







Application ranges

Drain-back system

for small and medium solar thermal installations

System advantages:

Pressurised system, thus air molecules don't enter the solar circuit

Simple adjusting of pressure by means of Schrader valve (automatic)

Quick draining in case of pump stagnation

Simple and optimal level adjustment

Plug&Play, optimal drain-back values already preset

Safe filling process without pressure surges

Quiet operation

Detailed and illustrated operation instructions

Available in the following languages:







Further languages are available on request.

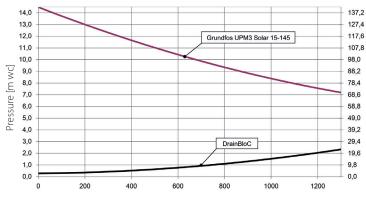






BLOC® DN 20
Brass
Klingersil / EPDM
10 bars
95 °C, short-term: 130 °C
14.5 m wc
20 litres (usable 15 litres)
2-60 W, PWM control 0.5 - 10 l/min
6 bars
0-6 bars, resistant to high temperatures
SC2.3
¾" ext. thread, flat sealing
variable, at least 400 mm
721 mm
622 mm
365 mm

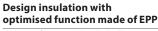
Differential pressure diagram DrainBloC® DN 20



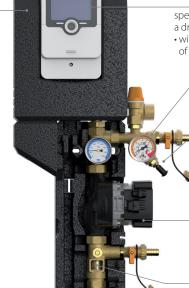
Flow rate [I/h]



Technical data and accessories



- elastic, front and back shell snap in accurately
- · optimum thermal insulation



Controller SC2.3

specially for operation in a drain-back system

 with monitoring and possibility of heat quantity

Solar pressure gauge

with double scale for bars/psi

Schrader valve (automatic)

comfortable adjusting of operating pressure by mans of commercial Schrader valve (automatic)

High-efficiency pump with PWM control

- up to 14.5 m head
- fitted with controller
- · with serial number

Flow meter

for precise flow rate measurement

Connections 3/4" ext. thread

flat-sealing, brass, for a safe connection of stainless steel corrugates pipes

Intermediate tank

- made of steel, for high pressure resistance
 high container volume
- of 20 litres

Wall bracket

- zinc-galvanised steel sheet
- specially formed, for a quick and easy wall assembly of the complete station

OVERVIEW CONTROLLER FUNCTIONS SC2.3			
Display	Segment display with intuitive imagery and symbols		
Operation	2 push buttons + wheel for scrolling		
Relay outputs	2 x 230 V, semiconductor relay 1 x PWM signal for speed control		
Sensor inputs	5 x Pt1000		
Flow rate sensor	yes		
Balancing of operating hours	yes		
Heat quantity balancing	yes		
Emergency shut down	yes		
Target temperature	yes		
Antifreeze	yes		

Data for the calculation of the installation volume Usable volume of the DrainBloC® container: 15 I					
	Ø	Volume [l/m]			
Copper pipe	12 mm	0.08			
	15 mm	0.13			
	18 mm	0.2			
	22 mm	0.38			
Stainless-steel corrugated hose	DN 15	0.2			
	DN 20	0.35			
Collector	according to the manufacturer	according to the indications of the collector manufacturer			

Illustration	DrainBloC® – DN 20	Item no.
	DrainBloC® – DN 20, Drain-back system incl. high-efficiency pump with PWM control and intermediate tank	6104425





DrainBloC® - Ideal solution: draining of the collector field

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

No stagnation of the system

Diaphragm expansion tank not necessary due to the air cushion in the system

In case of swithing on the pump:

Back filling of the collector field out of the container

Transfer of heat into the storage tank by means of the solar fluid

The intelligent system

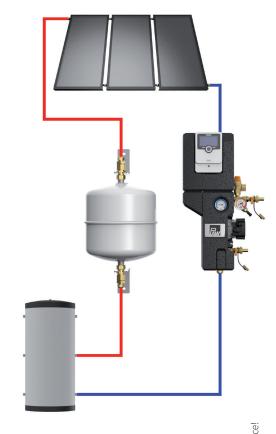
Control via collector and storage tank temperature sensors

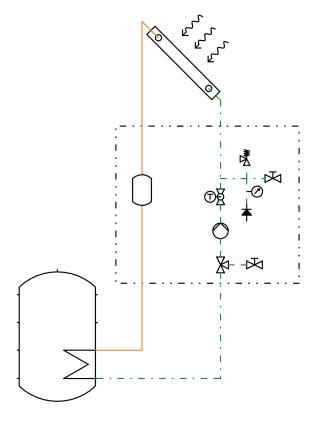
Automatic reduction of pump performance after startup phase by means of the controller

Speed control of the pump performance during operation:
Optimum adaptation to the operating conditions of the system

System with compressed air cushion: pressurised system → high system stability

Innovative drain-back mechanism: draining of the collector is ensured









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