Technical Data Sheet

Solar Pump Group

GSP

21/06/2018

Function

Solar pump groups use solar thermal energy and transfer it to a fluid heat carrier which then releases it to the water necessary for the system.
The groups feature a pump which circulates the fluid inside the system. All the components of the system consist of materials suitable to stand the high temperatures that the fluid may reach.
Moreover, the groups are complete with pump shut-off valves, fill/drain taps, check valve, safety valve, flow-meter and insulation. The deareator is available on model GSP1180 only.

Technical data

Max. continuous working temperature:	110 °C
Flow restrictor range:	0.5 ÷ 15 l/min
Thermometers range:	0 ÷ 160 °C
Set pressure of safety valve:	6 bar
Pressure gauge range:	0 ÷ 16 bar
Working fluid:	Acqua con glicole (max 50%)
Pump model:	WILO YONOS PARA ST 15/6 RKC M
Connections:	G 1” M a tenuta piana
Pump interaxis:	130 mm
Energy Efficiency Index (EEI):	≤ 0,20
Max. peak temperature:	140 °C
Max. working pressure:	10 bar

Materials

Press-forged components:	CW 617 N – DW UNI-EN 12165:2016
O-rings:	Peroxide cured EPDM
Gaskets:	Carbon graphite filled PTFE G415
Insulation:	Black PPE (40 kg/m3)

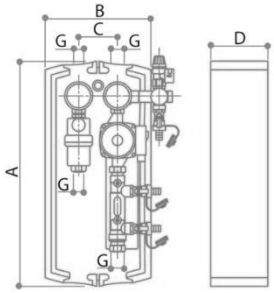
Surface treatment

None

Dimensional Drawings

GSP 1180

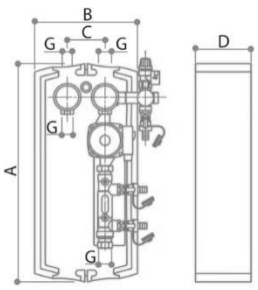
Solar pump group complete with shut-off valves with built-in thermometers, deareator, fill/drain taps, check valves, 6 bar safety valve, insulation and 0,5 - 15 l/min flow-meter.
Max. working temperature 110 °C.



Code	Size	A	B	C	D	G
72000010	G 3/4	440	250	125	115	G3/4

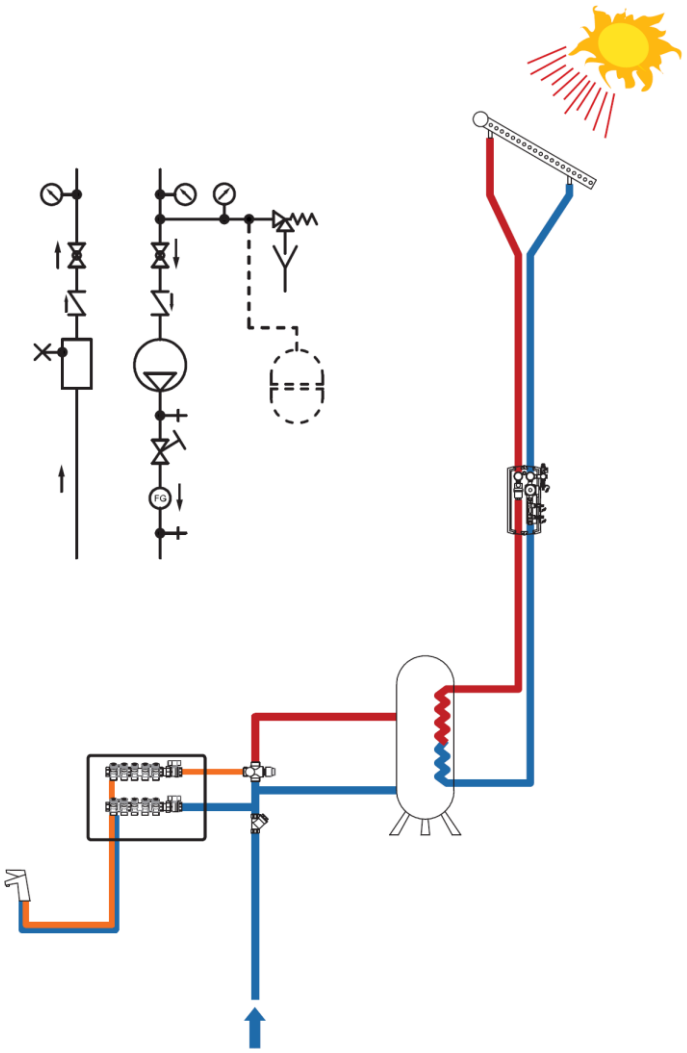
GSP 1182

Solar pump group complete with shut-off valves with built-in thermometers, fill/drain taps, check valves, 6 bar safety valve, insulation and 0,5 - 15 l/min flow-meter.
Max. working temperature 110 °C



Code	Size	A	B	C	D	G
72000012	G 3/4	440	250	125	115	G3/4

Function and Hydraulic Scheme



	valvola intercettazione *check valve*
	valvola sfera *ball valve*
	valvola non ritorno, la freccia indica il senso di flusso *non-return valve, the arrow indicates the direction of flow*
	valvola di sicurezza (valvola di bypass) *safety valve (bypass valve)*
	valvola intercettazione, regolazione e bilanciamento *check valve, regulation and balancing*
	valvola a sfera d'intercettazione, regolazione e bilanciamento *ball check valve regulation and balancing*
	valvola di iniezione con sensore a distanza *injection valve with remote sensor*

	rubinetto di carico o scarico acqua *water load/drain tap*
	termometro *thermometer*
	dispositivo di sfogo aria manuale *maunal air vent device*
	dispositivo di sfogo aria automatico *automatic air vent device*
FG	misuratore di portata *flow meter*
	termostato di sicurezza ad immersione *immersion safety thermostat*
	termostato di sicurezza a contatto *contact safety thermostat*

	pompa circolazione *circulation pump*
	utilizzatore: pannelli radianti, termoarredi ecc. *user: radiant panels, radiators etc.*
	filtro *filter*
	valvola a 3 vie *3-way valve*

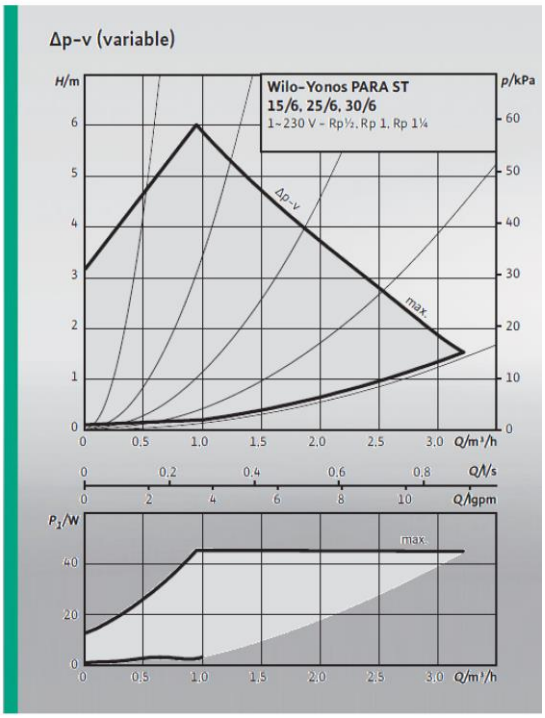
Solar pump groups use solar thermal energy and transfer it to a fluid heat carrier which then releases it to the water necessary for the system.

The groups feature a pump which circulates the fluid inside the system. All the components of the system consist of materials suitable to stand the high temperatures that the fluid may reach.

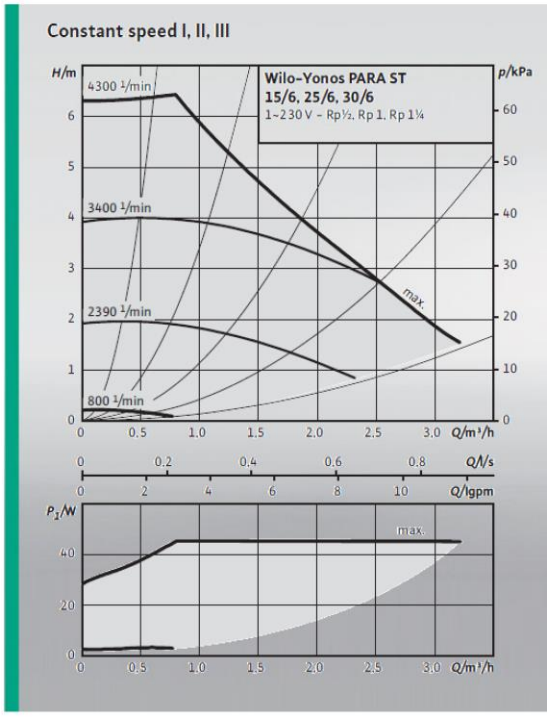
Moreover, the groups are complete with pump shut-off valves, fill/drain taps, check valve, safety valve, flow-meter and insulation. The deareator is available on model GSP1180 only.

Pump Flow Rate Diagram

Hydraulic operational area Δp-v (variable)



Hydraulic operational area Constant speed I, II, III



Item Specifications

GSP 1180

Solar pump group complete with shut-off valves with built-in thermometers, deareator, fill/drain taps, check valves on both sides, 6 bar safety valve, insulation and 0,5 - 15 l/min flow-meter. Wilo Yonos Para ST 15/6 RKC M solar pump with 130 mm interaxis. Working fluids: water and glycol solutions; max. percentage of glycol 50%. Max. working temperature 110 °C.

GSP 1182

Solar pump group complete with shut-off valves with built-in thermometers, fill/drain taps, check valves on both sides, 6 bar safety valve, insulation and 0,5 - 15 l/min flow-meter. Wilo Yonos Para ST 15/6 RKC M solar pump with 130 mm interaxis. Working fluids: water and glycol solutions; max. percentage of glycol 50%. Max. working temperature 110 °C.

Luxor S.p.A.
Sede amministrativa, stabilimento e uffici commerciali:
Administrative office, factory and commercial office:
via Madonnina, 94 – 25018 Montichiari - (BS) Italy
Tel.: 030-9961161 – Fax: 030-9961165
info@luxor.it – www.luxor.it