

3/2025

**PRODUCT
CATALOGUE**

Regulus

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Brief overview of changes compared to 04/2024

NEW:

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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.



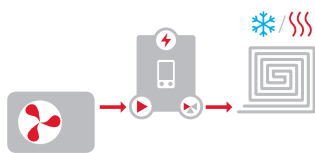
Warehouses & Distribution

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

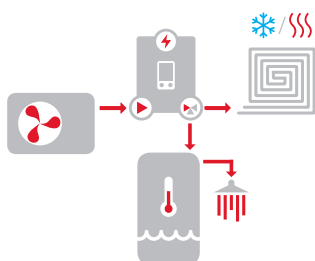
with Air-to-water Inverter Heat Pumps for heating & cooling

No hot water storage tank, RegulusBOX



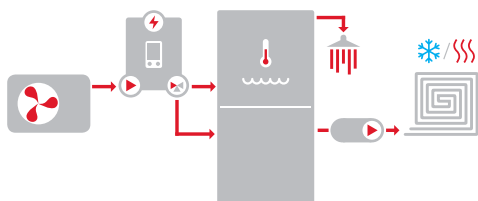
- inverter heat pump for heating & cooling
- RegulusBOX (IR RegulusBOX, electric boiler, circulation pump, 3-way zone valve)
- other boiler room equipment
- permits connecting a hot water storage tank

Hot water in NBC hot water tank, RegulusBOX



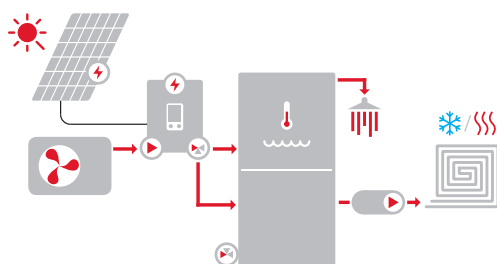
- inverter heat pump for heating & cooling
- hot water storage tank, 170 l
- RegulusBOX (IR RegulusBOX, electric boiler, circulation pump, 3-way zone valve)
- other boiler room equipment

Hot water in thermal store HSK, RegulusBOX



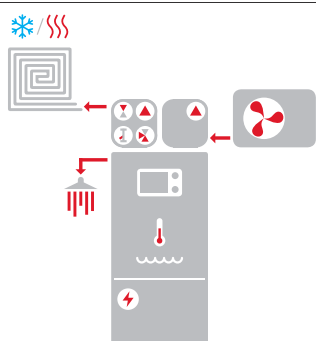
- inverter heat pump for heating & cooling
- RegulusBOX (IR RegulusBOX, electric boiler, circulation pump, 3-way zone valve)
- other boiler room equipment

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

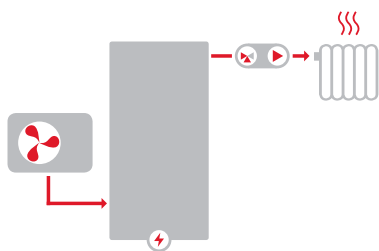


- inverter heat pump for heating & cooling
- RegulusHBOX indoor unit (thermal store with DHW heating, twine-line pump station, IR RegulusHBOX smart controller, electric boiler)
- other boiler room equipment

Typical hydraulic variants

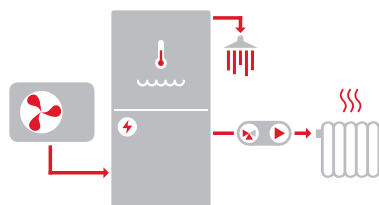
with Air-to-water On/Off Heat Pumps for heating

No hot water storage tank



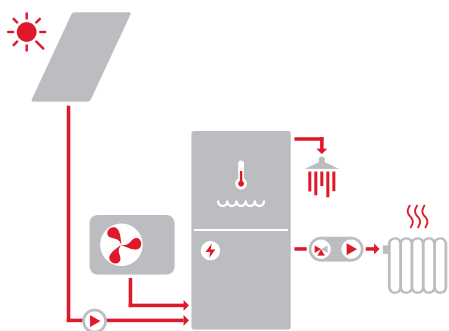
- on/off heat pump for heating
- PS 200 N+ thermal store
- IR 14 smart controller
- electric heating elements
- other boiler room equipment

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

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Single-phase Regulus RTC Heat Pumps for heating and cooling		
	» <i>Heat pump with inverter and reverse cooling mode. Maximum flow temperature 55 °C, high coefficient of performance, low noise, remote access via internet and service supervision is possible, also suitable for combination with PV panels. Up to 10 years warranty on compressor¹⁾</i>	Code
	RTC 6i Heat Pump 1-6 kW heating output, 1.5–5.5 kW cooling output, SCOP 4.47, energy efficiency class ²⁾ A+++	17735
	RTC 13e Heat Pump 3-12 kW heating output, 3–10 kW cooling output, SCOP 4.71, energy efficiency class ²⁾ A+++	19437
Pump Stations with Controllers		
	» <i>IR 14 Smart Controller controls heat pumps, 2 heating circuits, DHW heating, solar thermal system, and possibly also electricity surplus from PV panels. The pump stations groups include a Wilo pump with speed control and flow information, filter w. magnet, thermometer and insulation and 15m long communication cable.</i>	Code
	CSE IR 14 RTC EN Pump station and IR 14 RTC Controller, menu in English	18242
RegulusBOX Indoor Unit		
	» <i>contains a circulation pump, IR RegulusBOX smart controller enabling Internet connection, 3-way valve for connecting a hot water tank, 2–12 kW electric boiler</i>	Code
	RegulusBOX 12 RTC 3/1S EN - for RTC 6i, 13e Heat Pumps (menu in English), dimensions (WxHxD): 560x905x235 mm	18930
RegulusHBOX K Indoor Unit with DHW heating		
	» <i>contains RGC 170 hot water tank, IR RegulusHBOXK smart controller enabling Internet connection, 2–6 kW electric boiler</i>	Code
	RegulusHBOX K 106 RTC 3/1S EN - for RTC 6i, 13e Heat Pumps, dimensions WxHxD: 750 x 1155 x 825 mm, pump for heat pump and heating circuit included (menu in English)	20631
RegulusHBOX Indoor Unit with DHW heating		
	» <i>contains thermal store HSK 210 with DHW heating in stainless steel heat exchanger, IR RegulusHBOX smart controller enabling Internet connection, safety kit for DHW, safety group, expansion vessel for heating system and 2–12 kW electric boiler</i>	Code
	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	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.

Three-phase Regulus RTC Heat Pumps for heating and cooling		
	» Heat pump with inverter and reverse cooling mode. Maximum flow temperature 55°C, high coefficient of performance, low noise, remote access via internet and service supervision is possible, also suitable for combination with PV panels. Up to 10 years warranty on compressor ¹⁾	Code
	RTC 20e Heat Pump 9.2 - 18.5 kW heating output, 5.5 - 16 kW cooling output, SCOP 4.84, energy efficiency class ²⁾ A+++	19439
Pump Stations with Controllers		
	» IR 14 Smart Controller controls heat pumps, 2 heating circuits, DHW heating, solar thermal system, and possibly also electricity surplus from PV panels. The pump stations groups include a Wilo pump with speed control and flow information, filter w. magnet, thermometer and insulation and 15m long communication cable.	Code
	CSE IR 14 RTC EN Pump station and IR 14 RTC Controller, menu in English	18242
RegulusBOX Indoor Unit		
	» contains a circulation pump, IR RegulusBOX smart controller enabling Internet connection, 3-way valve for connecting a hot water tank, 2-12 kW electric boiler	Code
	RegulusBOX 12 RTC 3/3S EN - for RTC 20e Heat Pumps (menu in English), dimensions (WxHxD): 560x905x235 mm	20025

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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Three-phase EcoAir 600M Air-to-Water Heat Pumps with inverter

	» Max. flow temperature 65 °C, high COP, very low noise level, remote access via internet and service supervision is possible, ready to be combined with PV panels, scroll compressor with speed control, up to 10 years warranty on compressor¹⁾. The heat pump has obtained HP KEYMARK European quality label.	Code
	EcoAir 614M Heat Pump heat output 3 - 13 kW, SCOP 4.9, en.eff.class ²⁾ A+++	17156
	EcoAir 622M Heat Pump heat output 4 - 24 kW, SCOP 4.93, en.eff.class ²⁾ A+++	17157

Three-phase CTC EcoPart 600M Ground-to-Water Inverter Heat Pumps

	» Max. flow temperature 65 °C, high COP, very low noise level, incl. a primary (ground) circuit and heating circuit circulation pumps, remote access via internet and service supervision is possible, suitable to be combined with PV systems, compressor with speed control - up to 10 years warranty. HP KEYMARK European quality label.	Code
	EcoPart 612M Inverter Heat Pump - heat output of 2.5-12 kW, SCOP 5.5, en.eff.class ²⁾ A+++	18259
	EcoPart 616M Inverter Heat Pump - heat output of 4-16 kW, SCOP 5.5, en.eff.class ²⁾ A+++	18290

Pump Stations with controllers

	» IR Smart Controller controls heat pumps, 2 mixed heating circuits, DHW heating, solar thermal system, or even energy surplus from PV panels. The pump stations contain a Wilo pump with speed control and flow data, filter w. magnet, thermometer and thermal insulation.	Code
	CSE IR 14 CTC EN Pump station and IR 14 CTC controller, menu in English	18923

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		
	» contains a circulation pump, IR RegulusBOX smart controller enabling Internet connection, 3-way valve for connecting a hot water tank, 2-12 kW electric boiler	Code
	RegulusBOX 12 CTC 3/3 EN - for EcoAir, EcoPart 406-414, 612M a 616M Heat Pumps (menu in English), dimensions (WxHxD): 560x905x235 mm	18928
RegulusHBOX K Indoor Unit with DHW heating		
	» contains RGC 170 hot water tank, IR RegulusHBOXK smart controller enabling Internet connection, 2-6 kW electric boiler	Code
	RegulusHBOX K 106 CTC 3/3 EN - for CTC Heat Pumps with inverter, dimensions WxHxD: 750 x 1155 x 825 mm, pump for heat pump and heating circuit included (menu in English)	20630
RegulusHBOX Indoor Unit with DHW heating		
	» contains thermal store HSK 210 with DHW heating in stainless steel heat exchanger, IR RegulusHBOX smart controller enabling Internet connection, safety kit for DHW, safety group, expansion vessel for heating system and 2-12 kW electric boiler	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
	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
	Set for connecting expansion vessel to RegulusHBOX K	21434
	Set for connecting module 4xRO (5A) to RegulusHBOX K	21435

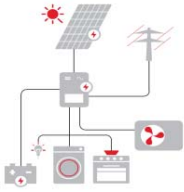
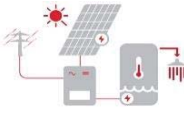
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Three-phase EcoAir 400 Air-to-Water on/off Heat Pumps		
	» Max. flow temperature 65 °C, high COP, very low noise level, remote access via internet and service supervision is possible, up to 10 years warranty on compressor¹⁾. The heat pump has obtained HP KEYMARK European quality label.	Code
	EcoAir 406 Heat Pump heat output of 6.2 kW at A7/W35, SCOP 3.85, en.eff.class ²⁾ A++	x 13243
	EcoAir 408 Heat Pump heat output of 7.8 kW at A7/W35, SCOP 3.92, en.eff.class ²⁾ A++	13244
	EcoAir 410 Heat Pump heat output of 11.5 kW at A7/W35, SCOP 3.92, en.eff.class ²⁾ A++	12994
	EcoAir 415 Heat Pump heat output of 16.2 kW at A7/W35, SCOP 3.76, en.eff.class ²⁾ A++	12995
	EcoAir 420 Heat Pump heat output of 17.5 kW at A7/W35, SCOP 3.71, en.eff.class ²⁾ A+	x 12848
Three-phase EcoPart 400 Ground-to-Water on/off Heat Pumps		
 	» Max. flow temperature 65 °C, high COP, very low noise level, incl. a primary (ground) circuit circulation pump, remote access via internet and service supervision is possible, up to 10 years warranty on compressor¹⁾. The heat pump has obtained HP KEYMARK European quality label.	Code
	EcoPart 406 Heat Pump heat output of 5.9 kW at B0/W35, SCOP 4.70, en.eff.class ²⁾ A+++	12647
	EcoPart 408 Heat Pump heat output of 8.2 kW at B0/W35, SCOP 4.70, en.eff.class ²⁾ A+++	12648
	EcoPart 410 Heat Pump heat output of 10 kW at B0/W35, SCOP 4.70, en.eff.class ²⁾ A+++	12649
	EcoPart 412 Heat Pump heat output of 11.8 kW at B0/W35, SCOP 4.80, en.eff.class ²⁾ A++	12650
	EcoPart 414 Heat Pump (incl. heating water circulation pump) heat output of 14.5 kW at B0/W35, SCOP 4.60, en.eff.class ²⁾ A++	12651
	EcoPart 417 Heat Pump (incl. heating water circulation pump) heat output of 16.76 kW at B0/W35, SCOP 4.70, en.eff.class ²⁾ A+++	12652
	EcoPart 435 Heat Pump (incl. heating water circulation pump) heat output of 32.5 kW at B0/W35, SCOP 4.70, en.eff.class ²⁾ A+++	x 15903
Pump Stations with controllers		
	» IR Smart Controller controls heat pumps, 2 mixed heating circuits, DHW heating, solar thermal system. The pump stations contain a Wilo pump with speed control and flow data, filter w. magnet, thermometer and thermal insulation.	Code
	CSE IR 14 CTC EN Pump station and IR 14 CTC controller, menu in English	18923

x - upon order

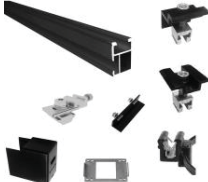
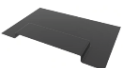
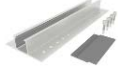
1) Please ask our regional sales representatives about current conditions for extended warranty.
2) Seasonal space heating energy efficiency class under average climatic conditions for low temperature applications.

Accessories to heat pumps			Code
        	CSE TC W iPWM MFB Pump Station for a heat pump - for heat pumps in series. Includes a Wilo PARA 25/8 iPWM1 pump, filter w. magnet, thermometer, insulation.		17868
	In Line Heater 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:	7.5 kW	16166
		9.0 kW	19391
	The soft starter for heat pumps CTC EA410-420, reduces the starting current of the heat pump, has a self-learning algorithm responding to the conditions of a specific installation.		18401
	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 a Solax X3-HYBRID inverter		20664
	Heating Cable for EcoAir total length:	3.5 m	16168
	(non-heating end always 1 m)	5 m	18104
	Heating Cable for RTC, total length:	2.5 m	20629
	(non-heating end always 1 m)	5 m	18491
	Filling set for primary circuit, incl. filter	1" M	12454
		5/4" M	12455
	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, 510M and RTC 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 and 622M, on a thermally insulated outer wall		18406
Connection Accessories			Code
           	Compensator for increased protection against freezing DN25, incl. gaskets	1" Fu/M	16757
		5/4" Fu/M	19754
	Pipe fitting	Cu 28 x 1" M	13391
		Cu 28 x 5/4" M	17090
		Cu 28 x Cu 28	13394
	Elbow, Cu28 x 1" M	Cu 28 x 1" M	15985
	Elbow, Cu 28 x 5/4" M	Cu 28 x 5/4" M	17091
	Elbow, Cu28 x Cu28	Cu 28 x Cu 28	16437
	Pipe insert Cu 28 (x 1 max)	Cu 28 (x 1 max)	15900
	Sealing O-ring for Cu 28 pipes	Cu 28	13393
	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	300 mm	19753
		500 mm	16899
		700 mm	16900
		1000 mm	16901
	Nut Gasket	1"	9980
		5/4"	9981

Regulus Photovoltaic Sets		
	» suitable to be combined with our heat pumps, do not contain mount kits, anchoring elements	Code
	FVE 5.4 kWp BAT 5.8 kWh Photovoltaic Kit - 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, T30 battery energy storage, 6,0 kWh	21454
	FVE 7.2 kWp BAT 11.6 kWh Photovoltaic Kit - 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
	FVE 9.9 kWp BAT 11.6 kWh Photovoltaic Kit - 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		Code
	» do not contain mount kits, anchoring elements	Code
	FVE-TV 1.8 kWp set - includes 4 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, GETI inverter, DC switchboard for 1 string, disconnecter, pushbutton and connection cable	21342
	FVE-TV 2.2 kWp set - includes 5 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, GETI inverter, DC switchboard for 1 string, 2 disconnecters, pushbutton and connection cables	21340
	FVE-TV 2.7 kWp set - includes 6 bifacial PV panels of 450 Wp each, a set for connecting panels from the roof, GETI inverter, DC switchboard for 1 string, 2 disconnecters, pushbutton and connection cables	21282

The above kits/sets serve as examples - we will always work out a specific solution to suit your needs.

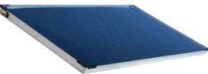
Safety disconnectors		Code
	Rapid Shutdown BFS-A2 safety disconnecter for max. 4 PV panels	21440
	Rapid Shutdown BFS-ESW12-K emergency disconnect button	21441
	Cable for communication between the button and disconnecter, 20m	21442
	Cable for communication between two disconnecters, 2m	21443
Optimizers for Shaded Panels		Code
	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		Code
	Submodule to connect IR 14 controller and Solax X3-HYBRID inverter	20664
Electric heating element for PV sets for DHW heating		Code
	ETT-NK 3 kW heating element 1x230 V with thermostatic head, length incl. thread 450 mm, nickel-plated, G 6/4", non-heating end length 180 mm	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)	21245
	Black aluminium anchor for mounting the roof P-rail for pantiles (incl. T-slot stone)	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 ([x-number of arrays] kits for [x] panels) - contains 2 middle brackets, 2 screw clamps for earthing, 2 cable ties	21272
	Anchoring Elements	Code
	Triangular roof support for horizontal panels on flat roof, EAST-WEST	20401
	Triangular roof support for horizontal panels on flat roof, SOUTH	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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KPS1 flat plate solar collector - harp type absorber, 7 year warranty		Code
    	KPS1 Solar collector collector area 2.11 sqm, output 1481 W at 1000 W/m² 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	16277
	Mount kits for fixing and connecting KPS1 solar collectors	Code
	Connection kit for KPS, KPG1 collector array (G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath)	7710
	Mount kit for 1 KPS1 solar collector *(for 4 anchors or 2 supports+1 strut)	12178
	Mount and interconnection kit for 2 KPS1 collectors *(for 6 anchors or 3 supports+1 strut)	12179
	Mount and interconnection kit for 3 KPS1 collectors *(for 8 anchors or 4 supports+1 strut)	12180
	Mount and interconnection kit for 4 KPS1 collectors *(for 10 anchors or 5 supports+1 strut)	12181
	Mount and interconnection kit for 5 KPS1 collectors *(for 10 anchors or 5 supports+1 strut)	12182
	Extension kit for fixing and interconnecting 1 KPS1 solar collector *(for 4 anchors or 2 supports+1 strut)	12183
KPS11 flat plate solar collector - harp type absorber, 7 year warranty		Code
	KPS11 Solar collector collector area 2.52 sqm, output 1802 W at 1000 W/m² 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	16278
	Mount kits for fixing and connecting KPS11 solar collectors	Code
	Connection kit for KPS, KPG1 collector array (G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath)	7710
	Mount kit for 1 KPS11 solar collector *(for 4 anchors or 2 supports+1 strut)	12184
	Mount and interconnection kit for 2 KPS11 collectors *(for 6 anchors or 3 supports+1 strut)	12185
	Mount and interconnection kit for 3 KPS11 collectors *(for 8 anchors or 4 supports+1 strut)	12186
	Mount and interconnection kit for 4 KPS11 collectors *(for 10 anchors or 5 supports+1 strut)	12187
	Extension kit for fixing and interconnecting 1 KPS11 Solar Collector *(for 4 anchors or 2 supports+1 strut)	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
  	KPG1 Solar collector collector area 2.52 sqm, 1866 W output at 1000 W/m² irradiance, 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	10336
	Mount kits for fixing and connecting KPG1 solar collectors	Code
	Connection kit for KPS, KPG1 collector array (G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath)	7710
	Mount kit for 1 KPG1 solar collector *(for 4 anchors or 2 supports+1 strut)	10538
	Mount and interconnection kit for 2 KPG1 collectors *(for 6 anchors or 3 supports+1 strut)	10539
	Mount and interconnection kit for 3 KPG1 collectors *(for 8 anchors or 4 supports+1 strut)	10540
	Mount and interconnection kit for 4 KPG1 collectors *(for 10 anchors or 5 supports+1 strut)	10541
	Mount and interconnection kit for 5 KPG1 collectors *(for 12 anchors or 6 supports+1 strut)	14067
	Extension kit for fixing and interconnecting 1 KPG1 Solar Collector *(for 4 anchors or 2 supports+1 strut)	11986
	Mount kits for fixing and connecting KPG1 solar collectors - horizontally	Code
	Connection kit for landscape KPG1 collector array (G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath)	14134
	Mount kit for landscape installation of 1 KPG1 solar collector *(for 4 anchors or 2 supports+1 strut)	10700
Landscape KPG1H flat plate solar collectors, double harp type absorber		Code
 	KPG1H Solar collector collector area 2.52 sqm, 1866 W output at 1000 W/m² irradiance, 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	11427
	Mount kits for fixing and connecting landscape KPG1H solar collectors	Code
	Connection kit for KPG1H collector array (G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath)	14618
	Mount kit for installation of 1 KPG1H solar collector *(for 4 anchors or 2 supports+1 strut)	10700
	Mount and interconn. kit for installation of 2 KPG1H *(for 6 anchors or 3 supports+1 strut)	14517
	Extension kit for installation and connection of 1 KPG1H solar coll. *(for 4 anchors or 2 supports+1 strut)	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.

Solar collector support brackets for flat roofs			Code
	Triangle support bracket 15°		11979
	Triangle support bracket 25°		10975
	Triangle support bracket 45°		6859
	Strut incl. screws for triangle support brackets - flat roof		9563
Solar collectors support brackets, flat roof, for landscape KPG1 and KPG1H collectors			Code
	Triangle support bracket 25°		10907
	Triangle support bracket 45°		10921
	Strut incl. screws for triangle support brackets, flat roof, for landscape KPG1 and KPG1H		10908
Wall support brackets for collectors			Code
	Wall support bracket for KPG1H, 75° tilt angle – solar awning		14792
	Wall support bracket for KPG1H, 65° tilt angle – solar awning		14793
	Wall support bracket for KPG1H, 45° tilt angle – solar awning		14794
Anchors for inclined roofs			Code
	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
Triangle support brackets for inclination adjustment, for inclined roofs			Code
	15° Triangle support bracket		10748
	25° Triangle support bracket		8805
	45° Triangle support bracket		10094
	60° Triangle support bracket	x	9631
Triangle support brackets for inclination adjustment, for horizontal KPG1 and KPG1H, for inclined roofs			Code
	Triangle support bracket 15° for KPG1 and KPG1H landscape installation		11070
	Triangle support bracket 25° for KPG1 and KPG1H landscape installation		11071
	Triangle support bracket 45° for KPG1 and KPG1H landscape installation		11072
Mounting rails			Code
	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
	3/8" Plug with gasket	7956
	1/2" Plug with gasket	7634
	3/4" Plug with gasket	7954
	Gasket for solar systems - 17x24x1.5 - 3/8" for 3/8" Plug	7794
	Gasket for solar systems - 21x27x1.5 - 1/2" for 1/2" Plug	7795
	Gasket for solar systems - 27x34x1.5 - 3/4" for 3/4" Plug	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
	SPVS 3/4" Horizontal brass air separator, connection 2x 3/4"M, 3/8"F connection to air vent	11591
	Vertical air separator with 3/4" M/F vertical air vent, manually operated	11224
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
	12 l Expansion Vessel, 8 bar, 3/4" M	13720
	18 l Expansion Vessel, 8 bar, 3/4" M	13721
	25 l Expansion Vessel, 8 bar, 3/4" M	13722
	40 l Expansion Vessel, 8 bar, 3/4" M	13723
	50 l Expansion Vessel, 10 bar, 3/4" M, legs, replaceable membrane	13724
	80 l Expansion Vessel, 10 bar, 3/4" M, legs, replaceable membrane	13725
	100 l Expansion Vessel, 10 bar, 1" M, legs, replaceable membrane	13726
	150 l Expansion Vessel, 10 bar, 6/4" M, legs, replaceable membrane	13727
	200 l Expansion Vessel, 10 bar, 6/4" M, legs, replaceable membrane	13728
	300 l Expansion Vessel, 10 bar, 6/4" M, legs, replaceable membrane	13729
	500 l Expansion Vessel, 8 bar, 6/4" M, legs, replaceable membrane	x 13730
Service valves for expansion vessels		Code
	3/4" Service Valve for expansion vessels connection and easy servicing	8770
	1" Service Valve for expansion vessel connection and easy servicing	12295
	6/4" Service Valve for expansion vessel connection and easy servicing	14492
	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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Antifreeze fluid for Regulus solar collectors		
 	» SOLARTEN SUPER - fluid based on monopropylene glycol with a low freezing point and anti-corrosion properties, for solar thermal systems. 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.	Code
	Solarten Super, 5 l container	10109
	Solarten Super, 10 l container	10110
	Solarten Super, 25 l container	10069
	Solarten Super, 60 l container	10111
	Solarten Super, 200 l container x	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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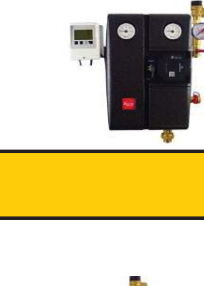
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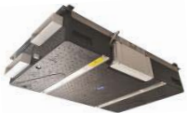
Filling valve assembly for solar systems		Code
	Filling valves with 2x Cu 28 mm connections	11643
	Filling valves with 2x 1" F connections	11644
Balancing valves for solar thermal systems		Code
	AV23 balancing valve with indication 2-12 l/min, 3/4" F, 185 °C	7982
	AV23 balancing valve with indication 10-40 l/min, 1" F, 185 °C	8232
	AV23 balancing valve with indication 20-70 l/min, 5/4" F, 100 °C	8022
Controllers for Regulus solar thermal systems		Code
	STDC E - 3-sensor controller for solar thermal systems with 1 collector array and 1 solar consumer, with 230V and PWM/0-10V output for high-efficiency pumps, 2 Pt1000 sensors included	13164
	SRS1 T - 3-sensor controller for solar thermal systems of one collector array and one consumer, with a potential-free contact to switch a boiler or a heating element up to 3kW power input, with 230V and PWM/0-10V output and iPWM input (flow rate info), two Pt1000 sensors included	17570
	SRS2 TE – 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, with two 230V outputs and PWM/0-10V output for high-efficiency pumps, 3 Pt1000 sensors included	14388
	SRS3 E - 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, with two 230V outputs and PWM/0-10V output for high-efficiency pumps, 3 Pt1000 sensors included	13166
	SRS6 EP – 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, with a 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
Accessories to solar controllers		Code
	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
	KA 12 - Surge protector for Pt1000 temperature sensors	9530
	Flowmeter VFS 2-40 l/min., with integrated temperature sensor, DN 20	11052
	Flowmeter VFS 5-100 l/min., with integrated temperature sensor, DN 25	10966
	Flowmeter VFS 10-200 l/min., with integrated temperature sensor, 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

RegulusSOL Single-line Solar Pump Stations without controller			Code
	CSE1 SOL W P pump station with a Wilo PARA ST 25/7 iPWM2 pump (pump control by iPWM only (solar), cannot be switched ON/OFF), for PWM controlled controllers, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	19981
		8-28 l/min, G 1" M	19991
		2-12 l/min, Cu 22	20568
	CSE1 SOL G P pump station with a Grundfos UPM3 Hybrid 7m pump (pump control ON/OFF (Δp -c / Δp -v / I, II, III / AutoADAPT) or PWM-C (solar)) for controllers with PWM control or 230V switching, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	19987
		8-28 l/min, G 1"M	19984
	CSE SOL W P pump station with a Wilo PARA ST 25/7 iPWM2 pump (pump control by iPWM only (solar), cannot be switched ON/OFF), for PWM controlled controllers, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	17155
		8-28 l/min, G 1" M	17325
	CSE SOL G P pump station with a Grundfos UPM3 Hybrid 7m pump (pump control ON/OFF (Δp -c / Δp -v / I, II, III / AutoADAPT) or PWM-C (solar)) for controllers with PWM control or 230V switching, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	18958
8-28 l/min, G 1"M		18957	
RegulusSOL Twin-Line Solar Pump Stations without controller			Code
	CSE2 SOL W P pump station with a Wilo PARA ST 25/7 iPWM2 pump (pump control by iPWM only (solar), cannot be switched ON/OFF), for PWM controlled controllers, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	19985
		8-28 l/min, G 1" M	19988
		8-28 l/min, G 1" M	20549
	CSE2 SOL G P pump station with a Grundfos UPM3 Hybrid 7m pump (pump control ON/OFF (Δp -c / Δp -v / I, II, III / AutoADAPT) or PWM-C (solar)) for controllers with PWM control or 230V switching, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	19990
		8-28 l/min, G 1"M	19983
	S2 Solar 2 pump station with a Para MAXO 25/1-8 pump (pump control ON/OFF (Δp -c / Δp -v) or 0-10 V), for controllers with 0-10 V control or 230V switching, with a SSM error output and a flowrate indicator. Suitable for large solar thermal systems.	20-70 l/min, G 6/4" M	14868
RegulusSOL Single-line Solar Pump Stations with controller SRS1 T			Code
	CSE1 SOL W SRS1 T pump station with a Wilo PARA ST 25/7 iPWM2 pump, 2 sensors, electronic control and flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long.	G 3/4" M	20566
		G 1" M	20575
		Cu 22	20584
	CSE1 SOL G SRS1 T P pump station with a Grundfos UPM3 Hybrid 7m pump, 2 sensors, electronic flow rate control, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	20576
		8-28 l/min, G 1" M	20572
	CSE SOL W SRS1 T pump station with a Wilo PARA ST 25/7 iPWM2 pump, 2 sensors, electronic control and flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long.	G 3/4" M	17726
		G 1" M	17902
		Cu 18	18117
		Cu 22	17903
	CSE SOL G SRS1 T pump station with a Grundfos UPM3 Hybrid 7m pump, 2 sensors, electronic flow rate control, flowrate indicator. Power cord for 230 V socket, 3 m long.	Cu 28	17904
		2-12 l/min, G 3/4" M	18969
		8-28 l/min, G 1" M	18960

RegulusSOL Single-line Solar Pump Stations with controller SRS1 T with socket for el. heating element			
     	heating element switched by a heating controller		Code
	CSE1 SOL W SRS1 T-E pump station* with a Wilo PARA ST 25/7 iPWM2 pump, for an ETT-N el. heating element, 3 sensors, electronic control and flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long.	G 3/4" M	20574
		G 1" M	20570
		Cu 22	20578
	CSE SOL W SRS1 T-E pump station with a Wilo PARA ST 25/7 iPWM2 pump, for an ETT-N el. heating element, 3 sensors, electronic control and flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long.	G 3/4" M	16955
		G 1" M	17318
		Cu 18	18118
		Cu 22	16956
		Cu 28	17319
	CSE SOL G SRS1 T-E pump station with a Grundfos UPM3 Hybrid 7m pump, for an ETT-N el. heating element, 3 sensors, electronic flow rate control, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	18970
		8-28 l/min, G 1" M	18962
heating element switched by a heating controller and blocked by Ripple control			Code
  	CSE1 SOL W SRS1 T-E HDO pump station* with a Wilo PARA ST 25/7 iPWM2 pump, for an ETT-N el. heating element, 3 sensors, control and electronic flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long. Connection cable for wiring controlled by Ripple control.	G 3/4" M	20580
		G 1" M	20582
	CSE SOL W SRS1 T-E HDO pump station with a Wilo PARA ST 25/7 iPWM2 pump, for an ETT-N el. heating element, 3 sensors, control and electronic flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long. Connection cable for wiring controlled by Ripple control.	G 3/4" M	17350
		G 1" M	17349
		Cu 22	17351
		Cu 28	17352
	CSE SOL G SRS1 T-E HDO pump station with a Grundfos UPM3 Hybrid 7m pump, for an ETT-N el. heating element, 3 sensors, electronic flow rate control, flowrate indicator. Power cord for 230 V socket, 3 m long. Connection cable for wiring controlled by Ripple control.	2-12 l/min, G 3/4" M	18968
		8-28 l/min, G 1" M	18964
	Heating elements		Code
	2.0 kW heating element with thermostatic head, length incl. thread 350 mm, non-heating end 180 mm long, w. 5m cable with a dedicated connector to plug in CSE SOL W SRS1 T-E (HDO)		16942
 	3.0 kW heating element with thermostatic head, length incl. thread 450 mm, non-heating end 180 mm long, w. 5m cable with a dedicated connector to plug in CSE SOL W SRS1 T-E (HDO)		16943
	Connector for socket in CSE SOL W SRS1 T-E Pump Station		16940
RegulusSOL Single-line Solar Pump Stations with controller SRS1 T with socket for switching the auxiliary heat source			Code
  	CSE1 SOL W SRS1 T-K pump station* with a Wilo PARA ST 25/7 iPWM2 pump, for switching an aux. heat source via a potential-free contact, 3 sensors, electronic control and flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long and a 4m cable for heat source switching.	G 3/4" M	20571
		G 1" M	20567
	CSE SOL W SRS1 T-K pump station with a Wilo PARA ST 25/7 iPWM2 pump, for switching an aux. heat source via a potential-free contact, 3 sensors, electronic control and flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long and a 4m cable for heat source switching.	G 3/4" M	17899
		G 1" M	17898
		Cu 18	18119
		Cu 22	17900
		Cu 28	17901
	CSE SOL G SRS1 T-K pump station with a Grundfos UPM3 Hybrid 7m pump, for switching an aux. heat source via a potential-free contact, 3 sensors, electronic flow rate control, flowrate indicator. Power cord for 230 V socket, 3 m long and a 4m cable for heat source switching.	2-12 l/min, G 3/4" M	18971
		8-28 l/min, G 1" M	18966

RegulusSOL Twin-line Solar Pump Stations with controller SRS1 T			Code
	CSE2 SOL W SRS1 T pump station with a Wilo PARA ST 25/7 iPWM2 pump, 2 sensors, air separator, electronic control and flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long.	G 3/4" M	20564
		G 1" M	20579
		Cu 22	20573
	CSE2 SOL G SRS1 T P pump station with a Grundfos UPM3 Hybrid 7m pump, 2 sensors, air separator, electronic flow rate control, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	20581
		8-28 l/min, G 1" M	20577
RegulusSOL Twin-line Solar Pump Stations with controller SRS1 T with socket for el. heating element			
	heating element switched by a heating controller		Code
	CSE2 SOL W SRS1 T-E pump station with a Wilo PARA ST 25/7 iPWM2 pump, for an ETT-N el. heating element, 3 sensors, air separator, electronic control and flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long.	G 3/4" M	20557
		G 1" M	20558
Cu 22		20560	
	CSE2 SOL G SRS1 T-E P pump station with a Grundfos UPM3 Hybrid 7m pump, for an ETT-N el. heating element, 3 sensors, air separator, electronic flow rate control, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	20522
		8-28 l/min, G 1" M	20556
	heating element switched by a heating controller and blocked by Ripple control		Code
	CSE2 SOL W SRS1 T-E HDO pump station with a Wilo PARA ST 25/7 iPWM2 pump, for an ETT-N el. heating element, 3 sensors, air separator, control and electronic flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long. Connection cable for wiring controlled by Ripple control.	G 3/4" M	20526
		G 1" M	20551
Heating elements			Code
	2.0 kW heating element with thermostatic head, length incl. thread 350 mm, non-heating end 180 mm long, w. 5m cable with a dedicated connector to plug in CSE SOL W SRS1 T-E (HDO)		16942
	3.0 kW heating element with thermostatic head, length incl. thread 450 mm, non-heating end 180 mm long, w. 5m cable with a dedicated connector to plug in CSE SOL W SRS1 T-E (HDO)		16943
	Connector for socket in CSE SOL W SRS1 T-E Pump Station		16940
RegulusSOL Twin-line Solar Pump Stations with controller SRS1 T with socket for switching the auxiliary heat source			Code
	CSE2 SOL W SRS1 T-K pump station with a Wilo PARA ST 25/7 iPWM2 pump, for switching an aux. heat source via a potential-free contact, 3 sensors, electronic control and flow rate measurement 2-20 l/min. Power cord for 230 V socket, 3 m long and a 4m cable for heat source switching.	G 3/4" M	20569
		G 1" M	20583
RegulusSOL Twin-Line Solar Pump Stations with controller SRS3 E e.g. for two solar consumers or two collector arrays			Code
	CSE2 SOL W SRS3 E P pump station with a Wilo PARA ST 25/7 iPWM2 pump, 3 sensors, air separator, electronic flow rate control, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	20373
		8-28 l/min, G 1" M	20452
		2-12 l/min, Cu 22	20457
	CSE2 SOL G SRS3 E P pump station with a Grundfos UPM3 Hybrid 7m pump, 3 sensors, air separator, electronic flow rate control, flowrate indicator. Power cord for 230 V socket, 3 m long.	2-12 l/min, G 3/4" M	20372
		8-28 l/min, G 1" M	20453

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, incl. 4 nuts with lock rings and rim nipple	9916	
	Twinway DN 16 stainless-steel tube, 15 m, incl. 4 nuts with lock rings and rim nipple	9619	
	Twinway DN 16 stainless-steel tube, 50 m	10564	
	Twinway DN 20 stainless-steel tube, 10 m, incl. 4 nuts with lock rings and rim nipple	9917	
	Twinway DN 20 stainless-steel tube, 15 m, incl. 4 nuts with lock rings and rim nipple	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, incl. 4 nuts with lock rings and rim nipple	12899	
	DN 16 stainless-steel pipe, 20 m, incl. 4 nuts with lock rings and rim nipple	12900	
	DN 16 stainless-steel pipe, 30 m, incl. 4 nuts with lock rings and rim nipple	12901	
	DN 16 stainless-steel pipe, 50 m	12902	
	DN 20 stainless-steel pipe, 10 m, incl. 4 nuts with lock rings and rim nipple	12903	
	DN 20 stainless-steel pipe, 20 m, incl. 4 nuts with lock rings and rim nipple	12904	
	DN 20 stainless-steel pipe, 30 m, incl. 4 nuts with lock rings and rim nipple	12905	
	DN 20 stainless-steel pipe, 50 m	12906	
	insulation thickness of 19 mm	Code	
	DN 16 stainless-steel pipe, 10 m, incl. 4 nuts with lock rings and rim nipple	12911	
	DN 16 stainless-steel pipe, 20 m, incl. 4 nuts with lock rings and rim nipple	12912	
	DN 16 stainless-steel pipe, 30 m, incl. 4 nuts with lock rings and rim nipple	12913	
	DN 16 stainless-steel pipe, 50 m	12914	
	DN 20 stainless-steel pipe, 10 m, incl. 4 nuts with lock rings and rim nipple	12915	
	DN 20 stainless-steel pipe, 20 m, incl. 4 nuts with lock rings and rim nipple	12916	
	DN 20 stainless-steel pipe, 30 m, incl. 4 nuts with lock rings and rim nipple	12917	
	DN 20 stainless-steel pipe, 50 m	12918	
Flexible stainless steel tubes, uninsulated, for solar appl.		Code	
	Stainless-steel pipe, DN 20 - sold by the meter	14709	
	Stainless-steel pipe, DN 20 - 5m	16389	
	Stainless-steel pipe, DN 20 - 10 m	16390	
	Stainless-steel pipe, DN 20 - 15 m	16391	
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
	3/4" nut	DN 16	10708
	1" nut	DN 20	10707
	Rim nipple 3/4" M (male/male)	DN 16	6970
	Rim nipple 1" M (male/male)	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

Central Heat Recovery Ventilation Units - vertical		Code
	Sentinel Kinetic B - Central HRV unit, incl. integrated control unit and summer by-pass, 125 mm spigot diam., max. ventilation capacity 275 m ³ /h,	10176
	Sentinel Kinetic B Plus - Central HRV unit, incl. integrated control unit, humidistat and summer by-pass, 150 mm spigot diam., max. ventilation capacity 490 m ³ /h	10335
	Sentinel Econiq S - Central HRV unit, incl. integrated control unit w. touchscreen control, humidity sensor and summer by-pass, 125 mm spigot diam., max. ventilation capacity 414 m ³ /h	21225
	Sentinel Econiq Se - Central HRV unit w. enthalpic heat exchanger, incl. integrated control unit w. touchscreen control, humidity sensor and summer by-pass, 125 mm spigot diam., max. ventilation capacity 414 m ³ /h	21224
Central Heat Recovery Ventilation Units - horizontal		Code
	HR100R - Central HRV unit for apartments, installation on a base (access from above), 160 mm unit height, 98 mm spigot diam., max. ventilation capacity 66 m ³ /h	7483
	HR100RS - Central HRV unit for apartments, under ceiling design, 160 mm unit height, 98 mm spigot diam., max. ventilation capacity 66 m ³ /h	10308
	Sentinel Kinetic Horizontal 200ZPH - Central HRV unit for apartments, incl. room unit, integrated humidity sensor, summer by-pass, under-ceiling design, 200 mm unit height, rectangular spigots (204 x 60 mm), max. ventilation capacity 168 m ³ /h	16709

x - upon order

Local Heat Recovery Ventilation Units		Code
	HR30W - for wall thickness up to 280 mm Single-room HRV unit, max. ventilation capacity: intake 40 m ³ /h, exhaust 50 m ³ /h	6954
	HR100W - for wall thickness up to 280 mm Single-room HRV unit, max. ventilation capacity: intake 69 m ³ /h, exhaust 77 m ³ /h	6955
	EXT 100 - for walls 280-500 mm thick Extension for HR30W and HR100W HRV units	6956
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 ₂ sensor for Sentinel Kinetic	11852
	Docking station for Econiq unit control module, incl. 15 m cable	20192
	Connection Module - Sentinel Kinetic B B Plus, Horizontal to IR via CIB - 2-wire connection	17786
	Connection Module - Sentinel Kinetic 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 at <https://www.regulus.eu/price-enquiry>.

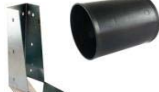
Air duct heaters and exchangers		Code
   	Electric air duct heater, 0.4 kW, DN 125 incl. adjust. and high limit thermostats, 3 m cable	14059
	Electric air duct heater, 0.6 kW, DN 150 incl. adjust. and high limit thermostats, 3 m cable	14796
	HDW 150 air duct heater spigot diam. 150 mm., max. airflow rate 400 m ³ /h 2.8 kW output (at 300 m ³ /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 ³ /h, 1.6 kW cooling output (at 300 m ³ /h airflow, incoming water temperature of 7°C and incoming air temperature of 28°C), 2 kW heating output (at 300 m ³ /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

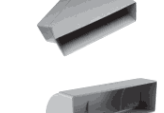
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Round hoses		Diam.	Code
  	Single-layer flexible hose in Al, 5 m	100 mm	7743
		125 mm	7589
		150 mm	7886
	Thermally insulated flexible hose in Al, 10 m	102 mm	8000
		127 mm	7887
		152 mm	7888
		203 mm	8037
	Saniflex anti-bacterial flexible plastic hose, thermally insulated, 10 m	127 mm	16068
	Shaped pieces		Diam.
  	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
	T-piece	100/100 mm	7769
		125/100 mm	7721
		125/125 mm	7889
		150/100 mm	7890
		150/125 mm	7908
150/150 mm	7891		
Components		Diam.	Code
  	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
Accessories			Code
  	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
	1 pcs	9210	
	50 pcs	17061	

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 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
		150 mm	18166
	45° Plastic elbow	100 mm	18167
		150 mm	18168
	Plastic T-piece	100 mm	18161
		125 mm	18162
		150 mm	18163
	Plastic coupler	100 mm	18169
		125 mm	18170
		150 mm	18171
	Plastic duct reducer	100 mm	18172
		150 mm	18173
Flexible Highly Resistant Air Duct in HDPE			Code
     	Flexible Air Duct in HDPE, antibacterial, diam. 75, 50 m		15731
	Flexible Air Duct in HDPE, antibacterial, diam. 75, 10 m		16164
	Plastic Air Distribution Box, 2x75/125		18773
	Plastic Air Distribution Box, angled, 2x75/125, pipe length 0,25 m		18770
	Plastic Air Distribution Box, angled (2+2+2+2)x75/125		18772
	Plastic Air Distribution Box, angled (4+2+4+2)x75/125		18771

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Accessories to Air Duct in HDPE		Code
	Air Distribution Box, angled, 3x75/125	15733
	Air Distribution Box, angled, (1+3+1)x75/125	16536
	Air Distribution Box, angled, (2+4+2)x75/125	16537
	Air Distribution Box, angled, (2+4+2)x75/150	16538
	Air Distribution Box (1+3+1)x75/60x200	16540
	Air Distribution Box (2+4+2)x75/60x200	16539
	125 mm	16542
	150 mm	16706
	Butterfly damper diam. 75	16730
	Bend, 90°	15739
	Duct Reducer, 100/75	15740
	Duct Reducer, 125/75	15741
	Duct Reducer, angled, 125/75	16541
	Plastic Ceiling Outlet, 125/75	16173
	PE Hose (75 mm) Cutter	20248
	Flexible Air Duct Coupler	15742
	Support for Air Duct	15752
	Heat Shrink Sleeve for air ducts	15749
	Seal between an air duct and distribution box	15748
	Seal between an air duct and coupler	15747
	DUCT Adhesive Tape, PE - 50 mm x 50 m x 0.15 mm, up to 60°C	16654
	TALE Adhesive tape, AL - 50 mm x 50 m x 0.3 mm, up to 120°C	16655
	Air Distribution Box Plug	15751
	Air Duct Plug	15750

Square plastic air ducts			Code
	Square plastic air duct 60x200 mm, 1.5 m	grey	19247
	Square plastic coupling 60x200 mm	grey	20186
	Elbow plastic adapter, square to round, 60x200/100 mm	grey	20285
	Elbow plastic adapter, square to round, 60x200/125 mm	grey	20239
	Square to round plastic adapter, 60x200/100 mm	grey	20290
	Square to round plastic adapter, 60x200/125 mm	grey	20291
	90° horizontal plastic elbow 60x200 mm	grey	20240
	45° horizontal plastic elbow, with divisible segments, 60x200 mm	white	9744
	45° horizontal plastic elbow, no divisible segments, 60x200mm	grey	20287
	90° vertical plastic elbow 60x200 mm	grey	20188
	45° vertical plastic elbow 60x200 mm	grey	20288
	T-piece plastic 60x200 mm	grey	20187
	Drop down section plastic	grey	20289
	Horizontal ventilation plastic grille, 60x200 mm, enlarged cover frame		11754
	Plastic ventilation grille, horizontal, 60x200 mm, frame into a coupling		18578
	Vertical ventilation plastic grille, 60x200 mm		18159
	Air duct bracket, 60x200 mm		14255

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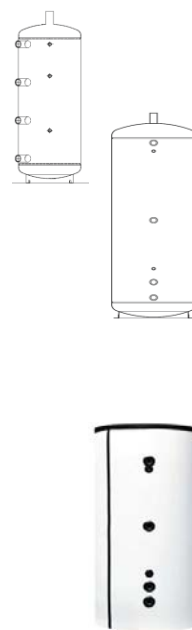
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Plastic air disc valves, for air intake and discharge		Diam.	Code
	Air duct inlet / outlet disc valve	100 mm	7901
		125 mm	7902
	G2 Filter set for disc valves 7901, 7902	100 mm	18619
		125 mm	18620
	Designer air disc valve, small	125 mm	18766
	Designer 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

Wall-hung Thermal Stores for heating/cooling, PS Z series, 4 connections G 1", one connection G 6/4" for el. heating element		Code	
	PS 80 Z, 450 mm diam., 865 mm high, 77 l, en. eff. class C*, wall-hung, for heating, insulation	18754	
	PS 80 ZC, 450 mm diam., 865 mm high, 77 l, en. eff. class C*, wall-hung, for heating/cooling, insulation	18932	
Thermal Stores for heating/cooling, PS IZ series, 5 connections G 6/4", one top connection G 5/4"		Code	
	PS 100 IZ, 560 mm diam., 795 mm high, 99 l, en. eff. class A*, for heating/cooling, insulation	19769	
	PS 200 IZ, 560 mm diam., 1480 mm high, 204 l, en. eff. class B*, for heating/cooling, insulation	19770	
PS ES+ Thermal Stores, 4 G 6/4" connections		Code	
	PS 600 ES+, 650/850 mm diam., 1935 mm high, 560 l	15527	
	PS 900 ES+, 790/990 mm diam., 1975 mm high, 860 l	15530	
	PS 1100 ES+, 850/1050 mm diam., 2080 mm high, 1037 l	15956	
	Insulation Sets for PS ES+ (incl. top and bottom insulation)		Code
	SE insulation for PS 600 ES+ thermal store	19310	
	SE insulation for PS 900 ES+ thermal store	19301	
	SE insulation for PS 1100 ES+ thermal store	19315	
PS E+ Thermal Stores, 5 G 6/4" connections		Code	
	PS 200 E, 450/650 mm diam., 1351 mm high, 181 l, en. eff. class C*	21359	
	PS 300 E, 550/750 mm diam., 1405 mm high, 280 l, en. eff. class C*	21428	
	PS 500 E+, 600/800 mm diam., 1915 mm high, 473 l, en. eff. class C*	14754	
	PS 750 E+, 750/950 mm diam., 1975 mm high, 756 l	15212	
	PS 1000 E+, 800/1000 mm diam., 2080 mm high, 927 l	15851	
	PS 1100 E+, 850/1050 mm diam., 2080 mm high, 1038 l	15215	
	PS 1250 E+, 950/1150 mm diam., 2065 mm high, 1260 l	15992	
	Insulation Sets for PS E+ (incl. top and bottom insulation)		Code
	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 750 E+ thermal store	19309	
	SE insulation for PS 1000 E+ thermal store	19313	
	SE insulation for PS 1100 E+ thermal store	19335	
	SE insulation for PS 1250 E+ thermal store	19324	
PS K+ Thermal Stores (reduced height), 9 G 6/4" connections		Code	
	PS 400 K+, 600/800 mm diam., 1665 mm high, 403 l, en. eff. class C*	15285	
	PS 500 K+, 650/850 mm diam., 1685 mm high, 477 l, en. eff. class C*	15288	
	PS 600 K+, 700/900 mm diam., 1705 mm high, 560 l	15291	
	PS 700 K+, 790/990 mm diam., 1725 mm high, 737 l	15294	
	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	
	Insulation Sets for PS K+ (incl. top and bottom insulation)		Code
	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 700 K+ thermal store	19300	
	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. * energy efficiency class of tank with insulation

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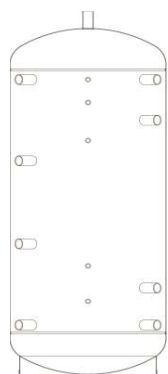
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PS N+ Thermal Stores, 9 G 6/4" connections

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+, 800/1000 mm diam., 1845 mm high, 804 l	15141
PS 900 N+, 790/990 mm diam., 1975 mm high, 860 l	15144
PS 1000 N+, 800/1000 mm diam., 2080 mm high, 927 l	15147
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

Insulation Sets for PS N+ (incl. top and bottom insulation)

Code



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	19297
SE insulation for PS 900 N+ thermal store	19298
SE insulation for PS 1000 N+ thermal store	19049
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, 800/1000 mm diam., 2080 mm high, 929 l	19376
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

Insulation Sets for PS N25 (incl. top and bottom insulation)

Code

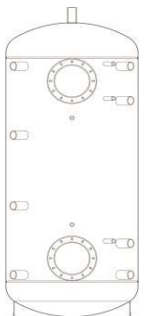
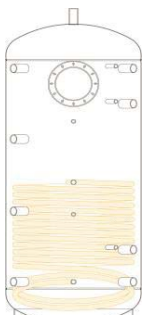


SE insulation for PS 500 N25 thermal store	19274
SE insulation for PS 1000 N25 thermal store	19378
SE insulation for PS 1500 N25 thermal store	19381
SE insulation for PS 2000 N25 thermal store	19372
SE insulation for PS 3000 N25 thermal store	x 19345
SE insulation for PS 4000 N25 thermal store	x 19352
SE insulation for PS 5000 N25 thermal store	x 19358

Tank diameter is without/with soft insulation.

* energy efficiency class of tank with insulation

x - upon order

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
	Insulation Sets for PS2F N+ (incl. top and bottom insulation)	Code
	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
Thermal Stores with heat exchanger and flanged opening (no flange), 9 G 6/4" connections		Code
	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 G 2,5"	20565
	Insulation Sets for PSWF N+ (incl. top and bottom insulation)	Code
	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.

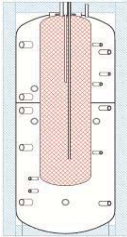
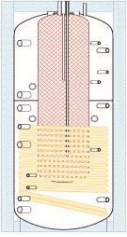
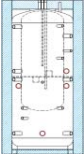
* energy efficiency class of tank with insulation

x - upon order

Prices of PS2F Thermal stores do not include flanges. For flanges, see next page.

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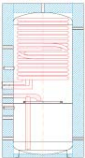
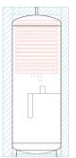
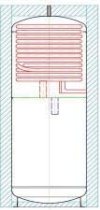
Flanges for thermal stores		Code
	Blind flange - d=312, no holes	6230
	Flange for finned copper heat exchanger (code 6150 to 6154) - d=312, 2xd=30-70	6231
	Flange for finned copper heat exchanger (code 6155 to 6157) - d=312, 2xd=39-90	6232
Finned copper tube heat exchangers, flange mount		Code
	Tube 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
	Single sheath, 7x9x45 mm, 1/2", brass	14879
	Single sheath, 7x9x60 mm, 1/2", brass	15746
	Single sheath, 7x9x100 mm, 1/2", brass	14880
	Single sheath, 7x9x120 mm, 1/2", brass	15745
	Single sheath, 7x9x160 mm, 1/2", brass	16590
	Single sheath, 7x9x180 mm, 1/2", brass	16591
	Single sheath, 7x9 x 200 mm, 1/2", brass	14881
	Sheath for 3 sensors, 15x17x100 mm, 1/2", brass	15744
	Sheath for 3 sensors, 15x17x130 mm, 1/2", brass	16592
	Sheath for 3 sensors, 15x17x230 mm, 1/2", brass	15743
	Sheath for 4 sensors, 15x17x120 mm, 1/2", brass	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	10845
	Capillary spring, small, 1/2", stainless steel, 100 pcs	13563
	Capillary spring, big, 3/4", stainless steel	13557
	Capillary spring, big, 3/4", stainless steel, 100 pcs	13565

DUO N P Thermal Stores with immersed stainless-steel DHW tank and separating metal sheet		Code
 	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
	Insulation sets for DUO N P (incl. top and bottom insulation)	Code
	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
DUO N PR Thermal Stores with immersed stainless-steel DHW tank, separating metal sheet and heat exchanger (intended for use with solar thermal systems)		Code
 	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
	Insulation sets for DUO N PR (incl. top and bottom insulation)	Code
	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
FINAL SALE - DUO Thermal Store with enamelled DHW tank		Code
	DUO 750/160 K P diam. 790/990 mm, 1727 mm high, 710 l	16828
	SE insulation for DUO 750/160 K P thermal store	19353

Tank diameter is without/with insulation.

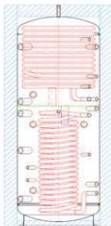
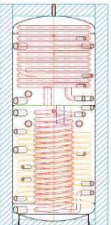
* energy efficiency class of tank with insulation

x - upon order

HSK TV Hot water storage tank with stainless-steel tube DHW heat exchanger		Code
 	HSK 220 TV - diam. 550/710 mm, 1105 mm high, 222 l, 6 sqm DHW heat exchanger, energy effic. B*	19617
	Insulation Set for HSK TV (incl. top and bottom insulation)	Code
	SE insulation for HSK 220 TV tank	19619
HSK PB Thermal Store, reduced height, stainless-steel DHW heat exchanger, for installation with one 3-way valve (suitable for RegulusBOX)		Code
 	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
	Insulation Set for HSK PB (incl. top and bottom insulation)	Code
	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
HSK P+ Thermal Store with stainless-steel tube DHW heat exchanger and separating metal sheet (left or right connection of heat pump, different arrangement of		Code
 	HSK 400 P+ diam. 550/750 mm, 1905 mm high, 408 l, 6 sqm DHW heat exchanger, energy effic. class C*	21208
	Insulation Set for HSK P+ (incl. top and bottom insulation)	Code
	SE insulation for HSK 400 P+	19609
HSK PR+ Thermal Store with stainless-steel tube DHW heat exchanger, separ. metal sheet and solar heat exchanger (left or right conn. of heat pump, diff. arrangement of		Code
 	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 C*	21210
	Insulation Set for HSK PR+ (incl. top and bottom insulation)	Code
	SE insulation for HSK 400 PR+	19612
HSK P Thermal Store with stainless-steel tube DHW heat exchanger and separating metal sheet		Code
 	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
	Insulation Sets for HSK P (incl. top and bottom insulation)	Code
	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.

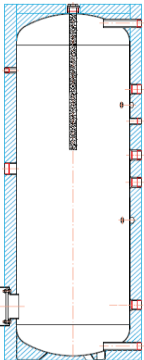
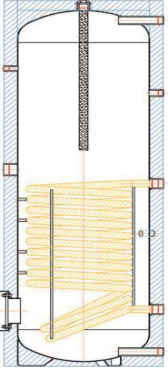
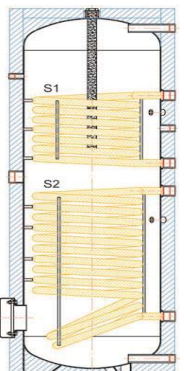
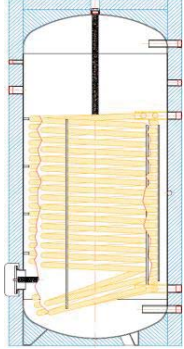
* energy efficiency class of tank with insulation

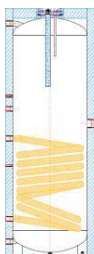
HSK PV Thermal Store with 2 stainless-steel tube DHW heat exchangers and separating metal sheet		Code	
 	HSK 600 PV diam. 650/850 mm, 1935 mm high, 557 l, 6+3 sqm DHW heat exchangers	21196	
	HSK 750 PV diam. 750/950 mm, 1975 mm high, 760 l, 6+3 sqm DHW heat exchangers	21190	
	HSK 1000 PV diam. 800/1000 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	
	Insulation Sets for HSK PV (incl. top and bottom insulation)		Code
	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	
HSK PR Thermal Store with stainless-steel DHW tube heat exchanger(s), separating metal sheet and solar HE (suitable for solar thermal systems)		Code	
 	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	
	Insulation Sets for HSK PR (incl. top and bottom insulation)		Code
	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	
Accessories to DUO and HSK thermal store		Code	
   	Electronic anode rod for DUO 390/130 - 1700/200	13793	
	Accessory Kit for DUO/HSK P (thermometer, pressure gauge, safety valve, air vent valve, sheath)	17568	
	Accessory Kit for DUO/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	
	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	
	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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R0BC hot water storage tanks, incl. insulation		Code
	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
RBC hot water storage tanks with 1 heat exchanger, incl. insulation		Code
	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
R2BC hot water storage tanks with 2 heat exchangers, incl. insulation		Code
	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
RBC HP hot water storage tanks, upsized heat exchanger, incl. insul.		Code
	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	

HSK TV Hot water storage tank with stainless-steel tube DHW heat exchanger		Code
	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
NBC hot water storage tanks with 1 upsized heat exchanger, incl. insulation		Code
	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
RGC Hot Water Storage Tanks with 1 heat exchanger, incl. insulation		Code
	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
RDC hot water storage tanks with 1 heat exchanger, incl. insulation		Code
	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
R2DC hot water storage tanks with 2 heat exchangers, incl. insulation		Code
	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
Safety Kits for hot water storage tanks		Code
	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 RxDC, DUO hot wat. st. tanks	17525
	Connection Kit – PTR valve x R0BC 200-750 hot water storage tanks	17524
	Connection Kit – PTR valve x RBC 200-400 (HP), R2BC 200-400 hot water storage tanks	17526
	Connection Kit – PTR valve x RBC 500-1000 (HP), R2BC 500-1000 hot water storage tanks	17528
	Connection Kit – PTR valve x R0BC 1000, RxBC 1500-3000 (HP) hot water storage tanks	17529

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

Electronic anode rods		
	Kits for Regulus Hot Water Storage Tanks	Code
	Electronic anode rod for DUO 390/130 - 1700/200, NBC 170 HP	13793
	Electronic anode rod for RGC 120, RGC 170 hot water storage tanks	9176
	Electronic anode rod for RxDC 160, RxGC 300 K, RBC 200 hot water storage tanks	9173
	Electronic anode rod for RxDC 200-250, R0BC 200-500, RBC 300, R2BC 200-300 hot water st. tanks	9174
	Electronic anode rod for RBC 200-300 HP hot water storage tanks	17375
	Electronic anode rod for R0BC 750-1000 hot water storage tanks	17372
	Electronic anode rod for RxDC 300 hot water storage tanks, set of two	17378
	Electronic anode rod for RBC 400-500, R2BC 400-500 hot water storage tanks, set of two	17368
	Electronic anode rod for RBC 400-500 HP hot water storage tanks, set of two	17376
	Electronic anode rod for RBC 750-1000, R2BC 750-1000 hot water storage tanks, set of two	17369
	Electronic anode rod for RBC 750-1500 HP hot water storage tanks, set of two	17377
	Electronic anode rod for RxBC 1500-2500, R0BC 3000 hot water storage tanks, set of two	14429
	Electronic anode rod for RBC 3000, R2BC 3000 hot water storage tanks, set of three	17371
	Universal Kits	Code
	Electronic anode rod - length in total/active - 350/150 mm, 1/2" thread, incl. electronics	9169
	Electronic anode rod - length in total/active - 450/250 mm, 1/2" thread, incl. electronics	4052
	Electronic anode rod - length in total/active - 500/150 mm, 1/2" thread, incl. electronics	9170
	Electronic anode rod - length in total/active - 600/250 mm, 1/2" thread, incl. electronics	3836
	Electronic anode rod - length in total/active - 750/200 mm, 1/2" thread, incl. electronics	3837
	Electronic anode rod - length in total/active - 800/250 mm, 1/2" thread, incl. electronics	17475
Other accessories to hot water storage tanks		Code
	Flange for RxDC 300 hot water storage tank, G 6/4" to install second el. heating element, diam. 172 mm, holes pitch 150 mm (8x ø14)	12707
	Flange for RxBC 200-300 hot water storage tank, G 6/4" to install second el. heating element, diam. 170 mm, holes pitch 146 mm (8x ø14)	17199
	Flange for another el. heating element, incl. el. anode rod kit, G 6/4" + G 1/2", for RxBC 400-500, RBC 300 HP 3.2V hot water storage tanks	17432
	Flange for another el. heating element, incl. el. anode rod kit, G 6/4" + G 1/2", for RBC 200-500 HP hot water storage tanks	17434
	Flange for another el. heating element, incl. el. anode rod kit, G 6/4" + G 1/2", for RBC 750-1000 HP, R0BC 750-1000 hot water storage tanks	17428
	Flange for another el. heating element, incl. el. anode rod kit, G 6/4" + G 1/2", for RBC 750-1000, R2BC 750-1000 hot water storage tanks	17433
	Flange for another el. heating element, incl. el. anode rod kit, G 6/4" + G 1/2", for RBC 1500 HP, RxBC 1500-2500, R0BC 3000 hot water storage tanks	17435
	Flange for another el. heating element, incl. el. anode rod kit, G 6/4" + G 1/2", for RBC 3000, R2BC 3000 hot water storage tanks	17436
	Flange for RxDC 300 hot water storage tank, 2 holes diam. 30 mm, 55 mm center-to-center distance, diam. 172 mm, holes pitch 150 mm (8x ø14)	12706
	Flange for RxBC hot water storage tank up to 300 l, 2 holes diam. 30 mm, 55 mm center-to-center distance, diam. 170 mm, holes pitch 146 mm (8x ø14)	8375
	Tube heat exchanger 0.94 sqm, 3/4", for RxBC and RxDC 300, Ø 110, l=400, pipe dist. 55 mm	8377

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

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		
	DV193-20E	4xG3/4"M	6 sqm	16 kW	26 kW	9548
	DV193-30E	4xG3/4"M	10 sqm	24 kW	38 kW	9549
	DV193-45E	4xG3/4"M	16 sqm	35 kW	58 kW	9550
	DV193-60E	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		
	DV285-10E	4xG1"M	4 sqm	14 kW	22 kW	9552
	DV285-20E	4xG1"M	10 sqm	30 kW	46 kW	9553
	DV285-30E	4xG1"M	15 sqm	45 kW	71 kW	9554
	DV285-45E	4xG1"M	23 sqm	68 kW	109 kW	9555
DV285-60E	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.

Nickel-plated G 6/4" electric heating elements with plastic thermostatic head, 180 mm non-heating end		
	ETT-M <i>» for power outlet, adjustable thermostat and two-pole temperature limiter, 0-90 °C knob adjustable, 3m 3-wire power cable with plug, suitable for heating/drinking water - Hot Water Heaters, Thermal Stores and DUO, HSK combi thermal stores</i>	Code
	1.2 kW heating element 1x230 V with thermostatic head, length incl. thread 300 mm	15166
	2.0 kW heating element 1x230 V with thermostatic head, length incl. thread 350 mm	15167
	2.4 kW heating element 1x230 V with thermostatic head, length incl. thread 420 mm	15168
	3.0 kW heating element 1x230 V with thermostatic head, length incl. thread 450 mm	15169
Nickel-plated G 6/4" el. heating elements with plastic thermostatic head, 180 mm non-heating end, with a dedicated connector to plug in CSE SOL pump stations		
	ETT-N <i>» to be connected to a CSE SOL solar pump station, with a switch and a two-pole temperature limiter, 5m 3-wire power cable with connector, suitable for heating/drinking water - Hot Water Heaters, Thermal Stores and DUO, HSK combi thermal stores</i>	Code
	2.0 kW heating element 1x230 V with thermostatic head, length incl. thread 350 mm	16942
	3.0 kW heating element 1x230 V with thermostatic head, length incl. thread 450 mm	16943
Nickel-plated G 6/4" electric heating elements with metal thermostatic head, 100 mm non-heating end		
	ETT-D2 <i>» connection to a terminal box, adjustable and a high-limit thermostats and a contactor, inputs for control by controller and Ripple control, knob adjustable 0-90°C, 5-core power supply cable 2 m long, suitable for heating/drinking water - hot water tanks and thermal stores</i>	Code
	2 kW heating element 1x230 V with thermostatic head, length incl. thread 315 mm,	19703
	3 kW heating element 1x230 V with thermostatic head, length incl. thread 370 mm	19710

Nickel-plated G 6/4" M Electric Heating Elements with thermostatic head, star connection, 100 mm non-heating end, no cable		
ETT-R 	» with adjustable and a high-limit thermostats, knob adjustable 25-85°C, suitable for heating/drinking water - hot water tanks and thermal stores, suitable also for use with PV systems	Code
	2 kW heating element 3x230 V with thermostatic head, length incl. thread 295 mm	19695
	3 kW heating element 3x230 V with thermostatic head, length incl. thread 295 mm	19699
	4.5 kW heating element 3x230 V with thermostatic head, length incl. thread 360 mm	19691
	6 kW heating element 3x230 V with thermostatic head, length incl. thread 485 mm	19277
	9 kW heating element 3x230 V with thermostatic head, length incl. thread 670 mm	19693
	12 kW heating element 3x230 V with thermostatic head, length incl. thread 805 mm	20168
Nickel-plated G 6/4" M Electric Heating Elements with thermostatic head, triangle connection, 100 mm non-heating end, no cable		
ETT-S 	» with adjustable and a high-limit thermostats, knob adjustable 25-85°C, suitable for heating/drinking water - hot water tanks and thermal stores	Code
	7.5 kW heating element 3x400 V with thermostatic head, length incl. thread 575 mm	20169
	9 kW heating element 3x400 V with thermostatic head, length incl. thread 670 mm	19701
	12 kW heating element 3x400 V with thermostatic head, length incl. thread 805 mm	20167
Nickel-plated G 6/4" electric heating elements with thermostatic head, star connection, 180 mm non-heating end		
ETT-U 	» connection to a terminal box, adjustable and a high-limit thermostats, knob adjustable 15-80 °C, 5/7-core power supply cable 2 m long, suitable for heating/drinking water - hot water tanks and thermal stores, also DUO/HSK thermal stores with DHW heating, suitable also for use with PV systems	Code
	2 kW heating element 3x230 V with thermostatic head, length incl. thread 310 mm	20214
	3 kW heating element 3x230 V with thermostatic head, length incl. thread 370 mm	20220
	5 kW heating element 3x230 V with thermostatic head, length incl. thread 500 mm	20216
	6 kW heating element 3x230 V with thermostatic head, length incl. thread 555 mm	20219

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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Nickel-plated G 6/4" M Electric Heating Elements with metal thermostatic head, star connection, 180 mm non-heating end		
	ETT-F2 <i>» connection to a terminal box, adjustable and a high-limit thermostats and a contactor, inputs for control by controller and Ripple control, knob adjustable 0-90°C, 7-core power supply cable 2 m long, suitable for heating/drinking water - hot water tanks and thermal stores, also DUO/HSK thermal stores with DHW heating, suitable also for use with PV systems</i>	Code
	3 kW Heating Element 3x230 V with thermostatic head, length incl. thread 370 mm	20232
	5 kW Heating Element 3x230 V with thermostatic head, length incl. thread 500 mm	20234
Nickel-plated G 6/4" electric heating elements with metal thermostatic head, star/triangle connection, 180 mm non-heating end		
	ETT-P <i>» connection to a terminal box, adjustable and a high-limit thermostats and a contactor, inputs for control by controller and Ripple control, knob adjustable 0-90°C, 7-core power supply cable 2 m long, suitable for heating/drinking water - hot water tanks and thermal stores, also DUO/HSK thermal stores with DHW heating</i>	Code
	2 kW heating element 3x230 V with thermostatic head, length incl. thread 310 mm	19041
	3 kW heating element 3x230 V with thermostatic head, length incl. thread 370 mm	19043
	5 kW heating element 3x230 V with thermostatic head, length incl. thread 500 mm	18915
	6 kW heating element 3x230 V with thermostatic head, length incl. thread 555 mm	18386
	7.5 kW heating element 3x400 V with thermostatic head, length incl. thread 635 mm	19045
	8.2 kW heating element 3x400 V with thermostatic head, length incl. thread 700 mm	19042
	9 kW heating element 3x400 V with thermostatic head, length incl. thread 755 mm	19044

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

Nickel-plated G 6/4" M electric heating elements, no thermostatic head, star/triangle connection, 100 mm non-heating end		
ETT-A 	» suitable for heating/drinking water - for Hot Water Heaters and Thermal Stores	Code
	2 kW heating element 3x230 V, length incl. thread 245 mm	8935
	3 kW heating element 3x230 V, length incl. thread 305 mm	8936
	4.5 kW heating element 3x230 V, length incl. thread 370 mm	8937
	6 kW heating element 3x230 V, length incl. thread 495 mm	8938
	7.5 kW heating element 3x400 V, length incl. thread 585 mm	8939
	9 kW heating element 3x400 V, length incl. thread 680 mm	8940
	12 kW heating element 3x400 V, length incl. thread 815 mm	8941
Copper G 6/4" M electric heating elements with no surface finish, no thermostatic head, star/triangle connection, 180 mm non-heating end		
ETT-C 	» suitable for heating water - for Thermal Stores and DUO, HSK combi thermal stores	Code
	2 kW heating element 3x230 V, length incl. thread 310 mm	14519
	3 kW heating element 3x230 V, length incl. thread 370 mm	8902
	5 kW heating element 3x230 V, length incl. thread 500 mm	14359
	6 kW heating element 3x230 V, length incl. thread 555 mm	8897
	7.5 kW heating element 3x400 V, length incl. thread 635 mm	9618
	8.2 kW heating element 3x400 V, length incl. thread 700 mm	14501
	9 kW Heating element 3x400 V, length incl. thread 755 mm	12272
	12 kW Heating element 3x400 V, length incl. thread 955 mm	12273
Copper M 48x2 el. heating elements, with no surface finish, no thermostatic head, star/triangle connection, 45 mm non-heating end		
ETT-B 	» suitable for heating water - for electric boilers	Code
	2 kW heating element 3x230 V, length incl. thread 178 mm	4973
	3 kW heating element 3x230 V, length incl. thread 240 mm	4972
	4.5 kW heating element 3x230 V, length incl. thread 333 mm	4971
	6 kW heating element 3x230 V, length incl. thread 428 mm	4970
	7.5 kW heating element 3x400 V, length incl. thread 520 mm	4969
	9.0 kW heating element 3x400 V, length incl. thread 615 mm	16950

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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Stainless steel el. heating elements, G 1/2", 230V, for bathroom towel radiators

	» suitable for heating/drinking water	Code
	Z-ZT 200, 200 W radiator heating element, length 318 mm	11950
	Z-ZT 300, 300 W radiator heating element, length 395 mm	7145
	Z-ZT 400, 400 W radiator heating element, length 435 mm	7146
	Z-ZT 500, 500 W radiator heating element, length 535 mm	7585
	Z-ZT 600, 600 W radiator heating element, length 585 mm	7586
	Z-ZT 700, 700 W radiator heating element, length 685 mm	7587
	Z-ZT 800, 800 W radiator heating element, length 735 mm	7147
	Z-ZT 900, 900 W radiator heating element, length 835 mm	7148
	Z-ZT 1000, 1000 W radiator heating element, length 885 mm	7590
	Z-ZT 1200, 1200 W radiator heating element, length 1045 mm	7591
	Z-ZT 1350, 1350 W radiator heating element, length 1135 mm	8402

Stainless steel el. heating elements, el. plug with VSV-W switch, G 1/2", 230V, for bath. radiators

	» suitable for heating/drinking water	Code
	Z-ZTV 300, 300 W radiator heating element, length 395 mm, VSV-W	13426
	Z-ZTV 400, 400 W radiator heating element, length 435 mm, VSV-W	13427
	Z-ZTV 500, 500 W radiator heating element, length 535 mm, VSV-W	13428
	Z-ZTV 600, 600 W radiator heating element, length 585 mm, VSV-W	13429
	Z-ZTV 700, 700 W radiator heating element, length 685 mm, VSV-W	13430
	Z-ZTV 800, 800 W radiator heating element, length 735 mm, VSV-W	13431
	Z-ZTV 900, 900 W radiator heating element, length 835 mm, VSV-W	13432
	Z-ZTV 1000, 1000 W radiator heating element, length 885 mm, VSV-W	13433
	Z-ZTV 1200, 1200 W radiator heating element, length 1045 mm, VSV-W	13434
	Z-ZTV 1350, 1350 W radiator heating element, length 1135 mm, VSV-W	13435

Kits with a T-piece and TZT63 plug-in thermostat

	» suitable for heating/drinking water	Code
	Z-SKVT-T 300, 300 W radiator heating element, T-piece+thermostat with timer	8841
	Z-SKVT-T 400, 400 W radiator heating element, T-piece+thermostat with timer	8842
	Z-SKVT-T 500, 500 W radiator heating element, T-piece+thermostat with timer	8843
	Z-SKVT-T 600, 600 W radiator heating element, T-piece+thermostat with timer	8844
	Z-SKVT-T 700, 700 W radiator heating element, T-piece+thermostat with timer	8845
	Z-SKVT-T 800, 800 W radiator heating element, T-piece+thermostat with timer	8846
	Z-SKVT-T 900, 900 W radiator heating element, T-piece+thermostat with timer	8847
	Z-SKVT-T 1000, 1000 W radiator heating element, T-piece+thermostat with timer	8848
	Z-SKVT-T 1200, 1200 W radiator heating element, T-piece+thermostat with timer	8849
	Z-SKVT-T 1350, 1350 W radiator heating element, T-piece+ thermostat with timer	8850

Kits with a T-piece and TZ33 plug-in thermostat

	» suitable for heating/drinking water	Code
	Z-SKVT 300, 300 W radiator heating element, T-piece + thermostat	7573
	Z-SKVT 400, 400 W radiator heating element, T-piece + thermostat	7574
	Z-SKVT 500, 500 W radiator heating element, T-piece + thermostat	7575
	Z-SKVT 600, 600 W radiator heating element, T-piece + thermostat	7576
	Z-SKVT 700, 700 W radiator heating element, T-piece + thermostat	7577
	Z-SKVT 800, 800 W radiator heating element, T-piece + thermostat	7578
	Z-SKVT 900, 900 W radiator heating element, T-piece + thermostat	7579
	Z-SKVT 1000, 1000 W radiator heating element, T-piece + thermostat	7580
	Z-SKVT 1200, 1200 W radiator heating element, T-piece + thermostat	7581
	Z-SKVT 1350, 1350 W radiator heating element, T-piece + thermostat	8597

Stainless steel electric heating elements with integrated TNT thermostat with display and timer, G 1/2", 230V, for bathroom towel radiators		
	» suitable for heating/drinking water	Code
	TT-TNTW-300 300 W Heating element with white thermostat	11399
	TT-TNTW-400 400 W Heating element with white thermostat	11400
	TT-TNTW-500 500 W Heating element with white thermostat	11401
	TT-TNTW-600 600 W Heating element with white thermostat	11402
	TT-TNTW-700 700 W Heating element with white thermostat	11403
	TT-TNTW-800 800 W Heating element with white thermostat	11404
	TT-TNTW-900 900 W Heating element with white thermostat	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
	5 l Expansion vessel, 6 bar, 3/4" M, 160 mm diam.	13731
	8 l Expansion vessel, 6 bar, 3/4" M, 200 mm diam.	13732
	12 l Expansion vessel, 6 bar, 3/4" M, 270 mm diam.	13734
	18 l Expansion vessel, 6 bar, 3/4" M, 270 mm diam.	13735
	25 l Expansion vessel, 6 bar, 3/4" M, 290 mm diam.	13736
	40 l Expansion vessel, 6 bar, 3/4" M, 320 mm diam.	13737
	35 l Expansion vessel, 6 bar, 3/4" M, 320 mm diam., legs	13738
	50 l Expansion vessel, 6 bar, 3/4" M, 380 mm diam., legs, replac. membrane	13739
	60 l Expansion vessel, 6 bar, 3/4" M, 380 mm diam., legs, replac. membrane	13740
	80 l Expansion vessel, 6 bar, 1" M, 450 mm diam., legs, replac. membrane	13741
	100 l Expansion vessel, 6 bar, 1" M, 450 mm diam., legs, replac. membrane	13742
	150 l Expansion vessel, 6 bar, 6/4" M, 554 mm diam., legs, replac. membrane	13743
	200 l Expansion vessel, 6 bar, 6/4" M, 554 mm diam., legs, replac. membrane	13744
	250 l Expansion vessel, 6 bar, 6/4" M, 624 mm diam., legs, replac. membrane	13745
	300 l Expansion vessel, 6 bar, 6/4" M, 630 mm diam., legs, replac. membrane	13746
	400 l Expansion vessel, 6 bar, 6/4" M, 624 mm diam., legs, replac. membrane	13747
	500 l Expansion vessel, 6 bar, 6/4" M, 775 mm diam., legs, replac. membrane	13748
	600 l Expansion vessel, 6 bar, 6/4" M, 775 mm diam., legs, replac. membrane	x 13749
	700 l Expansion vessel, 6 bar, 6/4" M, 775 mm diam., legs, replac. membrane	x 13750
Expansion vessels for solar thermal systems		Code
 	12 l Expansion vessel, 8 bar, 3/4" M, 270 mm diam.	13720
	18 l Expansion vessel, 8 bar, 3/4" M, 270 mm diam.	13721
	25 l Expansion vessel, 8 bar, 3/4" M, 290 mm diam.	13722
	40 l Expansion vessel, 8 bar, 3/4" M, 320 mm diam.	13723
	50 l Expansion vessel, 10 bar, 3/4" M, 320 mm diam., legs, replac. membrane	13724
	80 l Expansion vessel, 10 bar, 3/4" M, 450 mm diam., legs, replac. membrane	13725
	100 l Expansion vessel, 10 bar, 1" M, 450 mm diam., legs, replac. membrane	13726
	150 l Expansion vessel, 10 bar, 6/4" M, 554 mm diam., legs, replac. membrane	13727
	200 l Expansion vessel, 10 bar, 6/4" M, 554 mm diam., legs, replac. membrane	13728
	300 l Expansion vessel, 10 bar, 6/4" M, 624 mm diam., legs, replac. membrane	13729
	500 l Expansion vessel, 8 bar, 6/4" M, 780 mm diam., legs, replac. membrane	x 13730
Expansion vessels for drinking water		Code
 	0.16 l Exp. vessel for drinking water, 15 bar, 1/2" M, 65 mm diam.	13752
	2 l Exp. vessel for drinking water, 10 bar, 1/2" M, 125 mm diam.	13753
	5 l Exp. vessel for drinking water, 8 bar, 3/4" M, 160 mm diam	13754
	8 l Exp. vessel for drinking water, 8 bar, 3/4" M, 200 mm diam	13755
	12 l Exp. vessel for drinking water, 8 bar, 3/4" M, 270 mm diam	13756
	18 l Exp. vessel for drinking water, 8 bar, 3/4" M, 270 mm diam	13757
	25 l Exp. vessel for drinking water, 8 bar, 3/4" M, 290 mm diam	13758
	40 l Exp. vessel for drinking water, 8 bar, 3/4" M, 320 mm diam	13759
	60 l Exp. vessel for drink. water, 10 bar, 1" M, 380 mm diam., legs, replac. membrane	13760
	80 l Exp. vessel for drink. water, 10 bar, 1" M, 450 mm diam., legs, replac. membrane	13761
	100 l Exp. vessel for drink. water, 10 bar, 1" M, 450 mm diam., legs, replac. membrane	13762
	200 l Exp. vessel for drink. water, 10 bar, 6/4" M, 554 mm diam., legs, replac. membrane	13763
	300 l Exp. vessel for drink. water, 10 bar, 6/4" M, 624 mm diam., legs, replac. membrane	13764
	400 l Exp. vessel for drink. water, 10 bar, 6/4" M, 624 mm diam., legs, replac. membrane	x 13765

x - upon order

Service valves and brackets for expansion vessels		Code
	3/4" Service Valve for expansion vessels connection and easy servicing	8770
	1" Service Valve for expansion vessel connection and easy servicing	12295
	6/4" Service Valve for expansion vessel connection and easy servicing	14492
	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

REGULUS IR Smart Controllers		
	» 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. Involves 1 outdoor sensor, 2 temperature sensor for sheath (4m). Integrated web server for easy remote access.	Code
	IR 14 RTC EN - for control of RTC Heat Pumps	18239
	IR 14 CTC EN - for control of CTC heat pumps	18514
Room Units and sensors for IR Smart Controllers		Code
	RC 25 Room Unit with a temperature and humidity sensor, knob for temperature adjustment, pushbutton with mode selection, backlight and signalling, two-wire connection	18540
	RS10 Room Temperature Sensor - ABB Time design, white colour, two-wire connection	16167
	RSW 30 Room Temperature and Humidity Sensor – wireless WiFi connection, battery or USB power supplied	18474
	Pt1000 Temperature sensor with 4 m cable, contact type	9789
	Pt1000 Temperature sensor for sheath, with 2 m cable, increased temperature and UV resistance	9108
	Pt1000 for sheath, with 4 m cable	9109
	Pipe Mounted Sensor Housing for Pt1000	14250
	TA55 - Outdoor temperature sensor Pt1000 for IR controllers	9110
	0-10 bar Pressure Sensor, 4-20 mA output for IR 14, 1/2 "M, connector	18989

Modules for IR smart controllers and controllers of Indoor Units		
	» <i>modules for internal CIB bus</i>	Code
	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 Kinetic 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
	» <i>modules for external CIB bus</i>	Code
	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
	» <i>modules for TCL2 bus</i>	Code
	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
	» <i>other accessories</i>	Code
	LAN Module - switch - 5x LAN, on DIN rail (connection to ETH and 24 V power supply)	19007
	WiFi Module (USB connection)	18777
	Submodule RS 485 - to connect certain PV inverters	17923
	Power Supply, 30 W output	16491

Weather compensation controllers for heating systems		Code
	TRS3 Controller for 1 heating circuit. The controller has 4 inputs and 3 outputs. 1 outdoor sensor and 1 contact sensor enclosed.	9055
	TRS4 Controller for 2 heating circuits. The controller has 6 inputs and 5 outputs, 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). 1 outdoor sensor, 1 contact sensor and 1 sheath sensor enclosed	9056
	TRS5 Controller for 1 heating circuit and DHW. The controller has 6 inputs and 5 outputs, 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). 1 outdoor sensor, 1 contact sensor and 2 sheath sensors enclosed.	9057
	TRS6 K Controller for solid fuel boilers, hydronic fires and combinations of other heat sources. 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. 1 outdoor sensor and 4 immersion sensors included.	16821
	Room Temperature Sensor - ABB Time design, white colour, two-wire connection	16167
	RC CALEON Room Unit with temperature sensor, humidity sensor, touch screen, 4-lead connection to controller (only for TRS3 and TRS6 K)	17150
	RC CALEON WIFI Room Unit, wifi internet connection, temperature and humidity sensors, touchscreen, for CAN-bus controllers TRS3 and TRS6 K - four-wire connection to the controller.	18126
	Contact temperature sensor with 4 m cable, on pipe - Pt1000	9789
	Pt1000 for sheath with 4 m cable	9109
	Pt1000 Temperature sensor for sheath, with 2 m cable, increased temperature and UV resistance	9108

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

Thermometers		Code
	Contact thermometer with fixing spring, 0-120 °C, diam. 63 mm	3042
	Thermometer with sheath l=30, 3/8", rear conn., 0-120 °C, diam. 40 mm	10472
	Thermometer with sheath l=45, 1/2", rear conn., 0-120 °C, diam. 63 mm	10473
	Thermometer with sheath l=100, 1/2", rear conn., 0-120 °C, diam. 63 mm	14296
	Thermometer with sheath l=150, 1/2", rear conn., 0-120 °C, diam. 63 mm	10474
	Stem-type thermometer l=100, no sheath, rear conn., 0-500 °C, diam. 63 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		Code
	Pressure gauge, 4 bar, 1/4", bottom connection, diam. 50 mm	10170
	Pressure gauge, 6 bar, 1/4", bottom connection, diam. 50 mm	2126
	Pressure gauge, 4 bar, 1/4", rear connection, diam. 50 mm	2128
	Pressure gauge, 6 bar, 1/4", rear connection, diam. 50 mm	2129
	Pressure gauge, 2.5 bar, 1/4", bottom connection, diam. 63 mm	294
	Pressure gauge, 4 bar, 1/4", bottom connection, diam. 63 mm	2127
	Pressure gauge, 6 bar, 1/4", bottom connection, diam. 63 mm	3319
	Pressure gauge, 10 bar, 1/4", bottom connection, diam. 63 mm	3822
	Pressure gauge, 4 bar, 1/4", rear connection, diam. 63 mm	5675
	Pressure gauge, 6 bar, 1/4", rear connection, diam. 63 mm	3409
	Pressure gauge, 10 bar, 1/4", rear connection, diam. 63 mm	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 gauges, diam. 100 mm, bottom connection		Code
	Pressure gauge, 2.5 bar, 1/2"	300
	Pressure gauge, 4 bar, 1/2"	2170
	Pressure gauge, 6 bar, 1/2"	3320
	Pressure gauge, 10 bar, 1/2"	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 bar	Ø 57.5 mm	1 m		272
	540.80125.00A	0-120 °C;0-6bar	42x78 mm	1 m		3643
	540.71526.00A	0-120 °C;0-4 bar	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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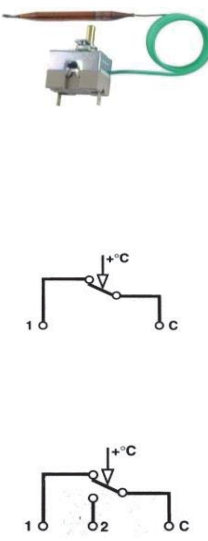
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Encased thermostats			Code
	BB1-1000	Adjustable contact thermostat, higher sensit., 10-90 °C, heat cond. paste	10811
	TS5310.54	Adjustable contact thermostat, standard sensitivity, 17-90 °C	10746
	TS9510.52	Adjustable immersion thermostat, 0-90 °C, 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 ² 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

Adjustable thermostats, liquid filled						Code
	model	range	adjustment	capillary	contacts	
	95A040R21	0 - 40 °C	knob	1 m	SPST	10925
	95B090R27	0 - 90 °C	knob	2 m	SPDT	11020
	95B090R25	0 - 90 °C	knob	1 m	SPDT	10922
	95B090R23	0-90 °C	knob	0.6 m	SPDT	10739
	95A090R20	0 - 90 °C	knob	1 m	SPST	10924
	95B120R09	0 - 120 °C	knob	1 m	SPDT	10735
	95B120R10	0 - 120 °C	knob	1.5 m	SPDT	10933
	95A095R01	50 - 95 °C (ATMOS)	knob	1 m	SPST	10736
	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
	5285-0-204-3	2 levels, 39-78 °C, 46-85 °C	knob	1 m	SPDT	4462
	95A070R06	30-70 °C gold-plated contacts	screwdr.	1 m	SPST	10737
High limit thermostats, adjustable						Code
	model	range	reset	capillary	contacts	
	95H110R10	90 - 110 °C	manual	1 m	SPST	10923
	962.11228.00A	90 - 110 °C	automatic	1 m	SPST	823
	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						Code
	model	range	reset	capillary	contacts	
	95H230I08	230 °C	manual	1 m	SPST	15765
	974.99228.01A	100 °C gold pl.contacts	automatic	1 m	SPST	1094
	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.

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, 7x9x45 mm, 1/2", brass	14879
	Single sheath, 7x9x60 mm, 1/2", brass	15746
	Single sheath, 7x9x100 mm, 1/2", brass	14880
	Single sheath, 7x9x120 mm, 1/2", brass	15745
	Single sheath, 7x9x160 mm, 1/2", brass	16590
	Single sheath, 7x9x180 mm, 1/2", brass	16591
	Single sheath, 7x9 x 200 mm, 1/2", brass	14881
	Sheath for 3 sensors, 15x17x100 mm, 1/2", brass	15744
	Sheath for 3 sensors, 15x17x130 mm, 1/2", brass	16592
	Sheath for 3 sensors, 15x17x230 mm, 1/2", brass	15743
	Sheath for 4 sensors, 15x17x120 mm, 1/2", brass	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	10845
	Capillary spring, small, 1/2", stainless steel, 100 pcs	13563
	Capillary spring, big, 3/4", stainless steel	13557
	Capillary spring, big, 3/4", stainless steel, 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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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.

Regulus Two-way Thermal Safety Relief Valves			Code
	DBV2 Insulated Insulated Thermal Safety Relief Valve with 2 independent thermostatic elements – meets the requirements of EN 303-5:2012. Thermostatic elements' sensors are placed in heating water. Connection to a boiler, cooling water and sewer with 3/4" M, 97 °C ± 2 °C opening temperature		16627
	DBV2 Insulated, in 6/4" F T-piece		16863
	DBV1 Insulated Insulated Thermal Relief Valve for solid fuel boilers without a cooling heat exchanger, thermostatic element sensor immersed in heating water, connection to boiler, cooling water and sewer with 3/4" M, 97 °C ± 2 °C opening temperature		16912
	DBV1 Insulated, in 6/4" F T-piece		16913
Regulus One-way Thermal Relief Valves			Code
	JBV1 One-way Thermal Relief Valve for solid fuel boilers with a cooling heat exchanger, connection to boiler 1/2" M, connection to both cooling water and sewer 3/4" M, 97 °C ± 2 °C opening temperature, thermostatic element sensor immersed in heating water		8877
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
	BVTS Thermal Safety Relief Valve 3/4"F, 1.3 m fixed capillary, 140 mm sheath, 1/2" M	55 °C	14474
		65 °C	14475
		70 °C	14476
		95 °C	14477
		97 °C	14480
	BVTS Thermal Safety Relief Valve 3/4"F, 1.3 m detachable capillary, 140 mm sheath, 1/2" M	108 °C	14483
		50 °C	14473
		95 °C	14479
	BVTS Thermal Safety Relief Valve 3/4"F, 4 m fixed capillary, 140 mm sheath, 1/2" M	100 °C	14481
		95 °C	14478

BVTS valves are made upon order also with extended sheath.

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 m ³ /h	45 °C	11282
		50 °C	15517
		55 °C	11281
		60 °C	15518
		65 °C	10080
		70 °C	15519
	TSV3BF - DN 25, connections 2x 1" F and 6/4" Fu nut, coupler for circulation pump 6/4" F x 1" F + 2 gaskets, K _{vs} = 6.2 m ³ /h	45 °C	13095
		50 °C	15939
		55 °C	13096
		60 °C	15940
		65 °C	13097
		70 °C	15941
	TSV5B - DN 32, connections 3x 5/4" F, K _{vs} = 7.0 m ³ /h	45 °C	11806
		50 °C	15520
		55 °C	11807
		60 °C	15521
		65 °C	11808
		70 °C	15522
	TSV6B - DN 40, connections 3x 6/4" F, K _{vs} = 13.3 m ³ /h	45 °C	12974
		55 °C	12975
		65 °C	12976
	TSV8B - DN 50, connetions 3x 2" F, K _{vs} = 15.8 m ³ /h	45 °C	12977
		55 °C	12978
		65 °C	12979
Special models of TSV valves with outer threads			Code
	TSV3BM - DN 25, connections 3x 1" M, K _{vs} = 9.8 m ³ /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 m ³ /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 m ³ /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 temperature,manual bypass balancing		Opening temperature	Code
	TSV3 - for ATMOS boilers - DN 25, connections 3x 1" F, $K_{vs} = 6.2 \text{ m}^3/\text{h}$	65 °C	10347
		72 °C	16029
	TSV5 - for ATMOS boilers - DN 32, connections 3x 5/4" F, $K_{vs} = 7.0 \text{ m}^3/\text{h}$	65 °C	11804
		72 °C	15533
	TSV6 - for ATMOS boilers - DN 40, connections 3x 6/4" F, $K_{vs} = 13.3 \text{ m}^3/\text{h}$	65 °C	11821
		72 °C	16060
	TSV8 - for ATMOS boilers - DN 50, connections 3x 2" F, $K_{vs} = 15.8 \text{ m}^3/\text{h}$	65 °C	11819
		72 °C	16061
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		12102
	VB24 Thermostatic element with cone for TSV3B, 5B valves, 50 °C		16095
	VB24 Thermostatic element with cone for TSV3B, 5B valves, 55 °C		12101
	VB24 Thermostatic element with cone for TSV3B, 5B valves, 60 °C		16096
	VB24 Thermostatic element with cone for TSV3B, 5B valves, 65 °C		12100
	VB24 Thermostatic element with cone for TSV3B, 5B valves, 70 °C		16097
	VB24 Thermostatic element with cone for TSV5BMF valves, 45 °C		21396
	VB24 Thermostatic element with cone for TSV5BMF valves, 55 °C		21352
	VB24 Thermostatic element with cone for TSV5BMF valves, 65 °C		21351
	VB35 Thermostatic element with cone for TSV6B, 8B valves, 45 °C		13193
	VB35 Thermostatic element with cone for TSV6B, 8B valves, 55 °C		13194
	VB35 Thermostatic element with cone for TSV6B, 8B valves, 65 °C		13195
Thermostatic Elements – accessories for temperature change			Code
	VB24 Thermostatic element for TSV3, 5 valves, 65 °C		16198
	VB24 Thermostatic element for TSV3, 5 valves, 72 °C		16098
	VB35 Thermostatic element for TSV6, 8 valves, 65 °C		16199
	VB35 Thermostatic element for TSV6, 8 valves, 72 °C		16200

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RegulusRGMAT Load Units with AUTOMATIC bypass balancing, 1"		Opening temperature	Code
	RGMAT E R8 - DN 25, connections 3x 1" F, TSV3B valve, Regulus RPA 25-8 pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer, ball shut-off valve for pump	45 °C	21374
		55 °C	21115
		65 °C	21122
		70 °C	21375
	RGMAT E W6 - DN 25, connections 3x 1" F, TSV3B valve, Wilo PARA 25/6 SC pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer, ball shut-off valve for pump	45 °C	18668
		50 °C	18680
		55 °C	18612
		60 °C	18681
		65 °C	18682
	RGMAT E W-PWM - DN 25, connections 3x 1" F, TSV3B valve, Wilo PARA 25/8 iPWM1 pump (control ON/OFF (max. speed) or PWM), thermometer, ball shut-off valve for pump	55 °C	18133
		65 °C	18131
	RGMAT E G60 - DN 25, connections 3x 1" F, TSV3B valve, Grundfos UPM3 FLEX AS 25-60* pump (control ON/OFF (I, II, III) or PWM-A (heating)), thermometer, ball shut-off valve for pump	45 °C	19083
		50 °C	19090
		55 °C	19086
		60 °C	19092
		65 °C	19089
	RGMAT E R8 KK - DN 32, connections 3x 1" F, with 3 ball valves w. union nut, TSV5BMF valve, Regulus RPA 25-8 pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer	70 °C	15912
		55 °C	21459
	RGMAT E W6 KK - DN 32, connections 3x 1" F, with 3 ball valves w. union nut, TSV5BMF valve, Wilo PARA 25/6 SC pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer	65 °C	21460
		55 °C	19015
	RGMAT E W8 5/4 - DN 32, connections 3x 5/4" F, TSV5B valve, Wilo PARA 25/8 SC pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer	65 °C	19016
		55 °C	21258
	RGMAT E W8 5/4 - DN 32, connections 3x 5/4" F, TSV5B valve, Wilo PARA 25/8 SC pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer	65 °C	21260
		55 °C	18684
	RGMAT E G75 5/4 - DN 32, connections 3x 5/4" F, TSV5B valve, Grundfos UPM3 FLEX AS 25-75 pump (control ON/OFF (I, II, III) or PWM-A (heating)), thermometer	65 °C	18663
		55 °C	16395
	RGMAT E W8 5/4 KK - DN 32, connections 3x 5/4" F, with 3 ball valves w. union nut, TSV5BMF valve, Wilo PARA 25/8 SC pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer	65 °C	16397
		55 °C	18654
	RGMAT E G75 5/4 KK - DN 32, connections 3x 5/4" F, with 3 ball valves w. union nut, TSV5BMF valve, Grundfos UPM3 FLEX AS 25-75 pump (control ON/OFF (I, II, III) or PWM-A (heating)), thermometer	65 °C	18657
		55 °C	18985
	RGMAT E G75 5/4 KK - DN 32, connections 3x 5/4" F, with 3 ball valves w. union nut, TSV5BMF valve, Grundfos UPM3 FLEX AS 25-75 pump (control ON/OFF (I, II, III) or PWM-A (heating)), thermometer	65 °C	18986
		55 °C	18986

* Grundfos UPM3 25-70 is in Load Unit code 15912

RegulusRGMAT Load Units with MANUAL bypass balancing, 1"		Opening temperature	Code
	RGMAT EA W6 - for ATMOS boilers - DN 25, connections 3x 1" F, TSV3 valve, Wilo PARA 25/6 SC pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer, ball shut-off valve for pump	65 °C	18699
		72 °C	18701
	RGMAT EA G60 - for ATMOS boilers - DN 25, connections 3x 1" F, TSV3 valve, Grundfos UPM3 FLEX AS 25-60 pump (control ON/OFF (I, II, III) or PWM-A (heating)), thermometer, ball shut-off valve for pump	65 °C	19084
		72 °C	19087
RegulusRGMAT Load Units with MANUAL bypass balancing, 5/4"		Opening temperature	Code
	RGMAT EA W8 5/4 - for ATMOS boilers - DN 32, connections 3x 5/4" F, TSV5 valve, Wilo PARA 25/8 SC pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer	65 °C	18700
		72 °C	18637
	RGMAT EA G75 5/4 - for ATMOS boilers - DN 32, connections 3x 5/4" F, TSV5 valve, Grundfos UPM3 FLEX AS 25-75 pump (control ON/OFF (I, II, III) or PWM-A (heating)), thermometer	65 °C	16399
		72 °C	16400
Accessories for RegulusRGMAT Load Units		Connection	Code
	Bypass with float check valve for RegulusRGMAT Load Units	1"	16126
		5/4"	16139
Load Units with float check valve		Opening temperature	Code
	THERMOMAT connections 3x 5/4" F, thermost. element, Grundfos UPM3 pump (delivery head 7 m, control ON/OFF (Δp -c / Δp -v / I, II, III)), thermometer, check valve, ball shut-off valves	55 °C	15046
		65 °C	15047
		72 °C	16244
Thermostatic Elements – spare parts for LK810 ThermoMat			Code
	Thermostatic element for LK810 55 °C Pump Station		15080
	Thermostatic element for LK810 60 °C Pump Station		15081
	Thermostatic element for LK810 65 °C Pump Station		15082
	Thermostatic element for LK810 72 °C Pump Station		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			
	for system with thermal store, with integrated controller	Opening temperature	Code
	RegulusBIO MIX W-PWM 1F TRS6K Insulated Load and Heating Combi Unit - controller, 3-way mixing valve w. actuator ($K_{vs}=6.3 \text{ m}^3/\text{h}$), Wilo PARA 25/8 iPWM1 pumps with electronic controlled speed, TSV3BM load valve ($K_{vs}=9.8 \text{ m}^3/\text{h}$), ball valves, thermometers, drain valves, connections 1" F.	55 °C	17499
		65 °C	21255
	for systems with thermal store	Opening temperature	Code
	RegulusBIO MIX-BP G75 1F Insulated Load and Heating Combi Unit - 3-way mixing valve without actuator ($K_{vs}=6.3 \text{ m}^3/\text{h}$), Grundfos UPM3 25-75 pumps (pump control ON/OFF (I, II, III) or PWM-A (heating)), TSV3BM load valve ($K_{vs}=9.8 \text{ m}^3/\text{h}$), ball valves, thermometers, drain valves, connections 1" F.	55 °C	17553
		65 °C	21257
	for systems without thermal store	Opening temperature	Code
	RegulusBIO G75 1F Insulated Load and Heating Combi Unit - Grundfos UPM3 25-75 pumps (pump control ON/OFF (I, II, III) or PWM-A (heating)), TSV3BM load valve ($K_{vs}=9.8 \text{ m}^3/\text{h}$), ball valves, thermometers, drain valves, connections 1" F.	55 °C	17502
Accessories			Code
	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

Compact Backup Power Supplies for circulation pumps in solid-fuel boilers		
	» <i>with integrated batteries, output in the form of a modified sine wave</i>	Code
	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>with LCD display, output in the form of a smooth sine wave , 600 W max. inverter output</i>	Code
	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, thermometer			
	w. 2 ball valves	Pump	Code
	CSE OTS Insulated Pump Station with pump, 2 ball valves and thermometer, 1" F connection pump control: ON/OFF (Δp -c / Δp -v / I, II, III)	Regulus RPA 25-8	21123
		Wilco PARA 25/6 SC	18611
		Wilco PARA 25/8 SC	19636
	CSE OTS Insulated Pump Station with pump, 2 ball valves and thermometer, 1" F connection pump control: ON/OFF (I,II,III) or PWM-A (heating)	Grundfos UPM3 FLEX AS 25-60	19085
w. 2 ball valves, check valve			
	CSE OTS ZV Insulated Pump Station with pump, 2 ball valves, check valve and thermometer, 1" F connection pump control: ON/OFF (Δp -c / Δp -v / I, II, III)	Regulus RPA 25-8	21367
		Wilco PARA 25/8 SC	17979
	CSE OTS ZV Insulated Pump Station with pump, 2 ball valves, check valve and thermometer, 1" F connection pump control: ON/OFF (max. speed) or PWM	Wilco PARA 25/8 iPWM1	18127
	CSE OTS ZV Insulated Pump Station with pump, 2 ball valves, check valve and thermometer, 1" F connection pump control: ON/OFF (I,II,III) or PWM-A (heating)	Grundfos UPM3 FLEX AS 25-60	19088
w. 2 ball valves, check valve, filter&magnet			
	CSE OTS MFB+ZV Insulated Pump Station with pump, w. ball valve w. filter&magnet , ball valve w. non-return valve and thermometer, 1" F connection pump control: ON/OFF (Δp -c / Δp -v / I, II, III)	Regulus RPA 25-8	21256
		Wilco PARA 25/8 SC	17818
	CSE OTS MFB+ZV Insulated Pump Station with pump, w. ball valve w. filter&magnet , ball valve w. non-return valve and thermometer, 1" F connection pump control: ON/OFF (I,II,III) or PWM-A (heating)	Grundfos UPM3 FLEX AS 25-75	17922
RegulusTOP Single-pipe Pump Stations for unmixed heating circuits, uninsulated			
	CS KK Pump, threaded fittings with shut-off ball valves. 1" F connection, pump control: ON/OFF (Δp -c / Δp -v / I, II, III)	Regulus RPA 25-8	21264
		Wilco PARA 25/6 SC	18563
	CS KK T Pump, threaded fittings with shut-off ball valve. 1" F connection. Thermometer, pump control: ON/OFF (Δp -c / Δp -v / I, II, III)	Wilco PARA 25/6 SC	20115

RegulusTOP Single-pipe Pump Stations for mixed heating circuits, 3-point control actuator

  	connection 1"	Pump	Code
	CSE MIX 1F - $K_{vs} = 10 \text{ m}^3/\text{h}$, connection 3 x 1" F, pump control: ON/OFF ($\Delta p\text{-c}$ / $\Delta p\text{-v}$ / I, II, III)	Regulus RPA 25-8	21124
		Wilco PARA 25/6 SC	18317
		Grundfos UPM3 AUTO 25-60	19106
	CSE MIX 1F - $K_{vs} = 10 \text{ m}^3/\text{h}$, connection 3 x 1" F, pump control: ON/OFF (max. speed) or PWM	Wilco PARA 25/8 iPWM1	18128
	CSE MIX 1F T - $K_{vs} = 10 \text{ m}^3/\text{h}$, connection 3 x 1" F, thermometer pump control: ON/OFF ($\Delta p\text{-c}$ / $\Delta p\text{-v}$ / I, II, III)	Wilco PARA 25/6 SC	18553
	CSE MIX 1M - $K_{vs} = 6,3 \text{ m}^3/\text{h}$, connection 2 x 1" M a 1 x 1" F, pump control: ON/OFF ($\Delta p\text{-c}$ / $\Delta p\text{-v}$ / I, II, III)	Regulus RPA 25-8	21368
		Wilco PARA 25/6 SC	18730
		Wilco PARA 25/8 SC	17980
		Grundfos UPM3 AUTO 25-60	19110
	connection 5/4"	Pump	Code
	CSE MIX 5/4F - $K_{vs} = 16 \text{ m}^3/\text{h}$, connection 3 x 5/4" F, pump control: ON/OFF ($\Delta p\text{-c}$ / $\Delta p\text{-v}$ / I, II, III)	Regulus RPA 25-8	21369
		Wilco PARA 25/8 SC	18524
	CSE MIX 5/4F - $K_{vs} = 16 \text{ m}^3/\text{h}$, connection 3 x 5/4" F, pump control: ON/OFF (I, II, III) or PWM-A (heating)	Grundfos UPM3 FLEX AS 25-75	16402

RegulusTOP Single-pipe Pump Stations for mixed heating circuits, without actuator

	connection 1"	Pump	Code
	CSE MIX-BP 1F - $K_{vs} = 10 \text{ m}^3/\text{h}$, connection 3 x 1" F, pump control: ON/OFF ($\Delta p\text{-c}$ / $\Delta p\text{-v}$ / I, II, III)	Regulus RPA 25-8	21371
		Wilco PARA 25/6 SC	18731
		Grundfos UPM3 AUTO 25-60	19102
	connection 5/4"	Pump	Code
	CSE MIX-BP 5/4F - $K_{vs} = 16 \text{ m}^3/\text{h}$, connection 3 x 5/4" F, pump control: ON/OFF ($\Delta p\text{-c}$ / $\Delta p\text{-v}$ / I, II, III)	Regulus RPA 25-8	21370
		Wilco PARA 25/8 SC	18732
	CSE MIX-BP 5/4F - $K_{vs} = 16 \text{ m}^3/\text{h}$, connection 3 x 5/4" F, pump control: ON/OFF (I, II, III) or PWM-A (heating)	Grundfos UPM3 FLEX AS 25-75	18753

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AVC Actuators for mixing valves		Code
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 60 s, 5 Nm	10875
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 120 s, 5 Nm	9193
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 120 s, 5 Nm, auxiliary microswitch	10878
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 240 s, 5 Nm	10876
	AVC 24 V actuator w. 3-point control, incl. 2m cable, 120 s, 5 Nm	11118
	AVC 24 V actuator w. 3-point control, incl. 2m cable, 60-120 s, 5 Nm	14682
	ACC30 230V actuator incl. 2m cable, 60 s, 5 Nm, for mixing valve, control to fixed temperature, with one Pt1000 sensor	16101
	AHC40 230V mixing valve actuator, 2m cable, 120 s, 6 Nm, 3 Pt1000 sensors, weather compensated heating system control	16253
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 Regulus 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, incl. gasket	15695
	Union, 1" Fu/F, incl. gasket	15694
	Union to connect CSE MIX 1" M to 5/4" manifold – 1"x5/4" Fu/F	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

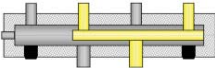
RegulusTOP Twin-line Pump Stations for unmixed heating circuits		Pump	Code
	CSE2 F	Regulus RPA 25-8	21125
	Insulated pump station - pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), filter w. strainer and magnet, non-return valve under the filter, ball valves, thermometers, connection fittings for a manifold. Connections 1" F, pipe distance 125 mm.	Wilo PARA 25/6 SC	18312
		Wilo PARA 25/8 SC	17936
		Grundfos UPM3 AUTO 25-60	19107
	CSE2 F	Grundfos UPM3 FLEX AS 25-75	17487
RegulusTOP Twin-line Pump Stations for mixed heating circuits, with actuator		Pump	Code
	CSE2 MIX F	Regulus RPA 25-8	21126
	Insulated pump station - 3-way mixing valve ($K_{vs}=6.3\text{ m}^3/\text{h}$) w. actuator w. 3-point control (230 V, 120 s, 5 Nm), pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), filter with strainer and magnet, non-return valve under the filter, ball valves, thermometers, connection fittings for a manifold. Connections 1" F, pipe distance 125 mm.	Wilo PARA 25/6 SC	18313
		Wilo PARA 25/8 SC	17937
		Grundfos UPM3 AUTO 25-60	19103
	CSE2 MIX F	Grundfos UPM3 FLEX AS 25-75	17484
	CSE2 MIX FIX F	Regulus RPA 25-8	21426
	Insulated pump station - 3-way mixing valve ($K_{vs}=6.3\text{ m}^3/\text{h}$) w. actuator w. control to fixed temperature (230 V, 120 s, 5 Nm), pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), filter with strainer and magnet, non-return valve under the filter, ball valves, thermometers, connection fittings for a manifold. Connections 1" F, pipe distance 125 mm.	Grundfos UPM3 AUTO 25-60	21448
RegulusTOP Twin-line Pump Stations for mixed heating circuits, without actuator		Pump	Code
	CSE2 MIX-BP F	Regulus RPA 25-8	21372
	Insulated pump station - 3-way mixing valve ($K_{vs}=6.3\text{ m}^3/\text{h}$) without actuator , pump (control ON/OFF (Δp -c / Δp -v / I, II, III)), filter with strainer and magnet, non-return valve under the filter, ball valves, thermometers, connection fittings for a manifold. Connections 1" F, pipe distance 125 mm.	Wilo PARA 25/6 SC	18314
		Wilo PARA 25/8 SC	17917
		Grundfos UPM3 AUTO 25-60	19111
	CSE2 MIX-BP F	Grundfos UPM3 FLEX AS 25-75	18082
RegulusTOP Twin-line Pump Stations for mixed heating circuits, thermostatic		Pump	Code
	CSE2 TMV F	Regulus RPA 25-8	21417
	1" F Insulated pump station w. pump (ON/OFF control (Δp -c / Δp -v / I, II, III)), thermostatic valve, filter with strainer and magnet, check valve under the filter, ball valves, thermometers and connection fittings for a manifold. Connection pitch 125 mm.	Grundfos UPM3 AUTO 25-60	19487

AVC Actuators for mixing valves – 3-point or 0-10 V control		Code
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 60 s, 5 Nm	10875
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 120 s, 5 Nm	9193
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 120 s, 5 Nm, auxiliary microswitch	10878
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 240 s, 5 Nm	10876
	AVC 24 V actuator w. 3-point control, incl. 2m cable, 120 s, 5 Nm	11118
	AVC 24 V actuator w. 3-point control, incl. 2m cable, 60-120 s, 5 Nm	14682
	ACC30 230V actuator incl. 2m cable, 60 s, 5 Nm, for mixing valve, control to fixed temperature, with one Pt1000 sensor	16101
	AHC40 230V mixing valve actuator, 2m cable, 120 s, 6 Nm, 3 Pt1000 sensors, weather compensated heating system control	16253
Accessories		Code
	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 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
	Union to connect CSE2 to 5/4" manifold – 1"x5/4" Fu/F	17920

Regulus Pump Stations for large boiler rooms		Code
	CS2 OTS MFB W 5/4F Pump Station Pump Station, 5/4" F, Yonos MAXO pump (max. head 10,7 m, control ON/OFF ($\Delta p-c / \Delta p-v / I, II, III$)) and strainer with mesh and magnet. Pipe distance 125 mm. Intended for 5/4" manifolds.	17820
	CS2 MIX ZV W 5/4F Pump Station, 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. Pipe distance 125 mm. Intended for 5/4" manifolds.	17267
	CS2 MIX MFB+ZV W 5/4F Pump Station, 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 and strainer with mesh and magnet. Pipe distance 125 mm. Intended for 5/4" manifolds.	17819

Pump Stations for DHW recirculation		Code
	CSE TV ZV G70 1F Insulated 1" Pump Station with UPM3 DHW pump, check valve, thermometer, intended for DHW circuits – for DHW recirculation or DHW heating via a heat exchanger. Pump control ON/OFF (I, II, III) or PWM-A (heating).	15181
	CSE TV ZV G70 3/4F Insulated 3/4" F Pump Station with UPM3 DHW pump, check valve, 2 ball valves & thermometer, intended for DHW circuits – for DHW recirculation or DHW heating via a heat exchanger. Pump control ON/OFF (I, II, III) or PWM-A (heating).	18997
	CSE TV ZV G70 3/4F HBOX Insulated 3/4" F Pump Station with UPM3 DHW pump, check valve, 2 ball valves & thermometer, intended for DHW circuits – for DHW recirculation or DHW heating via a heat exchanger. Pump control ON/OFF (I, II, III) or PWM-A (heating). With a connection kit for RegulusHBOX.	20276
	CSE TVMIX ZV G70 3/4M Insulated 3/4" M Pump Station with UPM3 DHW pump, thermostatic mixing valve w. check valves and circulation connection kit intended for DHW circuits. Pump control ON/OFF (I, II, III) or PWM-A (heating).	17893

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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 ³ /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 ³ /h, pipe distance 125 mm	9187
	Insulated safety assembly - 0-4 bar manometer, 3 bar air vent and safety valve	9797
	HV 60/125-2 Manifold/collector - two 1" heating circuits with insulation, max. flowrate 2 m ³ /h, pipe distance 125 mm	9507
	HV 60/125-3 Manifold/collector - three 1" heating circuits with insulation, max. flowrate 2 m ³ /h, pipe distance 125 mm	9508
	HV 70/125-4 Manifold/collector - four 1" heating circuits, 5/4" for heat source, 3/4" side outlet, insulation, max. flowrate 3 m ³ /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 ³ /h, pipe distance 125 mm	9510
	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 ³ /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 ³ /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 ³ /h	17230
	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 ³ /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 ³ /h incl. threaded fittings	9514
	HW 80/570 G2" Pressure balancer between primary and sec. circuit - 2" M, max. flow rate 8 m ³ /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 drinking water			Code
   	Wilco Star-Z NOVA, 84-1/2" F, 1x230 V, no display, ON/OFF control	10666	
	Grundfos COMFORT UP 15-14B PM pump, 80-1/2" F, 1x230 V, no display, ON/OFF control	12194	
	Grundfos COMFORT UP 15-14BA PM pump, 80-1/2" F, 1x230 V, with display, ON/OFF control and AUTOADAPT	12193	
	Connection set for circulation pump (two 1/2" Fu/F ball valves, two 1/2"M hex nipples)	18998	
High-efficiency circulation pumps for heating systems, solar thermal systems a geothermal systems			Code
 	Regulus RPA 25-8 - 180 - 6/4" M pump, 230 V, ON/OFF control (Δp -c / Δp -v / I, II, III)	21416	
	Wilco Varios Pico STG 25/1-8 - 180 - 6/4" M, 230 V, control ON/OFF (Δp -c / Δp -v / I, II, III) or PWM GT (brine circuit) or PWM ST (solar)	18738	
Pump Unions			Code
     	Union, nickel plated, 6/4"x1" Fu/F incl. gasket	13253	
	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 union nut, butterfly lever, incl. gasket	1"x3/4" Fu/F	18760
	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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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 angled 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" Fu/F	15412
		Ball Valve (union nut x M thread)	3/4" Fu/M
	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
	Ball Valve angled (union nut x M thread)	3/4" Fu/M	18198
Drain valves, 110 °C		Connection	Code
 	Drain valve, 10 bar, red metal handle	1/2" M	4741
	Drain valve, 16 bar, no handle, with cap	1/2" M	15609

Regulus Wmix Anti-Scald Valves, side outlet		
	Knob adjustable, no check valves	Code
	Anti-Scald Valve TVmix, 35-65 °C, 1/2" M, DN 15, $K_{vs}=1,3 \text{ m}^3/\text{h}$	14508
	Anti-Scald Valve TVmix, 35-65 °C, 3/4" M, DN 20, $K_{vs}=1,6 \text{ m}^3/\text{h}$	14509
	Anti-Scald Valve TVmix, 35-65 °C, 1" M, DN 25, $K_{vs}=1,8 \text{ m}^3/\text{h}$	14510
	Anti-Scald Valve TVmix, 35-65 °C, 3/4" F, DN 20, $K_{vs}=1,8 \text{ m}^3/\text{h}$	14512
	Knob adjustable, with check valves	Code
	Anti-Scald Valve TVmix, 35-65 °C, 1/2" M, DN 20, $K_{vs}=1,2 \text{ m}^3/\text{h}$, check valve	14903
	Anti-Scald Valve TVmix, 35-65 °C, 3/4" M, DN 25, $K_{vs}=1,3 \text{ m}^3/\text{h}$, check valve	14904
	Knob adjustable, with check valves and recirculation connection kit	Code
	Anti-Scald Valve TVmix, 35-65 °C, 3/4" M, DN 25, $K_{vs}=1,6 \text{ m}^3/\text{h}$, check valve, recirculation	17602
Thermostatic Mixing Valves for DHW, side outlet		Code
	LK 550-1/2 Thermostatic valve for DHW, 38-65 °C, 1/2", DN 15, $K_{vs}=1.2 \text{ m}^3/\text{h}$	10874
	LK 550-3/4 Thermostatic valve for DHW, 38-65 °C, 3/4", DN 20, $K_{vs}=2.2 \text{ m}^3/\text{h}$	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		
	Knob adjustable, no check valves	Code
	Anti-Scald Valve Wmix-H S20, 35-55 °C, 3/4" M, DN 20, $K_{vs}=1.1 \text{ m}^3/\text{h}$	20426
	Anti-Scald Valve Wmix-H S25, 35-55 °C, 1" M, DN 25, $K_{vs}=1.3 \text{ m}^3/\text{h}$	20427
	Knob adjustable, with check valves and strainers	Code
	Anti-Scald Valve Wmix-H S20, 35-55 °C, 3/4" M, DN 20, $K_{vs}=0.9 \text{ m}^3/\text{h}$ incl. 3 threaded fittings and 1/2" M inlet check valves with strainer	20412
	Anti-Scald Valve Wmix-H S25, 35-55 °C, 1" M, DN 25, $K_{vs}=1.2 \text{ m}^3/\text{h}$ incl. 3 threaded fittings and 3/4" M inlet check valves with strainer	20413
Anti-Scald Valves, outlet in the middle		Code
	MT52HC -Anti-Scald Valve, high flow, 20-70 °C, 5/4" M, DN 32, $K_{vs}=6.1 \text{ m}^3/\text{h}$	7079

Two-way Zone Solenoid Valves, return spring, 2-point control SPST, on/off live, 230 V and 24 V			
	EV251B solenoid valves with 230V coil, terminal, NBR membrane, 0-10 bar, for open and sealed systems		Code
	EV251B 10B Solenoid valve, 3/8" F, DN 10, NC	032U538031	12264
	EV251B 12B Solenoid valve, 1/2" F, DN 15, NC	032U538131	11054
	EV251B 18B Solenoid valve, 3/4" F, DN 20, NC	032U538231	11055
	EV251B 22B Solenoid valve, 1" F, DN 25, NC	032U538331	11056
	EV220 B valve bodies, EPDM membrane, 0.1-20 bar, indirect control, for open systems		Code
	EV220B NC 6B valve body, 3/8" F, DN 6	032U1241	12265
	EV220B NC 10B valve body, 1/2" F, DN 10	032U1251	12266
	EV220 B valve bodies, EPDM membrane, 0.3-16 bar, indirect control		Code
	EV220B NC 15B valve body, 1/2" F, DN 15	032U7115	12267
	EV220B NC 20B valve body, 3/4" F, DN 20	032U7120	12268
	Clip-on coils for EV valves		Code
	BB 230AS Solenoid coil, 230 VAC	018F7351	12269
	BB 024AS Solenoid coil, 24 VAC	018F7358	12270
	Connector for coils - BA, BB a AM - IP 67	042N1256	19064

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

Two-way Zone Ball Valves, bidirectional actuator, 2-point control SPST, on/off live and permanent live, 230 V, PN 16, suitable also for drinking water		Code
	VZK 215-230-1P, 1/2" F, DN 15, 230 V, 30 s, $K_{vs} = 8,5 \text{ m}^3/\text{h}$, NC, auxiliary microswitch	11288
	VZK 220-230-1P, 3/4" F, DN 20, 230 V, 30 s, $K_{vs} = 20 \text{ m}^3/\text{h}$, NC, auxiliary microswitch	10344
	VZK 225-230-1P, 1" F, DN 25, 230 V, 30 s, $K_{vs} = 30 \text{ m}^3/\text{h}$, NC, auxiliary microswitch	11289
Two-way Zone Ball Valves, bidirectional actuator, 2-point control SPST, on/off live and permanent live, 230 V, PN 10, suitable also for drinking water		Code
	VZK R 220-230-1P-60, 1/2" F, DN 20, 230 V, 60 s, $K_{vs}=8,9 \text{ m}^3/\text{h}$, NC	19682
	VZK R 220-230-1P-60, 3/4" F, DN 20, 230 V, 60 s, $K_{vs}=18,7 \text{ m}^3/\text{h}$, NC	19677
	VZK R 220-230-1P-60, 1" F, DN 20, 230 V, 60 s, $K_{vs}=20,0 \text{ m}^3/\text{h}$, NC	19680
	VZK R 225-230-1P-60, 1" F, DN 25, 230 V, 60 s, $K_{vs}=31,6 \text{ m}^3/\text{h}$, NC	19686
	VZK R 225-230-1P-60, 5/4" F, DN 25, 230 V, 60 s, $K_{vs}=34,3 \text{ m}^3/\text{h}$, NC	19689
Two-way Zone Ball Valves, manual control, PN 10, suitable also for drinking water		Code
	VZK M 220, 1/2" F, DN 20, $K_{vs}=8,9 \text{ m}^3/\text{h}$, manual control	20018
	VZK M 220, 3/4" F, DN 20, $K_{vs}=18,7 \text{ m}^3/\text{h}$, manual control	20021
	VZK M 220, 1" F, DN 20, $K_{vs}=20,0 \text{ m}^3/\text{h}$, manual control	20016
	VZK M 225, 1" F, DN 25, $K_{vs}=31,6 \text{ m}^3/\text{h}$, manual control	20023
	VZK M 225, 5/4" F, DN 25, $K_{vs}=34,3 \text{ m}^3/\text{h}$, manual control	20020
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
Two-way Zone Gate Valves, bidirectional actuator, 2-point control SPST, on/off live and permanent live, 230 V, PN 10		Code
	LK 525 Cu 22, DN 20, 230 V, 12 s, with actuator and cable, $K_{vs} = 11 \text{ m}^3/\text{h}$, NC	14896
	LK 525 Cu 28, DN 25, 230 V, 12 s, with actuator and cable, $K_{vs} = 11 \text{ m}^3/\text{h}$, NC	14897
	LK 525 1" M, DN 25, 230V, 12 s, with actuator and cable, $K_{vs} = 11 \text{ m}^3/\text{h}$, NO	12874
	LK 525 5/4" M, DN 32, 230V, 12 s, with actuator and cable, $K_{vs} = 11 \text{ m}^3/\text{h}$, NO	12875
	LK 525 1" M, DN 25, 230V, 12 s, with actuator and cable, $K_{vs} = 11 \text{ m}^3/\text{h}$, NC	16283
	LK 525 5/4" M, DN 32, 230V, 12 s, with actuator and cable, $K_{vs} = 11 \text{ m}^3/\text{h}$, NC	16284
Two-way Zone Valves, return spring, 2-point control SPST, on/off live, switched live, 230 V, PN 10		Code
	SF-15-2-M1, 1/2", female, DN 15, 230 V, auxiliary microswitch, NC	3349
	SF-20-2, 3/4", female, DN 20, 230V, NC	575
	SF-20-2-E, 3/4", male, DN 20, 230V, NC	5784
	SF-20-2-M1, 3/4", female, , DN 20, 230V, auxiliary microswitch, NC	579
	SF-25-2, 1", female, DN 25, 230V, NC	603
	SF-25-2-E, 1", male, DN 25, 230V, NC	3989
	SF-25-2-M1, 1", female, , DN 25, 230V, auxiliary microswitch, NC	614
	SF-25-2-M1, 1", female, DN 25, 230V, auxiliary microswitch, NO	4773
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

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

3-way Zone Ball Valves, opposite location of actuator, bidirectional actuator, 2-point control SPST, on/off live and permanent live, 230 V, PN 16, 110 °C, also for drinking water		Code
	VZK 325-230-1P, 1" F, DN 25, 230 V, 64 s, $K_{vs} = 11 \text{ m}^3/\text{h}$, auxiliary microswitch	11294
3-way Zone Ball Valves, opposite location of actuator, bidirectional actuator, 2-point control SPST, on/off live and permanent live, 230 V, PN 10, 110 °C, suitable also for drinking water		Code
	VZU R 320-230-1P-15, 3/4" F, DN 20, 230 V, 15 s, $K_{vs}=10.5 \text{ m}^3/\text{h}$	20461
	VZU R 320-230-1P-60, 3/4" F, DN 20, 230 V, 60 s, $K_{vs}=10.5 \text{ m}^3/\text{h}$	19986
	VZU R 320-230-1P-15, 1" F, DN 20, 230 V, 15 s, $K_{vs}=10.6 \text{ m}^3/\text{h}$	20017
	VZU R 320-230-1P-60, 1" F, DN 20, 230 V, 60 s, $K_{vs}=10.6 \text{ m}^3/\text{h}$	19982
	VZU R 320-230-1P-15, 5/4" M, DN 20, 230 V, 15 s, $K_{vs}=10.6 \text{ m}^3/\text{h}$	20462
	VZU R 320-230-1P-60, 5/4" M, DN 20, 230 V, 60 s, $K_{vs}=10.6 \text{ m}^3/\text{h}$	19989
3-way Zone Ball Valves, opposite location of actuator, bidirectional actuator, 3-point control SPDT, 1 live closes, 1 live opens, 230 V, PN 10, 110 °C, suitable also for drinking water		Code
	VZU S 320-230-2P-60, 3/4" F, DN 20, 230 V, 60 s, $K_{vs}=10.5 \text{ m}^3/\text{h}$	20614
	VZU S 320-230-2P-60, 1" F, DN 20, 230 V, 60 s, $K_{vs}=10.6 \text{ m}^3/\text{h}$	20613
	VZU S 320-230-2P-60, 5/4" M, DN 20, 230 V, 60 s, $K_{vs}=10.6 \text{ m}^3/\text{h}$	20615
3-way Zone Ball Valves, manual control, PN 10, 110 °C, suitable also for drinking water		Code
	VZU M 320, 3/4" F, DN 20, $K_{vs}=10.5 \text{ m}^3/\text{h}$, manual control	20603
	VZU M 320, 1" F, DN 20, $K_{vs}=10.6 \text{ m}^3/\text{h}$, manual control	20604
	VZU M 320, 5/4" M, DN 20, $K_{vs}=10.6 \text{ m}^3/\text{h}$, manual control	20605
3-way Zone Ball Valves, bidirectional actuator, 2-point control SPST, on/off live and permanent live, 230 V, PN 10, 110 °C, also for drinking water		
	L-bore	Code
	VZK R 320-230-1P-60 L, 3/4" F, DN 20, 230 V, 60 s, $K_{vs}=10.5 \text{ m}^3/\text{h}$, L-bore	19367
	VZK R 320-230-1P-60 L, 1" F, DN 20, 230 V, 60 s, $K_{vs}=10.6 \text{ m}^3/\text{h}$, L-bore	19366
	VZK R 320-230-1P-15 L, 1" F, DN 20, 230 V, 15 s, $K_{vs}=10.6 \text{ m}^3/\text{h}$, L-bore	20022
	VZK R 325-230-1P-60 L, 1" F, DN 25, 230 V, 60 s, $K_{vs}=14.3 \text{ m}^3/\text{h}$, L-bore	13604
	VZK R 325-230-1P-15 L, 1" F, DN 25, 230 V, 15 s, $K_{vs}=14.3 \text{ m}^3/\text{h}$, L-bore	19000
	VZK R 325-230-1P-60 L, 5/4" F, DN 25, 230 V, 60 s, $K_{vs}= 14.3 \text{ m}^3/\text{h}$, L-bore	18671
	VZK R 325-230-1P-15 L, 6/4" M*, DN 25, 230 V, 15 s, $K_{vs}= 14.3 \text{ m}^3/\text{h}$, L-bore	19005
	T-bore	Code
	VZK R 320-230-1P-60 T, 3/4" F, DN 20, 230 V, 60 s, $K_{vs}=10.5/17.8 \text{ m}^3/\text{h}$, T-bore	19189
	VZK R 320-230-1P-60 T, 1" F, DN 20, 230 V, 60 s, $K_{vs}=10.6/19.5 \text{ m}^3/\text{h}$, T-bore	19187
	VZK R 320-230-1P-15 T, 1" F, DN 20, 230 V, 15 s, $K_{vs}=10.6/19.5 \text{ m}^3/\text{h}$, T-bore	20019
	VZK R 325-230-1P-60 T, 1" F, DN 25, 230 V, 60 s, $K_{vs}=14.3/28.3 \text{ m}^3/\text{h}$, T-bore	18550
	VZK R 325-230-1P-15 T, 1" F, DN 25, 230 V, 15 s, $K_{vs}=14.3/28.3 \text{ m}^3/\text{h}$, T-bore	19001
	VZK R 325-230-1P-60 T, 5/4" F, DN 25, 230 V, 60 s, $K_{vs}= 14.3/28.3 \text{ m}^3/\text{h}$, T-bore	18676
	VZK R 325-230-1P-15 T, 6/4" M*, DN 25, 230 V, 15 s, $K_{vs}= 14.3/28.3 \text{ m}^3/\text{h}$, T-bore	19006
	VZK R 325-230-1P-15 T, 6/4" M*, DN 25, 230 V, 15 s, $K_{vs}= 14.3/28.3 \text{ m}^3/\text{h}$, T-bore	19006
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

3-way Zone Ball Valves, bidirectional actuator, 3-point control SPDT, 1 live closes, 1 live opens, 230 V, PN 10, 110 °C, suitable also for drinking water		
 	L-bore	Code
	VZK S 320-230-2P-60 L, 3/4" F, DN 20, 230 V, 60 s, $K_{vs}=10.5 \text{ m}^3/\text{h}$, L-bore	19838
	VZK S 320-230-2P-60 L, 1" F, DN 20, 230 V, 60 s, $K_{vs}=10.6 \text{ m}^3/\text{h}$, L-bore	19835
	VZK S 325-230-2P-60 L, 1" F, DN 25, 230 V, 60 s, $K_{vs}=14.3 \text{ m}^3/\text{h}$, L-bore	11287
	T-bore	Code
	VZK S 320-230-2P-60 T, 3/4" F, DN 20, 230 V, 60 s, $K_{vs}=10.5/17.8 \text{ m}^3/\text{h}$, T-bore	19840
	VZK S 320-230-2P-60 T, 1" F, DN 20, 230 V, 60 s, $K_{vs}=10.6/19.5 \text{ m}^3/\text{h}$, T-bore	19833
	VZK S 325-230-2P-60 T, 1" F, DN 25, 230 V, 60 s, $K_{vs}=14.3/28.3 \text{ m}^3/\text{h}$, T-bore	18675
3-way Zone Ball Valves, manual control, PN 10, 110 °C, suitable also for drinking water		
 	L-bore	Code
	VZK M 320 L, 3/4" F, DN 20, $K_{vs}=10.5 \text{ m}^3/\text{h}$, manual control, L-bore	19841
	VZK M 320 L, 1" F, DN 20, $K_{vs}=10.6 \text{ m}^3/\text{h}$, manual control, L-bore	19832
	VZK M 325 L, 1" F, DN 25, $K_{vs}=14.3 \text{ m}^3/\text{h}$, manual control, L-bore	18860
	VZK M 325 L, 5/4" F, DN 25, $K_{vs}=14.3 \text{ m}^3/\text{h}$, manual control, L-bore	18864
	VZK M 325 L, 6/4" M*, DN 25, $K_{vs}=14.3 \text{ m}^3/\text{h}$, manual control, L-bore	19002
	T-bore	Code
	VZK M 320 T, 3/4" F, DN 20, $K_{vs}=10.5/17.8 \text{ m}^3/\text{h}$, manual control, T-bore	19839
	VZK M 320 T, 1" F, DN 20, $K_{vs}=10.6/19.5 \text{ m}^3/\text{h}$, manual control, T-bore	19834
	VZK M 325 T, 1" F, DN 25, $K_{vs}=14.3/28.3 \text{ m}^3/\text{h}$, manual control, T-bore	18865
	VZK M 325 T, 5/4" F, DN 25, $K_{vs}=14.3/28.3 \text{ m}^3/\text{h}$, manual control, T-bore	18867
	VZK M 325 T, 6/4" M*, DN 25, $K_{vs}=14.3/28.3 \text{ m}^3/\text{h}$, manual control, T-bore	19004
	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
3-way Zone Gate Valves, bidirectional actuator, 2-point control SPST, on/off live and permanent live, 230 V, PN 10, 80 °C		Code
	LK 525 Cu 22, DN 20, 230 V, 8 s, with actuator and cable, $K_{vs}=8 \text{ m}^3/\text{h}$	14883
	LK 525 Cu 28, DN 25, 230 V, 8 s, with actuator and cable, $K_{vs}=8 \text{ m}^3/\text{h}$	14884
	LK 525 1" M, DN 25, 230 V, 8 s, with actuator and cable, $K_{vs}=8 \text{ m}^3/\text{h}$	11284
	LK 525 5/4" M, DN 32, 230 V, 8 s, with actuator and cable, $K_{vs}=8 \text{ m}^3/\text{h}$	11285
	Adapter for LK 525 valve, for actuator max. temp. increase to 120 °C	11278
	Sealing O-ring for Cu 28 pipes	13393
3-way Zone Valves, return spring, on/off live, 230 V and 24 V, PN 10, 110 °C		Code
	SF-15-M1, 1/2", female, DN 15, 230 V, auxiliary microswitch	4170
	SF-20-E, 3/4", male DN 20, 230 V	624
	SF-20-E-M1S, 3/4" M, DN 20, 230 V, auxiliary 2-pole microswitch	6766
	SF-20-M1, 3/4", female, DN 20, 230 V, auxiliary microswitch	958
	SF-20, 3/4", female, DN 20, 24 V	4283
	SF-25, 1", female, DN 25, 230 V	642
	SF-25-E, 1", male, DN 25, 230 V	4223
	SF-25-E-M1, 1", male, DN 25, 230 V, auxiliary microswitch	644
	SF-25-M1, 1", female, DN 25, 230 V, auxiliary microswitch	645
	SF-25-M1S, 1", female, DN 25, 230 V, auxiliary 2-pole microswitch	3628

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

Brass mixing valves		
	LK 840 3-way mixing valves, F connection	Code
	3-way mixing valve, 1/2" F, DN 15, PN10, 110 °C, $K_{vs} = 1.6 \text{ m}^3/\text{h}$, new generation 2.0	16764
	3-way mixing valve, 1/2" F, DN 15, PN10, 110 °C, $K_{vs} = 2.5 \text{ m}^3/\text{h}$	11489
	3-way mixing valve, 3/4" F, DN 20, PN10, 110 °C, $K_{vs} = 4.0 \text{ m}^3/\text{h}$, new generation 2.0	16760
	3-way mixing valve, 3/4" F, DN 20, PN10, 110 °C, $K_{vs} = 6.3 \text{ m}^3/\text{h}$, new generation 2.0	16698
	3-way mixing valve, 1" F, DN 25, PN10, 110 °C, $K_{vs} = 6.3 \text{ m}^3/\text{h}$, new generation 2.0	16758
	3-way mixing valve, 1" F, DN 25, PN10, 110 °C, $K_{vs} = 10 \text{ m}^3/\text{h}$, new generation 2.0	16700
	3-way mixing valve, 5/4" F, DN 32, PN10, 110 °C, $K_{vs} = 16 \text{ m}^3/\text{h}$, new generation 2.0	16693
	3-way mixing valve, 6/4" F, DN 40, PN10, 110 °C, $K_{vs} = 25 \text{ m}^3/\text{h}$, new generation 2.0	16762
	3-way mixing valve, 2" F, DN 50, PN10, 110 °C, $K_{vs} = 40 \text{ m}^3/\text{h}$, new generation 2.0	16697
	LK 840 3-way mixing valves, M connection	Code
	3-way mixing valve, 1" M, DN 25, PN10, 110 °C, $K_{vs} = 4.0 \text{ m}^3/\text{h}$, new generation 2.0	16768
	3-way mixing valve, 1" M, DN 25, PN10, 110 °C, $K_{vs} = 6.3 \text{ m}^3/\text{h}$, new generation 2.0	18898
	3-way mixing valve, 5/4" M, DN 32, PN10, 110 °C, $K_{vs} = 12 \text{ m}^3/\text{h}$, new generation 2.0	18784
	3-way mixing valve, 2" M, DN 50, PN10, 110 °C, $K_{vs} = 25 \text{ m}^3/\text{h}$, new generation 2.0	16759
	LK 841 4-way mixing valves, F connection	Code
	4-way mixing valve, 3/4" F, DN 20, PN10, 110 °C, $K_{vs} = 6.3 \text{ m}^3/\text{h}$, new generation 2.0	16780
	4-way mixing valve, 1" F, DN 25, PN10, 110 °C, $K_{vs} = 10 \text{ m}^3/\text{h}$, new generation 2.0	16694
	4-way mixing valve, 5/4" F, DN 32, PN10, 110 °C, $K_{vs} = 16 \text{ m}^3/\text{h}$, new generation 2.0	16699
	4-way mixing valve, 6/4" F, DN 40, PN10, 110 °C, $K_{vs} = 25 \text{ m}^3/\text{h}$, new generation 2.0	16783
	LK 841 4-way mixing valves, M connection	Code
	4-way mixing valve, 1" M, DN 25, PN10, 110 °C, $K_{vs} = 4.0 \text{ m}^3/\text{h}$, new generation 2.0	16776
	4-way mixing valve, 5/4" M, DN 32, PN10, 110 °C, $K_{vs} = 8.0 \text{ m}^3/\text{h}$	14832
	4-way mixing valve, 5/4" M, DN 32, PN10, 110 °C, $K_{vs} = 12 \text{ m}^3/\text{h}$	14833
	4-way mixing valve, 6/4" M, DN 40, PN10, 110 °C, $K_{vs} = 15 \text{ m}^3/\text{h}$	14834

AVC Actuators for mixing valves – 3-point or 0-10V control		Code
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 60 s, 5 Nm	10875
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 120 s, 5 Nm	9193
	AVC 230 V actuator w. 3-point control, incl. 2m cable, 120 s, 5 Nm, auxiliary microswitch	10878
	AVC 230V actuator w. 3-point control, incl. 2m cable, 240 s, 5 Nm	10876
	AVC 24 V actuator w. 3-point control, incl. 2m cable, 120 s, 5 Nm	11118
	AVC 24 V actuator with 0-10V control, incl. 2m cable, 60-120 s, 5 Nm	14682
	AVC 24 V actuator with 0-10V control, incl. 2m cable, 60-120 s, 10 Nm	10873
ACC Actuators for mixing valves, control to fixed temperature		Code
	ACC30 230V actuator incl. 2m cable, 60 s, 6 Nm, for mixing valve, integrated control to fixed temperature, with one Pt1000 sensor	16101
	ACC40 230V actuator incl. 2m cable, 60 s, 6 Nm, for mixing valve, 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 230V mixing valve actuator, 2m cable, 120 s, 6 Nm, 3 Pt1000 sensors, weather compensated heating system control	16253
	RCD20 Room Unit for AHC40 actuator	19866
Mixing valves - kits		Code
	3-way mixing valve, 1" F, DN 25, with 230V actuator, 120 s, $K_{vs}=6,3 \text{ m}^3/\text{h}$	13230
	3-way mixing valve, 1" F, DN 25, with 230V actuator, 120 s, $K_{vs}=10 \text{ m}^3/\text{h}$ and pump station	CS KK R8 21463
		CS KK W6 18895
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 Regulus 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
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

Thermostatic Heads		Connection	Code
	TH 01 B Thermostatic Head	M30x1,5	17105
	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

Safety valves for heating systems 110 °C max.			
	F/F connections		Opening pressure
			Code
	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
	Safety valve, 1" F	6 bar	15388
		8 bar	18285
		2,5 bar	15396
		3 bar	15397
		4 bar	15398
		6 bar	15399
	M/F connections		Opening pressure
			Code
	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
	Safety valve, 3/4" M/F	8 bar	18284
		10 bar	17853
		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
	F/F connections, reducer		Opening pressure
			Code
	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
	M/F connections, reducer		Opening pressure
			Code
	Safety valve, 1/2"x3/4" M/F	2,5 bar	15379
		3 bar	15380
		4 bar	15381
		6 bar	15382

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Safety Assemblies		PV Opening pressure	Code
	Insulated Safety Assembly – safety valve, air vent valve, 0-4 bar pressure gauge - union nut connection 1" Fu, 1/2" F safety valve	2 bar	15090
		3 bar	15306
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 OV, 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
	Pressure reducing valve 1 to 4 bar, inlet 15 bar max.	3/4" F	661
	Pressure reducing valve 0,5 to 6 bar, inlet 25 bar max.	1" F	15086
Filters		Connection	Code
	FILTERMAG PK Filter with magnet incl. ball valves, suitable for gas boilers	3/4" M/Fu	18215
	Filter with magnet	1" M	17610
	Ball Valve with union nut, to connect filter	1" Fu/F	15412

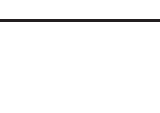
Brass Fittings with cylindric threads and enlarged sealing area			Code
	Hex nipple (male thread)	3/8" M	6972
		1/2" M	6971
3/4" M		6970	
1" M		6969	
5/4" M		6973	
6/4" M		7627	
	Reducing adaptor hex nipple (outer x outer threads)	1/2"x3/8" M	6968
		3/4"x1/2" M	6965
		1"x3/4" M	6967
		5/4"x3/4" M	8270
		5/4"x1" M	6966
		6/4"x1" M	8766
	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)	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
	Reducing hex adaptor (male x female thread) – non hex	6/4"x5/4" M/F	15820
		6/4"x1" M/F	15873
	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
	T-piece (male thread)	1/2" M	15175
		3/4" M	15176
		1" M	15177
	Reducing T-piece (male thread)	3/4"x1/2"x3/4" M	15178
		1"x3/4"x1" M	15179
	T-piece (female thread)	1/2" F	3206
		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, enlarged sealing surface area (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

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

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
	Accessories to Sicurflex	Code
	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
	Gaskets for Sicurflex gas pipes	Code
	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

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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, incl. 4 nuts with lock rings and rim nipple	9916
	Twinway DN 16 stainless-steel tube, 15 m, incl. 4 nuts with lock rings and rim nipple	9619
	Twinway DN 16 stainless-steel tube, 50 m	10564
	Twinway DN 20 stainless-steel tube, 10 m, incl. 4 nuts with lock rings and rim nipple	9917
	Twinway DN 20 stainless-steel tube, 15 m, incl. 4 nuts with lock rings and rim nipple	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, incl. 4 nuts with lock rings and rim nipple	12899
	DN 16 stainless-steel pipe, 20 m, incl. 4 nuts with lock rings and rim nipple	12900
	DN 16 stainless-steel pipe, 30 m, incl. 4 nuts with lock rings and rim nipple	12901
	DN 16 stainless-steel pipe, 50 m	12902
	DN 20 stainless-steel pipe, 10 m, incl. 4 nuts with lock rings and rim nipple	12903
	DN 20 stainless-steel pipe, 20 m, incl. 4 nuts with lock rings and rim nipple	12904
	DN 20 stainless-steel pipe, 30 m, incl. 4 nuts with lock rings and rim nipple	12905
	DN 20 stainless-steel pipe, 50 m	12906
	insulation thickness of 19 mm	Code
	DN 16 stainless-steel pipe, 10 m, incl. 4 nuts with lock rings and rim nipple	12911
	DN 16 stainless-steel pipe, 20 m, incl. 4 nuts with lock rings and rim nipple	12912
	DN 16 stainless-steel pipe, 30 m, incl. 4 nuts with lock rings and rim nipple	12913
	DN 16 stainless-steel pipe, 50 m	12914
	DN 20 stainless-steel pipe, 10 m, incl. 4 nuts with lock rings and rim nipple	12915
	DN 20 stainless-steel pipe, 20 m, incl. 4 nuts with lock rings and rim nipple	12916
	DN 20 stainless-steel pipe, 30 m, incl. 4 nuts with lock rings and rim nipple	12917
	DN 20 stainless-steel pipe, 50 m	12918
Flexible stainless steel tubes (NO INSULATION) for solar appl.		Code
	DN 20 stainless-steel pipe - sold by the meter	14709
	DN 20 stainless-steel pipe - 5 m	16389
	DN 20 stainless-steel pipe - 10 m	16390
	DN 20 stainless-steel pipe - 15 m	16391
Accessories to SOLARFLEX A stainless steel pipes		Code
	Pipe size:	
	DN 16	
	Set of 4 nuts, lock rings, gaskets and rim nipple	9644
	DN 20	
	Set of 4 nuts, lock rings, gaskets and rim nipple	9645
	DN 16	
	Lock rings	8802
	DN 20	
	Lock rings	8803
	DN 16	
	3/4" nut	10708
	DN 20	
	1" nut	10707
	DN 16	
	Rim nipple 3/4" M	6970
	DN 20	
	Rim nipple 1" M	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

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
	Accessories to KOMBIFLEX	Code
	Pipe cutter, DN 8 to DN 20	713
	DN 8 and DN 20 clamp (3/8" + 1")	3659
	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
	Asbestos-free gaskets - 2 mm thick	Code
	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
	Teflon gaskets for solar systems - 2 mm	Code
	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 and 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	
	Reducing hex adaptor (outer x inner threads)	6/4"x5/4" M	8767	
		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	
	Extension (female x male thread), 20 mm long	6/4"x1" M/F	7882	
		6/4"x5/4" M/F	15820	
	Extension (female x male thread), 19 mm long	3/4" F/M	14304	
		1" F/M	14305	
		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	
	T-piece (male thread)	1/2" M	15175	
		3/4" M	15176	
		1" M	15177	
	Reducing T-piece (male thread)	3/4"x1/2"x3/4" M	15178	
		1"x3/4"x1" M	15179	
	T-piece (female thread)	1/2" F	3206	
		3/4" F	7180	
		1" F	15184	
		6/4" F	8757	
Brass Hex Nipples, cylindrical x conical thread, enlarged sealing area (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	

EPDM insulation for heating and solar systems, resistant to UV radiat., DN _a shows the insulation hole diam. i.e. max. outer diam. of pipes (mm)		
	Insulation, 13 mm thick	packed in cardboard
	Insulation DN _a 10	140 m*
	Insulation DN _a 13	120 m*
	Insulation DN _a 16	136 m*
	Insulation DN _a 18 - sold by the meter	30 m
	Insulation DN _a 22 - sold by the meter	22 m
	Insulation DN _a 28	78 m*
	Insulation DN _a 35	58 m*
	Insulation, 19 mm thick	packed in cardboard
	Insulation DN _a 15	56 m*
	Insulation DN _a 18 - sold by the meter	13 m
	Insulation DN _a 18, self-adhesive, cut lengthwise	48 m*
	Insulation DN _a 22 - sold by the meter	11 m
	Insulation DN _a 22, self-adhesive, cut lengthwise	40 m*
	Insulation DN _a 28, sold by the meter	11 m
	Insulation DN _a 28, self-adhesive, cut lengthwise	36 m*
	Insulation DN _a 35	32 m*
	Insulation DN _a 35, self-adhesive, cut lengthwise	32 m*
	Accessories to insulation	Code
	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.

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Cleaning pumps for scale removal from heating systems		Code
	BOSS 22 FI pressure cleaning pump with 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
	BOSS 36 pressure cleaning pump with 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		Code
	Detex PLUS, 10 kg plastic container, for descaling steel+copper	18180
	Detex PLURIMETAL, 10 kg plastic container - for descaling with descaling pumps - for aluminium and stainless steel	18181
	NEUTRAL POWDER neutralization powder, 1 kg plastic container, to remove residual acidity	19416
	NEUTRAL POWDER neutralization powder, 10 kg plastic container, to remove residual acidity	19415
Liquids for heating systems		
    	Heating system protectors	Code
	BP 100 Plus protective fluid for heating systems (1 l bottle)	18186
	BP 700 PLUS protective fluid for heating systems in plastics (1 l bottle)	18184
	Heating system cleaners	Code
	BP 400 PLUS cleaning fluid for heating systems (1 l bottle)	18183
	BP 300 cleaning fluid for heating systems - for new systems (1 l bottle)	18185
	BP 800 PLUS cleaning fluid for heating systems (1 l bottle) - for use with descaling pumps	18948
Boiler cleaning and maintenance		Code
	Metano Therm spray, cleaning of flue gas heat exchangers (400 ml)	1977
	THERMONET bar - soot dissolving agent for solid- and liquid-fuel boilers, 200 g	16633
	ZINKALL spray, for cold zinc-plating (400 ml)	428
Sealants for heating systems		Code
 	BP STOP LEAK sealing agent for heating circuits, 1 l bottle	14624
	EPOSTIX Two-part epoxy putty, 50 g, for sealing leaks and holes in pipes	10281

Sealing yarn and pastes			Code
   	SISEAL - thread sealant	50 g	931
		100 g	436
		250 g	520
	TWINE SEAL sealing yarn, 175 m, for use up to 240 °C		10293
	Hemp 1000 g De luxe, heavy duty packing		10289
Kolgas-uni 400 g sealing paste for threaded and flanged connections, for use with hemp or gaskets		10279	
Antifreeze fluid for Regulus solar collectors			
 	» SOLARTEN SUPER - fluid based on monopropylene glycol with a low freezing point and anti-corrosion properties, for solar thermal systems. 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.		Code
	Solarten Super, 5 l container		10109
	Solarten Super, 10 l container		10110
	Solarten Super, 25 l container		10069
	Solarten Super, 60 l container		10111
	Solarten Super, 200 l container		x 10112
Antifreeze fluids for heating and cooling systems, incl. heat pump primary circuits			Pack. Code
	AFheat Antifreeze heat transfer fluid with anti-corrosion protection. Concentrated. Dilution ratio/freezing point: 1:2 /-39 °C, 1:2,25/-26 °C, 1:3 /-17 °C	5 l	19269
		25 l	19270
		x 200 l	19271
Accessories for handling antifreeze fluid			Code
    	Refractometer - for measurements of antifreeze fluid properties in solar systems		6933
	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 filing pump for filling solar systems from a 25l jerry can, DIN61 connection		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	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	A20011114	4115
	0.25 m Extension, Al/Fe	A2007000	9594
	0.5 m Extension, Al/Al	A20011113	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	A20011114	8515
	90° Elbow, Al/Fe	A2001699	7478
	90° Elbow, Al/Fe, inspection hole	A2001839	8431
	45° Elbow, Al/Fe	A20011289	9092

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.

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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.

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

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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
	A1013002 90° Elbow		2093
	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	K	3213
	BB002052 1 m Extension, inner pipe 1.5 mm thick	K	3404

K - inner pipe 1.5 mm thick

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

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
	RegulusFLEX Chimney Kit: chimney cowl 15836, 5 chimney spacers 7419, screw-on elbow and grommet:	chimney elbow 17815 diam. 80 - 80	17887
		chimney elbow 17814 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.	BB011895	17815
	Screw-on Elbow for chimney liners, 80 diam., reduction to 60	BB011894	17814
	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

RegulusFLEX Flexible Flue Gas System for condensing boilers, diam. 60			Code
	RegulusFLEX Flexible PP Flue Pipe – 20m	BB004241	16114
	RegulusFLEX Flexible PP Flue Pipe – sold by the meter (50 m max.)	BB004243	16058
	RegulusFLEX Chimney Kit (chimney cowl, elbow and chimney spacers)	REG16543	16543
	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
RegulusFLEX Flexible Flue Gas System for condensing boilers, diam. 100			Code
	RegulusFLEX Flexible PP Flue Pipe – 20m	BB005189	16116
	RegulusFLEX Flexible PP Flue Pipe – sold by the meter (50 m max.)	BB005191	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			Code
	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

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, 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.

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

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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.

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
	0.11 m Extension	BB011136	7469
	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

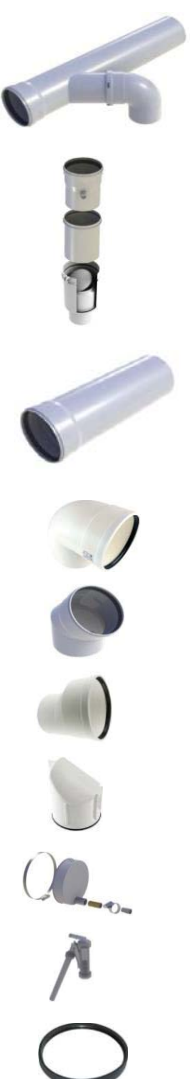
Roof flashings and other common accessories now on the last page.

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.

Cascades diam. 160mm, PP for cond. Boilers			Code
	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
Cascades diam. 200mm, PP for cond. Boilers			Code
	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

Stainless-steel outdoor ducts, 80/125 mm, PP for cond.boilers			Code
	90° elbow diam. 80/125, PPH-A/Inox with 0.5 m extension	APSBB8	15209
	90° Chimney elbow, diam. 80/125, with aspiration, PPH-A/Inox + its support bracket	APWKB8	8645
	Wall bracket (8645) extension, 50-150 mm	APW1B8	8669
	Wall bracket (8645) extension, 150-235 mm	APW2B8	8670
	Wall bracket (8645) extension, 230-330 mm	APW3B8	8694
	Extension for bracket 8668	APVUBU	8649
	Termination diam. 80/125, PPH-A/Inox, for code 8647	APMSB8	8648
	Chimney diam. 81/125, no termination, PPH-A/Inox	APDA48	8647

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
	Plavis 013-C Condensate Pump		16112
	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.	GN10011	10067
	Gasket for upsized flange, 100 mm diam.	GN10019	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
HW TANKS				
ROBC 200	500	1	500	17199
ROBC 300	500	1	500	17199
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	17199
RBC, R2BC 300	500	1	370	17199
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	12707
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
THERMAL STORES W. DHW		
DUO 390/130 x	500	3 ¹⁾
DUO 600/200 x	500	3 ¹⁾
DUO 750/200 x	635	3 ¹⁾
DUO 1000/200 x	700	3 ¹⁾
DUO 1700/200 x	955	3 ¹⁾
HSK 250 PB	500	3 ⁴⁾
HSK 350 K P-B	-	0
HSK 400 x	635	3 ⁴⁾
HSK 600 x	555	3 ¹⁾
HSK 650 PB	755	3 ⁴⁾
HSK 750 x	700	3 ¹⁾
HSK 1000 x	755	3 ¹⁾
HSK 1700 x	955	3 ¹⁾

Thermal store type	Max. heating element length in a connection [mm]	Number of connections for heating elements
THERMAL STORES		
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 ³⁾
PS 600 ES+	700	1 ²⁾
PS 900 ES+	815	1 ²⁾
PS 1100 ES+	815	1 ²⁾
PS 500 E+	680	1
PS 750 E+	755	1
PS 1000 E+	815	1
PS 1100 E+	815	1
PS 1250 E+	955	1
PS 80 Z	585	1
PS 100 IZ	500	2
PS 200 IZ	500	2
PS 200 N+, E	500	5
PS, PS2F 300 N+, E	635	5
PS 400 N+	635	5
PS 500 Nx a PS2F 500 N+	680	5 ³⁾
PS 600 N+	700	5
PS 700 N+	755	5
PS a PS2F 800 N+	815	5
PS 900 N+	815	5
PS 1000 Nx, PS2F 1000 N+	815	5 ³⁾
PS 1100 N+	815	5
PS 1500 Nx, PS2F 1500 N+	955	5 ³⁾
PS 2000 Nx, PS2F 2000 N+	955	5 ³⁾
PSxx 3000 N25	955	5 ³⁾
PSxx 4000 N25	955	5 ³⁾
PSxx 5000 N25	955	5 ³⁾
PS 400 K+	680	5
PS 500 K+	700	5
PS 600 K+	755	5
PS 700 K+	815	5
PS 900 K+	815	5
PS 1100 K+	955	5

¹⁾ P and PV types have an extra 4th connection for a PV element

²⁾ the thermal store has only 4 connections for heat sources

³⁾ when installing heating element to N25 thermal stores, a reduction 2,5" M x 6/4" F is necessary

⁴⁾ 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, 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

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
EcoAir 614M	- kWh/year	29 000 kWh/year	- kW	11 kW
EcoAir 622M	16 000 kWh/year	44 500 kWh/year	6 kW	17 kW
RTC 6i	- kWh/year	13 000 kWh/year	- kW	5 kW
RTC 13e	- kWh/year	26 000 kWh/year	- kW	10 kW
RTC 20e	25 000 kWh/year	47 000 kWh/year	10 kW	18 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

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

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, or determined according to EN ISO 13 790 or EN ISO 52 016-1. The heat loss is usually stated in the technical report of the heating design, or it can be determined according to EN 12 831-1.

If there is another significant appliance present in the building heated by a heat pump (swimming pool, ventilation...) which is not included in the above calculations, contact us via email sales@regulus.eu

For inverter heat pumps which can be installed without increasing the volume of the heating system (thermal store), the installation conditions specified in the instructions must be observed. Our sales representatives will advise you on the design of the heat pump and the selection of accessories.

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