

SOLAR ACCESSORIES

Solar expansion tank

Cylindrical expansion tank, with membrane to max. temperature +99 °C.



* Standing tank version

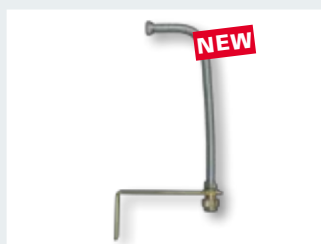
Type	Coll. surface area	Volume	Connection	Item No.
SAG 18R	Up to 6 m ²	18 l	G 3/4"	1510040
SAG 25R	Up to 10 m ²	25 l	G 3/4"	1510041
SAG 33R	Up to 15 m ²	33 l	G 3/4"	1510042
SAG 50R*	Up to 20 m ²	50 l	G 3/4"	1510334
SAG 80R*	Up to 30 m ²	80 l	R 1"	1510044
SAG 100R*	Up to 40 m ²	100 l	R 1"	1510045
SAG 140R*	Up to 50 m ²	140 l	R 1"	1510046
SAG 200R*	Up to 70 m ²	200 l	R 1"	1510047
SAG 300R*	Up to 125 m ²	300 l	R 1"	1510049
SAG 500R*	Up to 200 m ²	500 l	R 1"	1510051



Technical tip: Solar tanks are supplied with approx. 5 bar initial pressure and must be adjusted to suit the system.

Connection set for solar expansion tank

Corrugated stainless steel pipe incl. threaded connections and quick coupling, up to 33 l incl. wall mount.



Type	Designation	Item No.
AS-SAG 34	3/4" connection set For expansion tanks up to 33 l, DN 15	1510315
AS-SAG 34 2m	3/4" connection set, length 2 m, for expansion tanks of 50 l and over, DN 15	1510341
AS-SAG 1	1" connection set, length 2 m, for expansion tanks of 80 l and over, DN 20	1510316

Three way diverter valve with 220 V motor

Three way diverter valve, idle, AB-A open.



Type	Connection	Item No.
3WW 34	Female thread 3/4"	1510241
3WW 1	Female thread 1"	1510242
3WW 54	Female thread 5/4"	1510243

Technical tip: When the three way diverter valve is in an idle state, the AB-A path is open. By turning the motor housing, the path can be changed to AB-B.

Service water mixing valve

Scald protection and constant-temperature service water tapping, suitable for up to max. 8 households, temperature range 30-65 °C, flow at 3 bar max. 63 l/min.



Type	Connection	Item No.
BMV 34	Male thread 3/4" with reduction threaded connection	1510328
BMV 1	Male thread 1" without threaded connection	1510329

Line regulator valve

High-temperature bypass Taco setter for regulating and shutting off collector arrays of different sizes. Operation with bypass viewing window to 130 °C/8 bar; with plugs (in scope of delivery) to 185 °C/10 bar. Fast regulation through direct reading of volume flow in l/min. Can be installed anywhere and needs no maintenance.



Type	Connection	Measuring range	kvs (m ³ /h)	Item No.
TCS 2-12l	Female thread 3/4"	2-12 l/min	2.2	1510296
TCS 8-30l	Female thread 3/4"	8-30 l/min	5.0	1510297
TCS 10-40l	Female thread 1"	10-40 l/min	8.1	1510298
TCS 20-70l	Female thread 1 1/4"	20-70 l/min	17.0	1510299

Collector deaeration

Automatic microbubble deaerator for solar systems with cutting ring threaded connections and insulation, maintenance-free, temperature to 180 °C.



Type	Connection	Designation	Item No.
KE-H	22 mm	Collector deaerator, horizontal	1510322
KE-V	22 mm	Collector deaerator, vertical	1510323

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Rubber pipe insulation

Can be used up to 175 °C, 2 m hose length, not UV- or weather-resistant



Type	For Cu pipe	Insulation layer thickness	Metre/box	Item No.
KA-ISO 22	22 mm	20 mm	64 m	1510023
KA-ISO 28	28 mm	20 mm	48 m	1510024
KA-ISO 35	35 mm	20 mm	36 m	1510025

Rubber special adhesive



Type	Unit	Item No.
KA-KL	450 grammes/container	1510027

Rubber adhesive tape



Type	Dimensions	Length	Item No.
KA-KB	50 x 3 mm	15 m	1510028

Silicone sealing band

For sealing the adapter between the spiral/corrugated pipe and the insulation. Temperature resistance from -50 °C to +260 °C, self-sealing, flexible and UV-resistant.



Type	Unit	Item No.
SDB 40	40 x 2000 mm	1510333

Pipe collar for roof insertion

The weather-resistant, easy-to-install pipe collar with seal can be used for feeding insulated solar piping through the roof. The scope of delivery includes Bulb-tite rivets for corrugated eternit and drilling screws for installation on all sheet metal roofs, plus sealing compound in a practical spray cartridge and installation instructions.



Type	Designation	Dimensions	Item No.
DD-RM	Roof insertion set for insulated solar piping	Ø 20-70 mm	1410230

Aluminium pipe shell insulation

Mineral-wool insulation shell with mesh-reinforced aluminium foil surface coating and self-adhesive overlap, slit on one side, not UV- or weather-resistant, length: 1 m.



Type	For Cu pipe	Insulation layer thickness	Metre/box	Item No.
AL-ISO 18/22	18 mm	20 mm	42 m	1510010
AL-ISO 22/20	22 mm	20 mm	36 m	1510011
AL-ISO 22/30	22 mm	30 mm	25 m	1510013
AL-ISO 28/20	28 mm	20 mm	30 m	1510012
AL-ISO 28/30	28 mm	30 mm	18 m	1510014
AL-ISO 35/30	35 mm	30 mm	16 m	1510015
AL-ISO 42/30	42 mm	30 mm	12 m	1510016

Aluminium/polyester adhesive tape



Type	Width	Length	Item No.
AKB 50	50 mm	100 m	1510009

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Frost protection and heat transfer fluid

The frost protection fluid prevents frost damage in the solar system while at the same protecting against corrosion. The fluid is biodegradable, food safe and does not corrode the standard seal material used in heating systems. It is ASTM tested and complies with ÖNORM, AFSSA (France) and KIWA-ATA (Netherlands).



Mix table

Concentrate	Water	Cold protection
50%	50%	-38 °C
45%	55%	-30 °C
40%	60%	-24 °C

Frost protection

For collectors with thermal standard load.

Type	Designation	Packaging	Cold protection	Item No.
FWF-K	Concentrate	24 l	Acc. to table	1510053
FWF-F	Ready-mixed to -25 °C	24 l	To -25 °C	1510054

Evaporation-proof frost protection

For collectors with high thermal load due to stagnation.

Type	Designation	Packaging	Cold protection	Item No.
FWF-VSF	Ready-mixed to -28 °C	24 l	To -28 °C	1510055



Note: FWF-VSF must not be mixed with other heat transfer fluids or water!

Filling and flushing pump

The pump allows solar systems to be filled with heat transfer fluid and flushed quickly and cleanly. The compact unit consists of a trolley, 50 l container, pump and hose; max. fluid temperature +60 °C.

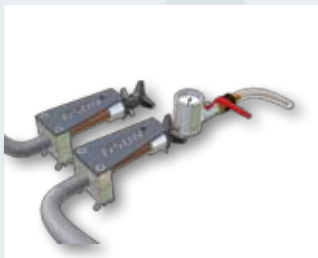


Type	Application	Item No.
FP-S 50	Up to 50 l/min	1510164
FP-S 70	Up to 70 l/min	1510165

Pressure unit

The pressure unit allows quick testing of all hydraulic connections between the collectors for tightness.

The compact unit consists of aluminium and stainless steel manufactured parts. Suitable for all hydraulic connection sets (HAS-11 to HAS-44).



Pressure unit for module and large collectors

Set consists of: air unit with pressure gauge, quick-release fastener, DN 7.2 mm connection plug and dummy unit with quick-release fastener.

Type	Collector	Corrugated pipe	Copper pipe	Item No.
ADE 18	FM-S/FM-W	DN16	18 mm	1520003
ADE 22	FA, FI	DN20	22 mm	1520004



Note: Pressure testing only with air pressure.

Installation wrenches for collector connections

Two different installation wrenches are available in the set and include the wrench combinations for all cutting ring threaded connections from the basic connection set for the module and large collectors (wrench sizes engraved).



Type	Designation	Wrench sizes	Item No.
MS/AB	Installation wrenches A and B	Installation wrench A (24, 27, 30 and 21, 25, 29) Installation wrench B (13, 24, 32 and 21, 25, 27)	1410152

Transport device for module collector

The clamping device for FM collectors can be used as an aid to transport and installation. One set required for crane transport, 2 sets for transport by hand.



Type	Collector	Item No.
TRV-FM	FM transport device set (x 2)	1410219

Solar check case

The solar case is used for start-up and annual checks of solar systems. It contains test and information labels, a refractometer for measuring the frost protection concentration, pH measuring strips, inclinometer, compass, pressure gauge and an acceptance protocol.



Type	Designation	Contents	Item No.
SC			1510063
Re-order			
SC-pH	pH measuring strips	84 strips	1510068
SC-PP	Test label	x 12	1510069
SC-HP	Information label	x 12	1510071
SC-RM	Refractometer	x 1	1510070