

Solar stations DN 20 - 32

Catalogue 01/2024

Solutions for solar thermal systems

Valid for the EU





Performance data	SolarBloC® midi Premium	SolarBloC® maxi Premium	SolarBloC® mega
Nominal diameter	DN 20 (¾")	DN 25 (1")	DN 32 (1¼")
Max. flow rate [l/h]	1200	2500	3500
Max. collector surface [m²] High-Flow (30 l/m²h)	40	80	115
Max. collector surface [m²] Low-Flow (15 l/m²h)	60	125	175

Selection table of available product versions: solar stations - SolarBloC®

	Controller		Pump		Sensor technology	
			Wilo	Grundfos	Basic	Premium
	without (to be obtained by the customer)	SC3.6	High-efficiency pump	High-efficiency pump	P _{FL} = pressure gauge V _{RET} = flowmeter T = Thermometer	P _{FL} = digital sensor V̇ = impulse T _{FL} = digital sensor T _{RET} = Pt1000
1-line return DN 20	•	—	PWM / iPWM	PWM	•	—
2-line Basic DN 20	•	•	PWM / iPWM	PWM	•	—
2-line Premium DN 20	—	•	PWM / iPWM	PWM	—	•
3-line Basic DN 20	•	—	PWM / iPWM	PWM	•	—
1-line return DN 25	•	—	PWM / iPWM	PWM	•	—
2-line Basic DN 25	•	•	PWM / iPWM	PWM	•	—
2-line Premium DN 25	—	•	PWM / iPWM	PWM	—	•
2-line Basic DN 32	•	—	0 - 10 V	PWM	•	—

• = available, — = not available

Application range / collector surface depending on the operation mode

Flow types in the collector field

Low-flow = 0.25 l/minute per m² of collector surface

High-flow = 0.5 l/minute per m² of collector surface

Please note:

In order to guarantee a trouble-free function it is essential to carry out a hydraulic dimensioning/check of the solar installation.



Controller for solar stations

- Premium version: SC3.5 / SGC36HV
Basic version: SC2.3 / SGC26H
- completely mounted and configured
- graphically animated LCD display
- the controller comprises 17 preset systems
- the controller can be used in solar installations with up to two collector fields or up to two domestic hot water or buffer storage tanks
- use of a solar transfer station with an external heat exchanger and a tank for potable water or a buffer tank with two loading areas is possible

Optional accessories SC3.5 and SC2.3:
data logger (can be connected via VBus interface, DL2 Plus)

Optional accessories SGC36HV and SGC26H:
communication interface GWD

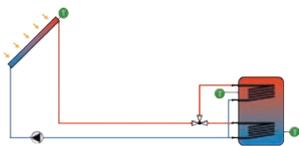
Preset systems:



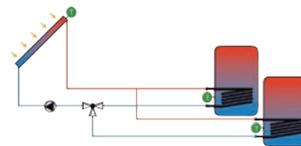
Internal heat exchanger, pump logic



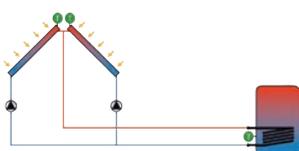
External heat exchanger, pump logic (1 x E13170 additionally required)



Internal heat exchanger, zone charging, valve logic (1 x E13170 additionally required)



2 storage tanks, internal heat exchanger, valve logic (1 x E13170 additionally required)



2 collector fields, internal heat exchanger, pump logic (1 x E13170 additionally required)



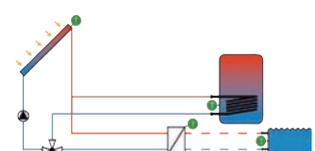
Internal heat exchanger, pump logic, return temperature maintenance (2 x E13170 additionally required)

Function overview controller

Display	graphic LCD display
Operation	4 (5) push buttons
Relay outputs	3 x 230 V, semiconductor relay 1 x 230 V, switching relay 1 x SELV (max. 24 V), potential-free relay 2 x PWM signal for rotation speed control
Inputs	4 x Pt1000
Flow rate sensor	yes
Heat quantity measurement	yes
Post-heating	yes
Alarm output	yes
circulation (depending on time / temperature)	yes
Holiday (storage tank recooling)	yes
Solid fuel boiler	yes
Reduction of stagnation	yes
Active cooling	yes
Quick tank charging	yes
Thermostat function	yes
Interval / tube collector	yes



Storage tank and pool, stand-alone operation of the external heat exchanger, pump logic (2 x E13170 additionally required)



Storage tank and pool, stand-alone operation of the external heat exchanger, valve logic (2 x E13170 additionally required)



Application range

- Efficient circulation of the solar fluid in the solar circuit

Application range

- up to a collector surface of 60 m²

Operating data

Max. operating pressure	6 bar
Max. operating temperature	120 °C
Low-flow = 0.25 l/min per m ² of collector surface	up to a collector surface of 60 m ²
High-flow = 0.5 l/min per m ² of collector surface	up to a collector surface of 40 m ²

For information on design data, see chapter "Product range SolarBloC®"

Technical data

Equipment

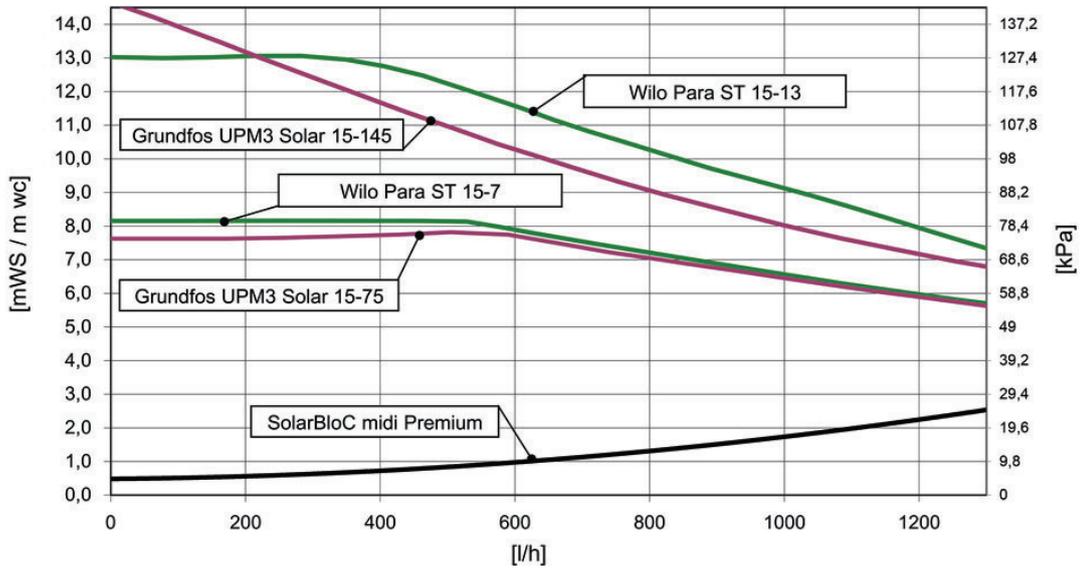
Airstop	yes
Check valves	2 x 200 mm wc
Safety valve	6 bar
Controller	SC3.5
Sensors	2 x Pt1000 (integrated) / 3 x Pt1000 (enclosed)
Pressure gauge	0-6 bar, resistant to high temperatures
FlowRotor	0.5-15 l/min

Dimensions

Nominal diameter	DN 20 (¾")
Connections	¾" int. thread
Width	322 mm
Height	557 mm
Installation length	298 mm
Depth	150 mm
Centre distance	100 mm

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Check valves	Brass



SolarBloC® midi Premium - DN 20 (¾")		Item no.
	Wilo Para ST 15/7, controller SC3.5	773313WP7
	Wilo Para ST 15/13, controller SC3.5	773313WP13
	Grundfos UPM3 Solar 15-75, controller SC3.5	773313GP7
	Grundfos UPM3 Solar 15-145, controller SC3.5	773313GP14



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- Efficient circulation of the solar fluid in the solar circuit

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Operating data

Max. operating pressure	6 bar
Max. operating temperature	120 °C
Low-flow = 0.25 l/min per m ² of collector surface	up to a collector surface of 60 m ²
High-flow = 0.5 l/min per m ² of collector surface	up to a collector surface of 40 m ²

For information on design data, see chapter "Product range SolarBloC®"

Technical data

Equipment

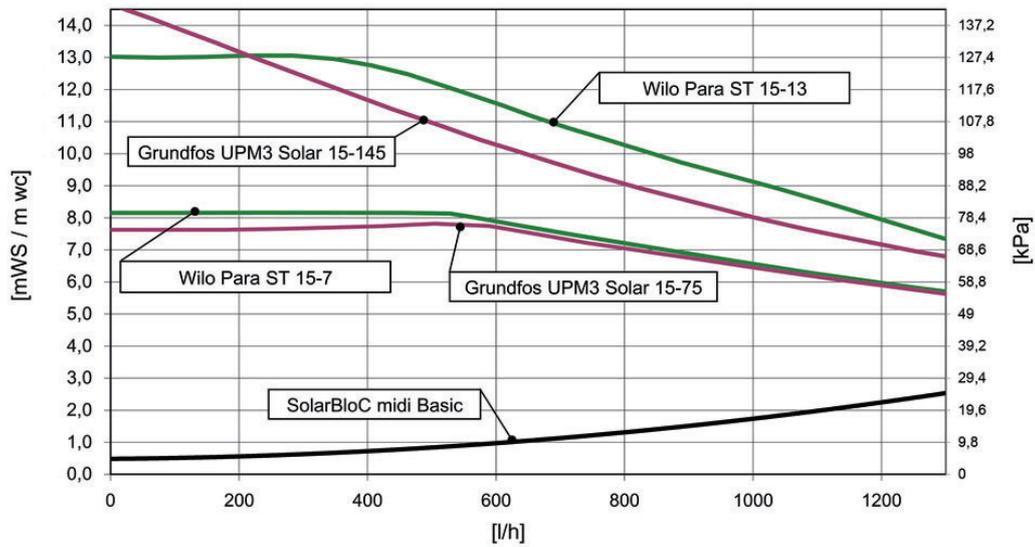
Airstop	yes
Check valves	2 x 200 mm wc
Safety valve	6 bar
Controller	SC2.3
Sensors	2 x Pt1000 (enclosed, only for modules with controller)
Pressure gauge	0-6 bar, resistant to high temperatures
Flow meter (secondary)	3-22 l/min

Dimensions

Nominal diameter	DN 20 (¾")
Connections	¾" int. thread
Width	322 mm
Height	557 mm
Installation length	296 mm
Depth	150 mm
Centre distance	100 mm

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Check valves	Brass



SolarBloC® midi Basic - DN 20 (¾")		Item no.
	Wilo Para ST 15/7, controller SC2.3	775212WP7
	Wilo Para ST 15/13, controller SC2.3	775212WP13
	Grundfos UPM3 Solar 15-75, controller SC2.3	775212GP7
	Grundfos UPM3 Solar 15-145, controller SC2.3	775212GP14
	Wilo Para ST 15/7, controller on site	7655210WP7
	Wilo Para ST 15/13, controller on site	7655210WP13
	Grundfos UPM3 Solar 15-75, controller on site	7655210GP7
	Grundfos UPM3 Solar 15-145, controller on site	7655210GP14



Application range

- SolarBloC® 3-line station for installations with 2 tanks and 2 roofs

Application range

- up to a collector surface of 60 m²

Operating data

Max. operating pressure	6 bar
Max. operating temperature	120 °C
Low-flow = 0.25 l/min per m ² of collector surface	up to a collector surface of 60 m ²
High-flow = 0.5 l/min per m ² of collector surface	up to a collector surface of 40 m ²

For information on design data, see chapter "Product range SolarBloC®"

Technical data

Equipment

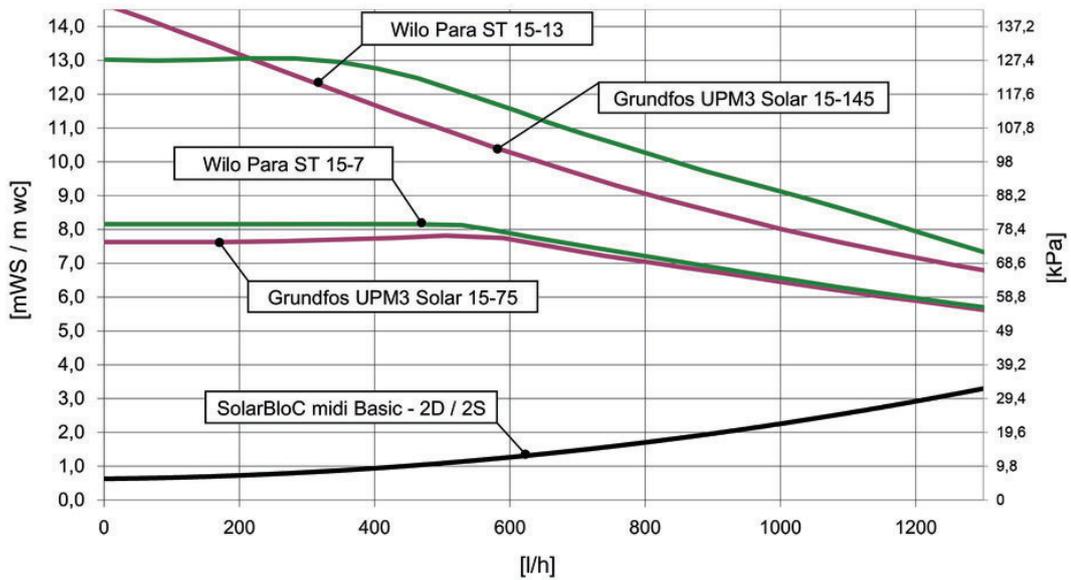
Airstop	yes
Check valves	3 x 200 mm wc
Safety valve	6 bar
Controller	on site
Sensors	no
Pressure gauge	0-6 bar, resistant to high temperatures
Flow meter (secondary)	3-22 l/min

Dimensions

Nominal diameter	DN 20 (¾")
Connections	¾" int. thread
Width	572 mm
Height	429 mm
Installation length	418 mm
Depth	150 mm

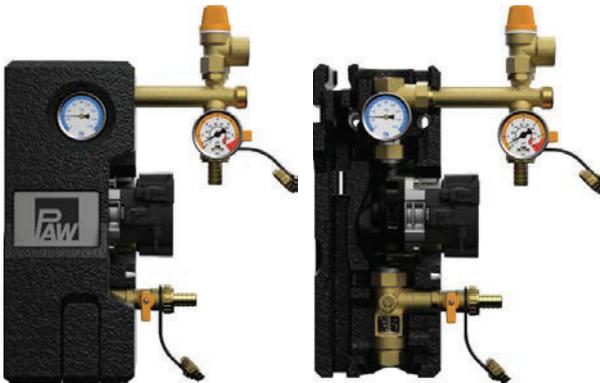
Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Check valves	Brass



SolarBloC® midi Basic, 3-line

SolarBloC® midi Basic, 3-line - DN 20 (¾")		Item no.
	2x Wilo Para ST 15/7, controller on site	775810WP7
	2x Wilo Para ST 15/13, controller on site	775810WP13
	2x Grundfos UPM3 Solar 15-75, controller on site	775810GP7
	2x Grundfos UPM3 Solar 15-145, controller on site	775810GP14



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Operating data

Max. operating pressure	6 bar
Max. operating temperature	120 °C
Low-flow = 0.25 l/min per m ² of collector surface	up to a collector surface of 60 m ²
High-flow = 0.5 l/min per m ² of collector surface	up to a collector surface of 40 m ²

For information on design data, see chapter "Product range SolarBloC®"

Technical data

Equipment

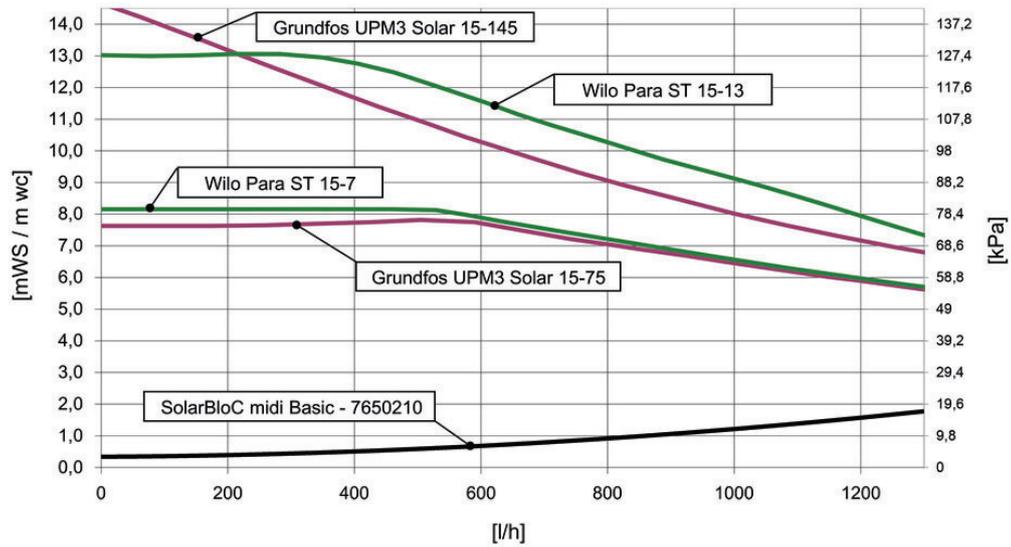
Airstop	no
Check valves	1 x 200 mm wc
Safety valve	6 bar
Controller	on site
Sensors	no
Pressure gauge	0-6 bar, resistant to high temperatures
Flow meter (secondary)	3-22 l/min

Dimensions

Nominal diameter	DN 20 (¾")
Connections	¾" int. thread
Width	244 mm
Height	383 mm
Installation length	296 mm
Depth	150 mm

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Check valves	Brass



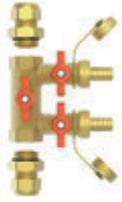
SolarBloC® midi Basic return station

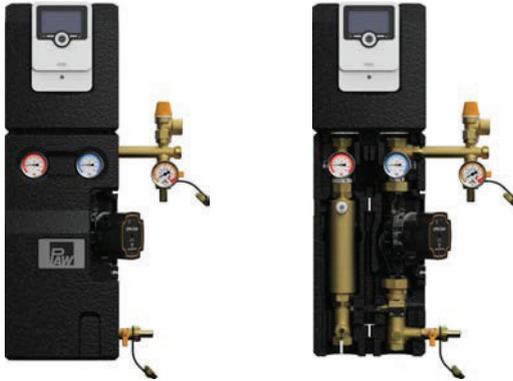
SolarBloC® midi Basic return station - DN 20 (¾")		Item no.
	Wilo Para ST 15/7, controller on site	7650210WP7
	Wilo Para ST 15/13, controller on site	7650210WP13
	Grundfos UPM3 Solar 15-75, controller on site	7650210GP7
	Grundfos UPM3 Solar 15-145, controller on site	7650210GP14



	<p>Connection set for diaphragm expansion tank - DN 20 (3/4") 437509</p> <p>Connection set for diaphragm expansion tank DN 20 (3/4") with cap valve 3/4" 437510</p> <p>for connection to the safety set 3/4", for tank diameter up to 440 mm, max. 35 kg, with stainless steel corrugated hose 3/4" internal thread - internal thread x 500 mm, wall bracket with mounting equipment, solar tank connector 3/4"</p>	
	<p>Connection piece for immersion sleeves 5660</p> <p>Connection piece for immersion sleeve with 1/2" external thread, for a length up to 45 mm 1" union nut with gasket, 3/4" internal thread, with sleeve</p>	
	<p>Immersion sleeve 1/2" ext. thread x T = 30 mm 566001</p> <p>self-sealing, with o-ring, polished brass, for sensor, T = 30 mm</p>	
	<p>Immersion sleeve 1/4" ext. thread x T = 60 mm 566002</p> <p>standard, chromed brass, for sensor, T = 60 mm</p>	
	<p>Immersion sleeve 1/2" ext. thread x T = 60 mm 5660021</p> <p>standard, chromed brass, with valve extension (25 mm), for sensor, T = 60 mm</p>	
	<p>Immersion sleeve 1/2" ext. thread x T = 100 mm 566003</p> <p>standard, chromed copper, for sensor, T = 100 mm</p>	
	<p>Immersion sleeve 1/2" ext. thread x T = 150 mm 566004</p> <p>standard, chromed copper, for sensor, T = 150 mm</p> <p>For all immersion sleeves: for the installation of the temperature sensors (d = 6 mm) in the storage tank, in the collector and the hydraulic separator.</p> <p>Attention: suitable for ball valves until 2016!</p>	
	<p>Accessory kit for storage tank installation DN 20 (3/4") 172706201</p> <p>Flange bracket made of brass with fill and drain valve and insulation for direct assembly of the return station to the storage tank</p>	
	<p>Solar check valve RSS - DN 20 (3/4") 1211</p> <p>can be opened, up to 150 °C</p>	
	<p>Solar check valve RSS - DN 20 (3/4") 12111</p> <p>without possibility for manual opening, up to 220 °C</p> <p>with brass valve plate, all installation positions possible, opening pressure 200 mm wc, 3/4" internal thread, length = 50 mm</p>	
	<p>Hand filling pump 7061</p> <p>1/2" external thread, 15 mm hose connection, attainable pressure up to approx. 4 bar, length 225 mm</p>	
	<p>Hand filling pump with fill and drain valve 7062</p> <p>1/2" external thread, 15 mm hose connection, attainable pressure up to approx. 4 bar, length 225 mm</p>	



	<p>Hose connector for hand filling and injection pump</p> <p>Hose connector for hand filling and injection pump 1/2" x 15 mm</p>	<p>70611</p>
	<p>Stainless-steel corrugated hose Solarflex, L=18-800 mm</p>	<p>840180</p>
	<p>Stainless-steel corrugated hose Solarflex, L=22-800 mm</p> <p>Ideal for the roof part leading to the collector. Two soldered connections for clamping-ring compression fittings, for diameters of 18 mm or 22 mm.</p> <p>Temperature: -30 °C ... 260 °C; max. admissible pressure: 12 bar; bursting pressure: 120 bar; bending radius: 45 mm; wall width: 0,2 mm; inside diameter: 12 mm or 16 mm; length: 500 mm or 800 mm</p>	<p>840280</p>
	<p>Flush and drain unit DN 20 (3/4")</p> <p>Counter T-piece, self-sealing with fill and drain valve for extending the solar station with a flush and drain connection, installation at the lowest point (drain unit).</p>	<p>31611</p>
	<p>Flush and fill unit DN 20 (3/4")</p>	<p>56500</p>
	<p>Flush and fill unit DN 20 (3/4") for 22 mm copper pipe</p> <p>consisting of: Brass ball valve internal thread 3/4", with red butterfly handle, with 2 fill and drain valves with hose connector 15 mm</p> <p>565221: additionally with 2 cutting-ring compression fittings with support sleeve, premounted</p>	<p>565221</p>
	<p>Double nipple 3/4" x 3/4"</p>	<p>548310</p>
	<p>Double nipple 1 x 1</p> <p>for assembly of corrugated stainless steel hoses</p> <p>548310: 3/4" ext. thread, self-sealing with o-ring x outlet 3/4" ext. thread, flat-sealing 548340: 3/4" ext. thread, self-sealing with o-ring x outlet 1" ext. thread, flat-sealing</p>	<p>548340</p>
	<p>Cutting-ring compression fitting DN 20 (3/4"), d = 15 mm</p>	<p>561215</p>
	<p>Cutting-ring compression fitting DN 20 (3/4"), d = 18 mm</p>	<p>561218</p>
	<p>Cutting-ring compression fitting DN 20 (3/4"), d = 22 mm</p> <p>3/4" external thread, self-sealing with o-ring, with support sleeve, suitable for soft copper pipes. For temperatures up to 150 °C.</p>	<p>561222</p>
	<p>2-way zone valve - DN 20 (3/4")</p> <p>for connecting and disconnecting single storage tanks, DN 20, 3/4" int. thread, setting time for 90°: 30 sec., Kvs value = 41</p>	<p>563532</p>
	<p>3-way zone valve - DN 20 (3/4")</p> <p>for switching between single storage tanks, DN 20, 3/4" int. thread, setting time for 90°: 18 sec., Kvs value = 7</p>	<p>563533</p>



Application range

- Efficient circulation of the solar fluid in the solar circuit

Application range

- up to a collector surface of 125 m²

Operating data

Max. operating pressure	6 bar
Max. operating temperature	120 °C
Low-flow = 0.25 l/min per m ² of collector surface	up to a collector surface of 125 m ²
High-flow = 0.5 l/min per m ² of collector surface	up to a collector surface of 80 m ²

For information on design data, see chapter "Product range SolarBloC®"

Technical data

Equipment

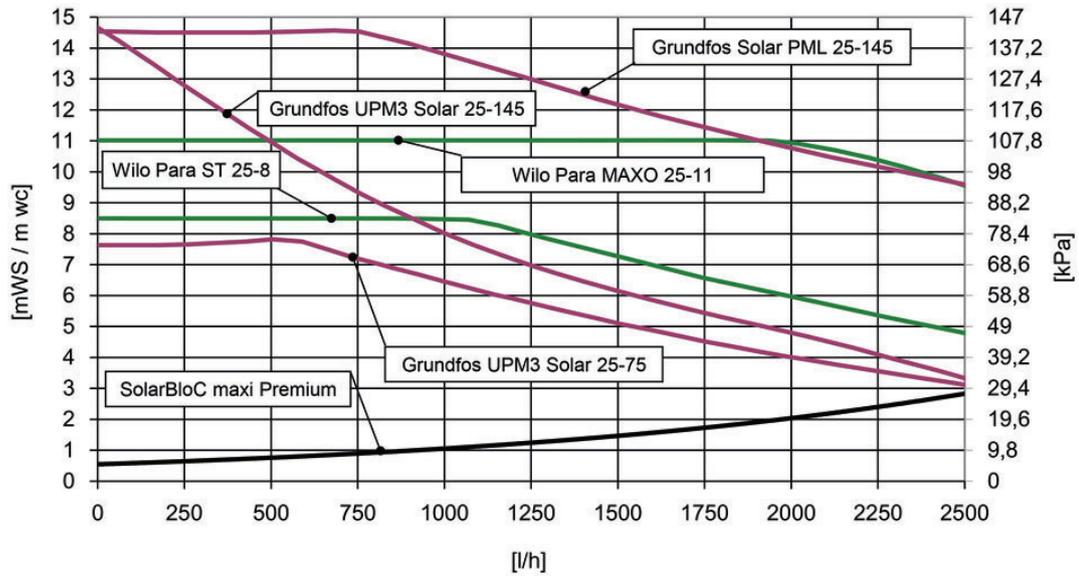
Airstop	yes
Check valves	2 x 200 mm wc
Safety valve	6 bar
Controller	SC3.5
Sensors	2 x Pt1000 (integrated) / 3 x Pt1000 (enclosed)
Pressure gauge	0-6 bar, resistant to high temperatures
FlowRotor	1-35 l/min

Dimensions

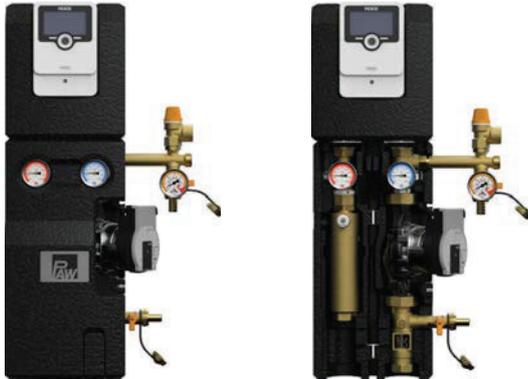
Nominal diameter	DN 25 (1")
Connections	1" int. thread
Width	324 mm
Height	653 mm
Installation length	394 mm
Depth	158 mm
Centre distance	100 mm

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Check valves	Brass



SolarBloC® maxi Premium - DN 25 (1")		Item no.
	Wilo Para ST 25/8, controller SC3.5	783313WP8
	Wilo Para MAXO 25-180-11-F02, controller SC3.5	783313WM11
	Grundfos UPM3 Solar 25-75, controller SC3.5	783313GP7
	Grundfos UPM3 Solar 25-145, controller SC3.5	783313GP14
	Grundfos Solar PML 25-145, controller SC3.5	783313GH14



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High-flow = 0.5 l/min per m ² of collector surface	up to a collector surface of 80 m ²

For information on design data, see chapter "Product range SolarBloC®"

Technical data

Equipment

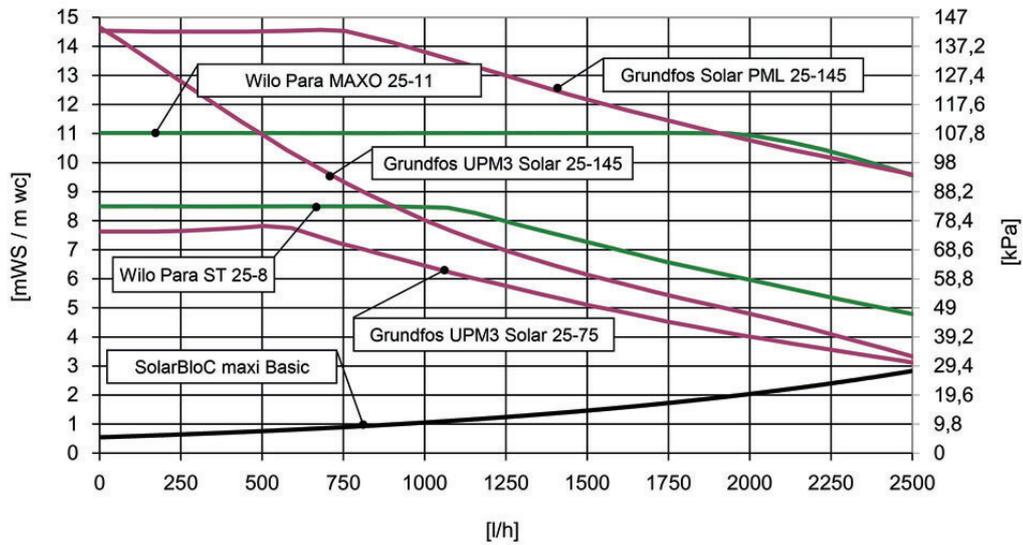
Airstop	yes
Check valves	2 x 200 mm wc
Safety valve	6 bar
Controller	SC2.3
Sensors	2 x Pt1000 (enclosed, only for modules with controller)
Pressure gauge	0-6 bar, resistant to high temperatures
Flow meter (secondary)	5-40 l/min

Dimensions

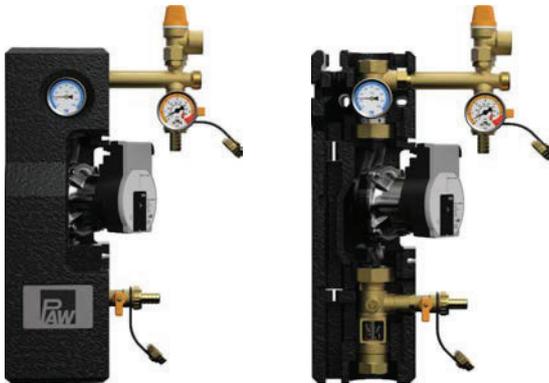
Nominal diameter	DN 25 (1")
Connections	1" int. thread
Width	324 mm
Height	653 mm
Installation length	394 mm
Depth	160 mm
Centre distance	100 mm

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Check valves	Brass



SolarBloC® maxi Basic - DN 25 (1")		Item no.
	Wilo Para ST 25/8, controller SC2.3	782212WP8
	Wilo Para MAXO 25-180-11-F02, controller SC2.3	782212WM11
	Grundfos UPM3 Solar 25-75, controller SC2.3	782212GP7
	Grundfos UPM3 Solar 25-145, controller SC2.3	782212GP14
	Grundfos Solar PML 25-145, controller SC2.3	782212GH14
	Wilo Para ST 25/8, controller on site	607052WP8
	Wilo Para MAXO 25-180-11-F02, controller on site	782210WM11
	Grundfos UPM3 Solar 25-75, controller on site	607052GP8
	Grundfos UPM3 Solar 25-145, controller on site	607052GP14
	Grundfos Solar PML 25-145, controller on site	607052GH14



Application range

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Application range

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Max. operating pressure	6 bar
Max. operating temperature	120 °C
Low-flow = 0.25 l/min per m ² of collector surface	up to a collector surface of 125 m ²
High-flow = 0.5 l/min per m ² of collector surface	up to a collector surface of 80 m ²

For information on design data, see chapter "Product range SolarBloC®"

Technical data

Equipment

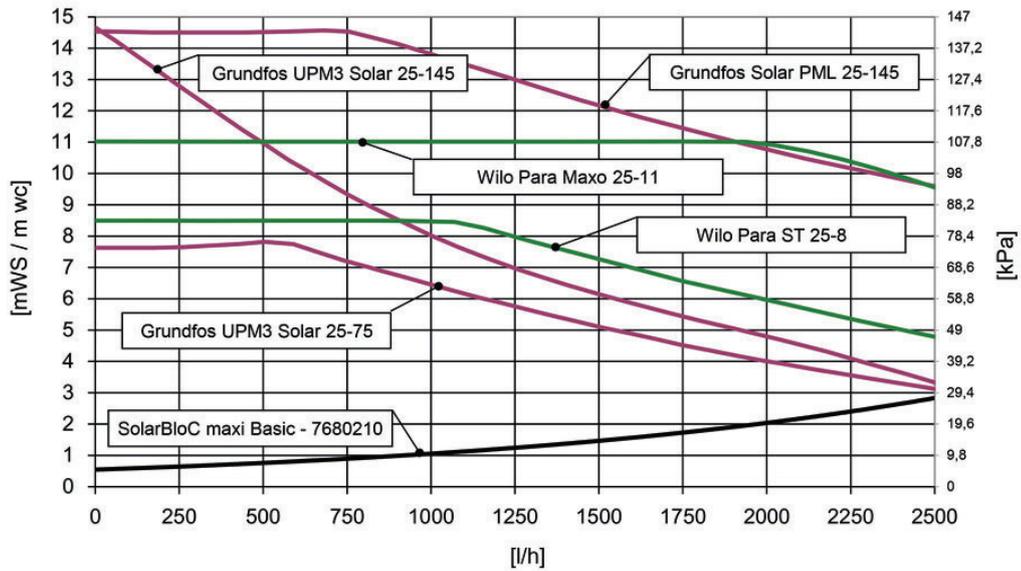
Airstop	no
Check valves	1 x 200 mm wc
Safety valve	6 bar
Controller	on site
Sensors	no
Pressure gauge	0-6 bar, resistant to high temperatures
Flow meter (secondary)	5-40 l/min

Dimensions

Nominal diameter	DN 25
Connections	1" int. thread
Width	244 mm
Height	474 mm
Installation length	394 mm
Depth	150 mm

Materials

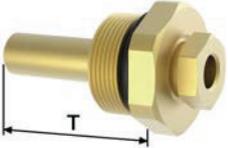
Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Check valves	Brass



SolarBloC® maxi Basic return station

SolarBloC® maxi Basic return station - DN 25		Item no.
	Wilo Para ST 25/8, controller on site	7680210WP8
	Wilo Para MAXO 25-180-11-F02, controller on site	780210WM11
	Grundfos UPM3 Solar 25-75, controller on site	7680210GP8
	Grundfos UPM3 Solar 25-145, controller on site	7680210GP14
	Grundfos Solar PML 25-145, controller on site	7680210GH14



	<p>Hand filling pump</p> <p>½" external thread, 15 mm hose connection, attainable pressure up to approx. 4 bar, length 225 mm</p>	<p>7061</p>
	<p>Hand filling pump with fill and drain valve</p> <p>½" external thread, 15 mm hose connection, attainable pressure up to approx. 4 bar, length 225 mm</p>	<p>7062</p>
	<p>Hose connector for hand filling and injection pump</p> <p>Hose connector for hand filling and injection pump ½" x 15 mm</p>	<p>70611</p>
	<p>Flush and fill unit DN 25 (1")</p>	<p>5640</p>
	<p>Flush and fill unit DN 25 (1") for 15 mm copper pipe</p>	<p>56431</p>
	<p>Flush and fill unit DN 25 (1") for 22 mm copper pipe</p> <p>consisting of: Brass ball valve internal thread 1", with red butterfly handle, with 2 outlets ½" before and after the ball, 2 self-sealing fill and drain valves with hose connector 15 mm</p> <p>56431 and 56451: additionally with 2 cutting-ring compression fittings with support sleeve, premounted</p>	<p>56451</p>
	<p>Flush and drain unit DN 25 (1")</p> <p>Counter T-piece with self-sealing fill and drain valve. For extending the solar station with a flush and drain connection or for installation at the lowest point (drain unit).</p>	<p>34611</p>
	<p>Cutting-ring compression fitting DN 25 (1"), d = 15 mm</p>	<p>562915</p>
	<p>Cutting-ring compression fitting DN 25 (1"), d = 18 mm</p>	<p>562918</p>
	<p>Cutting-ring compression fitting DN 25 (1"), d = 22 mm</p> <p>1" external thread, self-sealing with o-ring, with support sleeve, suitable for soft copper pipes. For temperatures up to 150 °C.</p>	<p>562922</p>
	<p>Immersion sleeve ½" ext. thread x T = 30 mm</p> <p>self-sealing, with o-ring, polished brass, for sensor, T = 30 mm</p>	<p>566001</p>
	<p>Immersion sleeve ¼" ext. thread x T = 60 mm</p> <p>standard, chromed brass, for sensor, T = 60 mm</p>	<p>566002</p>
	<p>Immersion sleeve ½" ext. thread x T = 60 mm</p> <p>standard, chromed brass, with valve extension (25 mm), for sensor, T = 60 mm</p>	<p>5660021</p>
	<p>Immersion sleeve ½" ext. thread x T = 100 mm</p> <p>standard, chromed copper, for sensor, T = 100 mm</p>	<p>566003</p>
	<p>Immersion sleeve ½" ext. thread x T = 150 mm</p> <p>standard, chromed copper, for sensor, T = 150 mm</p> <p>For all immersion sleeves: for the installation of the temperature sensors (d = 6 mm) in the storage tank, in the collector and the hydraulic separator.</p> <p>Attention: suitable for ball valves until 2016!</p>	<p>566004</p>



	Stainless-steel corrugated hose Solarflex, L=18-800 mm	840180
	Stainless-steel corrugated hose Solarflex, L=22-800 mm Ideal for the roof part leading to the collector. Two soldered connections for clamping-ring compression fittings, for diameters of 18 mm or 22 mm. Temperature: -30 °C ... 260 °C; max. admissible pressure: 12 bar; bursting pressure: 120 bar; bending radius: 45 mm; wall width: 0,2 mm; inside diameter: 12 mm or 16 mm; length: 500 mm or 800 mm	840280
	Hand refractometer The hand refractometer measures the anti-freeze safety of water-propylene glycol and water-ethylene glycol mixtures in solar thermal installations. It can also be used to determine the density of water-battery acid mixtures. Only one or two drops of the fluid are sufficient. Measuring ranges: propylene glycol: 0 - 50 °C ethylene glycol: 0 - 50 °C battery acid: 1.10 - 1.40 g/cm ³	58055
	Solar pressure gauge 0-6 bar	523206
	Solar pressure gauge 0-10 bar with automatic isolation, solar version up to 130 °C, measuring range: 0-6 bar / 0-10 bar diameter: d = 50 mm	523210
	2-way zone valve - DN 25 (1") for tank heat transfer module Midi for connecting and disconnecting single storage tanks, DN 25, 1" int. thread, setting time for 90°: 30 sec., Kvs value = 68	563542
	2-way zone valve - DN 32 (1¼") for tank heat transfer module Maxi for connecting and disconnecting single storage tanks, DN 32, 1¼" internal thread, setting time for 90°: 30 sec., Kvs value = 123	563552
	3-way zone valve - DN 25 (1") for switching between single storage tanks, DN 25, 1" int. thread, setting time for 90°: 18 sec., Kvs value = 11	563543
	3-way zone valve - DN 32 (1¼") for switching between single storage tanks, DN 32, 1¼" int. thread, setting time for 90°: 18 sec., Kvs value = 15 can be used in solar and heating installations, to switch between different zones or to connect and disconnect different parts of the system. The actuator is equipped with a relay which is actuated by a 2-point signal, if need be it can also be manually operated. The 3-way zone valves can be operated in both directions. Electric supply: 230 V / 50 Hz Casing protection type: IP 44; protection class II Input power: 3 VA (standby), 7.5 VA (operation) Ambient temperature: -10 °C ... +60 °C Medium temperature: 0 °C ... 100 °C, short-term 115 °C Equipment: with 1.8 m cable 4 x 0.5 mm ²	563553



Application range

- Efficient circulation of the solar fluid in the solar circuit

Application range

- up to a collector surface of 175 m²

Operating data

Max. operating pressure	6 bar
Max. operating temperature	120 °C
Low-flow = 0.25 l/min per m ² of collector surface	up to a collector surface of 175 m ²
High-flow = 0.5 l/min per m ² of collector surface	up to a collector surface of 115 m ²

For information on design data, see chapter "Product range SolarBloC®"

Technical data

Equipment

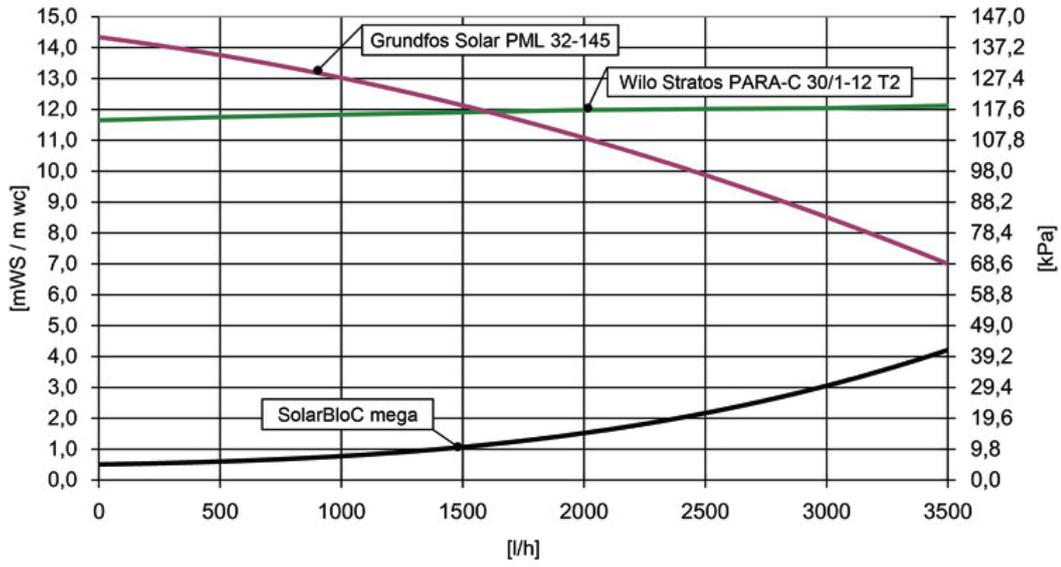
Airstop	no
Check valves	2 x 200 mm wc
Safety valve	6 bar
Controller	on site
Sensors	no
Pressure gauge	0-6 bar, resistant to high temperatures

Dimensions

Nominal diameter	DN 32
Connections	1¼" int. thread
Width	366 mm
Height	671 mm
Installation length	603 mm
Depth	240 mm
Centre distance	125 mm

Materials

Valves and fittings	Brass
Gaskets	EPDM / AFM34
Insulation	EPP
Check valves	Brass



SolarBloC® mega - DN 32	Item no.	
	Wilo Stratos PARA-C 30/1-12 T2, controller on site	791010WH12
	Grundfos Solar PML 32-145, controller on site	791010GH14





DrainBloC DN 20

Catalogue 01/2024

Drainback systems
for solar thermal installations

Valid for the EU





Application range

- Drain-back system for small and medium solar thermal installations

Recommended application range

- Vapour and over-pressure formation as well as stagnation is avoided, as there is no solar fluid in the collector field

Operating data

Max. operating pressure	10 bar
Operating temperature	95 °C, short-term 130 °C
Head of the pump	14.5 m
Container volume	20 l (usable up to 15 litres)

Technical data

Equipment

PWM pump	2-60 W, PWM control
Flow meter	0.5-10 l/min
Safety valve	6 bar
Pressure gauge	0-6 bar, resistant to high temperatures

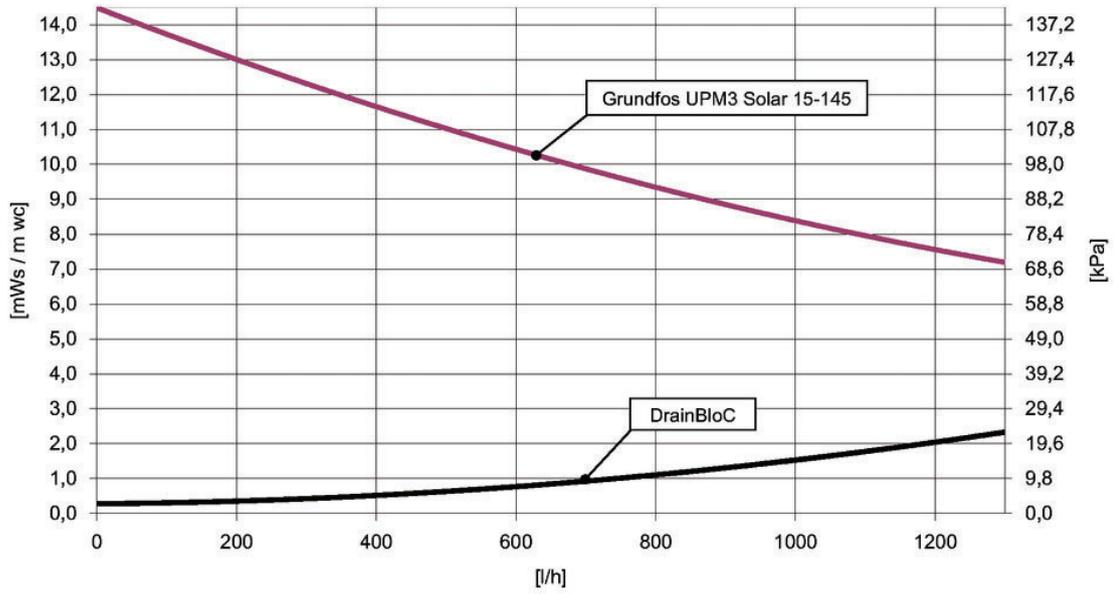
Controller SC2.3

Materials

Valves and fittings	Brass
DGaskets	Klingersil / EPDM
Insulation	EPP

Dimensions

Height container	603 mm
Ø container	280 mm
Total width	at least 721 mm
Width DrainBloC	334 mm
Height DrainBloC	577 mm
Centre distance	var., min.400 mm
Total depth	365 mm



DrainBloC® DN 20 (¾")		Item no.
	Grundfos UPM3 Solar 15-145	6104425