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# PRODUCT CATALOGUE

Regulus

**ENERGY-SAVING SOLUTIONS**

**regulus**.eu

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compared to 2020


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## Regulus RTC Heat Pumps for heating and cooling

| | | Code |
|---|---|---|
| | ***» 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)] | |
| | RTC 6i Heat Pump<br>1-6 kW heating output, 1.5-5.5 kW cooling output, SCOP 4.47, single-phase, energy efficiency class[2)] A+++ | 17735 |
| | RTC 12i Heat Pump<br>2-12 kW heating output, 3-10 kW cooling output, SCOP 3.9, single-phase, energy efficiency class[2)] A++ | 17448 |

## Pump Stations with Controllers for RTC Heat Pumps

| | | Code |
|---|---|---|
| | ***» 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.*** | |
| | CSE IR 14 RTC EN<br>Pump station and IR 14 RTC Controller, menu in English | 18242 |
| | CSE IR 14 RTC FV1F EN<br>Pump station and IR 14 RTC FV Controller, menu in English | 18243 |

## RegulusBOX Indoor Unit

| | | Code |
|---|---|---|
| | ***» Indoor hydraulic unit for heat pumps designed primarily for connecting inverter heat pumps directly to a heating system. Permits connecting a hot water tank (3-way vlave inside). It contains a 2-12 KW electric boiler, a pressure sensor, a circulation pump, IR RegulusBOX smart controller enabling Internet connection. The control display can be removed from the front panel and used as a room unit (2-wire connection, temperature & humidity sensors).*** | |
| | RegulusBOX RTC EN 6 kW, single-phase, menu in English | 18972 |
| | RegulusBOX RTC EN 12 kW, three-phase, menu in English | 18930 |

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.

## EcoAir 600M Air Source 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 compressor [1]. The heat pump has obtained HP KEYMARK certificate.***

| | Code |
|---|---|
| EcoAir 614M Heat Pump<br>heat output 3 - 13 kW, SCOP 4.9, three-phase, en.eff.class[2] A+++ | 17156 |
| EcoAir 622M Heat Pump<br>heat output 4 - 24 kW, SCOP 4.9, three-phase, en.eff.class[2] A+++ | 17157 |
| EcoAir 510M Heat Pump<br>heat output 1 - 10 kW, SCOP 4.4, single-phase, en.eff.class[2] A++ | 15676 |

## Pump Stations with controllers for CTC Heat Pumps

***» 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<br>Pump station and IR 14 CTC controller, menu in English | 18923 |
| CSE IR 14 CTC FV1F EN<br>Pump station and IR 14 FV1F CTC controller, menu in English | 18924 |
| CSE IR 14 CTC FV3F EN<br>Pump station and IR 14 FV3F CTC controller, menu in English | 18926 |
| CSE IR 12 CTC EN<br>Pump station and IR 12 CTC controller, menu in English | 17790 |
| CSE IR 12 CTC FV1F EN<br>Pump station and IR 12 FV1F CTC controller, menu in English | 17791 |
| CSE IR 12 CTC FV3F EN<br>Pump station and IR 12 FV3F CTC controller, menu in English | 17792 |

## RegulusBOX Indoor Unit

***» Indoor hydraulic unit for heat pumps designed primarily for connecting inverter heat pumps directly to a heating system. Permits connecting a hot water tank (3-way vlave inside). It contains a 2-12 KW electric boiler, a pressure sensor, a circulation pump, IR RegulusBOX smart controller enabling Internet connection. The control display can be removed from the front panel and used as a room unit (2-wire connection, temperature & humidity sensors).***

| | Code |
|---|---|
| RegulusBOX CTC EN 6 kW, single-phase, menu in English | 18974 |
| RegulusBOX CTC EN 12 kW, three-phase, menu in English | 18928 |

## Multi-energy Thermal Store

***» An indoor Multi-energy Thermal Store. It contains a complete domestic boiler room in a neat mantle - a controller for both the heat pump and house heating, a tank for continuous DHW heating, electric boiler 0,5-12 kW, circulation pumps.***

| | Code |
|---|---|
| EcoZenith i350 Multi-energy Thermal Store<br>- for air-to-water inverter heat pumps, 500M and 600M series | 17192 |

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.

## EcoAir 400 Air Source 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 compressor [1] . The heat pump has obtained HP KEYMARK certificate.*** | **Code** |
|---|---|
| EcoAir 406 Heat Pump<br>heat output of 6.2 kW at A7/W35, SCOP 3,85, three-phase, en.eff.class[2] A++ | 13243 |
| EcoAir 408 Heat Pump<br>heat output of 7.8 kW at A7/W35, SCOP 3,92, three-phase, en.eff.class[2] A++ | 13244 |
| EcoAir 410 Heat Pump<br>heat output of 11.5 kW at A7/W35, SCOP 3,92, three-phase, en.eff.class[2] A++ | 12994 |
| EcoAir 415 Heat Pump<br>heat output of 16.2 kW at A7/W35, SCOP 3,76, three-phase, en.eff.class[2] A++ | 12995 |
| EcoAir 420 Heat Pump<br>heat output of 17.5 kW at A7/W35, SCOP 3,71, three-phase, en.eff.class[2] A+ | 12848 |

## Pump Stations with controllers for CTC Heat Pumps

| ***» 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<br>Pump station and IR 14 CTC controller, menu in English | 18923 |
| CSE IR 12 CTC EN<br>Pump station and IR 12 CTC controller, menu in English | 17790 |

## Multi-energy Thermal Store

| ***» An indoor Multi-energy Thermal Store made in Sweden. It contains a complete domestic boiler room in a neat mantle - a controller for both the heat pump and house heating, a tank for continuous DHW heating, electric boiler 0,3-9 kW, circulation pumps.*** | **Code** |
|---|---|
| EcoZenith i250 Multi-energy Thermal Store<br>- for EcoAir 406-410 heat pumps | 13241 |

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.

## EcoPart 400 Ground Source 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 compressor [1] . The heat pump has obtained HP KEYMARK certificate.*** | **Code** |
| | EcoPart 406 Heat Pump<br>heat output of 5.9 kW at B0/W35, SCOP 4,70, 3-phase, en.eff.class[2] A+++ | 12647 |
| | EcoPart 408 Heat Pump<br>heat output of 8.2 kW at B0/W35, SCOP 4,70, 3-phase, en.eff.class[2] A+++ | 12648 |
| | EcoPart 410 Heat Pump<br>heat output of 10 kW at B0/W35, SCOP 4,70, 3-phase, en.eff.class[2] A+++ | 12649 |
| | EcoPart 412 Heat Pump<br>heat output of 11.8 kW at B0/W35, SCOP 4,80, 3-phase, en.eff.class[2] A++ | 12650 |
| | EcoPart 414 Heat Pump (incl. heating water circulation pump)<br>heat output of 14.5 kW at B0/W35, SCOP 4,60, 3-phase, en.eff.class[2] A++ | 12651 |
| | EcoPart 417 Heat Pump (incl. heating water circulation pump)<br>heat output of 16.76 kW at B0/W35, SCOP 4,70, 3-phase, en.eff.class[2] A+++ | 12652 |
| | EcoPart 435 Heat Pump (incl. heating water circulation pump)<br>heat output of 32.5 kW at B0/W35, SCOP 4,70, 3-phase, en.eff.class[2] A+++ x | 15903 |

## 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<br>- heat output of 2.5-12 kW, SCOP 5.5, 3-phase, en.eff.class[2] A+++ | 18259 |
| | EcoPart 616M Inverter Heat Pump<br>- heat output of 4-16 kW, SCOP 5.5, 3-phase, en.eff.class[2] A+++ | 18290 |

## Pump Stations with controllers for CTC Heat Pumps

| | | |
|---|---|---|
| | ***» 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<br>Pump station and IR 14 CTC controller, menu in English | 18923 |
| | CSE IR 14 CTC FV3F EN<br>Pump station and IR 14 FV3F CTC controller, menu in English | 18926 |
| | CSE IR 12 CTC EN<br>Pump station and IR 12 CTC controller, menu in English | 17790 |
| | CSE IR 12 CTC FV3F EN<br>Pump station and IR 12 FV3F CTC controller, menu in English | 17792 |

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.

x - upon order

| EcoHeat 400 Ground Source on/off Heat Pumps with a thermal store | | |
|---|---|---|
| | ***» Heat pump with a multi-energy thermal store. Heat pump with max. flow temperature 65 °C, high COP and a very low noise level. The thermal store contains a complete boiler room in its elegant case – a thermal store with DHW, electric backup heating, actuated mixing valve for heating water, ready to connect to a solar system, hydronic fireplace or other heat sources. Integrated electronic controller with a color touch screen. Up to 10 years warranty on compressor [1] .*** | **Code** |
| | EcoHeat 406 Heat Pump<br>heat output of 5.9 kW at B0/W35 + el. boiler 0,3-9 kW, three-phase, en.eff.class[2] A++ | 13441 |
| | EcoHeat 408 Heat Pump<br>heat output of 8.2 kW at B0/W35 + el. boiler 0,3-9 kW, three-phase, en.eff.class[2] A++ | 13442 |
| | EcoHeat 410 Heat Pump<br>heat output of 10 kW at B0/W35 + el. boiler 0,3-9 kW, three-phase, en.eff.class[2] A++ | 13443 |
| | EcoHeat 412 Heat Pump<br>heat output of 11.8 kW at B0/W35 + el. boiler 0,3-9 kW, three-phase, en.eff.class[2] A++ | 13444 |

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 Multi-energy Thermal Stores | | | Code |
|---|---|---|---|
| | Display for EcoZenith/EcoHeat Multi-energy Thermal Store, Internet access and remote control possible | for EcoZenith i250 | 18917 |
| | | for EcoZenith i350 | 18918 |
| | | for EcoHeat 400 | 18919 |
| | Wireless Room Unit for EcoHeat / EcoZenith, incl. aerial, connection module and cable | | 13944 |
| | Additional Wireless Room Unit for EcoHeat / EcoZenith | | 13945 |
| | Room Sensor for EcoHeat / EcoZenith | | 9752 |
| | Temperature Sensor with 2.5m cable for EcoHeat / EcoZenith | | 9583 |
| | Solar module for EcoHeat / EcoZenith | | 12622 |

| Accessories to RegulusBOX 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 |

More accessories for indoor units can be found in the Controllers section.

| | Accessories to heat pumps | | Code |
|---|---|---|---|
| | CSE TC W iPWM MFB<br>Pump Station for a heat pump - for heat pumps in series. Includes a pump, filter w. magnet, thermometer, insulation. | | 17868 |
| | In Line Heater<br>In line heater contains a safety valve, thermostat and wall mount brackets. An ETT-A electric heating element of output up to 7.5 kW can be installed into the in line heater. | | 16166 |
| | Module to connect a heat pump with master controller<br>– Czech menu, Ethernet port, slot for SD memory card. Power supply unit and 8GB SD card included. | | 15955 |
| | 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 |
| | Heating Cable for EcoAir total length:<br>(non-heating end always 1 m) | 3,5 m | 16168 |
| | | 5 m | 18104 |
| | Heating Cable for RTC, total length:<br>(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<br>- 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<br>- for CTC EcoAir 410-420 and 622M, on a thermally insulated outer wall | | 18406 |
| | Compensator for increased heat exchanger protection against freezing DN25, 1" Fu/M, incl. gaskets | | 16757 |
| | Pipe fitting, Cu 28 x 1" M | | 13391 |
| | Pipe fitting, Cu 28 x 5/4" M | | 17090 |
| | Pipe fitting, Cu 28 x Cu 28 | | 13394 |
| | Elbow, Cu28 x 1" M | | 15985 |
| | Elbow, Cu 28 x 5/4" M | | 17091 |
| | Elbow, Cu28 x Cu28 | | 16437 |
| | Sealing O-ring for Cu 28 pipes | | 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 | 500 mm | 16896 |
| | | 700 mm | 16897 |
| | | 1000 mm | 16898 |
| | Braided Hose, 5/4" F x 5/4" M | 500 mm | 16899 |
| | | 700 mm | 16900 |
| | | 1000 mm | 16901 |
| | Nut Gasket, 1" | | 9980 |
| | Nut Gasket, 5/4" | | 9981 |

| KPS1 flat plate solar collector - harp type absorber, 7 year warranty | Code |
|---|---|
| KPS1 Solar collector<br>collector area 2.11 sqm, output 1481 W at 1000 W/m$^2$ irradiance,<br><br>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 and KTU collector array<br>(G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath) | 7710 |
| Mount kit for 1 KPS1 solar collector<br>*(for 4 anchors or 2 supports+1 strut) | 12178 |
| Mount and interconnection kit for 2 KPS1 collectors<br>*(for 6 anchors or 3 supports+1 strut) | 12179 |
| Mount and interconnection kit for 3 KPS1 collectors<br>*(for 8 anchors or 4 supports+1 strut) | 12180 |
| Mount and interconnection kit for 4 KPS1 collectors<br>*(for 10 anchors or 5 supports+1 strut) | 12181 |
| Mount and interconnection kit for 5 KPS1 collectors<br>*(for 10 anchors or 5 supports+1 strut) | 12182 |
| Extension kit for fixing and interconnecting 1 KPS1 solar collector<br>*(for 4 anchors or 2 supports+1 strut) | 12183 |

| KPS11 flat plate solar collector - harp type absorber, 7 year warranty | Code |
|---|---|
| KPS11 Solar collector<br>collector area 2.52 sqm, output 1802 W at 1000 W/m$^2$ irradiance,<br><br>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 and KTU collector array<br>(G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath) | 7710 |
| Mount kit for 1 KPS11 solar collector<br>*(for 4 anchors or 2 supports+1 strut) | 12184 |
| Mount and interconnection kit for 2 KPS11 collectors<br>*(for 6 anchors or 3 supports+1 strut) | 12185 |
| Mount and interconnection kit for 3 KPS11 collectors<br>*(for 8 anchors or 4 supports+1 strut) | 12186 |
| Mount and interconnection kit for 4 KPS11 collectors<br>*(for 10 anchors or 5 supports+1 strut) | 12187 |
| Extension kit for fixing and interconnecting 1 KPS11 Solar Collector<br>*(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<br>collector area 2.52 sqm, 1816 W output at 1000 W/m$^2$ irradiance,<br><br>for landscape/portrait installation, 215x117x8 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,<br>BAFA approved, Solar Keymark certified | 10336 |

| Mount kits for fixing and connecting KPG1 solar collectors | Code |
|---|---|
| Connection kit for KPS, KPG1 and KTU collector array<br>(G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath) | 7710 |
| Mount kit for 1 KPG1 solar collector<br>*(for 4 anchors or 2 supports+1 strut) | 10538 |
| Mount and interconnection kit for 2 KPG1 collectors<br>*(for 6 anchors or 3 supports+1 strut) | 10539 |
| Mount and interconnection kit for 3 KPG1 collectors<br>*(for 8 anchors or 4 supports+1 strut) | 10540 |
| Mount and interconnection kit for 4 KPG1 collectors<br>*(for 10 anchors or 5 supports+1 strut) | 10541 |
| Mount and interconnection kit for 5 KPG1 collectors<br>*(for 12 anchors or 6 supports+1 strut) | 14067 |
| Extension kit for fixing and interconnecting 1 KPG1 Solar Collector<br>*(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<br>(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<br>*(for 4 anchors or 2 supports+1 strut) | 10700 |

| Landscape KPG1H flat plate solar collectors, double harp type absorber | Code |
|---|---|
| KPG1H Solar collector<br>collector area 2.52 sqm, 1816 W output at 1000 W/m$^2$ irradiance,<br><br>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<br>(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<br>*(for 4 anchors or 2 supports+1 strut) | 10700 |
| Mount and interconn. kit for installation of 2 KPG1H<br>*(for 6 anchors or 3 supports+1 strut) | 14517 |
| Extension kit for installation and connection of 1 KPG1H solar coll.<br>*(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.**

| KPI flat plate solar collector for in-roof installation - 7 year warranty | | Code |
|---|---|---|
| | KPI1 DC Solar collector<br>collector area 2.52 sqm, 1808 W output at 1000 W/m$^2$ irradiance,<br><br>for portrait installation, 206x122 x10 cm, fluid volume 1.7 l,wooden frame, solar glass, double harp type aluminum absorber with TiNOx highly selective surface, connection with 2 copper pipes 22 mm | 11237 |

| Mount kits for fixing and connecting KPI1 solar collectors | Code |
|---|---|
| Connection kit for one KPI1 collector field (G3/4" M inlet and outlet) | 11374 |
| In-roof mount kit for 1 KPI1 solar collector | 11335 |
| In-roof mount kit for 2 KPI1 solar collectors | 11329 |
| In-roof mount kit for 3 KPI1 solar collectors | 11336 |
| In-roof mount kit for 4 KPI1 solar collectors | 11337 |
| In-roof mount kit for 2 (2x1) KPI1 solar collectors in 2 rows | 11338 |
| In-roof mount kit for 4 (2x2) KPI1 solar collectors in 2 rows | 11339 |
| In-roof mount kit for 6 (2x3) KPI1 solar collectors in 2 rows | 11340 |

## Solar thermosyphon systems

| TSN - tank above the collector | Code |
|---|---|
| TSN160/2,1 thermosyphon system,<br>complete solar thermosyphon system for outdoor use, with enameled tank 160 l above the collector and one solar collector 2.09 sqm with TiNOx full plate absorber. | 11126 |
| TSN200/2,5 thermosyphon system,<br>complete solar thermosyphon system for outdoor use, with enameled tank 200 l above the collector and one solar collector 2.5 sqm with TiNOx full plate absorber. | 10637 |
| TSN300/4,2 thermosyphon system,<br>complete solar thermosyphon system for outdoor use, with enameled tank 300 l above the collectors and two solar collectors 2.09 sqm with TiNOx full plate absorber. | 11127 |

| TSD - tank behind the collector | Code |
|---|---|
| TSD160/2,1 thermosyphon system,<br>complete solar thermosyphon system for outdoor use, with enameled tank 160 l behind the collector and one solar collector 2.09 sqm with TiNOx full plate absorber. | 10639 |
| TSD200/2,5 thermosyphon system,<br>complete solar thermosyphon system for outdoor use, with enameled tank 200 l behind the collector and one solar collector 2.5 sqm with TiNOx full plate absorber. | 11128 |
| TSD300/4,2 thermosyphon system,<br>complete solar thermosyphon system for outdoor use, with enameled tank 300 l behind the collectors and two solar collectors 2.09 sqm with TiNOx full plate absorber. | 12686 |

| Accessories to thermosyphon systems | | Code |
|---|---|---|
| STV1-95 R Thermostatic solar valve 95 °C,<br>protects sanitary water tank of thermosyphonic system against overheating. | | 10846 |
| STV1-115 R Thermostatic solar valve 115 °C,<br>protects sanitary water tank of thermosyphonic system against overheating. | | 11165 |
| SZV1 3/4" MF solar non return valve,<br>for t.s. systems with sanitary water tank behind the collector. In TSD sets included. | | 10663 |
| 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 |
| Expansion vessel<br>Stainless steel expansion vessel is suggested for high temperature working conditions. | | 15453 |

| | Evacuated tube solar collectors - 7 year warranty | Code |
|---|---|---|
| | KTU 10 solar collector<br>collector area 1.81 sqm, 727 W output at 1000 W/m$^2$ irradiance,<br>for portrait installation,197x92x14 cm, 10 U-pipes, fluid volume 1.7 l, silver frame, borosilicate glass,<br>connection with 4 copper pipes 22 mm | 7126 |
| | KTU 15 solar collector<br>collector area 2.66 sqm, 1090 W output at 1000 W/m$^2$ irradiance,<br>for portrait installation,197x135x14 cm, 15 U-pipes, fluid volume 2.4 l, silver frame, borosilicate glass,<br>connection with 4 copper pipes 22 mm | 7127 |
| | **Evacuated tube solar collectors with reflective sheet - 7 year warranty** | **Code** |
| | KTU 6R2 solar collector<br>collector area 1.81 sqm, 1012 W output at 1000 W/m$^2$ irradiance,<br>for portrait installation, 197x92x14 cm, 6 U-pipes with highly reflective sheet, fluid volume 0.92 l, silver frame, borosilicate glass, connection with 4 copper pipes 22 mm | 7343 |
| | KTU 9R2 solar collector<br>collector area 2.66 sqm, 1522 W output at 1000 W/m$^2$ irradiance,<br>for portrait installation, 197x135x14 cm, 9 U-pipes with highly reflective sheet, fluid volume 1.37 l, silver frame, borosilicate glass, connection with 4 copper pipes 22 mm | 7342 |
| | **Mount kits for fixing and connecting KTU 10 and KTU 6R2 solar collectors** | **Code** |
| | Connection kit for KPS, KPG1 and KTU collector array<br>(G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath) | 7710 |
| | Mount kit for 1 KTU 10 and 6R2 solar collector<br>**(for 4 anchors or 2 supports + 1 strut) | 7415 |
| | Mount and interconnection kit for 2 KTU 10 and 6R2 collectors<br>**(for 6 anchors or 3 supports + 1 strut) | 7241 |
| | Mount and interconnection kit for 3 KTU 10 and 6R2 collectors<br>**(for 8 anchors or 4 supports + 1 strut) | 7242 |
| | Mount and interconnection kit for 4 KTU 10 and 6R2 collectors<br>**(for 10 anchors or 5 supports + 1 strut) | 7243 |
| | Mount and interconnection kit for 5 KTU 10 and 6R2 collectors<br>**(for 10 anchors or 5 supports +1 strut) | 7244 |
| | Extension kit for fixing and interconnecting 1 KTU 10 and 6R2 Solar Coll.<br>*(for 4 anchors or 2 supports+1 strut) | 11991 |
| | **Mount kits for fixing and connecting KTU 15 and KTU 9R2 solar collectors** | **Code** |
| | Connection kit for KPS, KPG1 and KTU collector array<br>(G3/4" M inlet and outlet, 2 plugs, G3/8"F for air vent, sensor sheath) | 7710 |
| | Mount kit for 1 KTU 15 and 9R2 solar collector<br>*(for 4 anchors or 2 supports + 1 strut) | 7414 |
| | Mount and interconnection kit for 2 KTU 15 and 9R2 collectors<br>*(for 6 anchors or 3 supports + 1 strut) | 7245 |
| | Mount and interconnection kit for 3 KTU 15 and 9R2 collectors<br>*(for 8 anchors or 4 supports + 1 strut) | 7246 |
| | Mount and interconnection kit for 4 KTU 15 and 9R2 collectors<br>*(for 10 anchors or 5 supports + 1 strut) | 7247 |
| | Extension kit for fixing and interconnecting 1 KTU 15 and 9R2 Solar Collector<br>*(for 4 anchors or 2 supports+1 strut) | 11990 |

*** 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 |

**x** - on order

| | 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 |
| | M8x18 stainless-steel bolt for KTU | 7259 |
| | 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 |
| | Washer for hanging KTU solar collector | 7255 |
| | Roof bolt gasket | 8891 |
| | 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<br>(with enlarged sealing area at the M thread) | 13695 |
| | 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 |

| | 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 |
| | Exp. vessel bracket | 12174 |
| | Stainless-steel connecting pipe 2x 3/4"F - 0.5 m | 9156 |

**x - on order**

| | 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 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 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 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 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 concumers, permitting flowmeter connection for heat measurement, with 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 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 on/off live and permanent live el. connection (VZK and LK zone valves) | 11685 |

| RegulusSOL Single-line Solar Pump Stations with controller SRS1 T | | Code |
|---|---|---|
| | | |
| CSE SOL W SRS1 T pump station<br>with a Wilo PARA ST 25/7 iPWM2 pump,<br>2 sensors, electronic flow rate measurement 2-20 l/min.<br>Power cord for 230 V socket, 3 m long. | G 3/4" M | 17726 |
| | G 1" M | 17902 |
| | Cu 18 | 18117 |
| | Cu 22 | 17903 |
| | Cu 28 | 17904 |
| CSE SOL G SRS1 T pump station<br>with a Grundfos UPM3 Hybrid 7m pump,<br>2 sensors, mechanical flowmeter.<br>Power cord for 230 V socket, 3 m long. | 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<br>with socket for el. heating element | | |
|---|---|---|
| ***heating element controlled by a heating controller*** | | **Code** |
| | | |
| CSE SOL W SRS1 T-E pump station<br>with a Wilo PARA ST 25/7 iPWM2 pump,<br>for an ETT-N el. heating element,<br>3 sensors, electronic flow rate measurement 2-20 l/min.<br>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<br>with a Grundfos UPM3 Hybrid 7m pump,<br>for an ETT-N el. heating element,<br>3 sensors, mechanical flowmeter.<br>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 controlled by a heating controller and blocked by Ripple control*** | | **Code** |
| | | |
| CSE SOL W SRS1 T-E HDO pump station<br>with a Wilo PARA ST 25/7 iPWM2 pump,<br>for an ETT-N el. heating element,<br>3 sensors, electronic flow rate measurement 2-20 l/min.<br>Power cord for 230 V socket, 3 m long.<br>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<br>with a Grundfos UPM3 Hybrid 7m pump,<br>for an ETT-N el. heating element,<br>3 sensors, mechanical flowmeter.<br>Power cord for 230 V socket, 3 m long.<br>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 |
| | | |
| 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<br>with potential-free socket | | Code |
|---|---|---|
| | | |
| CSE SOL W SRS1 T-K pump station<br>with a Wilo PARA ST 25/7 iPWM2 pump,<br>for switching an aux. heat source via a potential-free contact,<br>3 sensors, electronic flow rate measurement 2-20 l/min.<br>Power cord for 230 V socket, 3 m long and a cable for boiler 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<br>with a Grundfos UPM3 Hybrid 7m pump,<br>for switching an aux. heat source via a potential-free contact,<br>3 sensors, mechanical flowmeter. Power cord for 230 V socket,<br>3 m long and a cable for boiler switching. | 2-12 l/min, G 3/4" M | 18971 |
| | 8-28 l/min, G 1" M | 18966 |

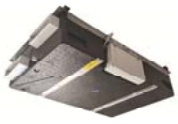
| | RegulusSOL Single-line Solar Pump Stations without controller | | Code |
|---|---|---|---|
| | CSE SOL W P pump station<br>with a Wilo PARA ST 25/7 iPWM2 pump,<br>for PWM controlled controllers,<br>mechanical flowmeter.<br>Power cord for 230 V socket, 3 m long. | 2-12 l/min G 3/4" M | 17155 |
| | | 8-28 l/min G 1" M | 17325 |
| | CSE SOL G P pump station<br>with a Grundfos UPM3 Hybrid 7m pump<br>for controllers with PWM control or 230V switching,<br>mechanical flowmeter.<br>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 |
| | S1 Solar 1 pump station<br>with a Grundfos UPM3 Hybrid 7m pump<br>for controllers with PWM control or 230V switching,<br>mechanical flowmeter. | 2-12 l/min G 3/4" M | 14861 |
| | | 8-28 l/min G 1"M | 14865 |
| | PWM module (only for PWM control by IR 12 controllers) | | 17838 |
| | **Twin-Line Pump Station with SRS2 TE Controller<br>permitting switching an aux. heat source and a circulation pump** | | **Code** |
| | S2 SRS2 TE Pump Station<br>with a Wilo Yonos Para ST 25/7 pump,<br>3 sensors, air separator,<br>mechanical flowmeter.<br>Power cord for 230 V socket, 1.5 m long. | 2-12 l/min, G 3/4" M | 15045 |
| | **Twin-Line Pump Stations with SRS3 E Controller<br>e.g. for two solar consumers or two collector arrays** | | **Code** |
| | S2 SRS3 E pump station<br>with a Wilo Yonos Para ST 25/7 pump,<br>3 sensors, air separator,<br>mechanical flowmeter.<br>Power cord for 230 V socket, 1.5 m long. | 2-12 l/min, G 3/4" M | 14860 |
| | | 2-12 l/min, Cu 22x1 | 14872 |
| | **Twin-Line Pump Station with SRS6 EP Controller<br>e.g. for three solar consumers or two collector arrays** | | **Code** |
| | S2 SRS6 EP pump station<br>with a Wilo Yonos Para ST 25/8 iPWM2 pump,<br>3 sensors, air separator,<br>VFS electronic flowmeter (enables exact heat measurement).<br>Power cord for 230 V socket, 1.5 m long. | 2-40 l/min, G 1" M | 14875 |
| | **Twin-Line Pump Stations without controller** | | **Code** |
| | S2 Solar 3 pump station<br>with a Grundfos UPM3 Hybrid 7m pump<br>for controllers with PWM control or 230V switching,<br>air separator, mechanical flowmeter. | 2-12 l/min G 3/4" M | 14866 |
| | | 8-28 l/min G 1"M | 14867 |
| | S2 Solar 2 pump station<br>with a Stratos Para 25/1-8 pump,<br>for controllers with 0-10 V control or 230V switching,<br>with a SSM error output and a mechanical flowmeter.<br>Suitable for large solar thermal systems. | 20-70 l/min, G 6/4" M | 14868 |
| | **Accessories to connect a safety valve pipe** | | **Code** |
| | Straight Compression Fitting for Cu22 pipe | | 7629 |
| | Compression fitting adaptor, Cu 22 x G 3/4" M<br>(with enlarged sealing area at the M thread) | | 13695 |

| | Antifreeze fluid for Regulus solar collectors | | |
|---|---|---|---|
| | » **SOLARTEN SUPER is a fluid based on mono propylene glycol. Extended warranty for Regulus flat plate collectors is valid only when this fluid is used.** | | **Code** |
| | Solarten super, 5 l packaging | | 10109 |
| | Solarten super, 10 l packaging | | 10110 |
| | Solarten super, 25 l packaging | | 10069 |
| | Solarten super, 60 l packaging | | 10111 |
| | Solarten super, 200 l packaging | x | 10112 |
| | » **SOLARTEN HT is a fluid based on heavy glycols with a low freezing point for thermally highly stressed solar thermal systems. It must not be mixed with Solarten Super fluid. Extended warranty for Regulus evacuated-tube collectors is valid only when this fluid is used.** | | **Code** |
| | Solarten HT, 5 l packaging | | 14951 |
| | Solarten HT, 10 l packaging | | 14095 |
| | Solarten HT, 25 l packaging | | 14096 |
| | Solarten HT, 60 l packaging | | 14952 |
| | Solarten HT, 200 l packaging | x | 14953 |
| | **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<br>to fill fluid into solar thermal systems and cleaning/protective chemicals to heating systems | | 15054 |
| | Electric filing 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.<br>Max. volume flow 60 l/min., max. working pressure 5 bar | | 9561 |

**x - on order**

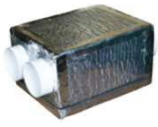
| | | | |
|---|---|---|---|
| | **SOLARFLEX A - DUO, pre-insulated twinway stainless-steel tubes with cable in EPDM insulation, for solar systems with insulation surface protection only** | | |
| | ***insulation thickness of 13 mm*** | | **Code** |
| | Twinway DN 16 stainless-steel tube, 10 m, incl. 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 16 - sold by the meter | | 14701 |
| | Stainless-steel pipe, DN 16 - 5m | | 16386 |
| | Stainless-steel pipe, DN 16 - 10 m | | 16387 |
| | Stainless-steel pipe, DN 16 - 15 m | | 16388 |
| | 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:** | **Code** |
| | Set of 4 nuts, lock rings, gaskets and rim nipple | DN 16 | 9644 |
| | | DN 20 | 9645 |
| | Lock rings | DN 16 | 8802 |
| | | DN 20 | 8803 |
| | 3/4" nut | DN 16 | 8799 |
| | 1" nut | DN 20 | 8800 |
| | 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 Kinetic Advance S - Central HRV unit, incl. integrated control unit with touch screen, humidistat, integrated summer by-pass, 125 mm spigot diam., max. ventilation capacity 414 $m^3$/h | 16487 |
| | Sentinel Kinetic Advance S ENT - variant with enthalpy heat exchanger, incl. integrated control unit with touch screen, integrated humidistat & summer by-pass, 125 mm spigot diam., max. ventilation capacity 414 $m^3$/h | 17601 |
| | Sentinel Kinetic Advance SX - Central HRV unit, incl. integrated control unit with touch screen, humidistat, integrated summer by-pass, WiFi module, air flowrate sensors permitting precise adjustment, 125 mm spigot diam., max. ventilation capacity 414 $m^3$/h | 16488 |

| Central Heat Recovery Ventilation Units - horizontal | | | Code |
|---|---|---|---|
| | HR 100R - 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 |
| | HR 100Rs - 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 |
| | Sentinel Totus$^2$ D-ERV MINI - Central HRV unit for large buildings, incl. integrated control unit, summer by-pass, frost protection, 250 mm spigot diam., max. ventilation capacity 756 $m^3$/h | x | 12234 |
| | Sentinel Totus$^2$ D-ERV MIDI - Central HRV unit for large buildings, incl. integrated control unit, summer by-pass, frost protection, rectangular spigots (400x250 mm), ventilation capacity 1332 $m^3$/h | x | 12236 |
| | Sentinel Totus$^2$ D-ERV MAXI - Central HRV unit for large buildings, incl. integrated control unit, summer by-pass, frost protection, 400 mm spigot diam., max. ventilation capacity 2124 $m^3$/h | x | 12238 |

**x - upon order**

| Local Heat Recovery Ventilation Units | | Code |
|---|---|---|
| | HR 30W - for wall thickness up to 280 mm<br>Single-room HRV unit | 6954 |
| | HR 100W - for wall thickness up to 280 mm<br>Single-room HRV unit | 6955 |
| | EXT 100 - for walls 280-500 mm thick<br>Extension for HR30W and HR100W HRV units | 6956 |

| Accessories to HRV units | | Code |
|---|---|---|
| | Remote control with 15m cable, for Sentinel Kinetic B | 10757 |
| | Wireless boost switch for Sentinel Kinetic B | 10756 |
| | Humidity sensor for Sentinel Kinetic B | 10177 |
|  | $CO_2$ sensor for Sentinel Kinetic | 11852 |
| | 0-10V Module for Sentinel Kinetic Advance | 16607 |
| | Docking station for Advance unit control module, incl. 15 m cable | 16609 |
| | Voltage-free Extension Module (4 inputs) for Sentinel Kinetic Advance | 16610 |
| | Extension Module (2 inputs 230 V) for Sentinel Kinetic Advance | 16611 |
| | WiFi Module for Sentinel Kinetic Advance S (in SX included in supply) | 16608 |
| | Connection Kit - Sentinel Kinetic B + IR Controller | 17459 |
| | Connection Module - Sentinel Kinetic B to IR via CIB - 2-wire connecttion | 17786 |
| | Connection Module - Sentinel Kinetic Advance to IR via CIB - 2-wire connecttion | 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 Kinetic Advance - set of two G3 filters | 16891 |
| | Spare filter for Sentinel Kinetic Advance - set of two F5 pollen filters | 16892 |
| | Filter for Sentinel Kinetic Advance HRV unit – one F5 pollen bag filter | 17024 |
| | Filter for Sentinel Kinetic Advance HRV unit – one F7 pollen bag filter | 17025 |
| | Spare filter for Sentinel Kinetic Horizontal - set of two G3 filters | 17030 |
| | Spare filter for Sentinel Totus MIDI - set of two G4 filters | 18038 |
| | Spare filter for Sentinel Totus MAXI - set of two G4 filters | 18039 |

| Air duct heaters and exchangers | | Code |
|---|---|---|
| | Electric air duct heater, 0.4 kW, DN 125<br>incl. adjust. and high limit thermostats, 3 m cable | 14059 |
| | Electric air duct heater, 0.6 kW, DN 150<br>incl. adjust. and high limit thermostats, 3 m cable | 14796 |
| | HDW 150 air duct heater<br>spigot diam. 150 mm., max. airflow rate 400 $m^3$/h<br>2.8 kW output (at 300 $m^3$/h airflow, incoming water temperature of 60°C and incoming air tempearature of 0°C) | 18642 |
| | Air heater/cooler MKW 150, condensate discharge, drop eliminator,<br>spigot diam. 150 mm, for max. airflow rate 300 $m^3$/h,<br>1.6 kW cooling output (at 300 $m^3$/h airflow, incoming water temperature of 7°C and incoming air tempearature of 28°C), 2 kW heating output (at 300 $m^3$/h airflow, incoming water temperature of 50°C and incoming air tempearature of 15°C) | 18139 |
| | Insulation kit for MKW 150 air heater/cooler | 18269 |

| | 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. | Code |
|---|---|---|---|
| | 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 |
| | Clamp for quick-lock hose band | 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 |

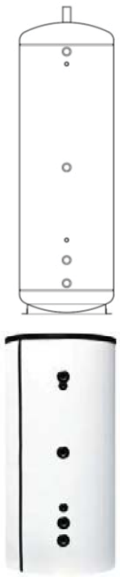
| Flexible Highly Resistant Air Duct in HDPE | | Code |
|---|---|---|
| | Flexible Air Duct in HDPE, antibacterial, diam. 75, 50 m | 15731 |
| | Flexible Air Duct in HDPE, antibacterial, diam. 75, 10 m | 16164 |
| | Plastic Air Distribution Box, 2x75/125 | 18773 |
| | Plastic Air Distribution Box, angled, 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 |

| | 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 |
| | Extension for Air Distribution Box – 0.5m long | 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 |
| | 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 |

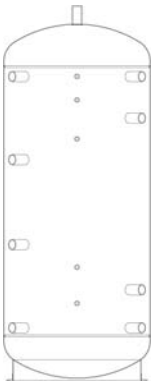
| | Square plastic pipes | Code |
|---|---|---|
| | Square plastic pipes 60x200 mm, 1.5 m | 7906 |
| | Square plastic coupling 60x200 mm | 7909 |
| | Elbow plastic adapter, square to round, 60x200/100 mm | 8243 |
| | Elbow plastic adapter, square to round, 60x200/125 mm | 7910 |
| | Square to round plastic adapter, 60x200/100 mm | 18160 |
| | Square to round plastic adapter, 60x200/125 mm | 7911 |
| | 90° horizontal plastic elbow 60x200 mm | 7912 |
| | 45° horizontal plastic elbow, with divisible segments, 60x200 mm | 9744 |
| | 45° horizontal plastic elbow, no divisible segments, 60x200mm | 18557 |
| | 90° vertical plastic elbow 60x200 mm | 8045 |
| | 45° vertical plastic elbow 60x200 mm | 18157 |
| | T-piece plastic 60x200 mm | 7913 |
| | Drop down section plastic | 18158 |
| | 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 |

| | Plastic air disc valves, for indoor | 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 outdoor | 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, 470 mm diam., 865 mm high, 77 l, en. effic. class C*, wall-hung, for heating, insulation | 18754 |
| | PS 80 ZC, 470 mm diam., 865 mm high, 77 l, en.třída C*, en. effic. class C*, wall-hung, for heating/cooling, insulation | 18932 |
| | **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+ - S-II soft insulation with PUR leather, incl. top and bottom insulation** | **Code** |
| | S-II insulation for PS 600 ES+ thermal store | 16333 |
| | S-II insulation for PS 900 ES+ thermal store | 16340 |
| | S-II insulation for PS 1100 ES+ thermal store | 16348 |
| | **PS E+ Thermal Stores, 5 G 6/4" connections** | **Code** |
|  | PS 500 E+, 600/800 mm diam., 1915 mm high, 473 l, en.effic.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+ - S-II soft insulation with PUR leather, incl. top and bottom insulation** | **Code** |
| | S-II insulation for PS 500 E+ thermal store | 16330 |
| | S-II insulation for PS 750 E+ thermal store | 16338 |
| | S-II insulation for PS 1000 E+ thermal store | 16344 |
| | S-II insulation for PS 1100 E+ thermal store | 16347 |
| | S-II insulation for PS 1250 E+ thermal store | 16351 |
| | **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.effic.class C* | 15285 |
| | PS 500 K+, 650/850 mm diam., 1685 mm high, 477 l, en.effic.class C* | 15288 |
| | PS 600 K+, 700/900 mm diam., 1705 mm high, 560 l | 15291 |
| | PS 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+ - S-II soft insulation with PUR leather, incl. top and bottom insulation** | **Code** |
| | S-II insulation for PS 400 K+ thermal store | 16328 |
| | S-II insulation for PS 500 K+ thermal store | 16331 |
| | S-II insulation for PS 600 K+ thermal store | 16334 |
| | S-II insulation for PS 700 K+ thermal store | 16336 |
| | S-II insulation for PS 900 K+ thermal store | 16341 |
| | S-II insulation for PS 1100 K+ thermal store | 16349 |

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

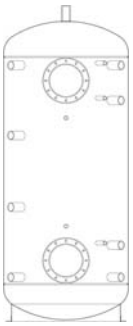


| PS N+ Thermal Stores, 9 G 6/4" connections | | Code |
|---|---|---|
| PS 200 N+, 450/650 mm diam., 1351 mm high, 181 l, en.effic.class C* | | 14717 |
| PS 300 N+, 550/750 mm diam., 1405 mm high, 280 l, en.effic.class C* | | 14720 |
| PS 400 N+, 550/750 mm diam., 1905 mm high, 397 l, en.effic.class 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 |
| PS 3000 N25, 1500/1700 mm diam., 2040 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 N+<br>- S-II soft insulation with PUR leather, incl. top and bottom insulation | | Code |
|---|---|---|
| S-II insulation for PS 200 N+ thermal store | | 16326 |
| S-II insulation for PS 300 N+ thermal store | | 16327 |
| S-II insulation for PS 400 N+ thermal store | | 16329 |
| S-II insulation for PS 500 N+ thermal store | | 16332 |
| S-II insulation for PS 600 N+ thermal store | | 16335 |
| S-II insulation for PS 700 N+ thermal store | | 16337 |
| S-II insulation for PS 800 N+ thermal store | | 16339 |
| S-II insulation for PS 900 N+ thermal store | | 16342 |
| S-II insulation for PS 1000 N+ thermal store | | 16345 |
| S-II insulation for PS 1100 N+ thermal store | | 16350 |
| S-II insulation for PS 1500 N+ thermal store | | 16352 |
| S-II insulation for PS 2000 N+ thermal store | | 16353 |
| S-II insulation for PS 3000 N25 thermal store | x | 16354 |
| S-II insulation for PS 4000 N25 thermal store | x | 16355 |
| S-II insulation for PS 5000 N25 thermal store | x | 16356 |

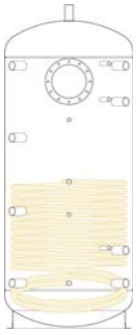
| Insulation Sets for cooling for PS N+, elastomere insulation,<br>incl. top and bottom insulation | Code |
|---|---|
| CC insulation for PS 200 N+ thermal store | 16595 |
| CC additional insulation for heating for PS 200 N+ thermal store | 19008 |

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., 2040 mm high, 3027 l, 9 G 2.5" connections | x | 14460 |
| PS2F 4000 N25, 1600/1800 mm diam., 2355 mm high, 3996 l, 9 G 2.5" connections | x | 14463 |
| PS2F 5000 N25, 1600/1800 mm diam., 2855 mm high, 4994 l, 9 G 2.5" connections | x | 14466 |

| Insulation Sets for PS2F N+<br>- S-II soft insulation with PUR leather, incl. top and bottom insulation | | Code |
|---|---|---|
| S-II insulation for PS2F 300 N+ thermal store | | 16357 |
| S-II insulation for PS2F 500 N+ thermal store | | 16358 |
| S-II insulation for PS2F 800 N+ thermal store | | 16359 |
| S-II insulation for PS2F 1000 N+ thermal store | | 16360 |
| S-II insulation for PS2F 1500 N+ thermal store | | 16361 |
| S-II insulation for PS2F 2000 N+ thermal store | | 16362 |
| S-II insulation for PS2F 3000 N25 thermal store | x | 16363 |
| S-II insulation for PS2F 4000 N25 thermal store | x | 16364 |
| S-II insulation for PS2F 5000 N25 thermal store | x | 16365 |



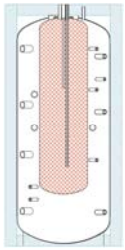
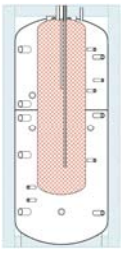
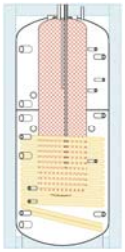
| Thermal Stores with heat exchanger and flanged opening (no flange),<br>9 G 6/4" connections | | Code |
|---|---|---|
| PSWF 300 N+, 550/750 mm diam., 1405 mm high, 280 l, 1.5 sqm heat exchanger, en.effic.class C* | | 14732 |
| PSWF 500 N+, 600/800 mm diam., 1915 mm high, 472 l, 2,0 sqm heat exchanger, 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 |

| Insulation Sets for PSWF N+<br>- S-II soft insulation with PUR leather, incl. top and bottom insulation | | Code |
|---|---|---|
| S-II insulation for PSWF 300 N+ thermal store | | 16366 |
| S-II insulation for PSWF 500 N+ thermal store | | 16367 |
| S-II insulation for PSWF 800 N+ thermal store | | 16371 |
| S-II insulation for PSWF 1000 N+ thermal store | | 16368 |
| S-II insulation for PSWF 1500 N+ thermal store | | 16369 |
| S-II insulation for PSWF 2000 N+ thermal store | | 16370 |

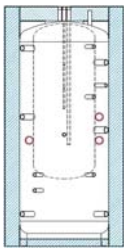
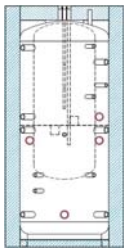
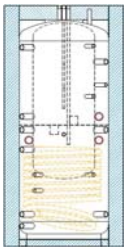
Tank diameter is without/with insulation.
* energy efficiency class of tank with insulation
x - upon order

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

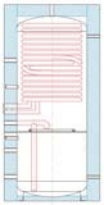
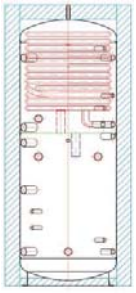
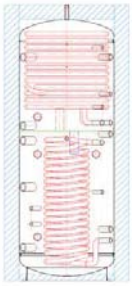
| | Flanges for thermal stores | Code |
|---|---|---|
| | Blind flange - d=312, no holes | 6230 |
| | Flange for finned copper heat exchanger (code 6150 to 6154) - d=312, 2xd=30-70 | 6231 |
| | Flange for finned copper heat exchanger (code 6155 to 6157) - d=312, 2xd=39-90 | 6232 |
| | **Finned copper 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) | 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 Thermal Stores with immersed DHW tank (intended for use with autom. boilers) | Code |
|---|---|---|
|  | DUO 390/130<br>diam. 550/750 mm, 1910 mm high, 387 l, energy effic. class C* | 14198 |
| | DUO 600/200<br>diam. 650/850 mm, 1935 mm high, 552 l | 14201 |
| | DUO 750/200<br>diam. 750/950 mm, 1980 mm high,749 l | 14204 |
| | DUO 1000/200<br>diam. 800/1000 mm, 2080 mm high, 918 l | 14210 |
| | DUO 1700/200<br>diam. 1100/1300 mm, 2080 mm high, 1682 l | 14213 |
| | **Insulation sets for DUO – S-II fleece insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for DUO 390/130 thermal store | 16294 |
| | S-II insulation for DUO 600/200 thermal store | 16300 |
| | S-II insulation for DUO 750/200 thermal store | 16303 |
| | S-II insulation for DUO 1000/200 thermal store | 16255 |
| | S-II insulation for DUO 1700/200 thermal store | 16291 |
| | **DUO P Thermal Stores with immersed DHW tank and separating metal sheet (intended for use with heat pumps and manually loaded boilers)** | **Code** |
|  | DUO 390/130 P<br>diam. 550/750 mm, 1910 mm high, 386 l, energy effic. class C* | 14071 |
| | DUO 600/200 P<br>diam. 650/850 mm, 1935 mm high, 551 l | 14272 |
| | DUO 750/200 P<br>diam. 750/950 mm, 1980 mm high, 748 l | 14274 |
| | DUO 1000/200 P<br>diam. 800/1000 mm, 2080 mm high, 917 l | 14266 |
| | DUO 1700/200 P<br>diam. 1100/1300 mm, 2080 mm high, 1681 l | 14268 |
| | **Insulation sets for DUO P – S-II fleece insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for DUO 390/130 P thermal store | 16295 |
| | S-II insulation for DUO 600/200 P thermal store | 16301 |
| | S-II insulation for DUO 750/200 P thermal store | 16304 |
| | S-II insulation for DUO 1000/200 P thermal store | 16256 |
| | S-II insulation for DUO 1700/200 P thermal store | 16292 |
| | **DUO PR Thermal Stores with immersed DHW tank, separating metal sheet and heat exchanger (intended for use with solar thermal systems)** | **Code** |
|  | DUO 390/130 PR<br>diam. 550/750 mm, 1910 mm high, 383 l, 1.5 sqm heat exchanger, en. eff. class C* | 14072 |
| | DUO 600/200 PR<br>diam. 650/850 mm, 1935 mm high, 534 l, 2.4 sqm heat exchanger | 14219 |
| | DUO 750/200 PR<br>diam. 750/950 mm, 1980 mm high, 743 l, 2.5 sqm heat exchanger | 14222 |
| | DUO 1000/200 PR<br>diam. 800/1000 mm, 2080 mm high, 913 l, 3.2 sqm heat exchanger | 14125 |
| | DUO 1700/200 PR<br>diam. 1100/1300 mm, 2080 mm high, 1670 l, 4 sqm heat exchanger | 14228 |
| | **Insulation sets for DUO PR – S-II fleece insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for DUO 390/130 PR thermal store | 16296 |
| | S-II insulation for DUO 600/200 PR thermal store | 16302 |
| | S-II insulation for DUO 750/200 PR thermal store | 16305 |
| | S-II insulation for DUO 1000/200 PR thermal store | 16258 |
| | S-II insulation for DUO 1700/200 PR thermal store | 16293 |

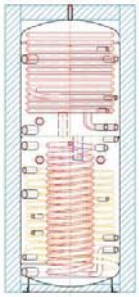
Tank diameter is without/with insulation.
* energy efficiency class of tank with insulation

| | DUO K Thermal Stores, reduced height, with immersed DHW tank | Code |
|---|---|---|
|  | DUO 390/130 K<br>diam. 600/800 mm, 1670 mm high, 399 l, energy effic. class C* | 16070 |
| | **Insulation sets for DUO K – S-II fleece insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for DUO 390/130 K thermal store | 16297 |
| | **DUO K P Thermal Stores, reduced height, with immersed DHW tank and separating metal sheet** | **Code** |
|  | DUO 390/130 K P<br>diam. 600/800 mm, 1670 mm high, 399 l, energy effic. class C* | 16073 |
| | DUO 750/160 K P<br>diam. 790/990 mm, 1727 mm high, 710 l | 16828 |
| | **Insulation sets for DUO K P – S-II fleece insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for DUO 390/130 K P thermal store | 16298 |
| | S-II insulation for DUO 750/160 K P thermal store | 16830 |
| | **DUO K PR Thermal Stores, reduced height, with immersed DHW tank, separating metal sheet and solar heat exchanger** | **Code** |
|  | DUO 390/130 K PR<br>diam. 600/800 mm, 1670 mm high, 395 l, 1.5 sqm heat exchanger, energy effic. class C* | 16077 |
| | **Insulation sets for DUO K PR – S-II fleece insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for DUO 390/130 K PR thermal store | 16299 |
| | **Accessories** | **Code** |
| | Electronic anode rod for DUO 390/130 - 1700/200 | 13793 |
| | Accessory Kit for DUO/HSK P<br>(thermometer, pressure gauge, safety valve, air vent valve, sheath) | 17568 |
| | Accessory Kit for DUO/HSK PR/PV<br>(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 w. functional check, ball valve, drain valve, pressure gauge). | 17387 |
| | PTR valve<br>pressure and temperature release valve for hot water storage tank protection against high pressure and overheating<br>7 bar, 92 °C<br>10 bar, 92 °C | 17240<br>17241 |
| | Connection Kit – PTR valve x DUO Thermal Stores | 17525 |

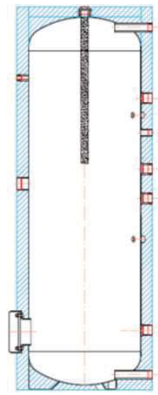
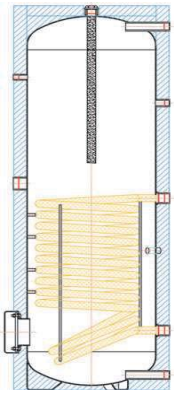
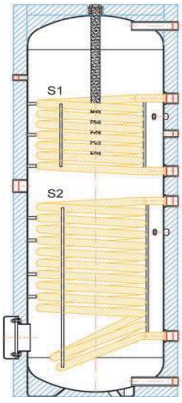
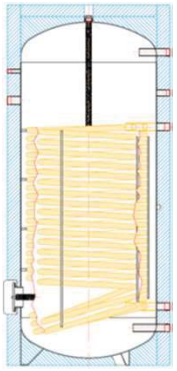
Tank diameter is without/with insulation.
* energy efficiency class of tank with insulation

| | HSK K P-B Thermal Store, reduced height, stainless-steel DHW heat exchanger, for installation with one 3-way valve (suitable for RegulusBOX) | Code |
|---|---|---|
|  | HSK 350 K P-B<br>diam. 550/750 mm, 1655 mm high, 340 l, 6 sqm DHW heat exchanger | 18628 |
| | **Insulation Set for HSK K P-B - S-II fleece insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for HSK 350 K P-B thermal store | 18630 |
| | **HSK P Thermal Store with stainless-steel tube DHW heat exchanger and separating metal sheet** | **Code** |
|  | HSK 390 P<br>diam. 550/750 mm, 1905 mm high, 398 l, 6 sqm DHW heat exchanger, energy effic. class C* | 13517 |
| | HSK 600 P<br>diam. 650/850 mm, 1935 mm high, 560 l, 6 sqm DHW heat exchanger | 14175 |
| | HSK 750 P<br>diam. 750/950 mm, 1975 mm high, 760 l, 6 sqm DHW heat exchanger | 14178 |
| | HSK 1000 P<br>diam. 800/1000 mm, 2080 mm high, 925 l, 6 sqm DHW heat exchanger | 14555 |
| | HSK 1700 P<br>diam. 1100/1300 mm, 2075 mm high, 1687 l, 6 sqm DHW heat exchanger | 14558 |
| | **Insulation Sets for HSK P – S-II soft insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for HSK 390 P thermal store | 16318 |
| | S-II insulation for HSK 600 P thermal store | 16320 |
| | S-II insulation for HSK 750 P thermal store | 16323 |
| | S-II insulation for HSK 1000 P thermal store | 16310 |
| | S-II insulation for HSK 1700 P thermal store | 16314 |
| | **HSK PV Thermal Store with 2 stainless-steel tube DHW heat exchangers and separating metal sheet** | **Code** |
|  | HSK 600 PV<br>diam. 650/850 mm, 1935 mm high, 557 l, 6+3 sqm DHW heat exchangers | 16158 |
| | HSK 750 PV<br>diam. 750/950 mm, 1975 mm high, 760 l, 6+3 sqm DHW heat exchangers | 16177 |
| | HSK 1000 PV<br>diam. 800/1000 mm, 2080 mm high, 922 l, 6+3 sqm DHW heat exchangers | 16180 |
| | HSK 1700 PV<br>diam. 1100/1300 mm, 2075 mm high, 1684 l, 6+3 sqm DHW heat exchangers | 16183 |
| | **Insulation Sets for HSK PV – S-II soft insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for HSK 600 PV thermal store | 16160 |
| | S-II insulation for HSK 750 PV thermal store | 16179 |
| | S-II insulation for HSK 1000 PV thermal store | 16312 |
| | S-II insulation for HSK 1700 PV thermal store | 16185 |

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

| | 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 390 PR<br>diam. 550/750 mm, 1905 mm high, 394 l, 6 sqm DHW heat exchanger, 1.5 sqm solar HE, energy effic. class C* | 14172 |
| | HSK 600 PR<br>diam. 650/850 mm, 1935 mm high, 553 l, 6+3 sqm DHW heat exchanger, 2.4 sqm solar HE | 14187 |
| | HSK 750 PR<br>diam. 750/950 mm, 1975 mm high, 753 l, 6+3 sqm DHW heat exchanger, 2.5 sqm solar HE | 14190 |
| | HSK 1000 PR<br>diam. 800/1000 mm, 2080 mm high, 916 l, 6+3 sqm DHW heat exchanger, 3.2 sqm solar HE | 14012 |
| | HSK 1700 PR<br>diam. 1100/1300 mm, 2075 mm high, 1676 l, 6+3 sqm DHW heat exchanger, 4.0 sqm solar HE | 14013 |
| | **Insulation Sets for HSK PR – S-II soft insulation with PUR leather surface, incl. top and bottom insulation** | **Code** |
| | S-II insulation for HSK 390 PR thermal store | 16319 |
| | S-II insulation for HSK 600 PR thermal store | 16321 |
| | S-II insulation for HSK 750 PR thermal store | 16324 |
| | S-II insulation for HSK 1000 PR thermal store | 16311 |
| | S-II insulation for HSK 1700 PR thermal store | 16315 |
| | **Accessories to HSK thermal store** | **Code** |
| | Accessory Kit for DUO/HSK P<br>(thermometer, pressure gauge, safety valve, air vent valve, sheath) | 17568 |
| | Accessory Kit for DUO/HSK PR/PV<br>(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 w. functional check, ball valve, drain valve, pressure gauge). | 17387 |
| | PTR valve<br>pressure and temperature release valve for hot water storage tank protection against high pressure and overheating — 7 bar, 92 °C | 17240 |
| | 10 bar, 92 °C | 17241 |
| | Connection Kit – PTR valve x HSK Thermal Stores | 17527 |

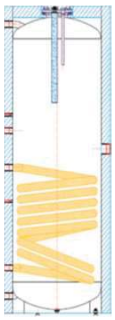
Tank diameter is without/with insulation.
* energy efficiency class of tank with insulation

| | 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 |
| | **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.1200mm, 2285mm high | x | 16710 |
| | RBC 2000 HW storage tank, enameled, 2006 l, diam.1300mm, 2550mm high | x | 16711 |
| | RBC 2500 HW storage tank, enameled, 2509 l, diam.1400mm, 2680mm high | x | 12420 |
| | RBC 3000 HW storage tank, enameled, 2841 l, diam.1400mm, 2980mm high | x | 8477 |
| | **R2BC hot water storage tanks with 2 heat exchangers, incl. insulation** | | **Code** |
|  | R2BC 200 HW storage tank, enameled, 213 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<br>heat exchanger surface 3 sqm, en. effic. class C | | 10534 |
| | RBC 300 HP 3.2V - diam. 610 mm, 1710 mm high, 297 l,<br>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<br>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<br>heat exchanger surface 5 sqm, en. effic. class C | | 10536 |
| | RBC 500HP, HW storage tank, enameled, 509 l, diam. 760 mm, 1785 mm high<br>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. 940 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 m high. heat exchanger surface 11 sqm (no 6/4" connection for electric heating element) | | 16714 |

Tank diameter is incl. insulation. The insulation is detachable.
x - upon order

| | NBC hot water storage tanks with 1 upsized heat exchanger, incl. insulation | Code |
|---|---|---|
| | NBC 170 HP<br>hot water storage tank, stainless-steel, connection points upwards, 171 l, 500 mm diam., 1075 mm high, 2 sqm surface area, energy eff. class B, suitable to connect to a heat pump and condesing boiler | 17615 |

| | RGC H Hot Water Storage Tanks with 1 heat exchanger, incl. insulation | Code |
|---|---|---|
| | RGC 120 H<br>hot water storage tank, enameled, connection points upwards, 120 l,<br>width x depth 460 x 460 incl. insulation, 1140 mm high, energy effic. class C | 10493 |

| | RDC hot water storage tanks with 1 heat exchanger, incl. insulation | Code |
|---|---|---|
|  | RDC 160<br>hot water storage tank, enameled, 157 l, diam. 584 mm, 1075 mm high, energy effic. class C | 12772 |
| | RDC 200<br>hot water storage tank, enameled, 216 l, diam. 584 mm, 1352 mm high, energy effic. class C | 12758 |
| | RDC 250 hot water storage tank, enameled, 274 l, diam. 584 mm, 1557 mm high, energy effic. class C | 15860 |
| | RDC 300<br>hot water storage tank, enameled, 302 l, diam. 597 mm, 1790 mm high, energy effic. class C | 12759 |

| | R2DC hot water storage tanks with 2 heat exchangers, incl. insulation | Code |
|---|---|---|
| | R2DC 160<br>hot water storage tank, enameled, 153 l, diam. 584 mm, 1075 mm high, energy effic. class C | 13490 |
| | R2DC 200<br>hot water storage tank, enameled, 216 l, diam. 584 mm, 1352 mm high, energy effic. class C | 11351 |
| | R2DC 250<br>hot water storage tank, enameled, 260 l, diam. 584 mm, 1562 mm high, energy effic. class C | 12051 |
| | R2DC 300<br>hot water storage tank, enameled, 293 l, diam. 597 mm, 1790 mm high, 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),<br>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),<br>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 RGC 120 H, RxDC 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 H 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 200/150, 350 mm long, 1/2" thread, incl. electronics | 9169 |
| Electronic anode rod 200/250, 450 mm long, 1/2" thread, incl. electronics | 4052 |
| Electronic anode rod 350/150, 500 mm long, 1/2" thread, incl. electronics | 9170 |
| Electronic anode rod 350/250, 600 mm long, 1/2" thread, incl. electronics | 3836 |
| Electronic anode rod 550/200, 750 mm long, 1/2" thread, incl. electronics | 3837 |
| Electronic anode rod 550/250, 800 mm long, 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 | 12707 |
| Flange for RxBC 200-300 hot water storage tank, G 6/4" to install second el. heating element | 17199 |
| Flange for another el. heating element, incl. el. anode rod kit, G 6/4" + G 1/2", for RxBC 400-500 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 | 12706 |
| Flange for RxBC hot water storage tank up to 300 l, 2 holes diam. 30 mm, 55 mm center-to-center distance | 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 25/6 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.

Pressure drop values for heat exchangers and other technical data are available in data sheets at www.regulus.eu. Recommended collector areas and performances are calculated for specific examples

## Nickel-plated G 6/4" electric heating elements with plastic thermostatic head, 1x230 V, longer non-heating end

ETT - M

| *» for power outlet, adjustable thermostat and two-pole temperature limiter, 3m 3-wire power cable with plug, suitable for heating/drinking water - Hot Water Heaters, Thermal Stores and DUO, HSK combi thermal stores* | Code |
|---|---|
| 1.2 kW heating element with thermostatic head, 0-90 °C knob adjustable, length incl. thread 300 mm, non-heating end 180 mm long. | 15166 |
| 2.0 kW heating element with thermostatic head, 0-90 °C knob adjustable, length incl. thread 350 mm, non-heating end 180 mm long. | 15167 |
| 2.4 kW heating element with thermostatic head, 0-90 °C knob adjustable, length incl. thread 420 mm, non-heating end 180 mm long. | 15168 |
| 3.0 kW heating element with thermostatic head, 0-90 °C knob adjustable, length incl. thread 450 mm, non-heating end 180 mm long. | 15169 |

## Nickel-plated G 6/4" el. heating elements with plastic thermostatic head, 1x230 V, longer non-heating end, with a dedicated connector to plug in CSE SOL pump stations

ETT - N

| *» 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* | Code |
|---|---|
| 2.0 kW heating element with thermostatic head, length incl. thread 350 mm, non-heating end 180 mm long. | 16942 |
| 3.0 kW heating element with thermostatic head, length incl. thread 450 mm, non-heating end 180 mm long. | 16943 |

## Nickel-plated G 6/4" electric heating elements with metal thermostatic head, 1x230V

ETT - D

| *» no plug, adjustable and a high-limit thermostats and a contactor, inputs for control by controller or Ripple control, 5-core power supply cable 2 m long, suitable for heating/drinking water - Hot Water Heaters and Thermal Stores* | Code |
|---|---|
| 2 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 315 mm, 100 mm non-heating end | 11783 |
| 3 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 370 mm, 100 mm non-heating end | 11784 |

## Nickel-plated G 6/4" electric heating elements with metal thermostatic head, 1x230V or 3x230 V, longer non-heating end, for PV sources

ETT - F

| *» no plug, adjustable and a high-limit thermostats and a contactor, inputs for control by controller or Ripple control, 7-core power supply cable 2 m long, suitable for heating/drinking water - Hot Water Heaters, Thermal Stores and DUO, HSK combi thermal stores* | Code |
|---|---|
| 3 kW Heating Element with thermostatic head, knob adjustable within 0-90 °C, length incl. thread 365 mm, 180 mm non-heating end. In either a single-phase or a 3-phase connection, it can be switched on by an external controller in 1-2-3 kW steps or its output continuously controlled by an SSR relay. | 16250 |
| 4.5 kW Heating Element with thermostatic head, knob adjustable within 0-90 °C, length incl. thread 463 mm, 180 mm non-heating end. In either a single-phase or a 3-phase connection, it can be switched on by an external controller in 1,5-3-4,5 kW steps or its output continuously controlled by an SSR relay. | 12357 |

## Copper G 6/4" electric heating elements with no surface finish, with thermostatic head, 3x230/400V, longer non-heating end

ETT - L

| *» no plug, with an adjustable and a high-limit thermostats and a contactor, inputs for control by remote controller or Ripple control, 7-core power supply cable, 2 m long, suitable for heating water - Thermal Stores and DUO, HSK combi thermal stores* | Code |
|---|---|
| 2 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 310 mm, 180 mm non-heating end | 14994 |
| 3 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 370 mm, 180 mm non-heating end | 14995 |
| 5 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 500 mm, 180 mm non-heating end | 14996 |
| 6 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 555 mm, 180 mm non-heating end | 14997 |
| 7.5 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 635 mm, 180 mm non-heating end | 14998 |
| 8.2 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 700 mm, 180 mm non-heating end | 14999 |
| 9 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 755 mm, 180 mm non-heating end | 15000 |

## Nickel-plated G 6/4" electric heating elements with metal thermostatic head, 3x230/400 V

ETT - G

| *» no plug, with an adjustable and a high-limit thermostats and a contactor, inputs for control by remote controller or Ripple control, 7-core power supply cable, 2 m long, suitable for heating/drinking water - Hot Water Heaters and Thermal Stores* | Code |
|---|---|
| 2 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 225 mm, 100 mm non-heating end | 11787 |
| 3 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 285 mm, 100 mm non-heating end | 11788 |
| 4.5 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 383 mm, 100 mm non-heating end | 11789 |
| 6 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 478 mm, 100 mm non-heating end | 11216 |
| 7.5 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 570 mm, 100 mm non-heating end | 11215 |
| 9 kW Electric heating element with thermostatic head, knob adjustable 0-90 °C, length incl. thread 665 mm, 100 mm non-heating end | 11214 |

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

We can offer other types of heating elements in copper or stainless steel upon order.

## Nickel-plated G 6/4" M electric heating elements, no thermostatic head, 3x 230 V/400 V

ETT - A

| *» suitable for heating/drinking water - for Hot Water Heaters and Thermal Stores* | Code |
|---|---|
| 2 kW heating element, length incl. thread 245 mm, 100 mm non-heating end | 8935 |
| 3 kW heating element, length incl. thread 305 mm, 100 mm non-heating end | 8936 |
| 4.5 kW heating element, length incl. thread 370 mm, 100 mm non-heating end | 8937 |
| 6 kW heating element, length incl. thread 495 mm, 100 mm non-heating end | 8938 |
| 7.5 kW heating element, length incl. thread 585 mm, 100 mm non-heating end | 8939 |
| 9 kW heating element, length incl. thread 680 mm, 100 mm non-heating end | 8940 |
| 12 kW heating element, length incl. thread 815 mm, 100 mm non-heating end | 8941 |

## Copper G 6/4" M electric heating elements with no surface finish, no thermostatic head, 3x 230 V/400 V, longer non-heating end

ETT - C

| *» suitable for heating water - for Thermal Stores and DUO, HSK combi thermal stores* | Code |
|---|---|
| 2 kW heating element, length incl. thread 310 mm, 180 mm non-heating end | 14519 |
| 3 kW heating element, length incl. thread 370 mm, 180 mm non-heating end | 8902 |
| 5 kW heating element, length incl. thread 500 mm, 180 mm non-heating end | 14359 |
| 6 kW heating element, length incl. thread 555 mm, 180 mm non-heating end | 8897 |
| 7.5 kW heating element, length incl. thread 635 mm, 180 mm non-heating end | 9618 |
| 8.2 kW heating element, length incl. thread 700 mm, 180 mm non-heating end | 14501 |
| 9 kW Heating element, length incl. thread 755 mm, 180 mm non-heating end | 12272 |
| 12 kW Heating element, length incl. thread 955 mm, 180 mm non-heating end | 12273 |

## Copper M 48x2 el. heating elements, with no surface finish, no thermostatic head, 3x 230 V/400 V, shorter non-heating end, for electric boilers

ETT - B

| *» suitable for heating water* | Code |
|---|---|
| 2 kW heating element, length incl. thread 178 mm, 45 mm non-heating end | 4973 |
| 3 kW heating element, length incl. thread 240 mm, 45 mm non-heating end | 4972 |
| 4.5 kW heating element, length incl. thread 333 mm, 45 mm non-heating end | 4971 |
| 6 kW heating element, length incl. thread 428 mm, 45 mm non-heating end | 4970 |
| 7.5 kW heating element, length incl. thread 520 mm, 45 mm non-heating end | 4969 |
| 9.0 kW heating element, length incl. thread 615 mm, 45 mm non-heating end | 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.

We can offer other types of heating elements in copper or stainless steel upon order.

## Stainless steel electric 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 bathroom towel 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<br>To connect el. heating element together with a heating circuit into a heated towel rail. | 7926 |
| | **Regulus plug-in thermostats** | **Code** |
| | **TZ33 - Regulus**<br>Plug-in thermostat with LCD display (thermometer) and LED.<br>5-35°C adjustable temperature, 16(3) A 230 V. | 6295 |
| | **TZT63 – Regulus**<br>Plug-in thermostat with LCD display (thermometer) and LED.<br>Timer for manual operation available – 15 to 300 min.<br>5-35°C adjustable temperature, 16(3) A 230 V. | 8269 |

| 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, 750 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 |
| | 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 |

| Electronic programmable room thermostats | Code |
|---|---|
| **TP08 - Regulus**<br>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**<br>7 days / 5+2 days / 24h – always max. 6 changes per day<br>power supply 2x 1,5V (AAA) incl. in supply, contacts 6(2) A / 230 V | 17173 |
| **TP44 RF - Regulus**<br>wireless, programmable - 7 days / 5+2 days / 24h – always max. 6 changes per day<br>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),<br>5-35 °C adjustable temperature, 2 x 1.5 V (AAA), 5(3.5) A 24...230 V. | 7355 |
| **TP34 - Regulus**<br>LCD display, 5-35°C knob adjustable temperature<br>power supply 2x 1,5V (AAA) incl. in supply, contacts 6(2) A / 230 V | 17168 |
| **TP34 RF - Regulus**<br>wireless, LCD display, 5-35°C knob adjustable temperature<br>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**<br>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,<br>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.<br>Adjustable temperature 5-30 °C, switch-off contact 16(2.5) A max. | 10945 |
| **TP546LA** Room thermostat, 230 V, with ON signal lamp.<br>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.<br>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.<br>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 |

## REGULUS IR Smart Controllers

| | IR 14 RTC for RTC Heat Pumps | Code |
|---|---|---|
| | IR 14 RTC EN<br>Smart Controller w. English menu, to control RTC Heat Pumps, hydronic boiler or fireplace, solar thermal system, aux. 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. | 18239 |
| | IR 14 RTC FV EN<br>Smart Controller to control RTC Heat Pumps, upgraded with consumption control of electricity surplus produced by single-phase PV systems throught an electric heating element and a heat pump. Incl. electricity meter for electricity surplus measurements and 1 SSR relay to control the output of el. heating elements. | 18241 |
| | **IR 14 CTC for CTC Heat Pumps** | **Code** |
| | IR 14 CTC EN<br>Smart Controller with English menu for control of CTC heat pumps, solar thermal system, auxiliary heat source, HRV unit and up to 2 mixed heating circuits. It contains 1 outdoor sensor and 2 temperature sensors for sheath (4 m). Integrated web server for an easy remote access. | 18514 |
| | IR 14 CTC FV1F EN<br>Smart Controller to control CTC Heat Pumps, upgraded with consumption control of electricity surplus produced by single-phase PV systems through an electric heating element and a heat pump. Incl. electricity meter for electricity surplus measurements and 1 SSR relay to control the output of el. heating elements. | 18925 |
| | IR 14 CTC FV3F EN<br>Smart Controller to control CTC Heat Pumps, upgraded with consumption control of electricity surplus produced by three-phase PV systems through an electric heating element and a heat pump. Incl. electricity meter for electricity surplus measurements and 3 SSR relays to control the output of el. heating elements. | 18927 |
| | **IR 12 CTC for Heat Pumps** | **Code** |
| | IR 12 CTC EN<br>Smart Controller, English menu, designed to control CTC Heat Pumps, a solar system, aux. heat source, HRV unit and two mixed heating circuits. The packing involves PWM Module, 1 outdoor sensor, 2 temperature sensors for sheaths (4 m). Integrated web server for easy remote access. | 15093 |
| | IR 12 CTC FV1F EN<br>Smart Controller to control CTC Heat Pumps, upgraded with consumption control of electricity surplus produced by PV panels through an electric heating element and a heat pump. Incl. electricity meter for electricity surplus measurements and one SSR relay to control the output of el. heating elements. | 17218 |
| | IR 12 CTC FV3F EN<br>Smart Controller to control CTC Heat Pumps, upgraded with consumption control of electricity surplus produced by PV panels through an electric heating element and a heat pump. Incl. electricity meter for electricity surplus measurements and three SSR relays to control the output of el. heating elements. | 17219 |
| | **IR 12 CTC KRB for fireplaces and solid fuel boilers** | **Code** |
| | IR 12 CTC KRB EN<br>Smart Controller, English menu, designed to control a hydronic fireplace and accumulation tank, solar system, boiler and 1 mixed heating circuit. Ethernet socket, SD card slot. The packing involves a power source, 8 GB card, 1 outdoor sensor and 4 temperature sensors for sheaths. | 18249 |

| Room Units and sensors for IR Smart Controllers | | Code |
|---|---|---|
| | RCD Room Unit, temperature sensor, control display | 16888 |
| | 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 temeperature 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, KRS 9 controllers | 9110 |
| | KA 12 - Surge protector for Pt1000 temperature sensors | 9530 |
| | 0-10 bar Pressure Sensor,  4-20 mA output for IR 14, 1/2 "M, connector | 18989 |
| | Encased sheath mount thermostat with Pt1000 sensor and 2m cable (9108) - adj. 0-90 °C, limiter 100 °C fix | 14105 |
| | Encased Thermostat, adj. 0-90 °C, limit. 100 °C fix with Pt1000 sensor fitted w. 4m cable, incl. 4x1,5 mm2 cable, the fourth conductor for heating element circuit breaker trip coil | 17734 |

| Modules for IR smart controllers | | Code |
|---|---|---|
| | WiFi Module for IR 14 or RegulusBOX | 18777 |
| | UNI Module - universal extension module - 2 analog inputs, 2 relay outputs, 1x PWM or 0/10V, CIB - two-wire connection | 12419 |
| | Module for IR Controller, for 12 24VAC/DC digital inputs, TCL2 - four-wire connection | 13050 |
| | Module for IR Controller, for 8 analogue inputs (PWM), CIB - two-wire connection | 18116 |
| | CH Module – extension by 1 mixed heating circuit (3 in-/outputs, CIB - two-wire connection) | 17116 |
| | OT Module - to connect boilers with OpenTherm protocol, TCL2 - four-wire connection | 10442 |
| | Connection Kit - Sentinel Kinetic B + IR Controller | 17459 |
| | Connection Module - Sentinel Kinetic B to IR via CIB - 2-wire connection | 17786 |
| | Connection Module - Sentinel Kinetic Advance to IR via CIB - 2-wire connection | 17787 |
| | CIB Bus Separator (to connect more CIB units with total consumption greater than 100 mA), four-wire connection | 11981 |
| | Power Supply, 30 W output | 16491 |
| | Module for external CIB bus - used to connect modules that extend the system with 4th-6th heating circuit. Only for IR 14 and RegulusBOX. Connection to ETH1 and power supply. | 18750 |
| | Module for IR controller, switch - 5x LAN, on DIN rail, 24 V power supply | 19007 |
| | PWM Module - transforms 0-10V to PWM incl. iPWM - for IR 12 only | 17838 |
| | 0-10V Module - 0-10V conversion to a switched contact - for IR 12 only | 12360 |
| | Transducer for IR Controller, for pulse flowmeter - for IR 12 only | 17345 |

| 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 |
| | RC21 TRS<br>Room Unit with temperature sensor, temperature dial and mode switch | 9788 |
| | RC CALEON<br>Room Unit with temperature sensor, humidity sensor, touch screen, 4-lead connection to controller (only for TRS3 and TRS6 K) | 17150 |
| | RC CALEON WIFI<br>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 |
| **Differential Controllers** | | **Code** |
| | UR1 A-DT Analog Differential Controller<br>- circulation pump switching by adjustable temp. difference<br>- 2 inputs for temperature sensors and 1 mechanical output relay<br>- price incl. two Pt1000 temperature sensors for sheath and 2 m cable | 14159 |

| 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 |
| | 150.10125.00A | 0 - 120 °C | 31x64 mm | 1 m | | 1181 |
| | 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** |
| | 323.70126.22A | 0-4 bar | Ø 42 mm | 1 m | | 3423 |
| | 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 |

| 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 |
| | TS5310.55 | Adjustable contact thermostat, higher sensit., 17-90 °C, screwdr.adj. | 10836 |
| | TS9510.52 | Adjustable immersion thermostat, 0-90 °C, G 1/2", l=104 mm (C-1 16A, C-2 6A) | 10781 |
| | TPS1-1000 | Adjustable immersion thermostat, 0-90 °C, G 1/2", l=97 mm (C-1 10A, C-2 2A) | 13620 |
| | 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 |
| | 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 |
| 95B040R07 | 0 - 40 °C | knob | 1.5 m | SPDT | 11225 |
| 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 |
| 95B286I02 | -25 to 275 °C | knob | 1.5 m inox | SPDT | 10734 |
| 95B300I05 | 0 - 300 °C | knob | 2 m inox | SPDT | 10934 |
| 95A095R01 | 50 - 95 °C (ATMOS) | knob | 1 m | SPST | 10736 |
| 95B090R24 | 0 - 90 °C | screwdr. | 1 m | SPDT | 10940 |
| 95A090R22 | 0 - 90 °C | screwdr. | 1 m | SPST | 11078 |
| 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 |
| 721.3328.00A | 40 - 90 °C (2+-1 °C) | knob | 1 m | SPDT | 3391 |

| 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 |
| 95H110R13 | 90-110 °C gold pl.contacts | manual | 1 m | SPDT | 11088 |

| High limit thermostats, fixed temperature | | | | | Code |
|---|---|---|---|---|---|
| *model* | *range* | *reset* | *capillary* | *contacts* | |
| 974.99228.01A | 100 °C gold pl.contacts | automatic | 1 m | SPST | 1094 |
| 95H120R01 | 120 °C | manual | 1 m | SPST | 10973 |
| 95H140R01 | 140 °C gold pl.contacts | manual | 1 m | SPDT | 11153 |
| 95H099R01 | 99 °C | manual | 0.55 m | SPDT | 10743 |

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, 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 |

| 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 |

| Draft Regulators for solid-fuel boilers, electric controlled | | Code |
|---|---|---|
| | RT3-E Draft regulator, electric controlled | 7191 |
| | RT3-E with TP546DT room thermostat | 9139 |
| | RT3-E with TP44 weekly room thermostat | 9138 |

| Spare parts for Draft Regulators | | Code |
|---|---|---|
| | Spare knob and piston kit for RT3 | 8217 |
| | Knob for RT4 | 13876 |
| | Thermostatic element for RT | 5881 |

| | Regulus Two-way Thermal Safety Relief Valves | Code |
|---|---|---|
| | DBV2 Insulated<br>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,<br>97 °C ± 2 °C opening temperature | 16627 |
| | DBV2 Insulated, in 6/4" F T-piece | 16863 |
| | DBV1 Insulated<br>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,<br>97 °C ± 2 °C opening temperature | 16912 |
| | DBV1 Insulated, in 6/4" F T-piece | 16913 |

| | Regulus One-way Thermal Relief Valves | Code |
|---|---|---|
| | JBV1<br>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<br>3/4"F<br>1.3 m fixed capillary,<br>140 mm sheath, 1/2" M | 97 °C | 14713 |
| | BVTS Thermal Safety Relief Valve<br>3/4"F,<br>1.3 m fixed capillary,<br>140 mm sheath, 1/2" M | 95 °C | 14477 |
| | | 97 °C | 14480 |
| | | 108 °C | 14483 |
| | | 70 °C | 14476 |
| | | 65 °C | 14475 |
| | | 55 °C | 14474 |
| | BVTS Thermal Safety Relief Valve<br>3/4"F,<br>1.3 m detachable capillary,<br>140 mm sheath, 1/2" M | 50 °C | 14473 |
| | | 95 °C | 14479 |
| | | 100 °C | 14481 |
| | BVTS Thermal Safety Relief Valve<br>3/4"F,<br>4 m fixed capillary,<br>140 mm sheath, 1/2" M | 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,<br>connections 3x 1"F,<br>$K_{vs}$ = 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,<br>connections 2x 1" F and 6/4" Fu nut, coupler for circulation pump 6/4" F x 1" F + 2 gaskets,<br>$K_{vs}$ = 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,<br>connections 3x 5/4" F,<br>$K_{vs}$ = 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,<br>connections 3x 6/4" F,<br>$K_{vs}$ = 13.3 $m^3/h$ | 45 °C | 12974 |
| | | 55 °C | 12975 |
| | | 65 °C | 12976 |
| | TSV8B - DN 50,<br>connetions 3x 2" F,<br>$K_{vs}$ = 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,<br>connections 3x 1" M,<br>$K_{vs}$ = 9.8 $m^3/h$ | 45 °C | 13977 |
| | | 55 °C | 13978 |
| | | 65 °C | 13979 |
| | TSV3BMF - DN 25,<br>connections 2x 1" M and 1" Fu nut,<br>$K_{vs}$ = 8.6 $m^3/h$ | 45 °C | 13980 |
| | | 50 °C | 18855 |
| | | 55 °C | 13981 |
| | | 65 °C | 13982 |
| | TSV5BMF - DN 32<br>connections 2x 6/4" M and 5/4" F,<br>$K_{vs}$ = 7.0 $m^3/h$ | 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 $m^3/h$ | 65 °C | 10347 |
| | | 72 °C | 16029 |
| | TSV5 - for ATMOS boilers - DN 32, connections 3x 5/4" F, $K_{vs}$ = 7.0 $m^3/h$ | 65 °C | 11804 |
| | | 72 °C | 15533 |
| | TSV6 - for ATMOS boilers - DN 40, connections 3x 6/4" F, $K_{vs}$ = 13.3 $m^3/h$ | 65 °C | 11821 |
| | | 72 °C | 16060 |
| | TSV8 - for ATMOS boilers - DN 50, connections 3x 2" F, $K_{vs}$ = 15.8 $m^3/h$ | 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 – spare parts for TSV B valves | 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 |
| | 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 – spare parts for TSV valves | 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 |
| | V35 Thermostatic element for TSV6, 8 valves, 72 °C | 16200 |

| | RegulusRGMAT Load Units with AUTOMATIC bypass balancing, 1" | Opening temperature | Code |
|---|---|---|---|
| | RGMAT E W6 KK - DN 32,<br>connections 3x 1" F, fittings with ball valves,<br>TSV5B valve, Wilo PARA 25/6 SC pump,<br>thermometer | 55 °C | 19015 |
| | | 65 °C | 19016 |
| | RGMAT E W6 - DN 25,<br>connections 3x 1" F,<br>TSV3B valve, Wilo PARA 25/6 SC pump,<br>thermometer, ball shut-off valve for pump | 45 °C | 18668 |
| | | 50 °C | 18680 |
| | | 55 °C | 18612 |
| | | 60 °C | 18681 |
| | | 65 °C | 18682 |
| | | 70 °C | 18683 |
| | RGMAT E W-PWM - DN 25,<br>connections 3x 1" F,<br>TSV3B valve, WIlo PARA 25/8 iPWM1 pump,<br>thermometer, ball shut-off valve for pump | 55 °C | 18133 |
| | | 65 °C | 18131 |
| | RGMAT E G70 - DN 25,<br>connections 3x 1" F,<br>TSV3B valve, Grundfos UPM3 25-70 pump,<br>thermometer, ball shut-off valve for pump | 45 °C | 14925 |
| | | 50 °C | 15910 |
| | | 55 °C | 14926 |
| | | 60 °C | 15911 |
| | | 65 °C | 14927 |
| | | 70 °C | 15912 |
| | **RegulusRGMAT Load Units with AUTOMATIC bypass balancing, 5/4"** | **Opening temperature** | **Code** |
| | RGMAT E W8 5/4 KK - DN 32,<br>connections 3x 5/4" F, fittings with ball valves,<br>TSV5B valve, WIlo PARA 25/8 SC pump,<br>thermometer | 55 °C | 18654 |
| | | 65 °C | 18657 |
| | RGMAT E G75 5/4 KK - DN 32,<br>connections 3x 5/4" F, fittings with ball valves,<br>TSV5B valve, Grundfos UPM3 25-75 pump,<br>thermometer | 55 °C | 18985 |
| | | 65 °C | 18986 |
| | RGMAT E W8 5/4 - DN 32,<br>connections 3x 5/4" F,<br>TSV5B valve, Wilo PARA 25/8 SC pump,<br>thermometer | 55 °C | 18684 |
| | | 65 °C | 18663 |
| | RGMAT E G75 5/4 - DN 32,<br>connections 3x 5/4" F,<br>TSV5B valve, Grundfos UPM3 25-75 pump,<br>thermometer | 55 °C | 16395 |
| | | 65 °C | 16397 |

| | 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, thermometer, ball shut-off valve for pump | 65 °C | 18699 |
| | | 72 °C | 18701 |
| | RGMAT EA G70 - for ATMOS boilers - DN 25, connections 3x 1" F, TSV3 valve, Grundfos UPM3 25-70 pump, thermometer, ball shut-off valve for pump | 65 °C | 16383 |
| | | 72 °C | 16384 |
| | **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, 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 25-75 pump, 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), 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 new Spare Parts Catalogue.*

| 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** | **Code** |
| | BIO 55 MIX W-PWM 1F TRS6K<br>Insulated Load and Heating Combi Unit - controller, 3-way mixing valve w. actuator ($K_{vs}$=6.3.m$^3$/h), Wilo PARA 25/8 iPWM1 pumps, TSV3BM 55°C load valve ($K_{vs}$=9.8 m$^3$/h), ball valves, thermometers, drain valves, connections 1" F. | 17499 |
| | **for systems with thermal store** | **Code** |
| | BIO 55 MIX-BP G75 1F<br>Insulated Load and Heating Combi Unit - 3-way mixing valve without actuator ($K_{vs}$=6.3.m$^3$/h), Grundfos UPM3 25-75 pumps, TSV3BM 55°C load valve ($K_{vs}$=9,8 m$^3$/h), ball valves, thermometers, drain valves, connections 1" F. | 17553 |
| | **for systems without thermal store** | **Code** |
| | BIO 55 G75 1F<br>Insulated Load and Heating Combi Unit - Grundfos UPM3 25-75 pumps, TSV3BM 55°C load valve ($K_{vs}$=9,8 m$^3$/h), ball valves, thermometers, drain valves,<br>connections 1" F. | 17502 |
| | **Accessories** | **Code** |
| | RC CALEON<br>Room Unit with temperature sensor, humidity sensor, touch screen, 4-lead connection to controller (for model with TRS6 K regulator) | 17150 |
| | RC CALEON WIFI<br>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<br>(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<br>600 W max. inverter output | 17135 |

| Compact Backup Power Supplies for circulation pumps in solid-fuel boilers | | |
|---|---|---|
| | » *with integrated batteries, output in the form of a modified sine wave* | Code |
| | PG 500 Backup Power Supply with integrated batteries, 18 Ah capacity<br>600 W max. inverter output. Not suitable for electronics and PWM pumps. | 16214 |

| Backup Power Supplies for circulation pumps and boiler-room controllers | | |
|---|---|---|
| | » *with LCD display, output in the form of a smooth sine wave , 600 W max. inverter output* | 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 |

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

| | w. 2 ball valves | Pump | Code |
|---|---|---|---|
| | CSE OTS<br>Insulated Pump Station with pump,<br>2 ball valves and thermometer.<br>1" F connection. | Wilo PARA 25/6 SC | 18611 |
| | | Grundfos UPM3 25-70 | 15325 |
| | **w. 2 ball valves, check valve** | **Pump** | **Code** |
| | CSE OTS ZV<br>Insulated Pump Station with pump,<br>2 ball valves, **check valve** and thermometer.<br>1" F connection. | Wilo PARA 25/8 SC | 17979 |
| | | Wilo PARA 25/8 iPWM1 | 18127 |
| | | Grundfos UPM3 25-70 | 15042 |
| | **w. 2 ball valves, check valve, filter&magnet** | **Pump** | **Code** |
| | CSE OTS MFB+ZV<br>Insulated Pump Station with pump, w. ball valve w. filter&magnet, ball valve w. non-return valve and thermometer.<br>1" F connection. | Wilo PARA 25/8 SC | 17818 |
| | | Grundfos UPM3 25-75 | 17922 |

| | RegulusTOP Single-pipe Pump Stations for unmixed heating circuits, uninsulated | Pump | Code |
|---|---|---|---|
| | CS KK<br>Pump, threaded fittings with shut-off ball valves.<br>1" F connection. | Wilo PARA 25/6 SC | 18563 |

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

| connection 1" | Pump | Code |
|---|---|---|
| CSE MIX 1F<br>$K_{vs}$ = 10 $m^3$/h, connection 3 x 1" F | Wilo PARA 25/6 SC | 18317 |
| | Wilo PARA 25/8 iPWM1 | 18128 |
| | Grundfos UPM3 25-70 | 16401 |
| CSE MIX 1M<br>$K_{vs}$ = 6,3 $m^3$/h, connection 2 x 1" M a 1 x 1" F | Wilo PARA 25/6 SC | 18730 |
| | Wilo PARA 25/8 SC | 17980 |
| | Grundfos UPM3 25-70 | 15208 |
| **connection 5/4"** | **Pump** | **Code** |
| CSE MIX 5/4F<br>$K_{vs}$ = 16 $m^3$/h, connection 3 x 5/4" F | Wilo PARA 25/8 SC | 18524 |
| | Grundfos UPM3 25-75 | 16402 |

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

| connection 1" | Pump | Code |
|---|---|---|
| CSE MIX-BP 1F<br>$K_{vs}$ = 10 $m^3$/h, connection 3 x 1" F | Wilo PARA 25/6 SC | 18731 |
| | Grundfos UPM3 25-70 | 18733 |
| **connection 5/4"** | **Pump** | **Code** |
| CSE MIX-BP 5/4F<br>$K_{vs}$ = 16 $m^3$/h, connection 3 x 5/4" F | Wilo PARA 25/6 SC | 18732 |
| | Grundfos UPM3 25-70 | 18753 |

## AVC Actuators for mixing valves – 3-point or 0-10 V control

| | Code |
|---|---|
| 230 V actuator for mixing valve, incl. 2m cable, 60 s, 5 Nm | 10875 |
| 230 V actuator for mixing valve, incl. 2m cable, 120 s, 5 Nm | 9193 |
| 230 V actuator for mixing valve, incl. 2m cable, 120 s, 5 Nm, auxiliary microswitch | 10878 |
| 230V actuator for mixing valve, incl. 2m cable, 240 s, 5 Nm | 10876 |
| 24 V actuator for mixing valve, incl. 2m cable, 120 s, 5 Nm | 11118 |
| 24 V actuator with 0-10V mixing valve control, incl. 2m cable, 60-120 s, 5 Nm | 14682 |
| 230V actuator incl. 2m cable, 60 s, 5 Nm, for mixing valve, control to fixed temperature, with one Pt1000 sensor | 16101 |
| 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 |

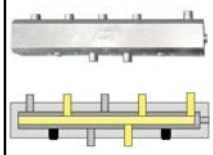
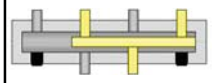
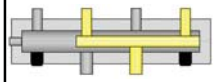
| RegulusTOP Twin-line Pump Stations for unmixed heating circuits | Pump | Code |
|---|---|---|
| CSE2 F<br>Insulated pump station - pump, filter w. strainer and magnet, non-return valve under the filter, ball valves, thermometers, connection fittings for a manifold.<br>Connections 1" F, pipe distance 125 mm. | Wilo PARA 25/6 SC | 18312 |
| | Wilo PARA 25/8 SC | 17936 |
| | Grundfos UPM3 25-75 | 17487 |

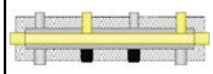
| RegulusTOP Twin-line Pump Stations for mixed heating circuits, with actuator | Pump | Code |
|---|---|---|
| CSE2 MIX F<br>Insulated pump station - 3-way mixing valve ($K_{vs}$=6.3.m$^3$/h) w. actuator w. 3-point control (230 V, 120 s, 5 Nm), pump, filter with strainer and magnet, non-return valve under the filter, ball valves, thermometers, connection fittings for a manifold.<br>Connections 1" F, pipe distance 125 mm. | Wilo PARA 25/6 SC | 18313 |
| | Wilo PARA 25/8 SC | 17937 |
| | Grundfos UPM3 25-75 | 17484 |

| RegulusTOP Twin-line Pump Stations for mixed heating circuits, without actuator | Pump | Code |
|---|---|---|
| CSE2 MIX-BP F<br>Insulated pump station - 3-way mixing valve ($K_{vs}$=6.3.m$^3$/h) **without actuator**, pump, filter with strainer and magnet, non-return valve under the filter, ball valves, thermometers, connection fittings for a manifold.<br>Connections 1" F, pipe distance 125 mm. | Wilo PARA 25/6 SC | 18314 |
| | Wilo PARA 25/8 SC | 17917 |
| | Grundfos UPM3 25-75 | 18082 |

| AVC Actuators for mixing valves – 3-point or 0-10 V control | Code |
|---|---|
| 230 V actuator for mixing valve, incl. 2m cable, 60 s, 5 Nm | 10875 |
| 230 V actuator for mixing valve, incl. 2m cable, 120 s, 5 Nm | 9193 |
| 230 V actuator for mixing valve, incl. 2m cable, 120 s, 5 Nm, auxiliary microswitch | 10878 |
| 230V actuator for mixing valve, incl. 2m cable, 240 s, 5 Nm | 10876 |
| 24 V actuator for mixing valve, incl. 2m cable, 120 s, 5 Nm | 11118 |
| 24 V actuator with 0-10V mixing valve control, incl. 2m cable, 60-120 s, 5 Nm | 14682 |
| 230V actuator incl. 2m cable, 60 s, 5 Nm, for mixing valve, integrated control to fixed temperature, with one Pt1000 sensor | 16101 |
| 230V mixing valve actuator, 2m cable, 120 s, 6 Nm, 3 Pt1000 sensors, integrated 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 |

| 1" Manifolds for heating systems | Code |
|---|---|
|  HV 60/125 SG-2<br>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<br>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<br>Manifold/collector - two 1" heating circuits with insulation, max. flowrate 2 $m^3$/h, pipe distance 125 mm | 9507 |
|  HV 60/125-3<br>Manifold/collector - three 1" heating circuits with insulation, max. flowrate 2 $m^3$/h, pipe distance 125 mm | 9508 |
| HV 70/125-4<br>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<br>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<br>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<br>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<br>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 |
|---|---|
| Pressure balancer between primary and secondary circuit - 1" F, max. flow rate 2 $m^3$/h<br>incl. threaded fittings | 9188 |
| Pressure balancer between primary and sec. circuit - 5/4" F, max. flow rate 3 $m^3$/h<br>incl. threaded fittings | 9514 |
| Pressure balancer between primary and sec. circuit - 2" M, max. flow rate 8 $m^3$/h<br>incl. threaded fittings | 17598 |
| Interconnection Kit for HV 80 Manifold/Collector and HVDT 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 |

| Regulus Pump Stations for large boiler rooms | | Code |
|---|---|---|
| | CS2 OTS MFB W 5/4F Pump Station<br>Pump Station, 5/4” F, Yonos MAXO pump (max. head 10,7 m, control Δp-c / Δp-v / I, II, III) and strainer with mesh and magnet. Pipe distance 125 mm.<br>Intended for 5/4” manifolds. | 17820 |
| | CS2 MIX ZV W 5/4F<br>Pump Station, 5/4” F, Yonos MAXO pump (max. head 10,7 m, control Δp-c / Δp-v / I, II, III),<br>3-way mixing valve ($K_{vs}$ = 16 $m^3$/h) with actuator w. 3-point control, ball valves. Pipe distance 125 mm.<br>Intended for 5/4” manifolds. | 17267 |
| | CS2 MIX MFB+ZV W 5/4F<br>Pump Station, 5/4” F, Yonos MAXO pump (max. head 10,7 m, control Δp-c / Δp-v / I, II, III),<br>3-way mixing valve ($K_{vs}$ = 16 $m^3$/h) with actuator w. 3-point control and strainer with mesh and magnet.<br>Pipe distance 125 mm.<br>Intended for 5/4” manifolds. | 17819 |

| Pump Stations for DHW recirculation | | Code |
|---|---|---|
| | CSE TV ZV G70 1F<br>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 I, II, III or PWM-A. | 15181 |
| | CSE TV ZV G70 3/4F<br>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.<br>Pump control I, II, III or PWM-A. | 18997 |
| | CSE TVMIX ZV G70 3/4M<br>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 I, II, III or PWM-A. | 17893 |
| **High-efficiency circulation pumps for drinking water** | | **Code** |
| | Wilo 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** |
| | Wilo Varios Pico STG 25/1-8 - 180 - 6/4" M, 230 V,<br>control Δp-c / Δp-v / I, II, III / PWM GT / PWM ST | 18738 |

| High-efficiency circulation pumps for heating systems | | Code |
|---|---|---|
| | Wilo Yonos Pico 25/1-4 Pump, 180 - 6/4" M, 230 V,<br>with display showing actual energy consumption, control Δp-c / Δp-v / I, II, III | 12130 |
| | Wilo Yonos Pico 25/1-6 Pump, 180 - 6/4" M, 230 V,<br>with display showing actual energy consumption, control Δp-c / Δp-v / I, II, III | 12131 |
| | Wilo Yonos Pico 25/1-8 Pump, 180 - 6/4" M, 230 V,<br>with display showing actual energy consumption, control Δp-c / Δp-v / I, II, III | 18176 |
| | Wilo Stratos PICO 25/1-4 - 180- 6/4" M, 230 V, with LCD display, incl. insulation,<br>control Δp-c / Δp-v / Dynamic Adapt | 10163 |
| | Wilo Stratos PICO 25/1-6 - 180- 6/4" M, 230 V, with LCD display, incl. insulation,<br>control Δp-c / Δp-v / Dynamic Adapt | 10164 |
| | Wilo Yonos MAXO 25/0,5-10 - 180 - 6/4" M, 230 V,<br>LCD display, control Δp-c / Δp-v / I, II, III | 16818 |
| | Grundfos ALPHA1 L 25-40 180-6/4" M pump, 230 V, no display,<br>control Δp-c / Δp-v / I, II, III / PWM-A | 16316 |
| | Grundfos ALPHA1 L 25-60 180-6/4" M pump, 230 V, no display,<br>control Δp-c / Δp-v / I, II, III / PWM-A | 16322 |
| | Grundfos ALPHA2 25-40 - 180 - 6/4" M pump, 230 V,<br>with display showing actual energy consumption, control Δp-c / Δp-v / I, II, III / AUTOADAPT | 12189 |
| | Grundfos ALPHA2 25-60 - 180 - 6/4" M pump, 230 V,<br>with display showing actual energy consumption, control Δp-c / Δp-v / I, II, III / AUTOADAPT | 12149 |

| 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 |
| | | 6/4"x5/4" Fu/F | 16953 |
| | Ball valve with union nut and check valve, nickel plated,<br>operated by tool, incl. gasket | 6/4" x 1" Fu/F | 14890 |

| Ball Valves with strainer & magnet | Connection | Code |
|---|---|---|
| MAGNET FILTERBALL with lever<br>Ball Valve with strainer and magnet (FxF thread)<br>– 0.6 mm mesh, up to 16 bar, -20 to 100 °C | 3/4" F | 17404 |
| | 1" F | 17405 |
| | 5/4" F | 17406 |
| | 6/4" F | 17407 |
| | 2" F | 17408 |
| MAGNET FILTERBALL with butterfly lever<br>Ball valve w. filter & magnet (inner x inner thread)<br>- 0.6 mm strainer, up to 16 bar, -20 to +100°C | 3/4" F | 18318 |
| | 1" F | 18319 |

| Ball valves with lever, intended aslo 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<br>(union nut x F thread) | 1/2" Fu/F | 17410 |
| | 3/4" Fu/F | 17411 |
| Ball Valve<br>(union nut x M thread) | 1/2" Fu/M | 17051 |
| | 3/4" Fu/M | 17052 |

| Ball Valves with union nut | Connection | Code |
|---|---|---|
| Ball Valve<br>(union nut x F thread) | 1" Fu/F | 15412 |
| Ball Valve<br>(union nut x M thread) | 3/4" Fu/M | 17654 |
| | 1" Fu/M | 17044 |
| Ball Valve w. drain valve<br>(union nut x F thread) | 3/4" Fu/F | 17414 |
| | 1" Fu/F | 17415 |
| Ball Valve w. drain valve<br>(union nut x M thread) | 3/4" Fu/M | 17412 |
| | 1" Fu/M | 17413 |
| Ball Valve angled<br>(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 |

| | Two-way Zone Ball Valves, 2-point control (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/90°, $K_{vs}$ = 8,5 $m^3$/h, NC, auxiliary microswitch | 11288 |
| | VZK 220-230-1P, 3/4" F, DN 20, 230 V, 30 s/90°, $K_{vs}$ = 20 $m^3$/h, NC, auxiliary microswitch | 10344 |
| | VZK 225-230-1P, 1" F, DN 25, 230 V, 30 s/90°, $K_{vs}$ = 30 $m^3$/h, NC, auxiliary microswitch | 11289 |
| | **Two-way Zone Valves, return spring, 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 |
| | **Two-way Zone Gate Valves, on/off live and permanent live, 230 V, PN 10** | **Code** |
| | LK 525 Cu 22, DN 20, 230 V, 12 s/90°, with actuator and cable, $K_{vs}$ = 11 $m^3$/h, NC | 14896 |
| | LK 525 Cu 28, DN 25, 230 V, 12 s/90°, with actuator and cable, $K_{vs}$ = 11 $m^3$/h, NC | 14897 |
| | LK 525 1" M, DN 25, 230V, 12 s/90°, with actuator and cable, $K_{vs}$ = 11 $m^3$/h, NO | 12874 |
| | LK 525 5/4" M, DN 32, 230V, 12 s/90°, with actuator and cable, $K_{vs}$ = 11 $m^3$/h, NO | 12875 |
| | LK 525 1" M, DN 25, 230V, 12 s/90°, with actuator and cable, $K_{vs}$ = 11 $m^3$/h, NC | 16283 |
| | LK 525 5/4" M, DN 32, 230V, 12 s/90°, with actuator and cable, $K_{vs}$ = 11 $m^3$/h, NC | 16284 |
| | **Accessories to Valves with on/off live and permanent live el. connection** | **Code** |
| | IP44 protected box with 2A fuse, to power supply valves with on/off live and permanent live el. connection (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

## Two-way Zone Solenoid Valves, 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 valve body, 3/8" F, DN 10 | 032U1241 | 12265 |
| EV220B NC valve body, 1/2" F, DN 15 | 032U1251 | 12266 |

| EV220 B valve bodies, EPDM membrane, 0.3-16 bar, indirect control | | Code |
|---|---|---|
| EV220B NC valve body, 1/2" F, DN 15 | 032U7115 | 12267 |
| EV220B NC 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 |
| Terminal for BB coil, IP 65 | 042N0156 | 12271 |

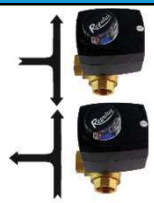
## 3-way Zone Ball Valves, manual control, PN 16, 110 °C, suitable also for drinking water

| | Code |
|---|---|
| VZK M 325 L 3/4F - 3/4" F, DN 25, $K_{vs}$=13,1 $m^3$/h, manual control, L-bore | 18862 |
| VZK M 325 L 1F - 1" F, DN 25, $K_{vs}$=14,3 $m^3$/h, manual control, L-bore | 18860 |
| VZK M 325 L 5/4F - 5/4" F, DN 25, $K_{vs}$=14,3 $m^3$/h, manual control, L-bore | 18864 |
| VZK M 325 L 6/4M - 6/4" M*, DN 25, $K_{vs}$=14,3 $m^3$/h, manual control, L-bore | 19002 |

| | Code |
|---|---|
| VZK M 325 T 3/4F - 3/4" F, DN 25, $K_{vs}$=13,1 $m^3$/h, manual control, T-bore | 18866 |
| VZK M 325 T 1F - 1" F, DN 25, $K_{vs}$=14,3 $m^3$/h, manual control, T-bore | 18865 |
| VZK M 325 T 5/4F - 5/4" F, DN 25, $K_{vs}$=14,3 $m^3$/h, manual control, T-bore | 18867 |
| VZK M 325 T 6/4M - 6/4" M*, DN 25, $K_{vs}$=14,3 $m^3$/h, manual control, T-bore | 19004 |

| Actuators for VZK Ball Valves, bidirectional, 230 V | Code |
|---|---|
| 230V actuator for ball valve, incl. 2m cable, 15 s, 5 Nm, 2-point control (ON/OFF live and permanent live), incl. adapter for connecting to VZK M valves. | 17176 |
| 230V actuator for ball valve, incl. 2m cable, 60 s, 5 Nm, 2-point control (ON/OFF live and permanent live), incl. adapter for connecting to VZK M valves. | 14093 |
| 230V actuator for ball valve, incl. 2m cable, 60 s, 5 Nm, 3-point control (1 live closes, 1 live opens), incl. adapter for connecting to VZK M valves | 18626 |
| Adapter for connecting actuators for AVC mixing valves to VZK M valves | 14094 |

* pump fittings on page 73 can be used to connect 6/4 "M valves

| | 3-way Zone Ball Valves, bidirectional actuator, 2-point control (on/off live and permanent live), 230 V, PN 16, 110 °C, suitable also for drinking water | Code |
|---|---|---|
| | VZK R 325-230-1P-60 L, 3/4" F, DN 25, 230 V, 60 s/90°, $K_{vs}$=13,1 $m^3$/h, L-bore | 13603 |
| | VZK R 325-230-1P-15 L, 1" F, DN 25, 230 V, 15 s/90°, $K_{vs}$=14,3 $m^3$/h, L-bore | 19000 |
| | VZK R 325-230-1P-60 L, 1" F, DN 25, 230 V, 60 s/90°, $K_{vs}$=14,3 $m^3$/h, L-bore | 13604 |
| | VZK R 325-230-1P-60 L, 5/4" F, DN 25, 230 V, 60 s/90°, $K_{vs}$= 14,3 $m^3$/h, L-bore | 18671 |
| | VZK R 325-230-1P-15 L, 6/4" M*, DN 25, 230 V, 15 s/90°, $K_{vs}$= 14,3 $m^3$/h, L-bore | 19005 |
| | VZK R 325-230-1P-60 T, 3/4" F, DN 25, 230 V, 60 s/90°, $K_{vs}$=13,1 $m^3$/h, T-bore | 18673 |
| | VZK R 325-230-1P-15 T, 1" F, DN 25, 230 V, 15 s/90°, $K_{vs}$=14,3 $m^3$/h, T-bore | 19001 |
| | VZK R 325-230-1P-60 T, 1" F, DN 25, 230 V, 60 s/90°, $K_{vs}$=14,3 $m^3$/h, T-bore | 18550 |
| | VZK R 325-230-1P-60 T, 5/4" F, DN 25, 230 V, 60 s/90°, $K_{vs}$= 14,3 $m^3$/h, T-bore | 18676 |
| | VZK R 325-230-1P-15 T, 6/4" M*, DN 25, 230 V, 15 s/90°, $K_{vs}$= 14,3 $m^3$/h, T-bore | 19006 |
| | **3-way Zone Ball Valves, bidirectional actuator, 3-point control (1 live closes, 1 live opens), 230 V, PN 16, 110 °C, suitable also for drinking water** | **Code** |
|  | VZK S 325-230-2P-60 L, 3/4" F, DN 25, 230 V, 60 s/90°, $K_{vs}$=13,1 $m^3$/h, L-bore | 11286 |
| | VZK S 325-230-2P-60 L, 1" F, DN 25, 230 V, 60 s/90°, $K_{vs}$=14,3 $m^3$/h, L-bore | 11287 |
| | VZK S 325-230-2P-60 T, 3/4" F, DN 25, 230 V, 60 s/90°, $K_{vs}$=13,1 $m^3$/h, T-bore | 18674 |
| | VZK S 325-230-2P-60 T, 1" F, DN 25, 230 V, 60 s/90°, $K_{vs}$=14,3 $m^3$/h, T-bore | 18675 |

On request we produce special configurations of motorized/manual 3-way zone ball valves.

| | 3-way Zone Ball Valves, opposite location of actuator, 2-point control (on/off live and permanent live), 230 V, PN 16, 110 °C, suitable also for drinking water | Code |
|---|---|---|
| | VZK 320-230-1P, 3/4" F, DN 20, 230 V, 64 s/180°, $K_{vs}$ = 7 $m^3$/h, auxiliary microswitch | 11293 |
| | VZK 325-230-1P, 1" F, DN 25, 230 V, 64 s/180°, $K_{vs}$ = 11 $m^3$/h, auxiliary microswitch | 11294 |
| | **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 |
| | **3-way Zone Gate Valves, 2-point control, on/off live and permanent live, 230 V, PN 10, 80 °C** | **Code** |
| | LK 525 Cu 22, DN 20, 230 V, 8 s/60°, with actuator and cable, $K_{vs}$ = 8 $m^3$/h | 14883 |
| | LK 525 Cu 28, DN 25, 230 V, 8 s/60°, with actuator and cable, $K_{vs}$ = 8$m^3$/h | 14884 |
| | LK 525 1" M, DN 25, 230 V, 8 s/60°, with actuator and cable, $K_{vs}$ = 8 $m^3$/h | 11284 |
| | LK 525 5/4" M, DN 32, 230 V, 8 s/60°, with actuator and cable, $K_{vs}$ = 8$m^3$/h | 11285 |
| | Adapter for LK 525 valve, for actuator max. temp. increase to 120 °C | 11278 |
| | Sealing O-ring for Cu 28 pipes | 13393 |
| | **Accessories to Valves with on/off live and permanent live el. connection** | **Code** |
| | IP44 protected box with 2A fuse, to power supply valves with on/off live and permanent live el. connection (VZK and LK zone valves) | 11685 |

* pump fittings on page 79 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 $m^3$/h, new generation 2.0 | 16764 |
| 3-way mixing valve, 1/2" F, DN 15, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 11489 |
| 3-way mixing valve, 3/4" F, DN 20, PN10, 110 °C, $K_{vs}$ = 4.0 $m^3$/h, new generation 2.0 | 16760 |
| 3-way mixing valve, 3/4" F, DN 20, PN10, 110 °C, $K_{vs}$ = 6.3 $m^3$/h, new generation 2.0 | 16698 |
| 3-way mixing valve, 1" F, DN 25, PN10, 110 °C, $K_{vs}$ = 6.3 $m^3$/h, new generation 2.0 | 16758 |
| 3-way mixing valve, 1" F, DN 25, PN10, 110 °C, $K_{vs}$ = 10 $m^3$/h, new generation 2.0 | 16700 |
| 3-way mixing valve, 5/4" F, DN 32, PN10, 110 °C, $K_{vs}$ = 16 $m^3$/h , new generation 2.0 | 16693 |
| 3-way mixing valve, 6/4" F, DN 40, PN10, 110 °C, $K_{vs}$ = 25 $m^3$/h, new generation 2.0 | 16762 |
| 3-way mixing valve, 2" F, DN 50, PN10, 110 °C, $K_{vs}$ = 40 $m^3$/h, new generation 2.0 | 16697 |

| LK 840 3-way mixing valves, M connection | Code |
|---|---|
| 3-way mixing valve, 3/4" M, DN 20, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 14822 |
| 3-way mixing valve, 1" M, DN 25, PN10, 110 °C, $K_{vs}$ = 4.0 $m^3$/h, new generation 2.0 | 16768 |
| 3-way mixing valve, 1" M, DN 25, PN10, 110 °C, $K_{vs}$ = 6.3 $m^3$/h, new generation 2.0 | 16695 |
| 3-way mixing valve, 5/4" M, DN 32, PN10, 110 °C, $K_{vs}$ = 12 $m^3$/h, new generation 2.0 | 18784 |
| 3-way mixing valve, 6/4" M, DN 40, PN10, 110 °C, $K_{vs}$ = 15 $m^3$/h | 14827 |
| 3-way mixing valve, 2" M, DN 50, PN10, 110 °C, $K_{vs}$ = 24 $m^3$/h | 14828 |

| LK 840 3-way mixing valves, for copper pipes | Code |
|---|---|
| 3-way mixing valve, Cu 15, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 15771 |
| 3-way mixing valve, Cu 18, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 15772 |
| 3-way mixing valve, Cu 22, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 15773 |
| 3-way mixing valve, Cu 22, PN10, 110 °C, $K_{vs}$ = 6.3 $m^3$/h | 15774 |
| 3-way mixing valve, Cu 28, PN10, 110 °C, $K_{vs}$ = 4.0 $m^3$/h | 15775 |
| 3-way mixing valve, Cu 28, PN10, 110 °C, $K_{vs}$ = 6.3 $m^3$/h | 15776 |

| LK 841 4-way mixing valves, F connection | Code |
|---|---|
| 4-way mixing valve, 1/2" F, DN 15, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 14859 |
| 4-way mixing valve, 3/4" F, DN 20, PN10, 110 °C, $K_{vs}$ = 4.0 $m^3$/h | 14864 |
| 4-way mixing valve, 3/4" F, DN 20, PN10, 110 °C, $K_{vs}$ = 6.3 $m^3$/h, new generation 2.0 | 16780 |
| 4-way mixing valve, 1" F, DN 25, PN10, 110 °C, Kvs = 10 m3/h, new generation 2.0 | 16694 |
| 4-way mixing valve, 5/4" F, DN 32, PN10, 110 °C, Kvs = 16 m3/h, new generation 2.0 | 16699 |
| 4-way mixing valve, 6/4" F, DN 40, PN10, 110 °C, $K_{vs}$ = 24 $m^3$/h | 12664 |
| 4-way mixing valve, 2" F, DN 50, PN10, 110 °C, $K_{vs}$ = 40 $m^3$/h | 12665 |

| LK 841 4-way mixing valves, M connection | Code |
|---|---|
| 4-way mixing valve, 3/4" M, DN 20, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 14829 |
| 4-way mixing valve, 1" M, DN 25, PN10, 110 °C, $K_{vs}$ = 4.0 $m^3$/h | 14830 |
| 4-way mixing valve, 1" M, DN 25, PN10, 110 °C, $K_{vs}$ = 6.3 $m^3$/h, new generation 2.0 | 16777 |
| 4-way mixing valve, 5/4" M, DN 32, PN10, 110 °C, $K_{vs}$ = 8.0 $m^3$/h | 14832 |
| 4-way mixing valve, 5/4" M, DN 32, PN10, 110 °C, $K_{vs}$ = 12 $m^3$/h | 14833 |
| 4-way mixing valve, 6/4" M, DN 40, PN10, 110 °C, $K_{vs}$ = 15 $m^3$/h | 14834 |

| LK 841 4-way mixing valves, for copper pipes | Code |
|---|---|
| 4-way mixing valve, Cu 15, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 15777 |
| 4-way mixing valve, Cu 18, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 15778 |
| 4-way mixing valve, Cu 22, PN10, 110 °C, $K_{vs}$ = 2.5 $m^3$/h | 15779 |
| 4-way mixing valve, Cu 28, PN10, 110 °C, $K_{vs}$ = 4.0 $m^3$/h | 15780 |
| 4-way mixing valve, Cu 28, PN10, 110 °C, $K_{vs}$ = 6.3 $m^3$/h, new generation 2.0 | 16789 |

| | AVC Actuators for mixing valves – 3-point control (1 live closes, 1 live opens) | Code |
|---|---|---|
| | 230 V actuator for mixing valve, incl. 2m cable, 60 s, 5 Nm | 10875 |
| | 230 V actuator for mixing valve, incl. 2m cable, 120 s, 5 Nm | 9193 |
| | 230 V actuator for mixing valve, incl. 2m cable, 120 s, 5 Nm, auxiliary microswitch | 10878 |
| | 230V actuator for mixing valve, incl. 2m cable, 240 s, 5 Nm | 10876 |
| | 24 V actuator for mixing valve, incl. 2m cable, 120 s, 5 Nm | 11118 |
| | 24 V actuator with 0-10V mixing valve control, incl. 2m cable, 60-120 s, 5 Nm | 14682 |
| | 24 V actuator with 0-10V mixing valve control, incl. 2m cable, 60-120 s, 10 Nm | 10873 |
| | **ACC Actuators for mixing valves, control to fixed temperature** | **Code** |
| | 230V actuator incl. 2m cable, 60 s, 5 Nm, for mixing valve, integrated control to fixed temperature, with one Pt1000 sensor | 16101 |
| | 230V actuator incl. 2m cable, 60 s, 5 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 | 16149 |
| | T2 Temperature Sensor with 3m cable – Pt1000 for fixed temperature actuators | 16150 |
| | **AHC actuators for mixing valves with weather compensation** | **Code** |
| | 230V mixing valve actuator, 2m cable, 120 s, 6 Nm, 3 Pt1000 sensors, weather compensated heating system control | 16253 |
| | RCD2 Room Unit for AHC40 actuator | 16973 |
| | **Mixing valves - kits** | **Code** |
| | 3-way mixing valve, 1“ F, DN 25, with 230V actuator, 120 s, $K_{vs}$=10 $m^3$/h | 13230 |
| | 3-way mixing valve, 1“ F, DN 25, with 230V actuator, 120 s, $K_{vs}$=10 $m^3$/h and CS KK W6 pump station | 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 |

| | | |
|---|---|---|
| | **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 $m^3$/h | 14508 |
| | Anti-Scald Valve TVmix, 35-65 °C, 3/4" M, DN 20, $K_{vs}$=1,6 $m^3$/h | 14509 |
| | Anti-Scald Valve TVmix, 35-65 °C, 1" M, DN 25, $K_{vs}$=1,8 $m^3$/h | 14510 |
| | Anti-Scald Valve TVmix, 35-65 °C, 1/2" F, DN 15, $K_{vs}$=1,6 $m^3$/h | 14511 |
| | Anti-Scald Valve TVmix, 35-65 °C, 3/4" F, DN 20, $K_{vs}$=1,8 $m^3$/h | 14512 |
| | Anti-Scald Valve TVmix, 35-65 °C, Cu 15x1, $K_{vs}$=1,3 $m^3$/h | 14513 |
| | Anti-Scald Valve TVmix, 35-65 °C, Cu 22x1, $K_{vs}$=1,8 $m^3$/h | 14515 |
| | **Knob adjustable, with check valves** | **Code** |
| | Anti-Scald Valve TVmix, 35-65 °C, 1/2" M, DN 15, $K_{vs}$=1,2 $m^3$/h, check valve | 14903 |
| | Anti-Scald Valve TVmix, 35-65 °C, 3/4" M, DN 20, $K_{vs}$=1,3 $m^3$/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 20, $K_{vs}$=1,6 $m^3$/h, check valve, recirculation | 17602 |
| | **Thermostatic Element** | **Code** |
| | Thermostatic Element 35-65 °C - spare element for TVmix | 14738 |
| | **Thermostatic Mixing Valves for DHW, side outlet** | **Code** |
| | LK 550-22 Thermostatic Valve for DHW, 38-65 °C, Cu 22x1 connection, $K_{vs}$=2.2 $m^3$/h, incl. 1 cold-water check valve and pipe fittings | 10303 |
| | Check valve to be incorporated into TERMOMIX (only if connected to Cu 22x1 pipe) | 10591 |
| | LK 550-1/2 Tthermostatic valve for DHW, 38-65 °C, 1/2", DN 15, $K_{vs}$=1.2 $m^3$/h | 10874 |
| | LK 550-3/4 Thermostatic valve for DHW, 38-65 °C, 3/4", DN 20, $K_{vs}$=2.2 $m^3$/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-K S20, 30-65 °C, 3/4" M, DN 20, $K_{vs}$=0.9 $m^3$/h | 12023 |
| | Anti-Scald Valve Wmix-K S25, 30-65 °C, 1" M, DN 25, $K_{vs}$=1.0 $m^3$/h | 12020 |
| | Anti-Scald Valve Wmix-K S32, 30-65 °C, 5/4" M, DN 32, $K_{vs}$=4.0 $m^3$/h | 12025 |
| | **Knob adjustable, with check valves and strainers** | **Code** |
| | Anti-Scald Valve Wmix-K S20, 30-65 °C, 3/4" M, DN 20, $K_{vs}$=0.9 $m^3$/h incl. 3 threaded fittings and 1/2" M inlet check valves with strainer | 11663 |
| | Anti-Scald Valve Wmix-K S25, 30-65 °C, 1" M, DN 25, $K_{vs}$=1.0 $m^3$/h incl. 3 threaded fittings and 3/4" M inlet check valves with strainer | 11664 |
| | Anti-Scald Valve Wmix-K 32, 30-65 °C, 5/4" M, DN 32, $K_{vs}$=4.0 $m^3$/h incl. 3 threaded fittings and 1" M inlet check valves with strainer | 11674 |
| | **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 $m^3$/h | 7079 |

| | Thermostatic Heads | Connection | Code |
|---|---|---|---|
| | TH 01 B Thermostatic Head | M30x1,5 | 17105 |
| | TH 03 B Thermostatic Head | M30x1,5 | 17106 |
| | TH 01 C Thermostatic Head | M30x1,5 | 15269 |
| | TH 02 BC Thermostatic Head | M30x1,5 | 15270 |

| | Radiator Valves | Connection | Code |
|---|---|---|---|
| | Radiator H shut off valve for bottom connection of radiator with 1/2" inner thread, straight, connection of pipes by compression fittings. | 1/2" x 3/4" | 18058 |
| | Radiator H shut off valve for bottom connection of radiator with 1/2" inner thread, angled, connection of pipes by compression fittings. | 1/2" x 3/4" | 18059 |
| | Compression fitting for ALPEX | 16 x 3/4" | 18060 |
| | Compression fitting for PEX | 16 x 3/4" | 18061 |
| | Compression fitting for Cu | 15 x 3/4" | 18062 |
| | **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 | 3/8"F | 17099 |
| | | 1/2" F | 16471 |
| | | 3/4" F | 16472 |
| | | 1" F | 17108 |
| | Radiator valve for thermostatic head, for radiator inlet, - angled, female thread | 3/8"F | 17100 |
| | | 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 presure | 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 |
| Safety valve, 3/4" F | 1,5 bar | 15383 |
| | 2 bar | 15384 |
| | 2,5 bar | 15385 |
| | 3 bar | 15386 |
| | 4 bar | 15387 |
| | 6 bar | 15388 |
| Safety valve, 1" F | 2,5 bar | 15396 |
| | 3 bar | 15397 |
| | 4 bar | 15398 |
| | 6 bar | 15399 |

| M/F connections | Opening presure | 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 |
| | 8 bar | 18284 |
| | 10 bar | 17853 |
| Safety valve, 3/4" M/F | 1,5 bar | 15389 |
| | 2 bar | 15390 |
| | 2,5 bar | 15391 |
| | 3 bar | 15392 |
| | 4 bar | 15393 |
| | 6 bar | 15394 |
| | 7 bar | 17850 |
| | 8 bar | 18286 |
| | 10 bar | 17854 |

| F/F connections, reducer | Opening presure | Code |
|---|---|---|
| Safety valve, 1/2"x3/4" F | 2,5 bar | 15375 |
| | 3 bar | 15376 |
| | 4 bar | 15377 |
| | 6 bar | 15378 |
| Safety valve, 3/4"x1" F | 2,5 bar | 11896 |
| | 3 bar | 11898 |
| | 4 bar | 15395 |
| | 6 bar | 11905 |
| Safety valve, 1"x5/4" F | 3 bar | 15120 |
| | 4 bar | 15121 |
| | 6 bar | 15122 |
| | 10 bar | 15366 |

| M/F connections, reducer | Opening presure | Code |
|---|---|---|
| Safety valve, 1/2"x3/4" M/F | 2,5 bar | 15379 |
| | 3 bar | 15380 |
| | 4 bar | 15381 |
| | 6 bar | 15382 |

| Drain tundishes for safety valve outlet | Connection | Code |
|---|---|---|
| Tundish (F x F thread)<br>- not intended for drinking water | 1/2" F | 14062 |
| | 3/4" F | 14063 |
| | 1" F | 14064 |
| | 5/4" F | 14065 |

| | Safety Assemblies | PV Opening pressure | Code |
|---|---|---|---|
| | Insulated Safety Assembly<br>– safety valve, air vent valve, 0-4 bar pressure gauge<br>- 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** |
| | Automatic air vent valve with check valve OV1, top outlet | 1/2" M | 5373 |
| | | 3/8" M | 5601 |
| | 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,<br>plastic rotary side outlet | 1/2" M | 11726 |
| | | 3/8" M | 11725 |
| | Air vent valve, automatic with check valve<br>- brass side outlet | 1/2" M | 18511 |
| | Automatic air vent valve with check valve, side inlet, top outlet | 1/2" M | 11724 |
| | | 3/8" M | 11723 |
| | **Check valves, 120 °C, 25 bar** | **Connection** | **Code** |
| | Check valve (female thread) | 1/2" F | 11907 |
| | | 3/4" F | 11908 |
| | | 1" F | 11906 |
| | | 5/4" F | 11909 |
| | **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<br>Filter with magnet incl. ball valves,<br>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 |
| | | 6/4"x5/4" M | 8767 |
| | Extension (female x male thread), 20 mm long | 3/4" F/M | 14304 |
| | Extension (female x male thread), 19 mm long | 1" F/M | 14305 |
| | Reducing hex adaptor (outer x inner threads) | 1/2"x1/4" M/F | 16169 |
| | | 3/4"x1/2" M/F | 6964 |
| | | 1"x1/2" M/F | 14307 |
| | | 1"x3/4" M/F | 14306 |
| | | 5/4"x1/2" M/F | 8564 |
| | | 5/4"x1" M/F | 13395 |
| | | 6/4"x1" M/F | 7882 |
| | | 6/4"x5/4" M/F | 15820 |
| | Reducing hex adaptor (male x female thread) – non hex | 6/4"x1" M/F | 15873 |
| | 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"x3/4"x6/4" 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 |
| | Union flat sealing (F x F) incl. gasket | 1" F | 15805 |
| | | 5/4" F | 15822 |
| | Ball valve with union nut,incl. gasket | 6/4"x1" Fu/F | 15200 |
| | | 6/4"x5/4" Fu/F | 17835 |
| | Union, nickel plated, incl. gasket | 6/4"x1" Fu/F | 13253 |
| | Union, incl. gasket | 6/4"x1" Fu/F | 5597 |
| | | 6/4"x5/4" Fu/F | 16234 |
| | | 2"x5/4" Fu/F | 16227 |

| | Unions for pump stations and valves | | Code |
|---|---|---|---|
| | Union (union nut x M) incl. gasket | 3/4" Fu/M | 15693 |
| | | 1" Fu/M | 15695 |
| | Union (union nut x F) incl. gasket | 3/4" Fu/F | 15692 |
| | | 1" Fu/F | 15694 |
| | | 1"x5/4" Fu/F | 17920 |
| | | 5/4"x1" Fu/F | 15795 |
| | 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 |
| | Set of unions (union nut x F) - 3 pcs, incl. gaskets | 5/4"x1" Fu/F | 12699 |
| | T-piece, 1" M/Fu/M, 125 mm pitch, incl. gasket - for connection of CSE MIX 1" M to manifolds | | 16659 |
| | T-piece, 1" M/Fu/M, 90 mm pitch, incl. gasket - for connection of return line in CSE MIX 1" M | | 16660 |

| | 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 |

| | Compression Fittings for copper pipes | | Code |
|---|---|---|---|
| | Compression ring | Cu 22 | 7330 |
| | | Cu 28 | 13393 |
| | Pipe insert | Cu 22 (x 0,8 max) | 12923 |
| | | Cu 28 (x 1 max) | 15900 |
| | Straight Compression Fitting | Cu 18 | 17794 |
| | | Cu 22 | 7629 |
| | | Cu 28 | 13394 |
| | Compression fitting adaptor, straight (with enlarged sealing area at the M thread) | Cu 18 x 1/2" M | 17797 |
| | | Cu 22 x 3/4" M | 13695 |
| | | Cu 28 x 1" M | 13391 |
| | | Cu 28 x 5/4" M | 17090 |
| | Ball valve with union nut, incl. gasket | Cu 22 x 6/4" Fu | 17293 |
| | | Cu 28 x 6/4" Fu | 17295 |
| | Elbow compression fitting | Cu 28 | 16437 |
| | Elbow compression adaptor (with enlarged sealing area at the M thread) | Cu 22 x 3/4" M | 13694 |
| | | Cu 28 x 1" M | 15985 |
| | | Cu 28 x 5/4" M | 17091 |
| | X-piece (with enlarged sealing area at the M thread) | Cu 22 x 3/4" M x 1/2" F x 3/8" F se zátkou | 13716 |
| | Blind hex compression fitting | Cu 22 | 13696 |

| | Fittings to braze on copper pipes | | Code |
|---|---|---|---|
| | Union braze adaptor, incl. gasket | Cu 28 x 5/4" Fu | 6765 |
| | Union braze adaptor, incl. gasket - set of 3 pcs | Cu 28 x 5/4" Fu | 12700 |

| 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 |
| DN 12 Wall clamp with M8 head, screw and dowel included. | 14160 |
| DN 15 Wall clamp with M8 head, screw and dowel included. | 14161 |
| DN 20 Wall clamp with M8 head, screw and dowel included. | 14162 |
| **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 |

**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 16 stainless-steel pipe - sold by the meter | 14701 |
| DN 16 stainless-steel pipe - 5 m | 16386 |
| DN 16 stainless-steel pipe - 10 m | 16387 |
| DN 16 stainless-steel pipe - 15 m | 16388 |
| 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** | **Pipe size:** | **Code** |
|---|---|---|
| Set of 4 nuts, lock rings, gaskets and rim nipple | DN 16 | 9644 |
| | DN 20 | 9645 |
| Lock rings | DN 16 | 8802 |
| | DN 20 | 8803 |
| 3/4" nut | DN 16 | 8799 |
| 1" nut | DN 20 | 8800 |
| Rim nipple 3/4" M | DN 16 | 6970 |
| Rim nipple 1" M | 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 |

| 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 |

| | 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 |
| | | 6/4"x5/4" M | 8767 |
| | Reducing hex adaptor (outer x inner threads) | 3/4"x1/2" M/F | 6964 |
| | | 1"x1/2" M/F | 14307 |
| | | 1"x3/4" M/F | 14306 |
| | | 5/4"x1/2" M/F | 8564 |
| | | 5/4"x1" M/F | 13395 |
| | | 6/4"x1" M/F | 7882 |
| | | 6/4"x5/4" M/F | 15820 |
| | 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 (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., DNa shows the insulation hole diam. i.e. max. outer diam. of pipes (mm)**

| *Insulation, 13 mm thick* | packed in cardboard | Code |
|---|---|---|
| Insulation $DN_a$ 10 | 140 m* | 6442 |
| Insulation $DN_a$ 13 | 120 m* | 6443 |
| Insulation $DN_a$ 16 | 136 m* | 6444 |
| Insulation $DN_a$ 18 - sold by the meter | 30 m | 7426 |
| Insulation $DN_a$ 22 - sold by the meter | 22 m | 7473 |
| Insulation $DN_a$ 28 | 78 m* | 6447 |
| Insulation $DN_a$ 35 | 58 m* | 7187 |

| *Insulation, 19 mm thick* | packed in cardboard | Code |
|---|---|---|
| Insulation $DN_a$ 15 | 56 m* | 7053 |
| Insulation $DN_a$ 18 - sold by the meter | 13 m | 7346 |
| Insulation $DN_a$ 18, self-adhesive, cut lengthwise | 48 m* | 7189 |
| Insulation $DN_a$ 22 - sold by the meter | 11 m | 7347 |
| Insulation $DN_a$ 22, self-adhesive, cut lengthwise | 40 m* | 7190 |
| Insulation $DN_a$ 28, sold by the meter | 18 m | 12155 |
| Insulation $DN_a$ 28, self-adhesive, cut lengthwise | 36 m* | 9391 |
| Insulation $DN_a$ 35 | 32 m* | 7188 |
| Insulation $DN_a$ 35, self-adhesive, cut lengthwise | 32 m* | 9392 |

| 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 200 g with a brush - 105 °C | 12300 |
| Glue 250 g with a brush - 150 °C | 6452 |
| Glue 700 g - 150 °C | 6451 |

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

| Boiler cleaning and maintenance | Code |
|---|---|
| ALU CLEANER A+B<br>– cleaning of Al combustion chambers in condens. boilers - 10+10 kg | 13249 |
| ALU CLEANER A+B<br>– cleaning of Al combustion chambers in condens. boilers - 1+1 kg | 18379 |
| 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 |

| SISEAL - thread sealing putty | Code |
|---|---|
| S26 Siseal 26 thread sealant, 50 g | 931 |
| S24 Siseal 24 thread sealant, 100 g | 436 |
| S25 Siseal 25 thread sealant, 250 g | 520 |

| Sealing yarns | Code |
|---|---|
| TWINE SEAL sealing yarn, 175 m, for use up to 240 °C | 10293 |
| Tangit UNI-LOCK sealing yarn, 160 m | 5783 |

| Hemp | Code |
|---|---|
| Hemp 1000 g De luxe, heavy duty packing | 10289 |
| Kolgas-uni 400 g<br>sealing paste for threaded and flanged connections, for use with hemp or gaskets | 10279 |

| 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. 56 l/min, 10 m head, 20 l tank volume. | 590 |
| DOS40 V4V 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. 70 l/min, 10 m head, 25 l tank volume. | 7786 |
| BOSS 5 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. 18 l/min, 7 m head, 5 l tank volume. | 5990 |

| 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 LIQUID neutralization liquid, 10 kg plastic container, to remove residual acidity | 4006 |

## Liquids for heating systems

| Heating system protectors | Code |
|---|---|
| BP 100 Plus protective fluid for heating systems (1 l bottle) | 18186 |
| BP 700A protective fluid for heating systems in plastics (1 l bottle) | 18184 |

| Heating system cleaners | Code |
|---|---|
| BP 400 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 cleaning fluid for heating systems (1 l bottle) - for use with descaling pumps | 18948 |

| 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 |

| Antifreeze fluid for Regulus solar collectors | | |
|---|---|---|
| | ***» SOLARTEN SUPER - fluid based on mono propylene glycol. Extended warranty for Regulus flat plate collectors is valid only when this fluid is used.*** | **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 barrel **x** | 10112 |
| | ***» SOLARTEN HT is a fluid based on heavy glycols with low freezing point for thermally highly stressed solar thermal systems. It must not be mixed with Solarten Super fluid. Extended warranty for Regulus evacuated-tube collectors is valid only when this fluid is used.*** | **Code** |
| | Solarten HT, 5 l container | 14951 |
| | Solarten HT, 10 l container | 14095 |
| | Solarten HT, 25 l container | 14096 |
| | Solarten HT, 60 l container | 14952 |
| | Solarten HT, 200 l barrel **x** | 14953 |

| Antifreeze fluids for heating and cooling systems, incl. heat pump primary circuits | Pack. | Code |
|---|---|---|
| | 5 l | 11430 |
| CONVECT heat R<br>Antifreeze heat transfer fluid with anti-corrosion protection. Concentrated.<br>Dilution ratio/freezing point: 1:2 /-19 °C, 1:2,25/-15 °C, 1:3 /-13 °C | 25 l | 10769 |
| <br>(200 l barrel upon order only) | 200 l | 11493 |

| Accessories for handling antifreeze fluid | Code |
|---|---|
| Refractometer - for measurements of antifreeze fluid properties in solar systems | 6933 |
| Manual filling pump<br>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<br>- 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.<br>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 + elbow 8222, 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 | A2001114 | 4115 |
| | 0.25 m Extension, Al/Fe | A2007000 | 9594 |
| | 0.5 m Extension, Al/Al | A2001113 | 4116 |
| | 0.5 m Extension, Al/Fe | A2007001 | 1888 |
| | Pipe with inspection hole, 0.33 m long | A2001609 | 8433 |
| | 90° Elbow with upsized flange and inspection hole | A2007065 | 14311 |
| | 90° Elbow with tap holes, flanged | A2001879 | 7486 |
| | 90° Elbow with upsized rotating plastic flange, with tap holes | A20011114 | 8515 |
| | 90° Elbow, Al/Fe | A2001699 | 7478 |
| | 90° Elbow, cast aluminum | A2001844 | 2078 |
| | 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 discharg | A20011113 | 8460 |
| | Flanged section with tap holes | A2001755 | 1057 |
| | Boiler coupling, with clamp, tap holes and condensate discharge | A20011127 | 8225 |
| | Spigot coupling, Al/Al | A2001122 | 2161 |
| | Clamp and sleeve | A2015017 | 5911 |
| | Sealing O-ring, diam. 60 mm, 2 lips | A1013176 | 1851 |
| | Sealing O-ring, diam.100 mm, 2 lips, grey silicone - intake only | A1015165 | 6434 |
| | Inner wall sealing collar | A1015078 | 1081 |
| | Outer wall sealing collar | A1015082 | 1184 |
| | Termination diam. 60/100, intake/exhaust, conical | A1001504 | 3217 |
| | Flue terminal, connection 60/100, out 125 mm | A5021000 | 305 |
| | Flue terminal, connection 60/100, out 100 mm | A5023061 | 5752 |
| | Chimney reducer 125/100 | A5025005 | 3137 |

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

| | Concentric flue ducts, 80/125 diam., slide-on version, A2-white varnish | | Code |
|---|---|---|---|
| | 1 m Extension, Al/Fe | A2009018 | 1698 |
| | 0.5 m Extension, Al/Fe | A2009017 | 7002 |
| | Section with inspection hole, 0.31 m long | A2005149 | 8434 |
| | 90° Elbow | A2005203 | 5583 |
| | 90° Elbow with inspection hole | A2005120 | 8432 |
| | 45° Elbow | A2005019 | 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, vertical | A2011082 | 3691 |
| | Section with condensate discharge, horizontal | A2011198 | 2197 |
| | Sleeve and clamp | A2011151 | 2158 |

| Twin flue ducts, diam. 80, A2-white varnish | | | Code |
|---|---|---|---|
| | Twin flue adaptor kit with tap holes, screw connection | A2011097 | 2098 |
| | Twin flue adaptor kit with upsized rotating flange and tap holes (DAGAS) | A2011040 | 7474 |
| | 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 |
| | 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 |
| | 1x 80 mm Chimney for exhaust, diam. 125 mm, with flashing | A5023158 | 10502 |
| | Chimney reducer 125/80 | A5025004 | 4113 |
| | Chimney reducer 125/2x80 | A5025006 | 3136 |

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

| Single flue ducts, diam. 60, 1.5 mm thick | | | Code |
|---|---|---|---|
| | A1013027 1 m Extension | | 2193 |
| | A1013002 90° Elbow | | 2093 |
| | A1013004 Coupler | | 1573 |
| | 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 |
| | A2015061 Flange with tap hole | | 7120 |
| | 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 |
| | BB002007 0.5 m Extension | | 2138 |
| | BB002009 90° Elbow, flanged | K | 711 |
| | BB002005 45° Elbow | | 2021 |

**K - inner pipe 1.5 mm thick**

| | 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 |
| | 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 | A2002025 | 6384 |
| | 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 |
| | 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 |
| | Vertical Concentric Flue Terminal, 60/100, diam. 125 out, red | A6023165 | 11254 |

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 | 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 |
| | Vertical Concentric Flue Terminal, 80/125, red | A6023166 | 11256 |

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

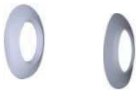
| Coaxial Flue Pipes, diam. 60/100 PP/PP for condensing boilers | | | Code |
|---|---|---|---|
| | Horizontal flue terminal, plastic termination | BB012106 | 14613 |
| | 0.25 m Extension | BB012092 | 14609 |
| | 0.5 m Extension | BB012009 | 14610 |
| | 1 m Extension | BB012010 | 14611 |
| | 2 m Extension | 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 |

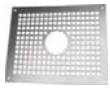
| | Flue ducts, diam. 60, for condensing boilers, polypropylene | | Code |
|---|---|---|---|
| | 0.5 m Extension | BB004157 | 8813 |
| | 1 m Extension | BB004156 | 8814 |
| | 2 m Extension | BB004155 | 11251 |
| | 0.5 m Extension, UV resistant | BN004157 | 14561 |
| | 1 m Extension, UV resistant | BN004156 | 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 |

| 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 |
| | 45° Elbow | BB011372 | 6142 |
| | 45° Elbow, with inspection hole | BB011637 | 17385 |
| | 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, exhaust only | A5023138 | 14693 |
| | Chimney Cowl with 35x35cm chimney plate, incl. locking band, for rigid pipes | A5025064 | 16128 |
| | Flue teminal 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 |

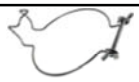
Roof flashings and other common accessories now on the last page.

| | Almeva Flue ducts, diam. 80, for condensing boilers, polypropylene, bulk package | | Code |
|---|---|---|---|
| | 0.25 m Extension | PBRM08 | 18706 |
| | 0.5 m Extension | PBRM58 | 13851 |
| | 1 m Extension | PBRM18 | 13852 |
| | 2 m Extension | PBRM28 | 13853 |
| | Section with inspection hole | PBRTD8 | 18707 |
| | 90° Elbow | PBSB98 | 18711 |
| | 45° Elbow | PBSB48 | 18712 |
| | 90° Elbow with inspection hole | PBRB98 | 18708 |
| | 45° Elbow with inspection hole | PBRB98 | 18709 |
| | 90° Chimney elbow + its suPBort bracket | PBTU08 | 18710 |
| | Support bracket for chimney elbow | ZUAS01 | 13640 |
| | Round gasket, black, diam. 80, for PPH-A only | ZUMD08 | 8810 |
| | Chimney spacer<br>(6 segments in pack – no. of segments per diam: 3x 60mm, 4x 80mm, 5x 100mm, 6x 125mm) | PPFR60 | 8869 |
|  | Grate with opening, diam. 80 | ZUBL08 | 8579 |
| | Termin. pipe 80 mm diam., l=500, UV resistant, PPH-A | PPRS58 | 11302 |
| | Chimney termination, diam. 80 mm | PPSAS8 | 8555 |
| | Intake termination, black, diam. 80-100 mm | ZUAV52 | 12120 |

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 |
| | 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 | BB011377 | 14567 |
| | Lid for diam. 125 for cascades, condensate discharge and plug | BB015015 | 10218 |
| | 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 ø 160, 45° wye and elbow diam. 100, PP | 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 | 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 ø 200, 45° wye and elbow diam. 100, PP | BB017090 | 18875 |
| | Insert - adapter diam. 100/100 for cascades, 3-piece set incl. non-return flap, PP | BB005045 | 18876 |
| | Extension diam. 200, l=2000, 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 |
| | Condensate siphon, with floater, incl. hose | B1003070 | 9689 |

| Stainless-steel outdoor ducts, 80/125 mm, PP for cond.boilers | | | Code |
|---|---|---|---|
| | Extension diam. 80/125, l = 1000 mm, PPH-A/Inox | APRB18 | 8641 |
| | Extension diam. 80/125, l = 500 mm, PPH-A/Inox | APRB58 | 8640 |
| | Extension diam. 80/125, l = 250 mm, PPH-A/Inox | APRB08 | 8639 |
| | Socket for cut ducts, diam. 80/125 | APMKB8 | 9382 |
| | Joint reinforcing sleeve clamp, diam. 125 (only for loose termination above the roofing where the last pipe cannot be fixed in a wall clamp) | APKLB8 | 9381 |
| | 90° elbow diam. 80/125, PPH-A/Inox with 0.5 m extension | APSBB8 | 15209 |
| | 45° elbow diam. 80/125, PPH-A/Inox | APBB48 | 8643 |
| | T-piece diam. 80/125 with inspection, PPH-A/Inox | APRTB8 | 8642 |
| | 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 |
| | Bracket for pipe 80/125, PPH-A/Inox | APWHB8 | 8668 |
| | 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<br>- to neutralize condensate from condens. boilers up to 100 kW output<br>- 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<br>- incl. condensate discharge pump to 3.5m elevation max. | | 14506 |
| | Neutralization Box Refill | | 12490 |
| | Plavis 013-C Condensate Pump | | 16112 |
| | Condensate siphon with ball float | B1003057 | 6123 |
| | Condensate hose, for T-piece and P-trap, 1.5 m | A1050012 | 8204 |
| | Silicon paste 250 g | SCIVTU0250 | 10280 |
| | Chimney door, for diam. 60, 80, 100, 125 mm | A2012233 | 15849 |
| | Pitched-roof flashing, malleable Al sheet, diam. 125 mm, black, 18°-44° | A5025036 | 8014 |
| | Pitched-roof flashing, malleable Al sheet, diam. 125 mm, red, 18°- 44° | A6025036 | 10489 |
| | Flat-roof flashing, diam. 125 mm | A5025001 | 363 |
| | Flange diam. 100 for boiler, upsized, plastic, alone | BB005035 | 8459 |
| | Gasket for plastic flange, 100 mm diam. | GNE10011 | 10067 |
| | Gasket for upsized flange, 100 mm diam. | GNE10019 | 10071 |
| | Gasket for boiler flange, diam. 100 mm | A1015089 | 783 |

***For detailed information, ask for our flue duct catalogue.***

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

| Tank/store type | Number of connections for heating elements | Max. output of 3x230/400V heating element, no thermostat | Max. output of 3x230/400V heating element, with thermostat |
|---|---|---|---|
| **HW TANKS** | | | |
| RxBC 200 | 1[1] | 6 kW | 6 kW |
| RxBC 300 | 1[1] | 6 kW | 6 kW |
| RxBC 400 | 1[1] | 7.5 kW | 7.5 kW |
| RxBC 500 | 1[1] | 9 kW | 9 kW |
| RxBC 750 | 1[1] | 12 kW | 9 kW |
| RxBC 1000 | 1[1] | 12 kW | 9 kW |
| RxBC 1500 | 1[1] | 12 kW | 9 kW |
| RxBC 2000 | 1[1] | 12 kW | 9 kW |
| RxBC 2500 | 1[1] | 12 kW | 9 kW |
| RxBC 3000 | 1[1] | 12 kW | 9 kW |
| RBC 200 HP | 1[1] | 6 kW | 6 kW |
| RBC 300 HP 3.2V | 1[1] | 4.5 kW | 4.5 kW |
| RBC 300 HP | 1[1] | 6 kW | 6 kW |
| RBC 400 HP | 1[1] | 7.5 kW | 7.5 kW |
| RBC 500 HP | 1[1] | 9 kW | 9 kW |
| RBC 750 HP | 1[1] | 12 kW | 9 kW |
| RBC 1000 HP | 0[1] | 12 kW | 9 kW |
| RBC 1500 HP | 0[1] | 12 kW | 9 kW |
| RxDC 160 | 1 | 6 kW | 6 kW |
| RxDC 200 | 1 | 6 kW | 6 kW |
| RxDC 250 | 1 | 6 kW | 6 kW |
| RxDC 300 | 1[1] | 6 kW | 6 kW |
| RGC 120 H | 1 | 3 kW | 3 kW |
| NBC 170 HP | 0 | 0 kW | 0 kW |
| **THERMAL STORES W. DHW** | | | |
| DUO 390/130 x | 3[3] | 5 kW | 5 kW |
| DUO 600/200 x | 3[3] | 5 kW | 5 kW |
| DUO 750/200 x | 3[3] | 7.5 kW | 7.5 kW |
| DUO 1000/200 x | 3[3] | 8.2 kW | 8.2 kW |
| DUO 1700/200 x | 3[3] | 12 kW | 9 kW |
| HSK 350 K P-B | 0 | 0 kW | 0 kW |
| HSK 390 x | 3[3] | 6 kW | 6 kW |
| HSK 600 x | 3[3] | 6 kW | 6 kW |
| HSK 750 x | 3[3] | 8.2 kW | 8.2 kW |
| HSK 1000 x | 3[3] | 9 kW | 9 kW |
| HSK 1700 x | 3[3] | 12 kW | 9 kW |

| Tank/store type | Number of connections for heating elements | Max. output of 3x230/400V heating element, no thermostat | Max. output of 3x230/400V heating element, with thermostat |
|---|---|---|---|
| **THERMAL STORES** | | | |
| PSWF 300 N+ | 4 | 7.5 kW | 7.5 kW |
| PSWF 500 N+ | 4 | 7.5 kW | 7.5 kW |
| PSWF 800 N+ | 4 | 9 kW | 9 kW |
| PSWF 1000 N+ | 4 | 9 kW | 9 kW |
| PSWF 1500 N+ | 4 | 12 kW | 9 kW |
| PSWF 2000 N+ | 4 | 12 kW | 9 kW |
| PS 600 ES+ | 2[2] | 9 kW | 9 kW |
| PS 900 ES+ | 2[2] | 12 kW | 9 kW |
| PS 1100 ES+ | 2[2] | 12 kW | 9 kW |
| PS 500 E+ | 3[2] | 9 kW | 9 kW |
| PS 750 E+ | 3[2] | 12 kW | 9 kW |
| PS 1000 E+ | 3[2] | 12 kW | 9 kW |
| PS 1100 E+ | 3[2] | 12 kW | 9 kW |
| PS 1250 E+ | 3[2] | 12 kW | 9 kW |
| PS 80 Z | 1 | 7.5 kW | 7.5 kW |
| PS 200 N+ | 7[2] | 6 kW | 6 kW |
| PS a PS2F 300 N+ | 7[2] | 7.5 kW | 7.5 kW |
| PS 400 N+ | 7[2] | 7.5 kW | 7.5 kW |
| PS a PS2F 500 N+ | 7[2] | 9 kW | 9 kW |
| PS 600 N+ | 7[2] | 9 kW | 9 kW |
| PS 700 N+ | 7[2] | 9 kW | 9 kW |
| PS a PS2F 800 N+ | 7[2] | 12 kW | 9 kW |
| PS 900 N+ | 7[2] | 12 kW | 9 kW |
| PS a PS2F 1000 N+ | 7[2] | 12 kW | 9 kW |
| PS 1100 N+ | 7[2] | 12 kW | 9 kW |
| PS a PS2F 1500 N+ | 7[2] | 12 kW | 9 kW |
| PS a PS2F 2000 N+ | 7[2] | 12 kW | 9 kW |
| PSxx 3000 N25 | 7[2] | 12 kW | 9 kW |
| PSxx 4000 N25 | 7[2] | 12 kW | 9 kW |
| PSxx 5000 N25 | 7[2] | 12 kW | 9 kW |
| PS 400 K+ | 7[2] | 9 kW | 9 kW |
| PS 500 K+ | 7[2] | 9 kW | 9 kW |
| PS 600 K+ | 7[2] | 9 kW | 9 kW |
| PS 700 K+ | 7[2] | 12 kW | 9 kW |
| PS 900 K+ | 7[2] | 12 kW | 9 kW |
| PS 1100 K+ | 7[2] | 12 kW | 9 kW |

[1] - HW tank can be fitted with a flange with a connection for installation of another heating element - please consult the permissible heating element output with our sales manager.
[2] - number of all G 6/4" connections for heat sources connecting
[3] - P and PV types have an extra 4th connection for a PV element
[4] - all connections are 2.5"; when installing heating element, a reduction is necessary

**Max. output of a 230V heating element w. plastic head is 3 kW for all tanks and stores except for RGC 120 H (2 kW).**

# 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 | 23 500 kWh/year | 41 500 kWh/year | 10 kW | 16 kW |
| EcoAir 420 | 29 500 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 510M | - kWh/year | 20 000 kWh/year | - kW | 8 kW |
| EcoAir 614M | - kWh/year | 34 000 kWh/year | - kW | 13 kW |
| EcoAir 622M | 16 000 kWh/year | 51 500 kWh/year | 6 kW | 20 kW |
| RTC 6i | - kWh/year | 13 000 kWh/year | - kW | 5 kW |
| RTC 12i | - kWh/year | 26 000 kWh/year | - kW | 10 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/Heat 406 | - kWh/year | 17 000 kWh/year | - kW | 7 kW |
| EcoPart/Heat 408 | 16 500 kWh/year | 24 500 kWh/year | 5 kW | 10 kW |
| EcoPart/Heat 410 | 20 000 kWh/year | 30 000 kWh/year | 7 kW | 13 kW |
| EcoPart/Heat 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.

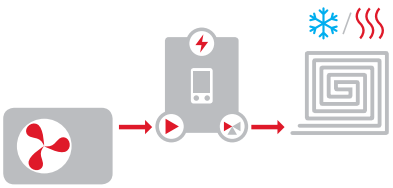
If there is another significant appliance present in the building heated by a heat pump (swimming pool, ventilation...) which is not included in the above calculations, contact us via email **sales@regulus.eu**

We offer heat pumps in complete sets with all accessories, including indoor units and multi-energy thermal stores equipped with controllers, thermal stores and hot water storage tanks, or combination thermal stores - HSK and DUO models. 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.

# Typical hydraulic variants

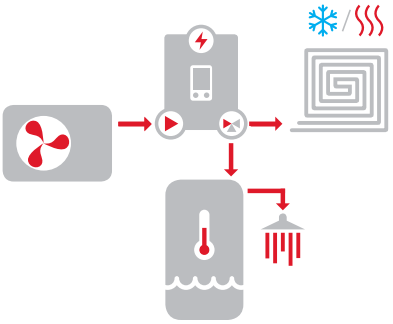
## with Air-to-water Inverter Heat Pumps
## **for heating & cooling**

### No hot water storage tank, RegulusBOX



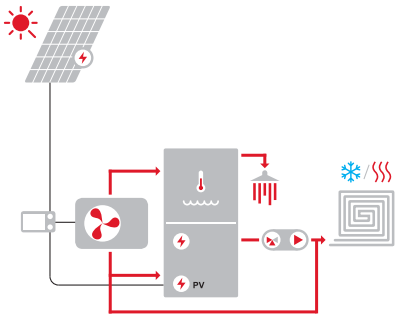
- heat pump for heating & cooling
- RegulusBOX (IR RegulusBOX, electric boiler, circulation pump, 3-way zone valve)
- other boiler room equipment
- permits connecting a hot water storage tank

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



- 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

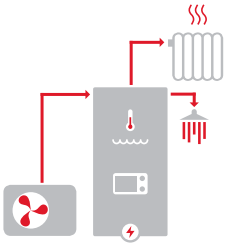
### Hot water in DUO thermal store




- heat pump for heating & cooling
- combination thermal store
- IR 14 smart controller for heat pump operation with PV panels
- electric heating elements
- other boiler room equipment

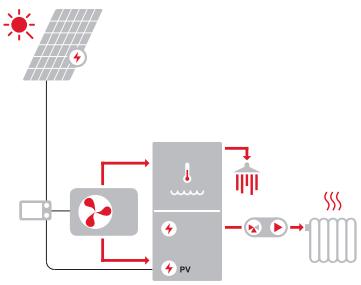
## **for heating**

### Continuous hot water in EcoZenith thermal store



- heat pump for heating
- multi-energy thermal store
  (thermal store, DHW heat exchanger, smart controller, electric heating elements..)

### Continuous hot water in HSK thermal store

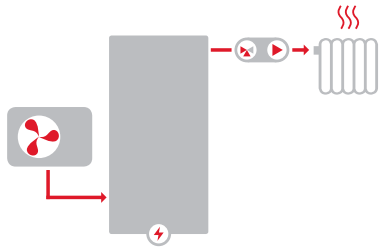



- heat pump for heating
- combination thermal store
- IR 12 smart controller for heat pump operation with PV panels
- electric heating elements
- other boiler room equipment

# Typical hydraulic variants

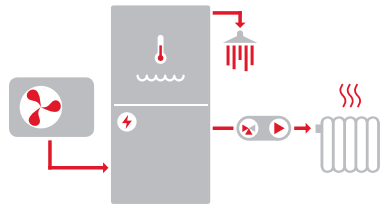
## with Air-to-water On/Off Heat Pumps **for heating**

### No hot water storage tank



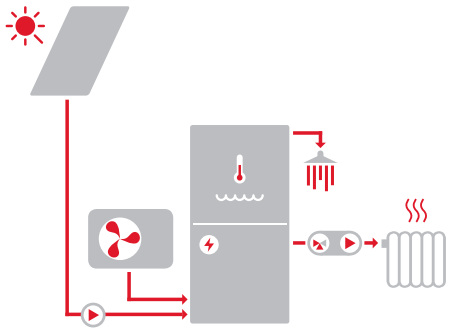
- on/off heat pump for heating
- PS 200 N+ thermal store
- IR 12 smart controller
- electric heating elements
- other boiler room equipment

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



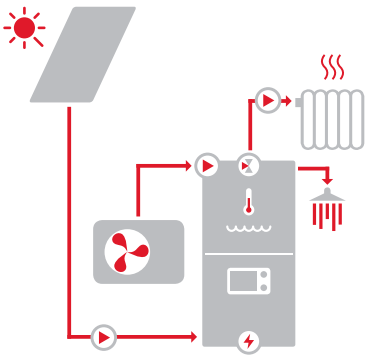
- on/off heat pump for heating
- combination thermal store
- IR 12 smart controller
- electric heating elements
- other boiler room equipment

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



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

### Continuous hot water in EcoZenith thermal store



- on/off heat pump for heating
- multi-energy thermal store
  (thermal store, DHW heat exchanger, smart controller, electric heating elements...)
- other boiler room equipment

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