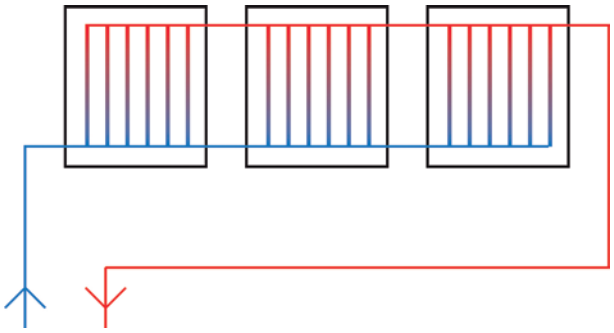
Solex
Solar thermal systems

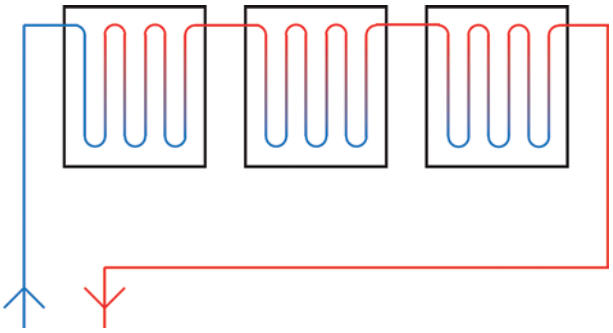
Product range Solex

Technical data and product information

High-Flow system with harp collectors



Low-Flow system with meander collectors



Dimensioning of a Solex module

Different collector types with the same size of collector field need very different flow rates for an effective operation without interruption. The hydraulic connection of the collector field as well as the shape of the collector can also influence the optimal flow of the solar circuit. Corresponding values should be agreed with the manufacturer of the collectors. They can also be found in the technical documents of the collectors.

The solar systems are roughly divided into High-Flow systems and Low-Flow systems. High-Flow systems are operated with a higher flow rate and a smaller temperature difference between collector inlet and collector outlet.
In reality, these systems have less pressure drop than Low-Flow systems. Accordingly, Low-Flow systems work with lower flow rates and a higher temperature difference. The Solex transfer stations can be used for High-Flow solar thermal systems as well as for Low-Flow systems.

The values for the specific flow rate refer to the nominal flow rate.
Depending on the control target and the basic conditions, the flow rate in the partial-load range is adapted by the controller and can be much smaller than the calculated nominal flow rate.

High-Flow systems have a flow rate of 25 to 40 litres per square metre of collector surface and hour or 0.42 to 0.67 litre per square metre of collector surface and minute.

Low-Flow systems have a flow rate of 10 to 20 litres per square metre of collector surface and hour or 0.17 to 0.33 litre per square metre of collector surface and minute.

The **total flow rate** in a solar thermal system depends on:
- System operation mode (High-Flow/Low-Flow)
- Collector surface
- Performance of the heat exchanger (secondary)

The **circulation pump dimensioning** depends on:
- Flow rate
- Pressure drop of heat exchanger, collector, piping system

For the selection table of the proper Solex, we assumed a minimum head of ~5 m wc (~50 kPa). If the real collector field (including pipes) has a higher pressure drop, a detailed dimensioning is inevitable.

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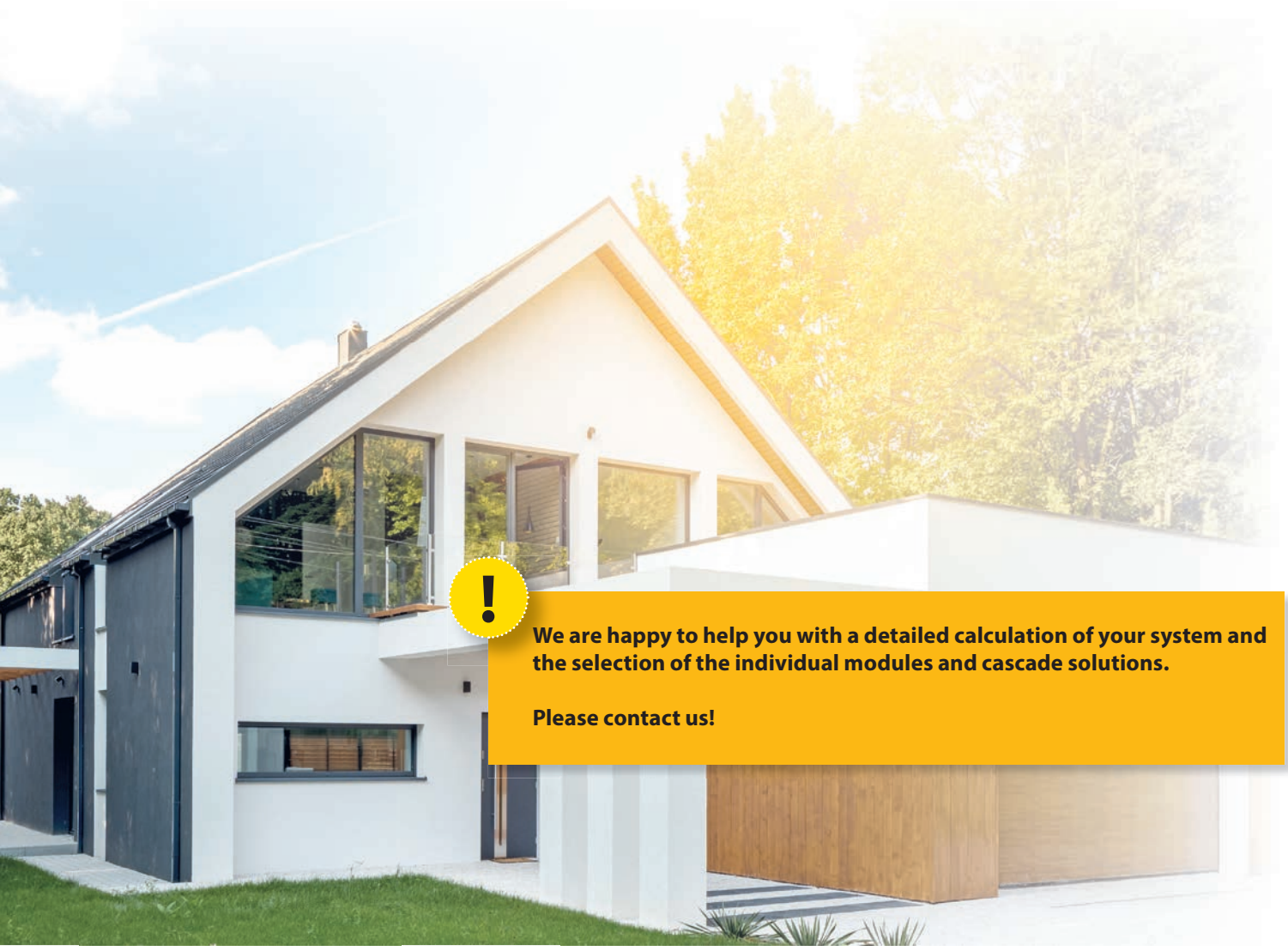
Selection table solar transfer stations - Solex

Specific flow rate in l/(m² x h)	Collector surface in m²																
	15	**20**	**25**	**30**	**40**	**50**	**60**	**70**	**80**	**90/ 100**	**120**	**140/ 160**	**180/ 200**	**240**	**280**	**320**	**360/ 400**
15	Mini	Mini	Mini	Mini	Midi	Midi	Midi	Maxi	Maxi	Maxi	Mega	Mega	Mega	2x Mega	2x Mega	2x Mega	2x Mega
20	Mini	Mini	Mini	Mini	Midi	Midi	Maxi	Maxi	Maxi	Maxi	Mega	Mega	Mega	2x Mega	2x Mega	2x Mega	2x Mega
25	Mini	Mini	Mini	Midi	Midi	Maxi	Maxi	Maxi	Maxi	Mega	Mega	Mega	2x Mega	2x Mega	2x Mega	2x Mega	***
30	Mini	Mini	Mini	Midi	Midi	Maxi	Maxi	Maxi	Mega	Mega	Mega	2x Mega	2x Mega	2x Mega	***	/	/
35	Mini	Mini	Midi	Midi	Maxi	Maxi	Maxi	Mega	Mega	Mega	2x Mega	2x Mega	2x Mega	***	/	/	/
40	Mini	Midi	Midi	Midi	Maxi	Maxi	Mega	Mega	Mega	Mega	2x Mega	2x Mega	2x Mega	***	/	/	/

*** precise dimensioning required



We are happy to help you with a detailed calculation of your system and the selection of the individual modules and cascade solutions.

Please contact us!

Mounting example
SolexMaxi-Kaskade HZ

SolexMaxi-Kaskade HZ with collector, boiler and diaphragm expansion tank - ideally for large systems, such as sport facilities or hotels

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Overview product range Solex
Solar transfer stations

SolexMini - for installations up to 36 m² of collector surface

SolexMini HZ/TW	**Operating mode**	**Collector surface**	**Output**	**Temperature difference** (collector inlet/ outlet)
	25 l/(m²xh)	36 m²	18 kW	20 K
	40 l/(m²xh)	30 m²	15 kW	12 K

Conditions: Irradiation = 800 W/m²; efficiency η0.05 = 65%

SolexMidi - for installations up to 60 m² of collector surface

SolexMidi HZ/TW	**Operating mode**	**Collector surface**	**Output**	**Temperature difference** (collector inlet/ outlet)
	15 l/(m²xh)	60 m²	31 kW	33 K
	40 l/(m²xh)	30 m²	15 kW	12 K

Conditions: Irradiation = 800 W/m²; efficiency η0.05 = 65%

SolexMaxi - for installations up to 100 m² of collector surface

SolexMaxi HZ/TW	**Operating mode**	**Collector surface**	**Output**	**Temperature difference** (collector inlet/ outlet)
	15 l/(m²xh)	100 m²	50 kW	33 K
	25 l/(m²xh)	80 m²	25 kW	12 K

Conditions: Irradiation = 800 W/m²; efficiency η0.05 = 65%

SolexMega - for installations up to 200 m² of collector surface

SolexMega HZ/TW	**Operating mode**	**Collector surface**	**Output**	**Temperature difference** (collector inlet/ outlet)
	15 l/(m²xh)	200 m²	100 kW	33 K
	25 l/(m²xh)	160 m²	50 kW	12 K

Conditions: Irradiation = 800 W/m²; efficiency η0.05 = 65%

SolexMega-Kaskade - for installations up to 400 m² of collector surface

SolexMega-Kaskade HZ/TW	**Operating mode**	**Collector surface**	**Output**	**Temperature difference** (collector inlet/ outlet)
	15 l/(m²xh)	400 m²	200 kW	33 K
	25 l/(m²xh)	320 m²	100 kW	12 K

Conditions: Irradiation = 800 W/m²; efficiency η0.05 = 65%

Product range Solex
Solar transfer stations

SolexMini

SolexMidi / SolexMaxi

SolexMega

Advantages of the PAW solar transfer stations:

- CE conform according to DIN EN 60335
- Insulation according to EnEV directive

PAW focuses on the two versions Solex HZ (heating) and Solex TW (DHW) for its solar transfer stations. The Solex HZ modules are suited for applications in heating systems whereas the Solex TW modules can be used in domestic hot water systems.
Solutions in the dimensions DN 15 to DN 50, offer a broad application range up to 400 m^2 of collector surface. Thus, you obtain a maximum flexibility during system planning.

Application range of solar transfer stations

To protect the solar circuit of a thermal solar system from frost, it is filled with a propylene glycol/water mixture.
The heating installation is normally operated with water.
To transfer the heat energy from the solar circuit to the heating circuit, a heat exchanger is used.
In small systems, a smooth pipe heat exchanger integrated in the storage tank transfers the heat energy. With larger collector fields, the heat transfer capacity of those heat exchangers is no longer sufficient.
In large systems, solar transfer stations transfer the collected heat energy from the collectors to the heating water circuit.

The centrepiece of these modules is a plate heat exchanger, whose cross-flow operating mode allows excellent heat transfer. The operating conditions in the heat exchanger vary, due to variations in radiation, buffer temperatures and different system requirements. For optimum operation of the overall system, the flow rates in the heat exchanger must be adapted to the relevant control target and current situation.

For this purpose, the Solex modules use high-efficiency pumps, which offer an extremely broad adjustment range.
This allows the controller to adapt the pumps optimally to the momentarily required flow rate within a very broad application range.
The controller is delivered preset, assembled and wired, thus ensuring easy adjustment to the real system.

The use of flow rate sensors in the Solex modules allows a power adjusted control, an efficient system monitoring and an integrated heat quantity measurement.

For a safe and quick commissioning, the Solex modules are equipped with pressure relief valves, ball valves as well as with fill and drain valves.

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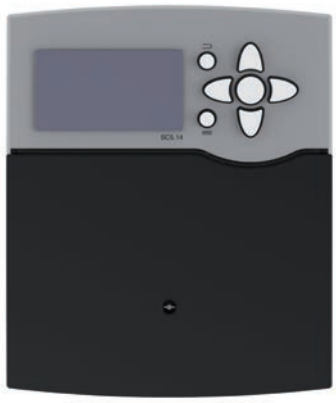
Function overview controller - SC5.14
Solar transfer stations



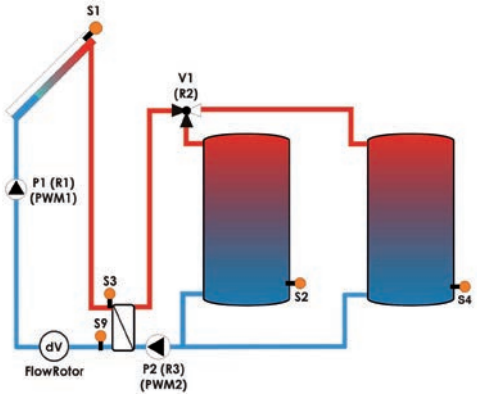
Controller SC5.14 for solar transfer stations:

SolexMini HZ	for installations up to 36 m² of collector surface
SolexMidi HZ/TW	for installations up to 60 m² of collector surface
SolexMaxi HZ/TW	for installations up to 100 m² of collector surface
SolexMega HZ/TW	for installations up to 200 m² of collector surface
SolexMega-Kaskade HZ/TW	for installations up to 400 m² of collector surface

The controller SC5.14 is completely mounted and preset, so that only the collector field sensor and the storage tank sensor must be installed and connected.
A text-based menu navigation in five selectable languages permits a simple controller operation.
The controller comprises preset systems and can be used in solar installations with up to two domestic hot water tanks.
The preset systems are optimised for PAW hydraulics.
Not only temperature measurement, but also heat quantity balancing is possible by means of the sensors.

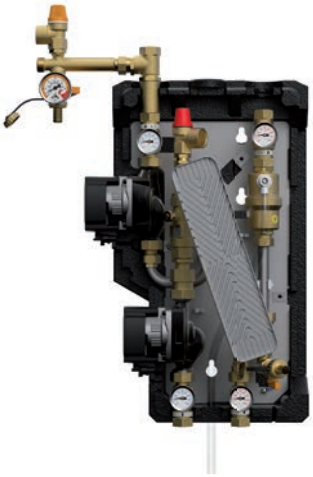
SC5.14 - Technical data			
Display	Multiline LC text display, illuminated, with menu navigation (multilingual)	**ΔT-control**	yes
Operation	7 push buttons	**Speed control**	yes
Relay outputs	4 x semiconductor relays, 230 V 1 x potential-free relay 4 x PWM signal (0-10 V) for speed control	**Heat quantity measurement**	yes
		Tube collector function	yes
Inputs	10 x Pt1000 1 x solar radiation input CS10 1 x impulse input V40 1 x RPS / VFS 1 x FlowRotor Grundfos Direct Sensor (analogue)	**Antifreeze function**	yes
		Thermal disinfection	yes
		External heat exchanger	yes
		Return distribution	yes
Interfaces	SD card (loading/saving of configuration files, firmware updates)	**Bypass activation**	yes
Heat quantity balancing	yes	**Stratified storage tank charging**	yes
Circulation (depending on time / temperature)	yes	**Quick tank charging**	yes
Flow rate sensors	yes	**Thermostat function**	yes

Connection scheme Solex HZ

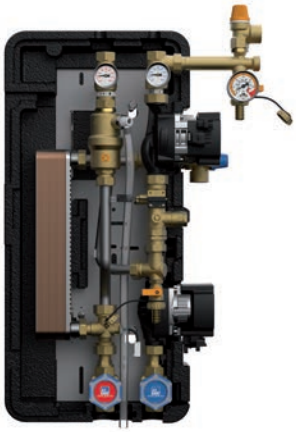


Equipment for SC5.14	Item no.
Temperature sensor Pt1000	**Q00146**
- Measuring range: - 50 °C to + 180 °C - Connection: 1.5 m of silicone cable - Dimensions: d = 6 mm	

Product range
SolexMini HZ/TW up to 36 m² of collector surface



SolexMini HZ



SolexMini TW

Application range

- for charging buffer storage tanks
- incl. heat quantity measurement according to the BAFA promotion directive for solar thermal systems
- **The CE-conformity of the module has been certified according to DIN EN 60335.**

Application range

- up to 36 m² of collector surface

Design data and differential pressure diagrams
are on pages 5 and 18/19.

Operating data

Max. pressure	HZ: prim.: 6 bar / sec.: 3 bar TW: prim.: 6 bar / sec.: 10 bar
Max. operating temperature	primary: 120 °C secondary: 95 °C
Operating mode 1	HZ: 15 l/(m²xh) TW: 25 l/(m²xh)
Operating mode 2	HZ: 40 l/(m²xh) TW: 40 l/(m²xh)

Technical data

Equipment

Check valves	prim.: 2 x 200 mm wc sec.: 1 x 200 mm wc
Heat exchanger	24 plates
Controller	SC5.14
Sensors	HZ: 2 x Pt1000 (integrated), 3 x Pt1000 (enclosed) TW: 3 x Pt1000 (integrated), 2 x Pt1000 (enclosed)
FlowRotor (primary)	0.5 - 15 l/min
Flowmeter (secondary)	0.5–15 l/min
Pressure gauge	0 - 6 bar, resistant to high temperatures
Safety valve	HZ: prim: 6 bar / sec.: 3 bar TW: prim: 6 bar / sec.: 10 bar

Dimensions

Nominal diameter	DN 15 (½")
Connections	prim./sec.: ¾" int. thread
Width	427 mm
Centre distance	82 mm
Height	658 mm
Installation length	595 mm
Depth	313 mm

Materials

Valves and fittings	Brass
Seals	EPDM/Novapress Universal
Insulation	EPP
Check valves	Brass
Heat exchanger	Solder: 99.99 % copper Plates + connecting pieces: 1.4401 (AISI 316)

SolexMini HZ
Mounting example

SolexMini HZ
with diaphragm expansion tank

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SolexMini HZ/TW (heating/DHW system)
Order data

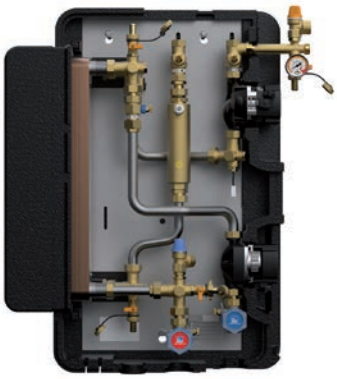
SolexMini HZ – DN 15 (½")	Item no.
prim.: Grundfos UPM3 Solar 15-145, sec.: Grundfos UPM3 Solar 15-75	6091410

SolexMini TW – DN 15 (½")	Item no.
prim.: Grundfos UPM3 Solar 15-145, sec.: Grundfos UPM4 15-70 CIL3	6091426

Accessories SolexMini HZ	Item no.
2-way zone valve - DN 20 (¾")	**563532**
for connecting and disconnecting single storage tanks, DN 20, ¾" int. thread, setting time for 90°: 30 sec.	
3-way zone valve - DN 20 (¾")	**563533**
for switching between single storage tanks, DN 20, ¾" int. thread, setting time for 90°: 18 sec., Kvs value = 7	

Product range
SolexMidi HZ/TW up to 60 m² of collector surface

SolexMidi HZ



SolexMidi TW

Application range

- Version HZ: for charging buffer storage tanks
- Version TW: for charging of domestic hot water storage tanks
- incl. heat quantity measurement according to the BAFA promotion directive for solar thermal systems
- **The CE-conformity of the module has been certified according to DIN EN 60335.**

Application range

- up to 60 m² of collector surface

Design data and differential pressure diagrams
are on pages 5 and 18/19.

Operating data

Max. pressure	HZ: prim. / sec.: 6 bar TW: prim.: 6 bar / sec: 10 bar
Max. operating temperature	primary: 120 °C secondary: 95 °C
Operating mode 1	15 l/(m²xh)
Operating mode 2	40 l/(m²xh)

Technical data

Equipment

Check valves	HZ: prim.: 2 x 200 mm wc, sec.: 2 x 200 mm wc TW: prim.: 2 x 200 mm wc, sec.: 1 x 200 mm wc
Heat exchanger	30 plates
Controller	SC5.14
Sensors	HZ: 2 x Pt1000 (integrated), 3 x Pt1000 (enclosed) TW: 2 x Pt1000 (integrated), 2 x Pt1000 (enclosed)
FlowRotor (primary)	HZ/TW: 2-50 l/min
Flowmeter (secondary)	HZ: 3-22 l/min
Pressure gauge	0 - 6 bar, resistant to high temperatures
Safety valve	HZ: prim. / sec.: 6 bar TW: prim.: 6 bar, sec.: 10 bar

Dimensions

Nominal diameter	DN 20 (¾")
Connections	HZ: prim.: ¾" int. thread, sec.: ¾" int. thread TW: prim.: ¾" int. thread, sec.: 1" ext. thread
Width	TW: 674 mm HZ: 662 mm
Centre distance	120 mm
Height	795 mm
Installation length	HZ: 670 mm TW: 678 mm
Depth	298 mm

Materials

Valves and fittings	Brass
Seals	EPDM/Novapress Universal
Insulation	EPP
Check valves	Brass
Heat exchanger	Solder: 99.99 % copper Plates + connecting pieces: 1.4401 (AISI 316)

SolexMidi HZ/TW
Mounting example

SolexMidi HZ with diaphragm expansion tank

SolexMidi TW with diaphragm expansion tank and domestic water safety group

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Solex Midi HZ/TW (heating/DHW system)
Order data

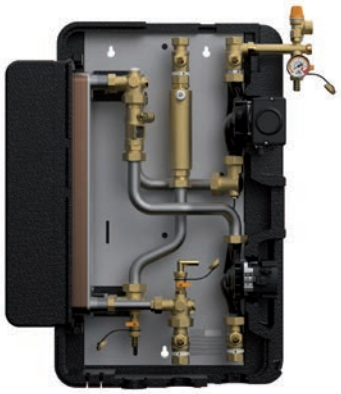
SolexMidi HZ – DN 20 (¾")	Item no.
prim.: Grundfos UPM3 Solar 15-145, sec.: Grundfos UPM3 Solar 15-75	**6095430**

Accessories SolexMidi HZ	Item no.
2-way zone valve - DN 20 (¾")	**563532**
for connecting and disconnecting single storage tanks, DN 20, ¾" int. thread, setting time for 90°: 30 sec.	
3-way zone valve - DN 20 (¾")	**563533**
for switching between single storage tanks, DN 20, ¾" int. thread, setting time for 90°: 18 sec., Kvs value = 7	

SolexMidi TW – DN 20 (¾")	Item no.
prim.: Grundfos UPM3 Solar 15-145, sec.: Grundfos UPM3 15-70 CIL3	**6095436**

Accessories SolexMidi TW	Item no.
2-way zone valve - DN 20 (¾"), suitable for DHW	**563541**
suitable for DHW, for connecting or disconnecting single storage tanks or flow paths, DN 20, ¾" int. thread, setting time for 90°: 12 sec, Kvs value = 45. DVGW, ACS and WRAS certified.	

Product range
SolexMaxi HZ/TW up to 100 m² of collector surface



SolexMaxi HZ

SolexMaxi TW

Application range

- Version HZ: for charging buffer storage tanks
- Version TW: for charging of domestic hot water storage tanks
- incl. heat quantity measurement according to the BAFA promotion directive for solar thermal systems
- **The CE-conformity of the module has been certified according to DIN EN 60335.**

Application range

- up to 100 m² of collector surface

Design data and differential pressure diagrams
are on pages 5 and 18/19.

Operating data

Max. pressure	HZ: prim. / sec.: 6 bar TW: prim.: 6 bar / sec: 10 bar
Max. operating temperature	primary: 120 °C secondary: 95 °C
Operating mode 1	15 l/(m²xh)
Operating mode 2	25 l/(m²xh)

Technical data

Equipment

Check valves	HZ: prim.: 2 x 200 mm wc, sec.: 1 x 200 mm wc TW: prim.: 2 x 200 mm wc, sec.: 1 x 150 mm wc
Heat exchanger	60 plates
Controller	SC5.14
Sensors	HZ: 2 x Pt1000 (integrated), 3 x Pt1000 (enclosed) TW: 2 x Pt1000 (integrated), 2 x Pt1000 (enclosed)
FlowRotor (primary)	HZ/TW: 2-50 l/min
Flowmeter (secondary)	HZ: 5-40 l/min
Pressure gauge	0 - 6 bar, resistant to high temperatures
Safety valve	HZ: prim. / sec.: 6 bar TW: prim.: 6 bar, sec.: 10 bar

Dimensions

Nominal diameter	DN 25 (1")
Connections	HZ: prim.: 1" int. thread, sec.: 1" int. thread TW: prim: 1" int. thread, sec.: 1¼" ext. thread
Width	TW: 662 mm HZ: 664 mm
Centre distance	120 mm
Height	TW: 829 mm HZ: 828 mm
Installation length	HZ: 707 mm TW: 716 mm
Depth	298 mm

Materials

Valves and fittings	Brass
Seals	EPDM/Novapress Universal
Insulation	EPP
Check valves	Brass
Heat exchanger	Solder: 99.99 % copper Plates + connecting pieces: 1.4401 (AISI 316)

SolexMaxi HZ/TW
Mounting example

SolexMaxi HZ with diaphragm expansion tank

SolexMaxi TW with diaphragm expansion tank and domestic water safety group

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SolexMaxi HZ/TW (heating/DHW system)
Order data

SolexMaxi HZ – DN 25 (1")	Item no.
prim.: Grundfos Solar PML 25-145, sec.: Grundfos UPM3 Solar 25-75	**6096460**

Accessories SolexMaxi HZ	Item no.
2-way zone valve - DN 25 (1")	**563542**
for connecting and disconnecting single storage tanks, DN 25, 1" int. thread, setting time for 90°: 30 sec.	
PAW 3-way switch valve PV3 DN 25	**5675431**
with 2-point control for managing different temperature zones in the buffer tank, e.g. for return flow distribution or enabling additional buffer tanks Setting time: 13 sec., rotation angle: 90°, torque: 5 Nm, Kvs value: 15.5	

SolexMaxi TW – DN 25 (1")	Item no.
prim.: Grundfos Solar PML 25-145, sec.: Grundfos UPML 25-105 N	**6096465**

Accessories SolexMaxi TW	Item no.
2-way zone valve - DN 25 (1"), suitable for DHW	**563551**
suitable for DHW, for connecting or disconnecting single storage tanks or flow paths, DN 25, 1" int. thread, setting time for 90°: 12 sec, Kvs value = 60. DVGW, ACS and WRAS certified.	

Product range
SolexMega HZ/TW up to 200 m² of collector surface

SolexMega HZ

SolexMega TW

Application range

- Version HZ: for charging buffer storage tanks
- Version TW: for charging of domestic hot water storage tanks
- incl. heat quantity measurement according to the BAFA promotion directive for solar thermal systems
- **The CE-conformity of the module has been certified according to DIN EN 60335.**

Application range

- up to 200 m² of collector surface

Design data and differential pressure diagrams
are on pages 5 and 18/19.

Operating data

Max. pressure	HZ: prim. / sec.: 6 bar TW: prim.: 6 bar / sec: 10 bar
Max. operating temperature	primary: 120 °C secondary: 95 °C
Operating mode 1	15 l/(m²xh)
Operating mode 2	25 l/(m²xh)

Technical data

Equipment

Check valves	HZ: prim.: 2 x 250 mm wc, sec.: 2 x 250 mm wc TW: prim.: 2 x 250 mm wc, sec.: 1 x 150 mm wc
Heat exchanger	2 x 50 plates
Controller	SC5.14
Sensors	HZ: 2 x Pt1000 (integrated), TW: 2 x Pt1000 (integrated), 2 x Pt1000 (enclosed)
FlowRotor (primary)	HZ/TW: 5-100 l/min
Pressure gauge	0 - 6 bar, resistant to high temperatures HZ: analogue output 0.5 - 3 V
Safety valve	HZ: prim. / sec.: 6 bar TW: prim.: 6 bar, sec.: 10 bar

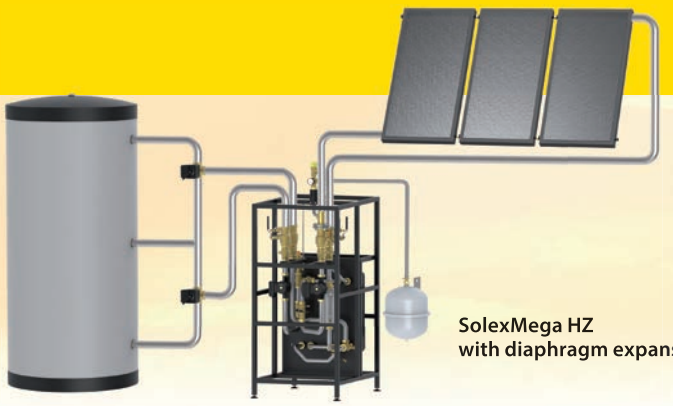
Dimensions

Nominal diameter	DN 32 (1¼")
Connections	HZ: prim.: 1 ½" int. thread, sec.: 1½" int. thread TW: prim.: 1½" int. thread, sec.: 1½" ext. thread
Width	710 mm
Centre distance	158 mm
Height	1,654 mm
Installation length	HZ: 1,205 mm TW: 1,175 mm
Depth	920 mm

Materials

Valves and fittings	HZ/TW: Brass
Seals	HZ/TW: EPDM/Novapress Universal
Insulation	EPP
Check valves	Brass
Heat exchanger	HZ/TW: Solder: 99.99 % copper HZ: Plates + connecting pieces: 1.4400 TW: Plates + connecting pieces: 1.4401 (AISI 316)

SolexMega HZ
Mounting example



SolexMega HZ
with diaphragm expansion tank

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SolexMega HZ – DN 32 (1¼")	Item no.
prim.: Grundfos UPMXL 25-125, sec.: Grundfos UPML 25-105	**6097460**

Accessories SolexMega HZ	Item no.
PAW 3-way switch valve PV3 DN 25	**5675431**
with 2-point control for managing different temperature zones in the buffer tank, e.g. for return flow distribution or enabling additional buffer tanks Setting time: 13 sec., rotation angle: 90°, torque: 5 Nm, Kvs value: 15.5	

SolexMega TW – DN 32 (1¼")	Item no.
prim.: Grundfos UPMXL 25-125, sec.: Grundfos UPML 25-105 N	**6097465**

Accessories SolexMega TW	Item no.
2-way zone valve - DN 25 (1"), suitable for DHW	**563551**
suitable for DHW, for connecting or disconnecting single storage tanks or flow paths, DN 25, 1" int. thread, setting time for 90°: 12 sec, Kvs value = 60. DVGW, ACS and WRAS certified.	

Product range
SolexMega-Kaskade HZ/TW up to 400 m² of collector surface

SolexMega-Kaskade HZ

SolexMega-Kaskade TW

Application range

- Version HZ: for charging buffer storage tanks
- Version TW: for charging of domestic hot water storage tanks
- incl. heat quantity measurement according to the BAFA promotion directive for solar thermal systems
- **The CE-conformity of the module has been certified according to DIN EN 60335.**

Application range

- up to 400 m² of collector surface

Design data and differential pressure diagrams
are on pages 5 and 18/19.

Operating data

Max. pressure	HZ: prim. / sec.: 6 bar TW: prim.: 6 bar / sec: 10 bar
Max. operating temperature	primary: 120 °C secondary: 95 °C
Operating mode 1	15 l/(m²xh)
Operating mode 2	25 l/(m²xh)

Technical data

Equipment

Check valves	HZ: prim.: 4 x 250 mm wc, sec.: 4 x 250 mm wc TW: prim.: 4 x 250 mm wc, sec.: 2 x 150 mm wc
Heat exchanger	4 x 50 plates
Controller	SC5.14
Sensors	HZ: 4 x Pt1000 (integrated), TW: 2 x Pt1000 (integrated), 4 x Pt1000 (enclosed)
FlowRotor (primary)	HZ/TW: 5-100 l/min
Pressure gauge	0 - 6 bar, resistant to high temperatures
Safety valve	HZ: prim. / sec.: 6 bar TW: prim.: 6 bar, sec.: 10 bar

Dimensions

Nominal diameter	DN 50 (2")
Connections	HZ: prim.: 2" ext. thread / flange DN 50 sec.: 2" ext. thread / flange DN 50 TW: prim.: 1½" int. thread / flange DN 50 sec.: 1½" ext. thread / flange DN 50
Width	1,424 mm
Centre distance	158 mm
Height	TW: 1,672 mm HZ: 1,705 mm
Installation length	1,672 mm
Depth	HZ: 920 mm TW: 920 mm

Materials

Valves and fittings	HZ/TW: Brass
Seals	EPDM/Novapress Universal
Insulation	EPP
Check valves	Brass
Heat exchanger	HZ/TW: Solder: 99.99 % copper HZ: Plates + connecting pieces: 1.4400 TW: Plates + connecting pieces: 1.4401 (AISI 316)

SolexMega-Kaskade HZ
Mounting example

SolexMega-Kaskade HZ
with diaphragm expansion tank

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SolexMega-Kaskade HZ/TW (heating/DHW system)
Order data

SolexMega-Kaskade HZ – DN 50 (2")	Item no.
prim.: Grundfos UPMXL 25-125, sec.: Grundfos UPML 25-105	**6098460**

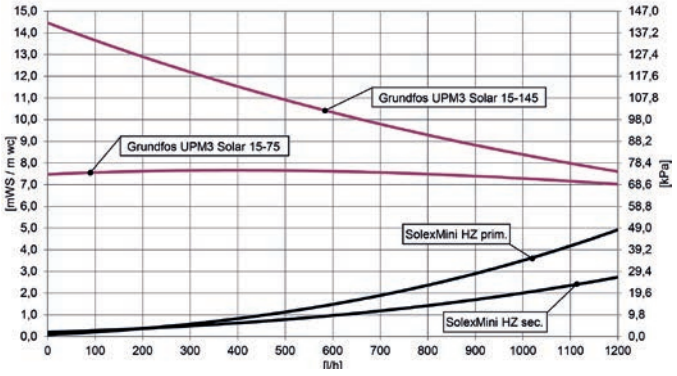
Accessories SolexMega-Kaskade HZ	Item no.
Return distribution set, 2" int. thread	**6404244**
3-way valve with actuator, setting time for 90°: 35 sec., Kvs value: 40 for FriwaMega-Kaskade, SolexMega-Kaskade HZ	

SolexMega-Kaskade TW – DN 50 (2")	Item no.
prim.: Grundfos UPMXL 25-125, sec.: Grundfos UPML 25-105 N	**6098465**

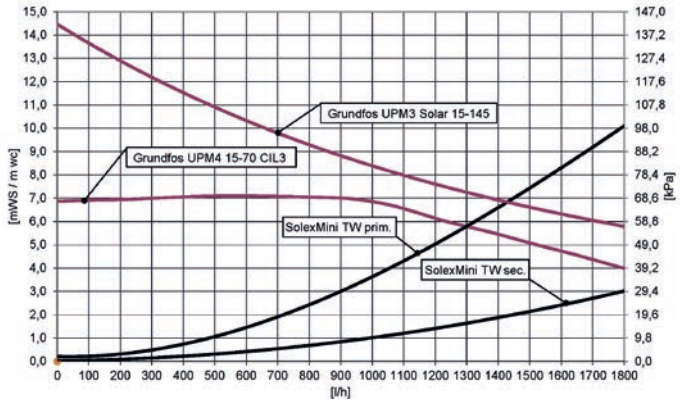
Accessories SolexMega-Kaskade TW	Item no.
2-way zone valve - DN 25 (1"), suitable for DHW	**563551**
suitable for DHW, for connecting or disconnecting single storage tanks or flow paths, DN 25, 1" int. thread, setting time for 90°: 12 sec, Kvs value = 60. DVGW, ACS and WRAS certified.	

Dimensioning product range Solex
Differential pressure diagrams

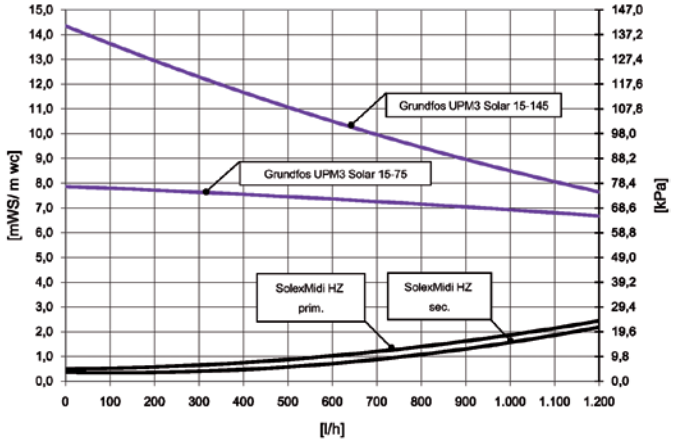
SolexMini HZ
up to 36 m² of collector surface



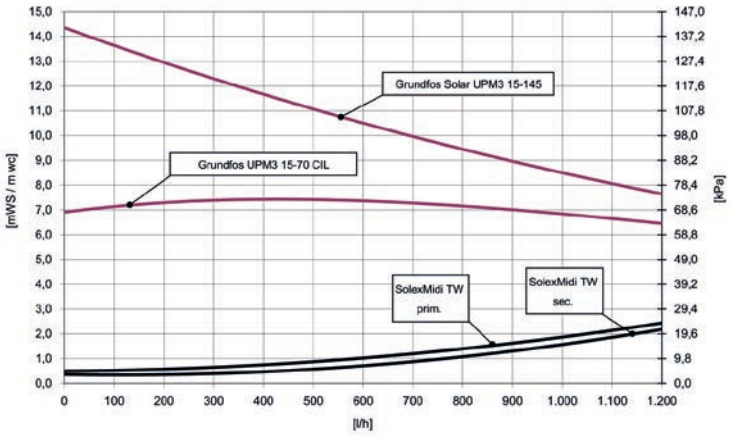
SolexMini TW
up to 36 m² of collector surface



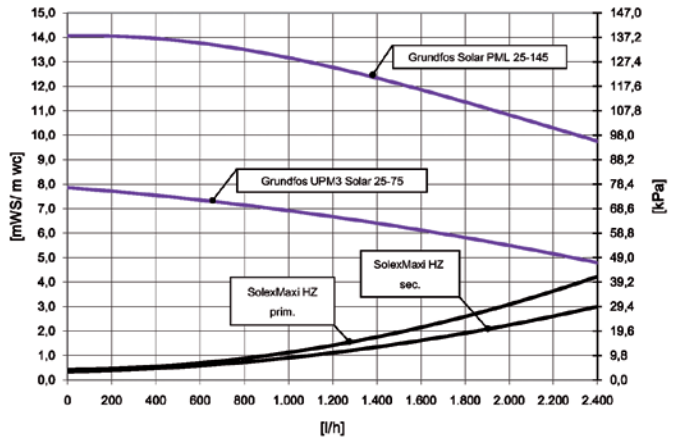
SolexMidi HZ
up to 60 m² of collector surface



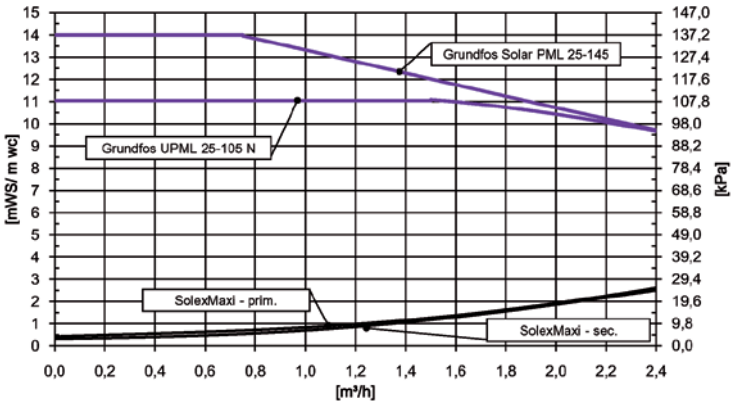
SolexMidi TW
up to 60 m² of collector surface



SolexMaxi HZ
up to 100 m² of collector surface



SolexMaxi TW
up to 100 m² of collector surface



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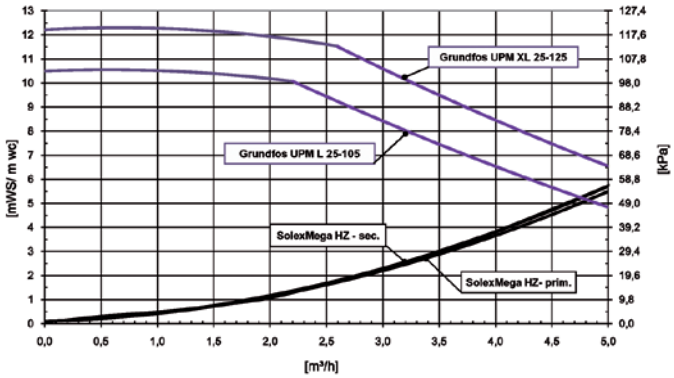
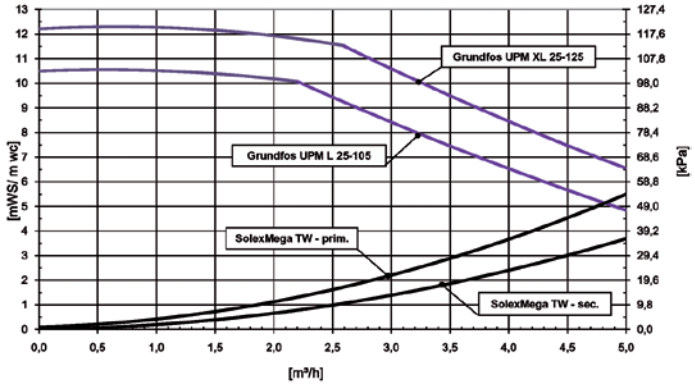
Dimensioning product range Solex
Differential pressure diagrams

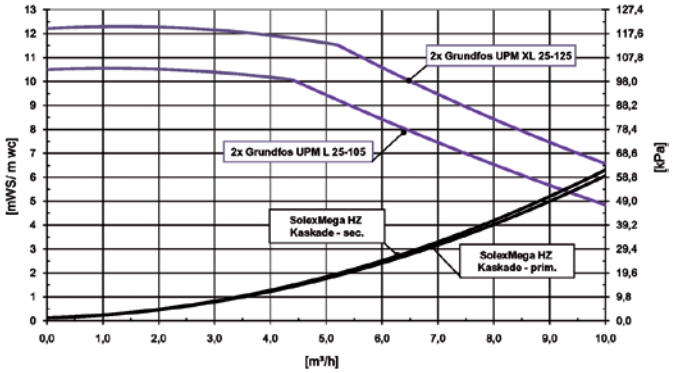
SolexMega HZ
up to 200 m² of collector surface



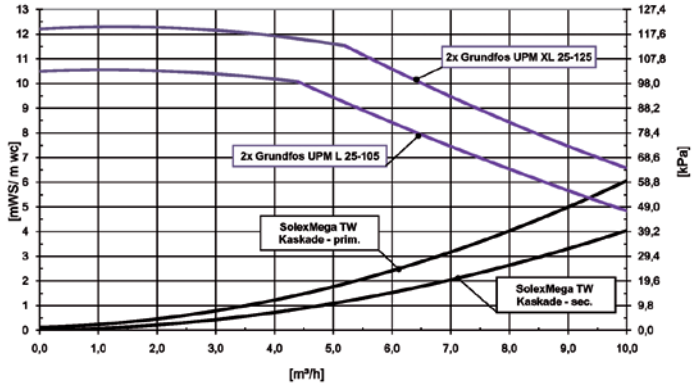
SolexMega TW
up to 200 m² of collector surface



SolexMega-Kaskade HZ
up to 400 m² of collector surface



SolexMega-Kaskade TW
up to 400 m² of collector surface



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