

OEG solar filling station and flushing centre



Operation instructions

Application:

The OEG solar filling station is your compact tool for commissioning and maintenance of solar thermal systems. It is used for filling, flushing and venting solar and geothermal systems.

Technical data:

Mains voltage	220-240 V
Frequency	50 Hz
Maximum power consumption	860 W
Maximum permissible medium temperature	60 °C
Permissible medium	water, heat transfer medium
Maximum operating pressure	5.4 bar
Maximum flow rate	3 m ³ /h
Connection return hose / pressure hose	¾" / ¾"
Tank capacity	30 l
Motor protection class	IP 44
Dimensions (H x W x D)	9,800 x 500 x 460 mm
Total weight (empty)	25 kg

Transport and packaging:

- check the solar filling station after the delivery for completeness and damages
- report transport damages immediately
- dispose of packing material according to local regulations

Commissioning:

1. Connect the pressure and the return hose to the fill and drain valves
2. Fill the tank and open the ball valves
3. Plug in the connecting cable of the pump motor in the socket outlet
4. Switch on the pump
5. Open the tank lid so that the air can circulate
Caution: Watch liquid level in the tank and if necessary, refill heat transfer medium so that no air enters the solar circuit
6. Flush the solar circuit with the medium. Check at the return hose if there are any air bubbles left in the liquid. Continue flushing until there is no air left in the liquid
7. Switch off the pump after the filling and flushing process, close the ball valves of the flow and return of the fill and drain valve at the solar station

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Safety and maintenance:

- When commissioning the filling station, the data and data safety sheets of the heat transfer media and the operating instructions of the connected components have to be consulted
- The manufacturer is not liable for damages which are caused by not following the operating instructions.
- Only perform work on the unit when the pump is not in operation and when the drive is disconnected from the mains supply
- Do not handle liquids with a flashpoint below 55 °C. Do not handle petrol or solvents
- The solar system is only to be filled in cold condition. If required, cover the solar collectors
- Intake and pressure hose must not be isolated for longer than 60 seconds as otherwise the pump will overheat.
- Tighten hose fittings properly
- Do not allow the pump to run dry longer than 60 seconds
- Collect escaping fluid and dispose of them in accordance with the local regulations
- The solar filling station is to be situated on level and firm ground
- Clean the pump if it is not used for a longer period in order to avoid sticking of the impeller
- Store the pump frost-free
- On the suction side of the pump a strainer is installed to filter the dirt. This strainer should be cleaned when dirt deposits can be seen on the sieve through the window. Screw off the filter casing and remove the filter sieve; clean both with rinsing water or compressed air

Malfunctions:

Malfunctions	Possible reason	remedy
Pump will not prime	Suction hose between canister And pump not connected correctly	Seal the connection or line
	Tank empty	Fill tank
	Filter clogged	Clean filter
	Check valve stuck	Loosen the check valve
Pump does not build up pressure	Clogged pressure hose	Clean pressure hose
	Closed shut-off valve	Open shut-off valve
	Filter clogged	Clean filter