Regulus

www.regulus.eu

Trolley Mounted Filling Pump

Owner‘s Manual **EN**

Trolley Mounted Filling Pump

Regulus 1100W

Trolley Mounted Filling Pump

Use

Powerful filling pump for filling and air venting closed systems like solar thermal systems, underfloor- and wall heating.

Even large collector arrays can be filled with this powerful appliance.

Advantages

- powerful pump
- pump housing of stainless steel
- splashproof switch
- maintenance-free pump with a start capacitor and protection against heat overload
- transparent pressure hoses for visual check
- ball valves at the hose ends for clean and safe connection to a solar pump station
- shut-off ball valve on the tank bottom for complete emptying
- strainer to remove impurities

Technical Data

Motor	230 V / 1.1 kW
El. protection	IP44
Max. head	50 m
Max. flow rate	60 l/min
Max. pressure	5 bar
Max. suction height	9 m
Max. fluid temperature	35 °C
Power supply cable	1.5 m
Empty weight	16 kg
Tank capacity	25 l

Commissioning

The pump mounted on the trolley is not self-priming and must be filled with the working liquid first. This is reached as soon as the tank is filled. Only after that the pump may be turned on.

Maintenance

Should the filling pump stay unused for a longer time, flush it with fresh water and let dry.
Clean with soapy water from outside.

Warning!
Do not fill solar thermal systems at sunshine.

Temperature inside a solar thermal system may rise above 100 °C. Subsequent damage is not covered by warranty.

Warning, mortal danger!

It is forbidden to pump petrol, thinners, solvents or any other explosives with flash point below 50 °C.

Procedure for filling, flushing, leak test and air venting the system

The below described procedures apply when any Regulus pump station is used.

Filling

- use a trolley mounted filling pump with a solar fluid tank to fill a system (see pic.)
- connect the feed pipe to a fill valve and open the valve completely
- connect the return pipe to a discharge valve and open the valve completely
- close the integrated ball valve in the flowmeter (the slot on its adjustment screw shall be in horizontal position). Open the check valve above the pump by turning the ball valve to a 45° position (just between open and close position).
- turn on the filling pump and pour sufficient solar fluid into its tank and fill the solar system.

Flushing

- flush the solar system for at least 15 min. using the filling pump. In order to remove air from the system properly, open and close the ball valve integrated in the flowmeter occasionally (slot in a vertical position).

Air venting

- with the filling pump running, close the discharge valve and increase pressure to about 5 bar
- close the fill valve and switch off the filling pump, open the ball valve integrated in the flowmeter (slot in a vertical position), do not disconnect the filling pump's hoses!
- set the circulation pump(s) to the highest speed and remove air from the system by turning it on and off repeatedly (an air-free pump runs almost noiselessly)
- follow the pressure in the system, if it sinks, turn on the filling pump and open the filling valve until 5 bar is reached again
- repeat the procedure until the float in the flowmeter's valve stops moving and no bubbles appear in the flowmeter; then let the circulation pump run for at least 5 min.
- in case there is an automatic air vent valve(s) in the solar system, close it when air removal is finished

©2023 We reserve the right to errors, changes and improvements without prior notice.

v1.3-11/2023

REGULUS spol. s r.o.
E-mail: sales@regulus.eu
Web: www.regulus.eu