -v / I, II, III), threaded fittings with shut-off ball valves 1" F, thermometer	Wilco PARA 25/6 SC	22019
		Wilco PARA 25/6 SC	20115
Pump Sets with mixing valves w. actuator			Code
	CS KK 1" LK 3-way mixing valve LK 840, 1" F, DN 25, $K_{vs}=10 \text{ m}^3/\text{h}$ with 230V actuator, 120 s and pump with control ON/OFF ( $\Delta p$ -c / $\Delta p$ -v / I, II, III) with unions	Regulus RPA 25-6	22035
		Regulus RPA 25-8	21463
		Wilco PARA 25/6 SC	18895
Pump Unions			Code
	Union, 6/4" x 1" Fu/F incl. gasket (1 piece)		5597
	Union, 6/4"x5/4" Fu/F incl. gasket (1 piece)		16234
	Union, 2"x5/4" Fu/F incl. gasket (1 piece)		16227
	Reducing adaptor, 1"x6/4" F/M		15873
	6/4" NBR gasket		9710
Ball Valves with Union nut		Connection	Code
	Ball valve with union nut, operated by tool, incl. gasket	6/4"x1" Fu/F	15200
		6/4"x5/4" Fu/F	17835
		6/4" Fu x Cu 22	17293
		6/4" Fu x Cu 28	17295
Ball Valves for circulation pumps		Connection	Code
	Ball valve with thermometer	6/4" x 1" Fu/F	22107
	Ball valve with union nut, butterfly lever, incl. gasket	6/4"x1" Fu/M	17931
	Ball valve with union nut, lever, incl. gasket	6/4" Fu x Cu 22	16448
		6/4" Fu x Cu 28	16673
Ball Valves for circulation pumps with strainer & magnet		Connection	Code
	Magnet FilterBall with lever, incl. gasket - 0.6 mm mesh, up to 16 bar, -20 to 100 °C	1"x6/4" F/Fu	20360
	Magnet FilterBall with check valve, with lever, incl. gasket - 0.6 mm mesh, up to 16 bar, -20 to 100 °C	1"x6/4" F/Fu	20428

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Pump Stations for DHW recirculation		Code
	» for DHW circuits - for DHW recirculation or DHW heating via a heat exchanger	Code
	<p>CSE TV ZV RPC 1/2" F</p> <ul style="list-style-type: none"> <li>- connection 1/2" F</li> <li>- Regulus RPC 15 pump - control ON/OFF</li> <li>- check valve, thermometer</li> </ul>	22105
	<p>CSE TV ZV G70 1" F</p> <ul style="list-style-type: none"> <li>- connection 1"</li> <li>- UPM3 DHW pump - control ON/OFF (I, II, III) or PWM-A (heating)</li> <li>- check valve, thermometer</li> </ul>	15181
	<p>CSE TV ZV G70 3/4" F</p> <ul style="list-style-type: none"> <li>- connection 3/4" F</li> <li>- UPM3 DHW pump - control ON/OFF (I, II, III) or PWM-A (heating)</li> <li>- check valve, 2 ball valves &amp; thermometer</li> </ul>	18997
	<p>CSE TV ZV G70 3/4" F</p> <ul style="list-style-type: none"> <li>- connection 3/4" F</li> <li>- UPM3 DHW pump - control ON/OFF (I, II, III) or PWM-A (heating)</li> <li>- check valve, 2 ball valves &amp; thermometer</li> <li>- connection kit for RegulusHBOX</li> </ul>	20276
	<p>CSE TVMIX ZV G70 3/4" M</p> <ul style="list-style-type: none"> <li>- connection 3/4" M</li> <li>- UPM3 DHW pump - control ON/OFF (I, II, III) or PWM-A (heating)</li> <li>- thermostatic mixing valve w. check valves and circulation connection kit</li> </ul>	17893
High-efficiency circulation pumps for drinking water		Code
	<p>Regulus RPC 15 pump</p> <ul style="list-style-type: none"> <li>- 80 mm, connection 1/2" F, 230 V</li> <li>- ON/OFF control</li> <li>- 3 m long power supply cable with plug</li> </ul>	21685
	<p>Wilo Star-Z NOVA pump</p> <ul style="list-style-type: none"> <li>- 84 mm, connection 1/2" F, 230 V</li> <li>- ON/OFF control</li> </ul>	10666
	<p>Grundfos COMFORT UP 15-14B PM pump</p> <ul style="list-style-type: none"> <li>- 80 mm, connection 1/2" F, 230 V</li> <li>- ON/OFF control</li> </ul>	12194
	<p>Grundfos COMFORT UP 15-14BA PM pump</p> <ul style="list-style-type: none"> <li>- 80 mm, connection 1/2" F, 230 V</li> <li>- with display, ON/OFF control and AUTOADAPT</li> </ul>	12193
	<p>Connection set for circulation pump (two 1/2" Fu/F ball valves, two 1/2"M hex nipples)</p>	18998

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Ball Valves with strainer & magnet		Connection	Code
    	Magnet FilterBall with lever Ball Valve with strainer and magnet (FxF thread) – 0.6 mm mesh, up to 16 bar, -20 to 100 °C	1/2" F	21227
		3/4" F	17404
		1" F	17405
		5/4" F	17406
		6/4" F	17407
		2" F	17408
	Magnet FilterBall with cranked lever – 0.6 mm mesh, up to 16 bar, -20 to 100 °C	3/4" F	21425
		1" F	21424
	Magnet FilterBall with lever, incl. gasket – 0.6 mm mesh, up to 16 bar, -20 to 100 °C	1"x6/4" F/Fu	20360
	Magnet FilterBall with check valve, with lever, incl. gasket – 0.6 mm mesh, up to 16 bar, -20 to 100 °C	1"x6/4" F/Fu	20428
Magnet FilterBall with butterfly lever Ball valve w. filter & magnet (inner x inner thread) - 0.6 mm strainer, up to 16 bar, -20 to +100°C	1/2" F	21226	
	3/4" F	18318	
	1" F	18319	
	5/4" F	20256	
Ball Valves with strainer		Connection	Code
	Flow FilterBall with lever Ball Valve with strainer (FxF thread) – 0.6 mm mesh, up to 16 bar, -20 to 100 °C	1/2" F	21228
		3/4" F	17065
		1" F	17066
		5/4" F	17067
		6/4" F	17068
		2" F	17069
Ball valves with lever, intended also for drinking water		Connection	Code
	Ball valve (F x F threads)	1/2" F	11965
		3/4" F	11966
		1" F	11967
		5/4" F	11968
		6/4" F	11969
		2" F	11970
		2 1/2" F	11971
		3" F	11972
Ball Valves with union nut, nickel-plated		Connection	Code
 	Ball Valve (union nut x F thread)	1/2" Fu/F	17410
		3/4" Fu/F	17411
	Ball Valve (union nut x M thread)	1/2" Fu/M	17051
		3/4" Fu/M	17052
Ball Valves with union nut		Connection	Code
   	Ball Valve (union nut x F thread)	1" x 3/4" Fu/F	18760
		1" Fu/F	15412
	Ball Valve (union nut x M thread)	3/4" Fu/M	17654
		1" Fu/M	17044
	Ball Valve w. drain valve (union nut x F thread)	3/4" Fu/F	17414
		1" Fu/F	17415
	Ball Valve w. drain valve (union nut x M thread)	3/4" Fu/M	17412
		1" Fu/M	17413
Drain valves, 110 °C		Connection	Code
 	Drain valve, 10 bar, red metal handle	1/2" M	4741
		1/2" M	15609

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Regulus Wmix Anti-Scald Valves, side outlet, <b>can be used also for heating</b>						Code
	Anti-Scald Valve Tvmix - without check valves - knob adjustable	DN 15	35–65 °C	$K_{vs} = 1,3 \text{ m}^3/\text{h}$	1/2" M	14508
		DN 20	35–65 °C	$K_{vs} = 1,6 \text{ m}^3/\text{h}$	3/4" M	14509
		<b>DN 25</b>	<b>25–45 °C</b>	<b><math>K_{vs} = 3,5 \text{ m}^3/\text{h}</math></b>	<b>1" M</b>	<b>19483</b>
		DN 25	35–65 °C	$K_{vs} = 1,8 \text{ m}^3/\text{h}$	1" M	14510
		<b>DN 25</b>	<b>35–65 °C</b>	<b><math>K_{vs} = 3,5 \text{ m}^3/\text{h}</math></b>	<b>1" M</b>	<b>21774</b>
	Anti-Scald Valve Tvmix ZV - check valves - knob adjustable	DN 20	35–65 °C	$K_{vs} = 1,2 \text{ m}^3/\text{h}$	1/2" M	14903
		DN 25	35–65 °C	$K_{vs} = 1,3 \text{ m}^3/\text{h}$	3/4" M	14904
	Anti-Scald Valve Tvmix ZV CV - check valves - recirculation - knob adjustable	DN 25	35–65 °C	$K_{vs} = 1,6 \text{ m}^3/\text{h}$	3/4" M	17602
Thermostatic Mixing Valves for DHW, side outlet						Code
	LK 550 Thermostatic valve - without check valves - knob adjustable	DN 15	38–65 °C	$K_{vs} = 1,2 \text{ m}^3/\text{h}$	1/2" M	10874
		DN 20	38–65 °C	$K_{vs} = 2,2 \text{ m}^3/\text{h}$	3/4" M	11057
	Check valve for integration into LK550-3/4 (only if 3/4" thread is used)					11058
Regulus Wmix Anti-Scald Valves, outlet in the middle						Code
	Anti-Scald Valve Wmix-H - without check valves - knob adjustable	DN 20	35–55 °C	$K_{vs} = 1,1 \text{ m}^3/\text{h}$	3/4" M	20426
		DN 25	35–55 °C	$K_{vs} = 1,3 \text{ m}^3/\text{h}$	1" M	20427
	Anti-Scald Valve Wmix-H ZV - threaded fittings - check valves with strainer - knob adjustable	DN 20	35–55 °C	$K_{vs} = 0,9 \text{ m}^3/\text{h}$	1/2" M	20412
		DN 25	35–55 °C	$K_{vs} = 1,2 \text{ m}^3/\text{h}$	3/4" M	20413
<b>Set of 3 fittings 3/4" Fu/M for Wmix-H DN 20, nickel-plated, incl. 1 gasket and 2 gaskets w. filter</b>					<b>21864</b>	
Anti-Scald Valves, outlet in the middle						Code
	MT52HC Anti-Scald Valve - high flow - without check valves - knob adjustable	DN 32	20–70 °C	$K_{vs} = 6,1 \text{ m}^3/\text{h}$	5/4" M	7079



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VZK Two-way Zone Ball Valves, PN 16, suitable also for drinking water, bidirectional actuator, 2-point control SPST						
	» on/off live and permanent live, 230 V » auxiliary microswitch » nickel-plate					Code
	VZK 215-230-1P, DN 15	NC	30 s	$K_{vs} = 8,5 \text{ m}^3/\text{h}$	1/2" F	11288
	VZK 220-230-1P, DN 20			$K_{vs} = 20 \text{ m}^3/\text{h}$	3/4" F	10344
	VZK 225-230-1P, DN 25			$K_{vs} = 30 \text{ m}^3/\text{h}$	1" F	11289
LK Two-way Zone Gate Valves, PN 10, bidirectional actuator, 2-point control SPST,						
	» on/off live and permanent live, 230 V » 1 m long cable					Code
	LK 525	NC	12 s	$K_{vs} = 11 \text{ m}^3/\text{h}$	Cu 22	14896
					1" M	16283
					5/4" M	16284
	NO	12 s	$K_{vs} = 11 \text{ m}^3/\text{h}$	1" M	12874	
5/4" M				12875		
VZK Two-way Zone Ball Valves, PN 10, suitable also for drinking water						
	bidirectional actuator, 2-point control SPST					
	» on/off live and permanent live, 230 V » 2 m long cable					Code
	VZK R 220-230-1P - DN 20	NC	60 s	$K_{vs} = 8,9 \text{ m}^3/\text{h}$	1/2" F	19682
				$K_{vs} = 18,7 \text{ m}^3/\text{h}$	3/4" F	19677
				$K_{vs} = 20 \text{ m}^3/\text{h}$	1" F	19680
	VZK R 225-230-1P - DN 25	NC	60 s	$K_{vs} = 31,6 \text{ m}^3/\text{h}$	1" F	19686
				$K_{vs} = 34,3 \text{ m}^3/\text{h}$	5/4" F	19689
	manual control					Code
		VZK M 220 - DN 20		$K_{vs} = 8,9 \text{ m}^3/\text{h}$	1/2" F	20018
				$K_{vs} = 18,7 \text{ m}^3/\text{h}$	3/4" F	20021
$K_{vs} = 20 \text{ m}^3/\text{h}$				1" F	20016	
VZK M 225 - DN 25			$K_{vs} = 31,6 \text{ m}^3/\text{h}$	1" F	20023	
			$K_{vs} = 34,3 \text{ m}^3/\text{h}$	5/4" F	20020	
actuators for VZK M Ball Valves, bidirectional, 230 V					Code	
	AMC 230V actuator for ball valve, incl. 2m cable, 15 s, 5 Nm, 2-point control SPST (ON/OFF live and permanent live), incl. adapter for connecting to VZK M valves.					17176
	AMC 230V actuator for ball valve, incl. 2m cable, 60 s, 5 Nm, 2-point control SPST (ON/OFF live and permanent live), incl. adapter for connecting to VZK M valves.					14093
	AVC 230V actuator for ball valve, incl. 2m cable, 60 s, 5 Nm, 3-point control SPDT (1 live closes, 1 live opens), incl. adapter for connecting to VZK M valves					18626
	Adapter for connecting actuators for AVC mixing valves (see page 89) to VZK M valves					14094
SF Two-way Zone Valves, return spring, PN 10, 2-point control SPST						
	» on/off live, switched live, 230 V » 0,55 m long cable					Code
	SF	NC			3/4" F	575
					1" F	603
					3/4" M	5784
					1" M	3989
	auxiliary microswitch				1/2" F	3349
					3/4" F	579
					1" F	614
1" F					4773	






NC - normally closed - with no control voltage (on/off live) the valve is closed  
 NO - normally open - with no control voltage (on/off live) the valve is open

VZK 3-way Zone Ball Valves, PN 10, 110 °C, also for drinking water				
bidirectional actuator, 2-point control SPST				
» on/off live and permanent live, 230 V			» 2 m long cable	
			Code	
	VZK R 320-230-1P L	60 s	$K_{vs} = 10,5 \text{ m}^3/\text{h}$	3/4" F 19367
	- L-bore		$K_{vs} = 10,6 \text{ m}^3/\text{h}$	1" F 19366
	VZK R 325-230-1P L	60 s	$K_{vs} = 14,3 \text{ m}^3/\text{h}$	1" F 13604
	- L-bore			5/4" F 18671
	VZK R 320-230-1P T	60 s	$K_{vs} = 17,8/10,5 \text{ m}^3/\text{h}$	3/4" F 19189
	- T-bore		$K_{vs} = 19,5/10,6 \text{ m}^3/\text{h}$	1" F 19187
	VZK R 320-230-1P T	15 s	$K_{vs} = 19,5/10,6 \text{ m}^3/\text{h}$	1" F 20019
	- DN 20			1" F 18550
	VZK R 320-230-1P T	60 s	$K_{vs} = 28,3/14,3 \text{ m}^3/\text{h}$	1" F 18550
	- T-bore			5/4" F 18676
	VZK R 320-230-1P T	15 s	$K_{vs} = 28,3/14,3 \text{ m}^3/\text{h}$	1" F 19001
	- DN 25			6/4" M* 19006
bidirectional actuator, 3-point control SPDT				
» 1 live closes, 1 live opens, 230 V			» 2 m long cable	
			Code	
	VZK S 320-230-2P L	60 s	$K_{vs} = 10,5 \text{ m}^3/\text{h}$	3/4" F 19838
	- L-bore		$K_{vs} = 10,6 \text{ m}^3/\text{h}$	1" F 19835
	VZK S 325-230-2P L	60 s	$K_{vs} = 14,3 \text{ m}^3/\text{h}$	1" F 11287
	- L-bore			
	VZK S 320-230-2P T	60 s	$K_{vs} = 17,8/10,5 \text{ m}^3/\text{h}$	3/4" F 19840
	- T-bore		$K_{vs} = 19,5/10,6 \text{ m}^3/\text{h}$	1" F 19833
	VZK S 325-230-2P T	60 s	$K_{vs} = 28,3/14,3 \text{ m}^3/\text{h}$	1" F 18675
	- T-bore			
manual control				Code
	VZK M 320 L		$K_{vs} = 10,5 \text{ m}^3/\text{h}$	3/4" F 19841
	- L-bore		$K_{vs} = 10,6 \text{ m}^3/\text{h}$	1" F 19832
	VZK M 325 L		$K_{vs} = 14,3 \text{ m}^3/\text{h}$	1" F 18860
	- L-bore			5/4" F 18864
	VZK M 320 T		$K_{vs} = 17,8/10,5 \text{ m}^3/\text{h}$	3/4" F 19839
	- T-bore		$K_{vs} = 19,5/10,6 \text{ m}^3/\text{h}$	1" F 19834
	VZK M 325 T		$K_{vs} = 28,3/14,3 \text{ m}^3/\text{h}$	1" F 18865
	- T-bore			5/4" F 18867
	VZK M 325 T			6/4" M* 19004
	- DN 25			
actuators for VZK Ball Valves, bidirectional, 230 V				Code
	AMC 230V actuator for ball valve, incl. 2m cable, 15 s, 5 Nm, 2-point control SPST (ON/OFF live and permanent live), incl. adapter for connecting to VZK M valves.			17176
	AMC 230V actuator for ball valve, incl. 2m cable, 60 s, 5 Nm, 2-point control SPST (ON/OFF live and permanent live), incl. adapter for connecting to VZK M valves.			14093
	AVC 230V actuator for ball valve, incl. 2m cable, 60 s, 5 Nm, 3-point control SPDT (1 live closes, 1 live opens), incl. adapter for connecting to VZK M valves			18626
	Adapter for connecting actuators for AVC mixing valves (see page 89) to VZK M valves			14094
Accessories to Valves with 2-point control SPST				Code
	IP44 protected box with 2A fuse, to power supply valves with 2-point control SPST (VZK and LK zone valves)			11685

\* pump fittings on page 81 can be used to connect 6/4 "M valves

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VZU 3-way Zone Ball Valves, PN 10, 110 °C, also for drinking water, bidirectional actuator, 2-point control SPST							
	» on/off live and permanent live, 230 V » 1 m long cable				Code		
	VZU RQ 318-230-1P		13 s	$K_{vs} = 8,2 \text{ m}^3/\text{h}$	1" M	22055	
					Cu 28	22059	
				$K_{vs} = 8,4 \text{ m}^3/\text{h}$	1" F	22053	
					5/4" M	22057	
	VZU RQ 318-230-1P N - nickel-plated - auxiliary microswitch - manual control possible		13 s	$K_{vs} = 8,2 \text{ m}^3/\text{h}$	1" M	22056	
				Cu 28	22060		
			$K_{vs} = 8,4 \text{ m}^3/\text{h}$	1" F	22054		
				5/4" M	22058		
LK 3-way Zone Gate Valves, PN 10, 80 °C, bidirectional actuator, 2-point control SPST							
	» on/off live and permanent live, 230 V » 1 m long cable				Code		
	LK 525		8 s	$K_{vs} = 8 \text{ m}^3/\text{h}$	Cu 22	14883	
					Cu 28	14884	
					1" M	11284	
					5/4" M	11285	
Adapter for LK 525 valve, for actuator max. temp. increase to 120 °C					11278		
Spare sealing O-ring for Cu 28 pipes					13393		
VZU 3-way Zone Ball Valves, PN 10, 110 °C, suitable also for drinking water bidirectional actuator, 2-point control SPST							
	» on/off live and permanent live, 230 V » 2 m long cable				Code		
	VZU R 320-230-1P - DN 20		15 s	$K_{vs} = 10,5 \text{ m}^3/\text{h}$	3/4" F	20461	
					1" F	20017	
				$K_{vs} = 10,6 \text{ m}^3/\text{h}$	5/4" M	20462	
			60 s	$K_{vs} = 10,5 \text{ m}^3/\text{h}$	3/4" F	19986	
					1" F	19982	
			$K_{vs} = 10,6 \text{ m}^3/\text{h}$	5/4" M	19989		
bidirectional actuator, 3-point control SPDT							
	» 1 live closes, 1 live opens, 230 V » 2 m long cable				Code		
	VZU S 320-230-2P - DN 20		60 s	$K_{vs} = 10,5 \text{ m}^3/\text{h}$	3/4" F	20614	
					1" F	20613	
				$K_{vs} = 10,6 \text{ m}^3/\text{h}$	5/4" M	20615	
manual control							
	VZU M 320 - DN 20			$K_{vs} = 10,5 \text{ m}^3/\text{h}$	3/4" F	20603	
					1" F	20604	
				$K_{vs} = 10,6 \text{ m}^3/\text{h}$	5/4" M	20605	
SF 3-way Zone Valves, return spring, PN 10, 110 °C, 2-point control SPST							
	» on/off live » 0,55 m long cable				Code		
	SF		230 V	auxiliary microswitch	1" F	642	
						3/4" M	624
						1" M	4223
						1/2" F	4170
						3/4" F	958
					1" F	645	
					1" M	644	
			24 V	auxiliary 2-pole microswitch	1" F	3628	
						3/4" M	6766
					3/4" F	4283	

\* pump fittings on page 81 can be used to connect 6/4 "M valves,

LK 3-way mixing valves, PN 10, 110 °C						
	LK 840 - inner thread - 2.0 generation (excluding code 11489)	DN 15	$K_{vs} = 2,5 \text{ m}^3/\text{h}$	1/2" F	11489	
		DN 20	$K_{vs} = 4 \text{ m}^3/\text{h}$	3/4" F	16760	
			$K_{vs} = 6,3 \text{ m}^3/\text{h}$	3/4" F	16698	
		DN 25	$K_{vs} = 6,3 \text{ m}^3/\text{h}$	1" F	16758	
			$K_{vs} = 10 \text{ m}^3/\text{h}$	1" F	16700	
		DN 32	$K_{vs} = 16 \text{ m}^3/\text{h}$	5/4" F	16693	
		DN 40	$K_{vs} = 25 \text{ m}^3/\text{h}$	6/4" F	16762	
DN 50	$K_{vs} = 40 \text{ m}^3/\text{h}$	2" F	16697			
	LK 840 - outer thread - 2.0 generation	DN 25	$K_{vs} = 4 \text{ m}^3/\text{h}$	1" M	16768	
			$K_{vs} = 6,3 \text{ m}^3/\text{h}$	1" M	18898	
		DN 32	$K_{vs} = 8 \text{ m}^3/\text{h}$	5/4" M	18784	
		DN 50	$K_{vs} = 25 \text{ m}^3/\text{h}$	2" M	16759	
LK 4-way mixing valves, PN 10, 110 °C						
	LK 841 - inner thread - 2.0 generation	DN 25	$K_{vs} = 10 \text{ m}^3/\text{h}$	1" F	16694	
		DN 32	$K_{vs} = 16 \text{ m}^3/\text{h}$	5/4" F	16699	
		DN 40	$K_{vs} = 25 \text{ m}^3/\text{h}$	6/4" F	16783	
	LK 841 - outer thread - 2.0 generation only code 16776	DN 25	$K_{vs} = 4 \text{ m}^3/\text{h}$	1" M	16776	
		DN 32	$K_{vs} = 8 \text{ m}^3/\text{h}$	5/4" M	14832	
		DN 40	$K_{vs} = 15 \text{ m}^3/\text{h}$	6/4" M	14834	
Mixing valves - kits with actuator					Code	
	LK 840 3-way mixing valve, 1" F, DN 25, $K_{vs}=6,3 \text{ m}^3/\text{h}$ with 230V actuator, 120 s				13230	
	LK 840 3-way mixing valve, 1" F, DN 25, $K_{vs}=10 \text{ m}^3/\text{h}$ with 230V actuator, 120 s and pump set with fittings and ball valve				Regulus RPA 25-6	22035
					Regulus RPA 25-8	21463
					Wilco PARA 25/6 SC	18895
Insulation for LK Mixing Valves					Code	
	Insulation for LK 840 3-way valve, 1/2" and 3/4" M and F, 1" M				14981	
	Insulation for LK 840 3-way valve, 1" F, 5/4" M and F, 6/4" M				14982	
	Insulation for LK 841 1/2" and 3/4" M and F, 1" M				14983	
	Insulation for LK 841 1" F, 5/4" M and F, 6/4" M				14984	

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AVC Actuators for mixing valves – 3-point or 0-10V control						Code	
	AVC actuator incl. 2m cable	3-point control	230 V	60 s	5 Nm	10875	
				120 s	5 Nm	9193	
				240 s	5 Nm	10876	
				24 V	120 s	5 Nm	11118
		3-point control, auxiliary microswitch	230 V	120 s	5 Nm	10878	
		0–10V control	24 V	60–120 s	5 Nm	14682	
					10 Nm	10873	
ACC Actuators for mixing valves, control to fixed temperature						Code	
	ACC30 actuator incl. 2m cable, 230V, 60 s, 6 Nm, integrated control to fixed temperature, with one Pt1000 sensor					16101	
	ACC40 actuator incl. 2m cable, 230V, 60 s, 6 Nm, integrated control to fixed temperature, with two Pt1000 sensors, differential thermostat – suitable to control constant return temperature for solid fuel boilers and to switch off a circulator when boiler extinguishes					16102	
	T1 Temperature Sensor with 1m cable – Pt1000 for fixed temperature actuators and AHC actuators					16149	
	T2 Temperature Sensor with 3m cable – Pt1000 for fixed temperature actuators and AHC actuators					16150	
AHC actuators for mixing valves with weather compensation						Code	
	AHC40 actuator, 2m cable, 230 V, 120 s, 6 Nm, 3 Pt1000 sensors, weather compensated heating system control					16253	
	RCD20 Room Unit for AHC40 actuator					19866	
Fittings for mixing valves						Code	
	T-piece, 1" M/Fu/M, 125 mm pitch, incl. gasket - for easy connection of CSE MIX 1" M pump stations to heating circuit manifolds					16659	
	T-piece, 1" M/Fu/M - 90 mm pitch, incl. gasket - for connection of return line to mixing valve in CSE MIX 1" M pump station					16660	
	Union, 1" Fu/M (union nut x M), incl. gasket					15695	
	Union, 1" Fu/F (union nut x F), incl. gasket					15694	





Thermostatic Heads		Connection	Code
	TH 01 C Thermostatic Head	M30x1,5	15269
Radiator Valves		Connection	Code
	Radiator H shut off valve for bottom connection of radiator - straight, connection of pipes by compression fittings	1/2" x 3/4"	18058
	Radiator H shut off valve for bottom connection of radiator - angled, connection of pipes by compression fittings.	1/2" x 3/4"	18059
	Compression fitting for PEX	16 x 3/4"	18061
Euroconus thread		Connection	Code
	Radiator valve for thermostatic head, for radiator inlet, - straight, Euroconus thread	1/2"	17110
	Radiator valve for thermostatic head, for radiator inlet, - angled, Euroconus thread	1/2"	17111
	Lockshield valve (for return line) - straight, Euroconus thread	1/2"	17112
	Lockshield valve (for return line) - angled, Euroconus thread	1/2"	17113
Female thread		Connection	Code
	Radiator valve for thermostatic head, for radiator inlet, - straight, female thread	1/2" F	16471
		3/4" F	16472
		3/8"F	17100
	Radiator valve for thermostatic head, for radiator inlet, - angled, female thread	1/2" F	16473
		3/4" F	16474
		1" F	17109
	Lockshield valve (for return line) - straight, female thread	3/8"F	17101
		1/2" F	16479
		3/4" F	16480
	Lockshield valve (for return line) - angled, female thread	3/8"F	17102
		1/2" F	16481
		3/4" F	16482

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Safety valves for heating systems 110 °C max.			
	<b>F/F connections</b>	<b>Opening presure</b>	<b>Code</b>
	Safety valve, 1/2" F	1,5 bar	11891
		2 bar	11892
		2,5 bar	11897
		3 bar	605
		4 bar	11901
		6 bar	11903
		8 bar	18283
	Safety valve, 3/4" F	1,5 bar	15383
		2 bar	15384
		2,5 bar	15385
		3 bar	15386
		4 bar	15387
		6 bar	15388
	Safety valve, 1" F	8 bar	18285
2,5 bar		15396	
3 bar		15397	
	4 bar	15398	
	6 bar	15399	
	<b>M/F connections</b>	<b>Opening presure</b>	<b>Code</b>
Safety valve, 1/2" M/F	1,5 bar	13063	
	2 bar	11894	
	2,5 bar	923	
	3 bar	791	
	4 bar	11902	
	6 bar	11904	
	7 bar	17849	
	8 bar	18284	
	10 bar	17853	
	Safety valve, 3/4" M/F	1,5 bar	15389
2 bar		15390	
2,5 bar		15391	
3 bar		15392	
4 bar		15393	
6 bar		15394	
7 bar		17850	
8 bar		18286	
10 bar		17854	
<b>F/F connections, reducer</b>		<b>Opening presure</b>	<b>Code</b>
Safety valve, 1/2"x3/4" F	2,5 bar	15375	
	3 bar	15376	
	4 bar	15377	
Safety valve, 3/4"x1" F	6 bar	15378	
	2,5 bar	11896	
	3 bar	11898	
Safety valve, 1"x5/4" F	4 bar	15395	
	6 bar	11905	
	3 bar	15120	
	4 bar	15121	
	6 bar	15122	
	10 bar	15366	
<b>M/F connections, reducer</b>	<b>Opening presure</b>	<b>Code</b>	
Safety valve, 1/2"x3/4" M/F	2,5 bar	15379	
	3 bar	15380	
	4 bar	15381	
	6 bar	15382	



Safety Assemblies		PV Opening pressure	Code
	<b>BSR Insulated Safety Assembly</b> - safety valve, air vent valve, 0–4 bar pressure gauge - connections: 1" F to heat source, 3/4" F safety valve outlet, two side outlets 3/4" M and 1/2" F for accessories (expansion vessel, drain)	2 bar	21391
		2,5 bar	21713
		3 bar	20753
Air vent valves, 110 °C, 10 bar		Connection	Code
	Air vent valve, automatic with check valve - brass side outlet	1/2" M	18511
		3/8" M	18905
	Automatic air vent valve with check valve - top outlet	1/2" M	11722
		3/8" M	11721
	Automatic air vent valve with check valve -side inlet, top outlet	1/2" M	11724
		3/8" M	11723
Pressure reducing valve		Connection	Code
	Pressure reducing valve 1 to 4 bar, inlet 15 bar max.	1/2" F	660
		3/4" F	661
	Pressure reducing valve 0,5 to 6 bar, inlet 25 bar max.	1" F	15086
Filters		Connection	Code
	<b>FILTERMAG PK-C</b> Filter with magnet suitable for gas boilers incl. 3 ball valves (2 straight, 1 angled) and 2 unions	3/4" M/Fu	21876
	Filter with magnet	1" M	17610
	Ball Valve with union nut, to connect filter	1" Fu/F	15412

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





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Brass Fittings with cylindric threads and enlarged sealing area		Code		
	Hex nipple (male thread)	3/8" M	6972	
		1/2" M	6971	
		3/4" M	6970	
		1" M	6969	
		5/4" M	6973	
		6/4" M	7627	
		Reducing adaptor hex nipple (outer x outer threads)	1/2"x3/8" M	6968
			3/4"x1/2" M	6965
			1"x3/4" M	6967
			5/4"x3/4" M	8270
			5/4"x1" M	6966
			6/4"x1" M	8766
			6/4"x5/4" M	8767
		Extension (female x male thread), 20 mm long	3/4" F/M	14304
			1" F/M	14305
	Reducing hex adaptor (outer x inner threads)		21794	
		1/2"x1/4" M/F	16169	
		1/2"x3/8" M/F	14297	
		3/4"x1/2" M/F	6964	
		1"x1/2" M/F	14307	
		1"x3/4" M/F	14306	
		5/4"x1/2" M/F	8564	
		5/4"x1" M/F	13395	
		6/4"x1" M/F	7882	
		6/4"x5/4" M/F	15820	
	Reducing hex adaptor (male x female thread) – non hex	6/4"x1" M/F	15873	
		<b>Reducer</b>	<b>1" x 1/2" F/F</b>	<b>20126</b>
	Reducing adaptor (female x male thread)	3/4"x1/2" F/M	9151	
		1"x3/4" F/M	13366	
		6/4"x1" F/M	14494	
	<b>Elbow</b>	<b>1/2" M/F</b>	<b>20125</b>	
		1/2" M	15175	
	T-piece (male thread)	3/4" M	15176	
		1" M	15177	
		3/4"x1/2"x3/4" M	15178	
	Reducing T-piece (male thread)	1"x3/4"x1" M	15179	
		1/2" F	3206	
	T-piece (female thread)	3/4" F	7180	
		1" F	15184	
		6/4" F	8757	
	Reducing T-piece (female thread)	6/4" x 3/4" x 6/4" F	15996	
	Plug with gasket (asbestos-free)	3/8" M	7956	
		1/2" M	7634	
		3/4" M	7954	
	Plug	1" M	7691	
		5/4" M	14948	
		6/4" M	7881	
Brass Hex Nipples, cylindrical x conical threads (for gas and water)		Code		
	Hex nipple (outer cylindrical thread w. enlarged sealing area x outer conical thread)	1/2" M	15596	
		3/4" M	15597	
	Reducing hex nipple (outer cylindrical thread with enlarged sealing area x outer conical thread)	1" M	15598	
		1/2"x3/8" M	15599	
		3/4"x1/2" M	15600	
		1"x3/4" M	15601	

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Unions for pumps, pump stations and valves			Code
	Nickel-plated union w. 2 union nuts incl. 2 NBR gaskets	3/4" Fu	21927
	Union flat sealing (F x F) incl. gasket	1" F	15805
	Union (union nut x M) incl. gasket	3/4" Fu/M	15693
		1" Fu/M	15695
		3/4" Fu/F	15692
	Union (union nut x F) incl. gasket	1" Fu/F	15694
		1"x5/4" Fu/F	17920
		5/4"x1" Fu/F	15795
	Set of nickel-plated unions - 3 pcs, incl. 1 gasket and 2 gaskets w. filter	3/4" Fu/M	21864
	Set of unions (union nut x F) - 3 pcs, incl. gaskets	5/4"x1" Fu/F	12699
	Union, nickel plated, incl. gasket	6/4"x1" Fu/F	13253
	Union, incl. gasket	6/4"x1" Fu/F	5597
		6/4"x5/4" Fu/F	16234
		2"x5/4" Fu/F	16227
	Ball valve with union nut, incl. gasket	6/4"x1" Fu/F	15200
		6/4"x5/4" Fu/F	17835
Union, extended (union nut x inner thread), incl. gasket (to be used together with 18653)	1" Fu/F	18797	
Union with check valve, extended (union nut x inner thread), incl. gasket	1" Fu/F	18653	
130mm pump replacement piece	6/4" M	17391	
T-piece, 125 mm pitch, incl. gasket - for connection of CSE MIX 1" M to manifolds	1" M/Fu/M	16659	
	1" M/Fu/M	16660	
T-piece, 90 mm pitch, incl. gasket - for connection of return line in CSE MIX 1" M			16660
Compression Fittings for copper pipes			Code
	Compression ring	Cu 22	7330
		Cu 28	13393
	Pipe insert	Cu 22 (x 0,8 max)	12923
		Cu 28 (x 1 max)	15900
	Straight Compression Fitting	Cu 18	17794
		Cu 22	7629
	Compression fitting adaptor, straight	Cu 28	13394
		Cu 22 x 3/4" F	7315
	Compression fitting adaptor, straight (with enlarged sealing area at the M thread)	Cu 22 x 1" F	20523
		Cu 18 x 1/2" M	17797
		Cu 22 x 3/4" M	13695
		Cu 28 x 1" M	13391
	Ball valve with union nut, incl. gasket	Cu 28 x 5/4" M	17090
		Cu 22 x 6/4" Fu	17293
	Elbow compression fitting	Cu 28 x 6/4" Fu	17295
		Cu 28	16437
Elbow compression adaptor (with enlarged sealing area at the M thread)	Cu 22 x 3/4" M	13694	
	Cu 28 x 1" M	15985	
	Cu 28 x 5/4" M	17091	
X-piece (with enlarged sealing area at the M thread)	Cu 22 x 3/4" M x 1/2" F x 3/8" F se zátkou	13716	
Blind hex compression fitting	Cu 22	13696	
Fittings to braze on copper pipes			Code
	Union braze adaptor, incl. gasket	Cu 28 x 5/4" Fu	6765
	Union braze adaptor, incl. gasket - set of 3 pcs	Cu 28 x 5/4" Fu	12700

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SICURFLEX Flexible yellow stainless steel pipes for gas		Code
	1/2" Sicurflex pipe, DN 12, sold by the meter (30 m max.)	13460
	1/2" Sicurflex pipe, DN 12, 4m bulk pack	13459
	1/2" nut with NBR gasket, for gas	13634
	3/4" Sicurflex pipe, DN 15, sold by the meter (30 m max.)	13462
	3/4" Sicurflex pipe, DN 15, 4m bulk pack	13461
	3/4" nut with NBR gasket, for gas	13635
	1" Sicurflex pipe, DN 20, sold by the meter (30 m max.)	13464
	1" Sicurflex pipe, DN 20, 4m bulk pack	13463
	1" nut with NBR gasket, for gas	13636
<b>Accessories to Sicurflex</b>		<b>Code</b>
	Adhesive yellow duct tape - for gas pipes - 15 m	13940
	Pipe cutter	713
	1/2", 3/4" clamp - for DN 12 and DN 15 gas pipes	13939
	1/2", 1" clamp - for DN 12 and DN 20 gas pipes	14088
	Tube template rammer	3430
<b>Gaskets for Sicurflex gas pipes</b>		<b>Code</b>
	NBR gasket for 1/2" nut, for gas	14090
	NBR gasket for 3/4" nut, for gas	14091
	NBR gasket for 1" nut, for gas	14092

<b>SOLARFLEX A - DUO</b> - twinway stainless-steel tubes with cable in EPDM insulation				
	insulation thickness of 13 mm		Code	
	Twinway DN 16 stainless-steel tube, incl. 4 nuts with lock rings and rim nipple	10 m	9916	
		15 m	9619	
	Twinway DN 16 stainless-steel tube		50 m	10564
	Twinway DN 20 stainless-steel tube, incl. 4 nuts with lock rings and rim nipple	10 m	9917	
		15 m	9620	
Twinway DN 20 stainless-steel tube		50 m	10565	
<b>SOLARFLEX A - MONO</b> - single stainless-steel pipe in EPDM insulation				
	insulation thickness of 13 mm		Code	
	DN 16 stainless-steel pipe, incl. 4 nuts with lock rings and rim nipple	10 m	12899	
		20 m	12900	
		30 m	12901	
	DN 16 stainless-steel pipe		50 m	12902
	DN 20 stainless-steel pipe, incl. 4 nuts with lock rings and rim nipple	10 m	12903	
		20 m	12904	
		30 m	12905	
	DN 20 stainless-steel pipe		50 m	12906
	insulation thickness of 19 mm		Code	
	DN 16 stainless-steel pipe, incl. 4 nuts with lock rings and rim nipple	10 m	12911	
		30 m	12913	
	DN 16 stainless-steel pipe		50 m	12914
	DN 20 stainless-steel pipe, incl. 4 nuts with lock rings and rim nipple	10 m	12915	
20 m		12916		
30 m		12917		
DN 20 stainless-steel pipe		50 m	12918	
<b>Accessories to SOLARFLEX A stainless steel pipes</b>		Pipe size:	Code	
	Set of 4 nuts, lock rings, gaskets and rim nipple	DN 16	9644	
		DN 20	9645	
	Lock rings	DN 16	8802	
		DN 20	8803	
	Nut	DN 16	10708	
		DN 20	10707	
	Rim nipple	DN 16	6970	
		DN 20	6969	
	Wall clamps for twinway stainless-steel pipe – set of 4		DN 16 - 20	9641
	Wall clamps for single stainless-steel pipe – set of 4		DN 16 - 20	12932

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KOMBIFLEX Flexible stainless steel tubes for water and solar appl.		Code	
	Pipe DN 8 (3/8" nut), 2 m	3713	
	3/8" Nut with gasket, nickel-plated brass	769	
		Pipe DN 12 (1/2" nut), sold by the meter (30 m max.)	4654
		Pipe DN 12 (1/2" nut), 4 m	3093
		Pipe DN 12 (1/2" nut), 30 m	16959
		1/2" Nut with gasket, nickel-plated brass	770
		Pipe DN 16 (3/4" nut), sold by the meter (30 m max.)	4655
		Pipe DN 16 (3/4" nut), 4 m	3094
		Pipe DN 16 (3/4" nut), 30 m	16960
		3/4" Nut with gasket, nickel-plated brass	771
		Pipe DN 20 (1" nut), sold by the meter (30 m max.)	4656
		Pipe DN 20 (1" nut), 4 m	3267
		Pipe DN 20 (1" nut), 30 m	16961
		1" Nut with gasket, nickel-plated brass	3343
		Pipe DN 25 (5/4" nut), sold by the meter (20 m max.)	3379
		Pipe DN 25 (5/4" nut), 20 m	16962
		Nut with gasket, nickel-plated brass	3344
		<b>Accessories to KOMBIFLEX</b>	
		Pipe cutter, DN 8 to DN 20	713
			DN 8 and DN 20 clamp (3/8" + 1")
	DN 12 and DN 16 clamp (1/2" + 3/4")		720
		DN 25 clamp (5/4")	7597
		Tube template rammer, DN 8 to DN 20 (3/8" - 1")	3430
		Tube template rammer, DN 25 (5/4")	7596
		Tool case (rammer, cutter, DN12+16, 8+20 clamps, 4x10 nuts - 3/8", 1/2", 3/4", 1")	3834
	<b>Asbestos-free gaskets - 2 mm thick</b>		<b>Code</b>
	3/8" AFM34 nut gasket - 8.5x15 mm	5667	
		1/2" AFM34 nut gasket - 11.2x18.5 mm	5553
		3/4" AFM34 nut gasket - 15x24 mm	5554
		1" AFM34 nut gasket - 18.5x30 mm	5668
		5/4" AFM34 nut gasket - 25x39 mm	6799
		6/4" AFM34 nut gasket - 34x44 mm	11584
<b>Teflon gaskets for solar systems - 2 mm</b>		<b>Code</b>	
	3/8" PTFE nut gasket - 8,5 x 15 mm	9976	
		1/2" and 1/2" EKO PTFE nut gasket - 11,2 x 18,5 mm	9977
		3/4" PTFE nut gasket - 15 x 24 mm	9978
		1" PTFE nut gasket - 18,5 x 30 mm	9980
		5/4" PTFE nut gasket - 25 x 39 mm	9981
















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Brass hex nipples with enlarged sealing area - for KOMBIFLEX i SICURFLEX		Code		
	Hex nipple (male thread)	3/8" M 6972 1/2" M 6971 3/4" M 6970 1" M 6969 5/4" M 6973 6/4" M 7627		
		Reducing adaptor hex nipple (outer x outer threads)	1/2"x3/8" M 6968 3/4"x1/2" M 6965 1"x3/4" M 6967 5/4"x3/4" M 8270 5/4"x1" M 6966 6/4"x1" M 8766 6/4"x5/4" M 8767	
			Extension (female x male thread), 20 mm long	3/4" F/M 14304
			Extension (female x male thread), 19 mm long	1" F/M 14305
			Reducing hex adaptor (outer x inner threads)	3/4"x1/2" M/F 6964 1"x1/2" M/F 14307 1"x3/4" M/F 14306 5/4"x1/2" M/F 8564 5/4"x1" M/F 13395 6/4"x1" M/F 7882 6/4"x5/4" M/F 15820
			Reducing hex adaptor (female x male thread)	3/4"x1/2" F/M 9151 1"x3/4" F/M 13366 6/4"x1" F/M 14494
			Elbow	1/2" M/F 20125
				T-piece (male thread)
	Reducing T-piece (male thread)			3/4"x1/2"x3/4" M 15178 1"x3/4"x1" M 15179
	Brass Hex Nipples, cylindrical x conical thread (for gas and water)			Code
	Hex nipple (outer cylindrical thread w. enlarged sealing area x outer conical thread)	1/2" M 15596		
		3/4" M 15597		
		1" M 15598		
	Reducing hex nipple (outer cylindrical thread with enlarged sealing area x outer conical thread)	1/2"x3/8" M 15599		
		3/4"x1/2" M 15600		
		1"x3/4" M 15601		

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EPDM insulation for heating and solar systems, resistant to UV radiat., DN <sub>a</sub> shows the insulation hole diam. (max. outer diam. of pipes in mm)				
	<b>Insulation, 13 mm thick</b>	<b>packed in cardboard</b>	<b>Code</b>	
	Insulation DN <sub>a</sub> 10	140 m*	6442	
	Insulation DN <sub>a</sub> 13	120 m*	6443	
	Insulation DN <sub>a</sub> 16	136 m*	6444	
	Insulation DN <sub>a</sub> 18 - sold by the meter	30 m	7426	
	Insulation DN <sub>a</sub> 22 - sold by the meter	22 m	7473	
	Insulation DN <sub>a</sub> 28	78 m*	6447	
	Insulation DN <sub>a</sub> 35	58 m*	7187	
	<b>Insulation, 19 mm thick</b>	<b>packed in cardboard</b>	<b>Code</b>	
	Insulation DN <sub>a</sub> 15	56 m*	7053	
	Insulation DN <sub>a</sub> 18 - sold by the meter	12 m	7346	
	Insulation DN <sub>a</sub> 18, self-adhesive, cut lengthwise	48 m*	7189	
	Insulation DN <sub>a</sub> 22 - sold by the meter	11 m	7347	
	Insulation DN <sub>a</sub> 22, self-adhesive, cut lengthwise	40 m*	7190	
	Insulation DN <sub>a</sub> 28, sold by the meter	11 m	12155	
	Insulation DN <sub>a</sub> 28, self-adhesive, cut lengthwise	36 m*	9391	
	Insulation DN <sub>a</sub> 35	32 m*	7188	
	Insulation DN <sub>a</sub> 35, self-adhesive, cut lengthwise	32 m*	9392	
	<b>Accessories to insulation</b>		<b>Code</b>	
		Aerotape insulation tape 50 mm x 10 m - 3 mm thick		6450
		Protape insulation tape 50 mm x 25 m - 0.6 mm thick		7252
Insulation roll 1 m wide, 13 mm thick, packing 11 m, sold by 1 sqm			7418	
Glue 250 g with a brush - 150 °C			6452	
Glue 1200 g - 150 °C			19252	

Pipe insulation is available also in 2 m pieces and their multiplications  
Also bigger sizes or board insulation can be supplied upon order.

Cleaning pumps for scale removal from heating systems		Pack.	Code	
 	<b>BOSS 22 FI pressure cleaning pump</b> - 4-way valve, for calcareous sediments removal from a heat exchanger or heating circuit - flow direction can be changed - flow rate max. 30 l/min, 10 m head, 22 l tank volume		590	
	<b>BOSS 36 FI pressure cleaning pump</b> - 4-way valve, for calcareous sediments removal from a heat exchanger or heating circuit - flow direction can be changed - flow rate max. 48 l/min, 15 m head, 36 l tank volume		7786	
Liquids for cleaning pumps		Pack.	Code	
   	<b>Detex PLUS</b> - for descaling with descaling pumps - for steel+copper	10 kg	18180	
	<b>Detex PLURIMETAL</b> - for descaling with descaling pumps - for aluminium and stainless steel	10 kg	18181	
	<b>NEUTRAL POWDER</b> - neutralization powder, to remove residual acidity	1 kg	19416	
	- neutralization powder, to remove residual acidity	10 kg	19415	
Liquids for heating systems		Pack.	Code	
   	Heating system protectors		Code	
	<b>MANTA 100 PLUS</b> - corrosion inhibitor	250 ml	21643	
	<b>MANTA 700 PLUS</b> - protective fluid	250 ml	21646	
	Heating system cleaners		Pack.	Code
	<b>MANTA 400 PLUS</b> - cleaning fluid	250 ml	21818	
	<b>MANTA 800 PLUS</b> - strong cleaning fluid	1 l	18948	
Boiler cleaning and maintenance		Pack.	Code	
  	<b>METANO THERM spray</b> - cleaning of flue gas heat exchangers	400 ml	1977	
	<b>THERMONET bar</b> - soot dissolving agent for solid- and liquid-fuel boilers	200 g	16633	
	<b>ZINKALL spray</b> - for cold zinc-plating	400 ml	428	
Sealants for heating systems		Pack.	Code	
 	<b>BP STOP LEAK</b> - sealing fluid for heating circuits	1 l	14624	
	<b>EPOSTIX</b> - two-part epoxy putty - to repair leaks and holes in pipes	50 g	10281	

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Sealing yarn and pastes		Pack.	Code	
   	SISEAL - threaded sealant	50 g 100 g 250 g	931 436 520	
	TWINE SEAL - sealing thread yarn, for use up to 240 °C	175 m	10293	
	Hemp DE LUXE - heavy duty packing	1000 g	10289	
	KOLGAS-UNI - sealing paste for threaded and flanged connections - for use with hemp or gaskets	400 g	10279	
	Antifreeze fluid for Regulus solar collectors		Pack.	
 	Solarten Super - fluid based on monopropylene glycol - low freezing point (-28 °C) and anticorrosion properties - extended warranty for Regulus collectors is valid only when this fluid is used - it can be mixed with previously sold types Solarten Super+ and Solarten HT	5 l 10 l 25 l 60 l 200 l	10109 10110 10069 10111 10112	
	Antifreeze fluids for heating and cooling systems, incl. heat pump primary circuits		Pack.	Code
		RegulusAFheat - antifreeze heat transfer fluid based on ethylenglycol - anti-corrosion protection - concentrated - dilution ratio/freezing point: <b>1:1 / -39 °C; 1:1,5 / -26 °C; 1:2 / -17 °C; 1:3 / -12 °C; 1:4 / -9 °C</b>	5 l 25 l x 200 l	19269 19270 19271
		Accessories for handling antifreeze fluid		Code
		    	Refractometer - for measurements of antifreeze fluid properties in solar systems	
Manual filling pump - to replenish solar thermal systems with solar fluid and fill heating systems with cleaning and protective chemicals			15111	
Manual filling pump with 600 ml container and conn. nipples - to fill fluid into solar thermal systems and cleaning/protective chemicals to heating systems			15054	
Electric filling pump - for filling solar systems from a 25 l jerry can, DIN 61 connection, <b>and filling heating systems with cleaning and protective fluids</b>			9688	
Filling push cart - for solar systems, 1.1 kW power input, max. volume flow 60 l/min., max. working pressure 5 bar			9561	

x - on order

Concentric flue ducts, 60/100 diam., slide-on version, A2-white varnish			Code
	Set of 60/100 horizontal flue pipe, Al/Fe, pipe length 0.75 m, set with elbow w. upsized flange	A20011098	8221
	Set of 60/100 horizontal flue pipe + elbow, pipe length 0.75 m	A20011116	8516
	Set of 60/100 horizontal flue pipe thru wall 0.75 m and terminal, Al/Fe	A20011107	8223
	1 m Extension, Al/Fe	A2007002	7636
	1 m Extension, Al/Al	A2001114	4115
	0.25 m Extension, Al/Fe	A2007000	9594
	0.5 m Extension, Al/Al	A2001113	4116
	0.5 m Extension, Al/Fe	A2007001	1888
	Pipe with inspection hole, 0.33 m long	A2001609	8433
	90° Elbow with upsized flange and inspection hole	A2007065	14311
	90° Elbow with tap holes, flanged	A2001879	7486
	90° Elbow with upsized rotating plastic flange, with tap holes	A2001114	8515
	90° Elbow, Al/Fe	A2001699	7478
	90° Elbow, Al/Fe, inspection hole	A2001839	8431
	45° Elbow, Al/Fe	A20011289	9092

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Concentric flue ducts, 60/100 diam., slide-on version, A2-white varnish			Code
	Condensate discharge section, horizontal	A2001142	5429
	Condensate discharge section, vertical	A2001244	4663
	Upsized flange with tap holes and condensate discharge	A20011097	8224
	Upsized rotating plastic flange with tap holes and condensate discharge	A20011113	8460
	Flanged section with tap holes	A2001755	1057
	Spigot coupling, Al/Al	A2001122	2161
	Clamp and sleeve	A2015017	5911
	Sealing O-ring, diam. 60 mm, 2 lips	A1013176	1851
	Sealing O-ring, diam. 100 mm, 2 lips, grey silicone - intake only	A1015165	6434
	Inner wall sealing collar	A1015078	1081
	Outer wall sealing collar	A1015082	1184
	Termination diam. 60/100, intake/exhaust, conical	A1001504	3217
	Flue terminal, connection 60/100, out 125 mm	A5021000	305
	Flue terminal, connection 60/100, out 100 mm	A5023061	5752
	Chimney reducer 125/100	A5025005	3137

Roof flashings and other common accessories now on the last page.

Concentric flue ducts, 80/125 diam., slide-on version, A2-white varnish			Code
	1 m Extension, Al/Fe	A2009018	1698
	0.5 m Extension, Al/Fe	A2009017	7002
	Section with inspection hole, 0.31 m long	A2005149	8434
	90° Elbow	A2005203	5583
	90° Elbow with inspection hole	A2005120	8432
	45° Elbow	A2009070	6007
	Reducing couple, diam. 60/100-80/125, F-M, Al/Al	A2005037	6009
	Sleeve and clamp	A2018010	995
	Flange, diam. 60/100 x 80/125, with tap holes and condensate discharge	A2005006	6006
	Sealing ring, diam. 80, 2 lips, red	A1011905	1448
	Sealing O-ring, diam.125 mm, 2 lips, grey silicone - intake only	A1018041	6462
	Sealing collar, inner (outer)	A1018027	3776
	Vertical concentric flue terminal, diam. 80/125 mm	A5021001	175
	Vertical concentric flue terminal, diam. 80/125 mm, anti-condensing	A5023183	11795

Roof flashings and other common accessories now on the last page.

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Twin flue ducts, diam. 80, A2-white varnish			Code
	0.25 m Extension	A2011030	9599
	0.5 m Extension	A2011017	1991
	1 m Extension	A2011004	1990
	2 m Extension	A2011120	8784
	Section with inspection hole, 0.31 m long	A2011666	2008
	Chimney spacer, stainless steel	A1012005	1961
	Chimney bracket, stainless steel	A1012006	2189
	Flue pipe with stainless steel termination, 1 m	A2011008	2100
	Flue pipe with stainless steel term., 1 m, 1.5 mm thick	A2011526	4118
	Flue pipe with stainless steel termination, 0.5 m	A2011026	2099
	Intake pipe with plastic termination, 1 m	A2011012	2101
	90° Elbow	A2011712	2096
	90° Elbow with inspection hole	A2011684	2009
	45° Elbow	A2011131	2095
	T-piece, diam. 80, with condensate discharge - for chimney	A2012053	2191
	Chimney support bracket for T-piece	A5012034	8202
	Reducing piece inner diam. 57 to inner diam. 80	A2011314	7307
	Section with condensate discharge, horizontal	A2011198	2197
	Twin flue adaptor kit with tap holes, screw connection	A2011097	2098
	Flange diam. 60/100 for indoor air intake x diam. 80 out	A2001108	4679
	Sealing ring, diam. 80, 2 lips, red	A1011905	1448
	Sealing O-ring, diam. 80 mm, 3 lips, for elbows 2095,2096	A1011889	9699

Twin flue ducts, diam. 80, A2-white varnish			Code
	Inner wall sealing collar	A1011403	1020
	Outer wall sealing collar	A1011408	1021
	Termination, diam. 80, exhaust, stainless steel	A1011902	4754
	Termination, diam. 80, exhaust only	A5023012	8167
	Air/Flue chimney 2x80 mm, diam. 125 mm	A5021002	3777
	1x 80 mm Chimney for exhaust, diam. 125 mm	A5021003	1303
Single flue ducts, diam. 60, 1.5 mm thick			Code
	A1013027 1 m Extension		2193
	A2013017 Condensate discharge section, horizontal		2198
Single flue ducts, diam. 100, 1,5 mm thick			Code
	A2015006 1 m Extension		2092
	A2015003 0.5 m Extension		2090
	A2015011 90° Elbow		2088
	A1015064 Sealing O-ring, diam. 100 mm, 2 lips		1852
Concentric flue ducts, diam. 60/100, outer pipe plast, inner AL			Code
	BB002002 pipe with plastic conical termination (inner pipe 1.5 mm thick)		3213
	BB002052 1 m Extension (inner pipe 1.5 mm thick)		3404

Roof flashings and other common accessories now on the last page.

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RegulusFLEX Flexible Flue Gas System for condensing boilers, diam. 80			Code
	RegulusFLEX Flexible PP Flue Pipe, diam. 80 – sold by the meter, with mark every 1 meter	REG16666	16666
	RegulusFLEX Flexible PP Flue Pipe, diam. 80 – 20m	BB011515	16115
	RegulusFLEX Flexible PP Flue Pipe, diam. 80 – 10m	REG17927	17927
	RegulusFLEX Flexible PP Flue Pipe, diam. 80 – sold by the meter (80 m max.)	BB011524	16062
	RegulusFLEX Chimney Kit: chimney cowl 15836, 5 chimney spacers 7419, chimney elbow:	chimney elbow 17229 diam. 80 - 60/100	17243
	chimney elbow 16817 diam. 80 - 80/125	16904	
	chimney elbow 11954 diam. 80 - 80	16176	
	chimney elbow 21579 diam. 80 - 80	17887	
	chimney elbow 121580 diam. 80 - 60	17886	
	RegulusFLEX Chimney Elbow, diam. 80/60 incl. chimney plate with 60/100 transition	A1012248	17229
	RegulusFLEX Chimney Elbow, diam. 80 incl. chimney plate with 80/125 transition	A1012243	16817
	Chimney elbow, diam. 80 + its support bracket	A1012121	11954
	Screw-on Elbow for chimney liners, 80 diam.	BB011694	21579
	Screw-on Elbow for chimney liners, 80 diam., reduction to 60 mm	BB011695	21580
	Chimney door, for diam. 80/125	BB013077	17926
	Chimney door, for diam. 60/100	BB012208	17925
	Chimney door, for diam. 60, 80, 100, 125 mm	A2012233	15849
	Chimney spacer for flexible ducts only	BN011091	7419
	Flue pipe section with round inspection hole	BB011094	11511
	Inspection hole cap	PTA9569	17274
	Termination Kit for flexible ducts - 1 socket and 1 flue pipe diam. 80	BB011521	15441
	Chimney Cowl w. chimney plate (35x35 cm) incl. termination kit for flexible duct	A5025058	15836
	Sealing O-ring for RegulusFLEX flexible flue gas system	A10111192	15952

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RegulusFLEX Flexible Flue Gas System for condensing boilers, diam. 60			Code
	RegulusFLEX Flexible PP Flue Pipe	20 m	16114
		sold by meter	16058
	RegulusFLEX Chimney Kit (chimney cowl, elbow and chimney spacers)	REG16543	16543
	<b>RegulusFLEX Chimney Kit (chimney cowl, screw-on elbow and chimney spacers)</b>	<b>REG16543</b>	<b>21983</b>
	Chimney spacer for flexible ducts only	BN004072	15428
	Termination Kit for flexible ducts - 1 socket and 1 flue pipe	BB004240	15440
	Chimney Cowl w. chimney plate (35x35 cm) incl. termination kit for flexible duct	A5025057	15835
	Sealing O-ring for RegulusFLEX flexible flue gas system	A1013355	15951
	Chimney elbow + its support bracket	A1012120	12108
	<b>Screw-on Elbow for chimney liners, 80 diam.</b>	<b>BB011895</b>	<b>21578</b>
RegulusFLEX Flexible Flue Gas System for condensing boilers, diam. 100			Code
	RegulusFLEX Flexible PP Flue Pipe	20 m	16116
		sold by meter	16063
	RegulusFLEX Chimney Kit (chimney cowl, elbow and chimney spacers)	REG16840	16840
	Chimney spacer for flexible ducts only	BN005024	7001
	Termination Kit for flexible ducts - 1 socket and 1 flue pipe	BB005193	15442
	Chimney Cowl w. chimney plate (35x35 cm) incl. termination kit for flexible duct	A5025059	15837
	Sealing O-ring for RegulusFLEX flexible flue gas system	A1015322	15953
	Chimney elbow + its support bracket	A1012145	12409
	Flue pipe section with round inspection hole	BB005129	14988
	RegulusFLEX Flexible Flue Gas System for condensing boilers, diam. 125		
	RegulusFLEX Flexible PP Flue Pipe – 20m	BB015115	16117
	RegulusFLEX Chimney Kit (chimney cowl, elbow and chimney spacers)	REG16841	16841
	Chimney spacer for flexible ducts only	PPFR60	8869
	Termination Kit for flexible ducts - 1 socket and 1 flue pipe	BB015116	15443
	Chimney Cowl w. chimney plate (35x35 cm) incl. termination kit for flexible duct	A5025060	15838
	Sealing O-ring for RegulusFLEX flexible flue gas system	A1018098	15954
	Chimney elbow + its support bracket	A1012169	14546

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Flue ducts, diam. 60/100 PP for condensing boilers, inner pipe PP, outer white varnish			Code
	Horizontal flue terminal, 0.86 m, plastic termination	A2008004	4677
	0.25 m Extension	A2008205	9595
	0.5 m Extension	A2008206	9596
	1 m Extension	A2008207	9597
	1.94 m Extension	A2008147	8514
	Section with inspection hole, 0.31m long	A2002162	13835
	90° Elbow with flange and tap holes, rotating	A2008164	7216
	90° Elbow	A2008163	6653
	90° Elbow with inspection hole	A2008182	12756
	45° Elbow	A2002160	6140
	Flanged section with tap holes	A2002007	4673
	Boiler coupling with tap holes	A2002091	7807
	Inspection hole cap	PTA9569	17273
	Inner wall sealing collar	A1015356	1081
	Outer wall sealing collar	A1015358	1184
	Sealing O-ring, diam.100 mm, 2 lips, grey silicone - intake only	A1015165	6434
	Termination diam. 60/100, intake/exhaust, conical	BB002021	14692
	Vertical Concentric Flue Terminal, diam. 60/100 - for dedicated red tile with 100mm diam. opening	A5023141	21572
	Vertical Concentric Flue Terminal, 60/100, diam. 125 out, black	A5023165	11253

Roof flashings and other common accessories now on the last page.

Flue ducts, diam. 80/125 PP, for condensing boilers, inner pipe polypropylene, outer white varnish			Code
	Horizontal flue pipe, concentric, plastic termination, 0.9m	A2010012	7003
	0.25 m Extension	A2010038	9598
	0.5 m Extension	A2010057	4675
	1 m Extension	A2010058	7004
	1.93 m Extension	A2010041	8513
	Section with inspection hole	A2006086	11265
	90° Elbow	A2010067	4676
	90° Elbow, with tap holes, diecast	A2006108	7649
	90° Elbow, with inspection hole	A2010069	7648
	45° Elbow	A2010068	6432
	Boiler adapter, with tap holes, 60/100 - 80/125	A2006069	7806
	Boiler adapter, with sleeve clamp, 60/100 - 80/125	A2006070	7808
	Flanged adapter, diam. 60/100 - 80/125, with tap holes	A2006010	4678
	Flanged adapter, diam. 80/105 - 80/125, with tap holes	A2006025	7468
	Inner/outer wall sealing collar	A1018112	3776
	Sealing O-ring, diam. 125 mm, 2 lips, with protrusions - intake only	A1018071	10601
	Sealing O-ring, diam.125 mm, 2 lips, grey silicone - intake only	A1018041	6462
	Vertical Concentric Flue Terminal, 80/125, black	A5023166	11255

Roof flashings and other common accessories now on the last page.

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Coaxial Flue Pipes, diam. 60/100 PP/PP for condensing boilers			Code
	Horizontal flue terminal, plastic termination	BB012106	14613
	0.25 m Extension	BB012092	14609
	0.5 m Extension	BB012009	14610
	1 m Extension	BB012010	14611
	2 m Extension	BB012105	14612
	Section with inspection hole, 0.31m long	BB012107	14616
	90° Elbow	BB012095	14608
	90° Elbow with inspection hole	BB012099	14615
	45° Elbow	BB012097	14607
Flue ducts, diam. 80/125 PP, for condensing boilers			Code
	Horizontal flue pipe, plastic termination	BB013042	14666
	0.5 m Extension	BB013039	14661
	1 m Extension	BB013040	14662
	2 m Extension	BB013041	14663
	Section with inspection hole, 0.31m long	BB013046	17007
	90° Elbow	BB013045	14665
	90° Elbow with inspection hole	BB013043	17008
	45° Elbow	BB013071	14664



Flue ducts, diam. 60, for condensing boilers, polypropylene			Code
	0.5 m Extension	BB004157	8813
	1 m Extension	BB004156	8814
	2 m Extension	BB004155	11251
	0.5 m Extension, UV resistant	BN004157	14561
	1 m Extension, UV resistant	BN004156	14562
	2 m Extension, UV resistant	BN004155	14563
	Chimney T-piece, M-M-F	BB004007	8807
	Plug with condensate trap, for T-piece	BB004010	8811
	Chimney support bracket for T-piece	A5012034	8202
	90° Chimney elbow + its support bracket	A1012120	12108
	90° Elbow	BB004153	8815
	45° Elbow	BB004154	8816
	Reducing piece, diam. 80/60 M/F, PP	BB011084	7470
	Chimney Locking Band, wire	A1013314	15444
	Chimney Spacer, for rigid pipes only	BN004187	15418
	Sealing O-ring, 2 lips, for flexible extension	A1013310	9058
	Sealing ring, diam. 60, 3 blades	A1013020	4671
	Sealing O-ring, diam. 60, 3 lips, with protrusions	A1013184	4672
	Chimney Cowl with 35x35cm chimney plate, incl. locking band, for rigid pipes	A5025063	16127

Roof flashings and other common accessories now on the last page.

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Flue ducts, diam. 80, for condensing boilers, polypropylene			Code
	Horizontal flue terminal, 1 m, exhaust	BB011017	6144
	Horizontal air intake with termination, 0.94 m	BB011016	6435
	0.25 m Extension	BB011004	9600
	0.5 m Extension	BB011005	4666
	1 m Extension	BB011006	6141
	2 m Extension	BB011061	7885
	0.5m Extension, UV resistant	BN011005	13902
	1m Extension, UV resistant	BN011006	13903
	2m Extension, UV resistant	BN011061	13904
	Flue pipe section with round inspection hole	BB011094	11511
	Chimney T-piece, M-M-F	BB011093	7424
	Plug with condensate trap, for T-piece	A1012064	7425
	Chimney support bracket for T-piece	A5012034	8202
	Chimney T-piece with plug and support bracket	A1012097	11955
	Chimney elbow + its support bracket	A1012121	11954
	90° Chimney elbow + its metal support bracket	A5012123	8201
	Twin flue adaptor, 80/125 in	BB011486	12110
	Twin flue adaptor with sleeve clamp, 60/100 in, O-rings	BB011475	12111
	Twin flue adaptor with tap holes, 60/100 in, O-rings	BB011474	12109
	Flange diam. 60/100-80, with indoor air intake	A2002044	7471
	Boiler flanges, diam. 80, air+flue, set	BB011053	6383
	45° Elbow	BB011372	6142
	45° Elbow, with inspection hole	BB011637	17385

Flue ducts, diam. 80, for condensing boilers, polypropylene			Code
	90° Elbow	BB011371	6143
	90° Elbow, with tap hole	BB011373	7652
	90° Elbow, with inspection hole	BB011374	12755
	Inspection hole cap	PTA9569	17274
	Reducing coupler, diam. 80/60 M/F, l=134 mm	BB011012	7943
	Reducing coupler, diam. 60/80 M/F, asymmetric, for horizontal installation	BB011519	16023
	Chimney spacer	A1012005	1961
	Chimney bracket, stainless steel	A1012006	2189
	Chimney Locking Band, wire	A10111133	15421
	Chimney spacer for rigid pipes only	BN011385	15419
	Inner wall sealing collar	A1011403	1020
	Outer wall sealing collar	A1011408	1021
	Sealing ring, diam. 80, 1 lip	MGN08014	13047
	Sealing O-ring, 3 lips	A1011883	7449
	Sealing ring, diam. 80, 3 lips, with protrusions	A1011501	4668
	Termination, diam. 80, exhaust, stainless steel	A1011902	4754
	Termination, diam. 80-100, intake, plastic	ZUAV52	12120
	Termination, diam. 80, exhaust only	A5023138	14693
	Chimney Cowl with 35x35cm chimney plate, incl. locking band, for rigid pipes	A5025064	16128
	Flue terminal 2x80, outer diam. 125 mm	A5023167	11257
	Flue terminal 1x80, outer diam. 125 mm	A5023168	11258
	1x 80 mm flue terminal, diam. 125 mm, with flashing (50x50xcm)	A5023169	11259

Roof flashings and other common accessories now on the last page.

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Flue ducts, diam. 100 PP, for condensing boilers, polypropylene			Code
	Flue pipe with termination	BB005034	7121
	0.5 m Extension	BB005019	8211
	1 m Extension	BB005020	8212
	1 m Extension, UV resistant	BN005020	15405
	Flue pipe section with round inspection hole	BB005129	14988
	90° Chimney elbow + its support bracket	A1012145	12409
	Chimney T-piece, M-M-F	BB005022	8214
	Plug with condensate trap, for T-piece	BB005077	7005
	Chimney support bracket for T-piece	A5012034	8202
	Chimney Locking Band, wire	A1015294	15422
	Chimney spacer for rigid pipes only	BN005143	15420
	90° Elbow	BB005190	8210
	90° Elbow with inspection hole	BB005073	12472
	45° Elbow	BB005017	8209
	Reducing coupler, diam. 80/100 M/F, l = 120 mm	BB005029	8441
	Reducing coupler, diam. 80/100 M/F, asymmetric, for horizontal installation	BB005195	16034
	Sealing O-ring, 2 lips, for flexible extension	A1015200	9616
	Sealing ring, diam. 100, 3 blades, with protrusions	A1015208	9615
	Termination, diam. 80-100, intake, plastic	ZUAV52	12120
	Chimney Cowl with 35x35cm chimney plate, incl. locking band, for rigid pipes	A5025065	16129
	Vertical Exhaust Flue Terminal, diam. 100, for roof tile with 100 mm opening	A5023177	12410

Roof flashings and other common accessories now on the last page.

Flue ducts, diam. 125 PP, for condensing boilers, polypropylene			Code
	0.5 m Extension	BB015005	9683
	1 m Extension	BB015001	9684
	2 m Extension	BB015014	14547
	1 m Extension, UV resistant	BN015001	15406
	Elbow diam. 125, 45°, PP	BB015006	9672
	Elbow diam. 125, 90°, PP	BB015000	9671
	90° Elbow with inspection hole	BB015037	14553
	90° Elbow incl. chimney support	A1012169	14546
	Chimney T-piece, MMF	BB015018	14548
	T-piece lid for condensate discharge	BB015041	14574
	Chimney support bracket for T-piece	A5012034	8202
	Reducing coupler, diam. 100/125 MF	BB015032	14550
	Reducing coupler, diam. 100/125 M/F, asymmetric, for horizontal installation	BB015118	16035
	Reducing coupler, diam. 125/160 M/F, asymmetric, for horizontal installation	BB016072	16024
	Chimney Locking Band, wire	A1018086	15423
	Sealing O-ring, 2 lips	A1018063	14604
	Sealing O-ring, 3 lips with protrusions	A1018064	14605
	Extension for cascades diam. 125, 45° wye and elbow diam. 100, PP	BB015010	9675
	Insert - adapter diam. 80/100 for cascades, 3-piece set incl. non-return flap, PP	BB005065	9682
	Non return flap, diam. 80, for boiler series, for horizontal and vertical mounting	BB011377	14567
Lid for diam. 125 for cascades, condensate discharge and plug	BB015015	10218	
Condensate siphon, with floater, incl. hose	B1003070	9689	
Chimney Cowl with 35x35cm chimney plate, incl. locking band, for rigid pipes	A5025066	16130	

Roof flashings and other common accessories now on the last page.

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<b>Cascades diam. 160mm, PP for cond. Boilers</b>			<b>Code</b>
	Extension for cascades $\varnothing$ 160, 45° wye and elbow diam. 100, PP, l=670 mm	BB016052	9676
	Insert - adapter diam. 80/100 for cascades, 3-piece set incl. non-return flap, PP	BB005065	9682
	Extension diam. 160, l=1000, PP	BB016001	9686
	Extension diam. 160, l=500, PP	BB016005	9685
	90° elbow, diam. 160 - PP	BB016017	9673
	45° elbow, diam. 160 - PP	BB016018	9674
	Reducing coupler, diam. 125/160 M/F, asymmetric, for horizontal installation	BB016072	16024
	Non return flap, diam. 80, for boiler series, for horizontal and vertical mounting	BB011377	14567
	Lid for cascades, diam. 160, condensate discharge and plug	BB016020	10219
	Condensate siphon, with floater, incl. hose	B1003070	9689
Sealing gasket diam. 160, 2 blades, black - PP	B1016016	12778	
<b>Cascades diam. 200mm, PP for cond. Boilers</b>			<b>Code</b>
	Extension for cascades $\varnothing$ 200, 45° wye and elbow diam. 100, PP, l=995 mm	BB017090	18875
	Insert - adapter diam. 100/100 for cascades, 3-piece set incl. non-return flap, PP	BB005045	18876
	Extension diam. 200, l=1000mm, PP	BB017125	18872
	90° elbow, diam. 200 - PP	BB017018	18874
	45° elbow, diam. 200 - PP	BB017019	18873
	Lid for cascades, diam. 200, condensate discharge and plug	BB017020	18877

Various accessories to flue ducts			Code
	Neutralization filter, 3/4", incl. cartridge, PN 8 - to neutralize condensate from condens. boilers up to 100 kW output - flow rate max. 18 l/min., 0.2 bar pressure drop		13899
	Spare cartridge for neutralization filter		13898
	Condensate Neutralization Box – for hose diam. 38 mm, incl. filling		14432
	Condensate Neutralization Box – for hose diam. 38 mm, incl. filling - incl. condensate discharge pump to 3.5m elevation max.		14506
	Neutralization Box Refill		12490
	Silicon paste 250 g	SCIVTU0250	10280
	Condensate siphon with ball float	B1003057	6123
	Condensate hose, for T-piece and P-trap, 1.5 m	A1050012	8204
	Chimney door, for diam. 60, 80, 100, 125 mm	A2012233	15849
	Pitched-roof flashing, malleable Al sheet, diam. 125 mm, black, 18°- 44°	A5025036	8014
	Pitched-roof flashing, malleable Al sheet, diam. 125 mm, red, 18°- 44°	A6025036	10489
	Flat-roof flashing, diam. 125 mm	A5025001	363
	Flange diam. 100 for boiler, upsized, plastic, alone	BB005035	8459
	Gasket for plastic flange, 100 mm diam.	GNE10011	10067
Gasket for upsized flange, 100 mm diam.	GNE10019	10071	

For detailed information, ask for our flue duct catalogue.

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# Max. length of heating elements in HW storage tanks and thermal stores

HW tank type	Max. heating element length in a connection [mm]	Number of connections for heating elements	Max. heating element length in a flange [mm]	Flange codes
<b>HW TANKS</b>				
ROBC 200	500	1	500	21635
ROBC 300	500	1	500	21635
ROBC 400	635	1	585	17432
ROBC 500	680	1	680	17432
ROBC 750	815	1	815	17428
ROBC 1000	815	1	815	17428
ROBC 1500	815	1	815	17435
ROBC 2000	815	1	815	17435
ROBC 2500	815	1	815	17435
ROBC 3000	815	1	815	17435
ROBC 4000	815	1	815	17435
ROBC 5000	815	1	815	17435
RBC 200 HP	500	1	370	17434
RBC 300 HP	500	1	370	17434
RBC 300 HP 3.2	500	1	370	17432
RBC 400 HP	635	1	470	17434
RBC 500 HP	680	1	500	17434
RBC 750 HP	815	1	635	17428
RBC 1000 HP	-	0	635	17428
RBC 1500 HP	-	0	815	17435
RBC, R2BC 200	500	1	370	21644/21635
RBC, R2BC 300	500	1	370	21635
RBC, R2BC 400	635	1	470	17432
RBC, R2BC 500	680	1	500	17432
RBC, R2BC 750	815	1	635	17433
RBC, R2BC 1000	815	1	635	17433
RBC, R2BC 1500	815	1	815	17435
RBC, R2BC 2000	815	1	815	17435
RBC, R2BC 2500	815	1	815	17435
RBC, R2BC 3000	815	1	815	17436
RxDC 160	500	1	-	-
RxDC 200	500	1	-	-
RxDC 250	500	1	-	-
RxDC 300	500	1	370	21634
RGC 170	500	1	-	-
RGC 300 HP 2.5	-	0	470	included in tank
NBC 170 HP	-	0	-	-
HSK 220 TV	-	0	-	-

Thermal store type	Max. heating element length in a connection [mm]	Number of connections for heating elements
<b>THERMAL STORES W. DHW</b>		
DUO 390/130 x	500	3 <sup>1)</sup>
DUO 600/200 x	500	3 <sup>1)</sup>
DUO 750/200 x	635	3 <sup>1)</sup>
DUO 1000/200 x	700	3 <sup>1)</sup>
DUO 1700/200 x	955	3 <sup>1)</sup>
HSK 250 PB	500	3 <sup>4)</sup>
HSK 350 K P-B	-	0
HSK 400 x	635	3 <sup>4)</sup>
HSK 600 x	555	3 <sup>1)</sup>
HSK 650 PB	755	3 <sup>4)</sup>
HSK 750 x	700	3 <sup>1)</sup>
HSK 1000 x	755	3 <sup>1)</sup>
HSK 1700 x	955	3 <sup>1)</sup>

Thermal store type	Max. heating element length in a connection [mm]	Number of connections for heating elements
<b>THERMAL STORES</b>		
PSWF 300 N+	635	3
PSWF 500 N+	680	3
PSWF 800 N+	755	3
PSWF 1000 N+	755	3
PSWF 1500 N+	955	3
PSWF 2000 N+, N25	955	3 <sup>3)</sup>
PS 200 E	500	1
PS 300 E	635	1
PS 500 E+	680	1
PS 600 E	700	1
PS 800 E	815	1
PS 1000 E	815	1
PS 1100 E+	815	1
PS 1250 E+	955	1
PS 50 ZC	---	0
PS 100 ZC	450	1
PS 100 IZ	500	2
PS 200 IZ	500	2
PS 300 IZ	585	2
PS 500 IZ	680	2
PS 200 N+	500	5
PS, PS2F 300 N+	635	5
PS 400 N+	635	5
PS 500 Nx, PS2F 500 N+	680	5 <sup>3)</sup>
PS 600 N+	700	5
PS 700 N+	755	5
PS 800 N, PS2F 800 N+	815	5
PS 900 N+	815	5
PS 1000 Nx, PS2F 1000 N+	815	5 <sup>3)</sup>
PS 1100 N+	815	5
PS 1500 Nx, PS2F 1500 N+	955	5 <sup>3)</sup>
PS 2000 Nx, PS2F 2000 N+	955	5 <sup>3)</sup>
PSxx 3000 N25	955	5 <sup>3)</sup>
PSxx 4000 N25	955	5 <sup>3)</sup>
PSxx 5000 N25	955	5 <sup>3)</sup>
PS 400 K+	680	5
PS 500 K+	700	5
PS 600 K+	755	5
PS 900 K+	815	5
PS 1100 K+	955	5

<sup>1)</sup> P and PV types have an extra 4th connection for a PV element

<sup>2)</sup> when installing heating element to N25 thermal stores, a reduction 2,5" M x 6/4" F is necessary

<sup>3)</sup> it is not necessary to use heating elements with a longer non-heating end in this type of HSK thermal stores

# Heat Pump Sizing

## AIR-TO-WATER, INVERTER

**DESIGN BASED ON\*:** the energy needed for space and DHW heating    heat loss of the building

Heat pump	from	to	from	to
RTC 6i	- kWh/year	13 000 kWh/year	- kW	5 kW
EcoAir 712M	- kWh/year	22 000 kWh/year	- kW	9 kW
RTC 13e	- kWh/year	26 000 kWh/year	- kW	10 kW
EcoAir 614M	- kWh/year	29 000 kWh/year	- kW	11 kW
RTC 15p	- kWh/year	31 500 kWh/year	- kW	12 kW
EcoAir 720M	14 000 kWh/year	38 000 kWh/year	5 kW	15 kW
EcoAir 622M	16 000 kWh/year	44 500 kWh/year	6 kW	17 kW
RTC 25p	20 000 kWh/year	54 000 kWh/year	8 kW	21 kW
RTC 40p	31 500 kWh/year	93 000 kWh/year	12 kW	36 kW

## AIR-TO-WATER, ON/OFF

**DESIGN BASED ON\*:** the energy needed for space and DHW heating    heat loss of the building

Heat pump	from	to	from	to
EcoAir 406	- kWh/year	16 000 kWh/year	- kW	6 kW
EcoAir 408	11 500 kWh/year	20 000 kWh/year	5 kW	8 kW
EcoAir 410	18 000 kWh/year	31 500 kWh/year	7 kW	12 kW
EcoAir 415	25 000 kWh/year	41 500 kWh/year	10 kW	16 kW
EcoAir 420	36 500 kWh/year	51 500 kWh/year	14 kW	20 kW

## GROUND-TO-WATER, INVERTER

**DESIGN BASED ON\*:** the energy needed for space and DHW heating    heat loss of the building

Heat pump	from	to	from	to
EcoPart 612M	- kWh/year	41 500 kWh/year	- kW	16 kW
EcoPart 616M	10 000 kWh/year	54 000 kWh/year	4 kW	21 kW

## GROUND-TO-WATER

**DESIGN BASED ON\*:** the energy needed for space and DHW heating    heat loss of the building

Heat pump	from	to	from	to
EcoPart 406	- kWh/year	17 000 kWh/year	- kW	7 kW
EcoPart 408	16 500 kWh/year	24 500 kWh/year	5 kW	10 kW
EcoPart 410	20 000 kWh/year	30 000 kWh/year	7 kW	13 kW
EcoPart 412	23 500 kWh/year	35 500 kWh/year	9 kW	15 kW
EcoPart 414	29 500 kWh/year	43 500 kWh/year	12 kW	19 kW
EcoPart 417	35 500 kWh/year	56 500 kWh/year	15 kW	22 kW

In all cases we also consider DHW heating for 4 people with a consumption of 40 l/person/day. The input data for the heat pump design must be based on a calculation. Energy needs for space and DHW heating can be found in the Energy Performance Certificate of the building, For a customized proposal, please contact us via email [sales@regulus.eu](mailto:sales@regulus.eu)

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