

New
ZUWA Heat Pump Station

*Heat Pumps and Ground Collectors – Fast and Efficient Filling
 without Air Enclosures*

All in one step: fill with heat transfer medium, flush and vent heat pumps with the ZUWA Heat Pump Station. Reduce process time, reduce costs.

Combined with supplementary equipment the approved ZUWA Solarcheck Mobile can also be used for the installation of Heat Pumps.

The equipment was developed and tested in collaboration with a manufacturer of ground collectors. Ground collectors have a much higher capacity than solar collectors. Therefore the mayor task was to charge large amounts of heat transfer medium in a minimum space of time. The same device can be used for ground and solar collectors.



■ **Equipment**

- ▶ powerful ZUWA Impeller Pump
- ▶ sturdy cart with canister
- ▶ pneumatic wheels
- ▶ 2 x 3 m filling and return hose
- ▶ multifunctional valve between internal canister and mixing tanks

optional:

- ▶ two 150 litre PE tanks with handles and stop valves for the mixing of the heat transfer medium
- ▶ 6 m suction hose plus hose junction to connect with the mixing tanks

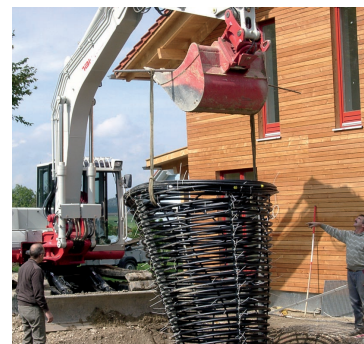
Mixing heat transfer medium on site

The two 150 litre tanks are used to mix water and glycol to get heat transfer medium.

The liquid circulates between the tanks and the ZUWA filling station until it is completely mixed. The filling hose is connected to the medium distributor and the liquid is pumped directly from the mixing tank to the ground collector. **The high delivery volume prevents air enclosures.**

Efficient flushing and venting

As soon as the system is filled it takes one move to change the flow direction in the supply line of the pump: The multifunctional valve closes the connection to the mixing tanks and opens the line to the canister of the filling station. Now the heat transfer liquid circulates between collector and filling station. Enclosed air is removed through the open canister.



Technical Data

■ Pump

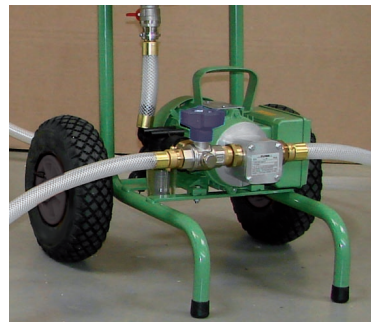
Pump	dry self priming ZUWA Impeller Pump with Perbunan impeller (max. dry run time 1 minute)
Flow rate max.	60 L/min
Pressure max.	4 bar
Temperature max.	60°C continuous duty
Motor	230 V with thermal motor protection cable with plug, 2 metres
Diameter hoses	$\frac{3}{4}$ " / $\frac{3}{4}$ " [DN 19]

■ Cart

Material	welded, sturdy frame
Dimensions	h x w x l = 1000 x 495 x 535 mm (without hoses)
Weight	28 kg (cart with pump, hoses and empty canister)
Canister	30 litres, UV resistant PE canister with large lid, level meter and stop valve



hose junction



pump and multifunctional valve

■ Optional accessories

Mixing tanks	capacity 2 x 150 Litres, PE tanks with handles h x w x l = 660 x 740 x 470 mm
Hoses	2 x 3 m filling and return hose plus 6 m hose junction, textile-reinforced transparent hose, temperature resistant up to 60°C



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