3 Technical information for the zeoTHERM zeolite gas-fired heat pump solar pump unit, 2-line

Special features

- 3-stage circulation pump
- 2 ball cocks with 2 separately arranged non-return valves
- 2x1/2" combined filling and draining taps
- 2 thermometers
- 1 pressure gauge
- Flow-rate display with flow-rate limiter for 61/min
- Expansion relief valve, 6 bar
- Corrugated hose for connecting the diaphragm expansion vessel, with wall bracket and screw connection

Potential applications

The Vaillant solar pump unit (order no. 0020129141) is designed for volume flow rates of up to 61/min. The entirely pre-assembled and pressure-tested unit simplifies and speeds up system installation and start-up.

Note:

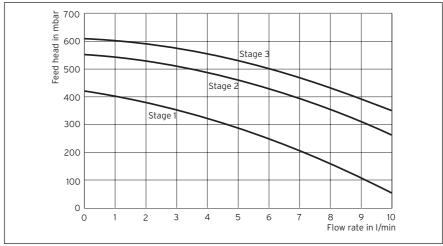
This diagram states the residual feed head for the entire solar pump unit. Here, the pressure losses of the flow rate limiter and the pipes have already been deducted from the pump characteristic curve.

Note:

In order to ensure there is no incorrect circulation in the solar circuit, install the supplied non-return valve (see Chapter 4 Planning, System hydraulics, item 30a).

© Vaillant

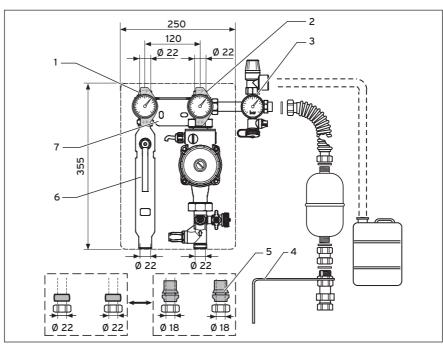
Solar pump unit



Pump diagram for 61/min solar pump unit

Key:

- Supply pipe with stop cock, nonreturn valve and temperature indicator
- 2 Return pipe with non-return valve, flow-rate limiter with combined filling and draining tap, circulation pump and temperature indicator
- 3 Expansion relief valve with pressure gauge, filling cock and corrugated hose (DN 16) incl. wall bracket for solar expansion vessel
- 4 Wall bracket for expansion vessel with screw connection
- 5 Crimp connection, 18 mm or 22 mm
- 6 Air pot
- 7 Mounting rail



Dimensions and structure of the solar pump unit

PLI zeoTHERM 37

3 Technical information for the zeoTHERM zeolite gas-fired heat pump Solar unit

Accessories	Description	Order no.
	Set of flexible connection hoses for VTK and VFK collector (2x, DN 16 x 1 m, G 3/4") thermally insulated, of stainless steel	302 444
	Set of rails for on-roof/flat-roof installation for auroTHERM exclusiv VTK 1140/2 Aluminium	0020076781
	Set of roof brackets, type P (Frankfurter) for auroTHERM plus /auroTHERM (collectors side-by-side), on-roof installation consisting of: 4 roof brackets incl. retainers, black anodised Note: Set of rails (on-roof installation) is essential	0020067273
	Open-air/flat-roof installation set for auroTHERM exclusiv consisting of: 1 frame for 30°, 45° and 60° inclination, pre-assembled incl. brackets, aluminium, rail joints. Note: 2 supports are required for the first collector and 1 support for each additional collector in an array. The support is supplied without attaching anchor bolts for the roof. For direct roof attachment, accessory part no. 0020146025 can also be ordered. Set of rails is essential	0020137776
	Loading plates for mounting frames for open-air/flat-roof installation (2x) Allows positioning without damaging the roof skin. Note: Information regarding ballast must be taken from the auroTHERM planning information or installation manual.	0020137768
	Anchor bolts for open-air/flat-roof mounting frame (2x) consisting of: 2x anchor bolts incl. M10 nuts Note: The set can be used for a support with 2 fastening points.	0020146025
	Connection set for VTK/2 (basic module) for on-roof/open-air installation consisting of: - 1 x connection nipple - 2 x thermal insulation - 1 x instructions for collector array, order 1 x per row for flat-sealing assembly	0020143704
	VTK/2 connection set (extension module) for additional collector, side-by-side for on-roof installation and open-air positioning consisting of: - 1 x connection nipple - 1 x thermal insulation - 1 x header casing cover panel - 2 x rail joints	0020076779
	Set of rails for on-roof installation (vertical collector) for VFK (2x) Aluminium, black anodised	0020059899
	Set of rails for on-roof installation (horizontal collector) for VFK (2x) Aluminium, black anodised	0020059898

3 Technical information for the zeoTHERM zeolite gas-fired heat pump Solar unit

Accessories	Description	Order no.
	Basic module, in-roof flashing (vertical collector, side-by-side) For 2 VFK flat collectors Colour: anthracite Note: No connection sets	0020055196
	Basic module, in-roof flashing (horizontal collector, side-by-side) For 2 VFK 150 flat collectors Note: No connection sets	0020055197
	Expansion module, in-roof flashing (vertical collector, side-by-side) From the 3rd VFK collector Note: No hydraulic basic and expansion set	0020055198
	Expansion module, in-roof flashing (horizontal collector, side-by-side) From the 3rd auroTHERM VFK collector Note: No hydraulic basic and expansion set	0020055199
	Open-air/flat-roof installation set (vertical collector) for VFK consisting of: 1 frame for 30°, 45° and 60° inclination, pre-assembled incl. brackets, aluminium, rail joints Note: 2 supports are required for the first collector and 1 support for each additional collector in an array. The support is supplied without attaching anchor bolts for the roof. For direct roof attachment, accessory part no. 0020146025 can also be ordered. Set of rails is essential	0020137774
	Open-air/flat-roof installation set (horizontal collector) for VFK consisting of: 1 frame for 30°, 45° and 60° inclination, pre-assembled incl. brackets, aluminium, rail joints Note: 2 supports are required for the first collector and 1 support for each additional collector in an array. The support is supplied without attaching anchor bolts for the roof. For direct roof attachment, accessory part no. 0020146025 can also be ordered. Set of rails is essential	0020137775
	Set of rails for flat-roof installation (vertical collector) for VFK (2x) Aluminium	0020092558
	Set of rails for flat-roof installation (horizontal collector) for VFK (2x) Aluminium	0020092559
	Solar expansion vessel plus (35 I) incl. in-line vessel for auro- THERM VTK Solar expansion vessel combined with in-line vessel for solar plants up to 10 bar. 3-chamber vessel up to 100 °C. Solar expansion vessel capacity: 35 I In-line vessel capacity: 12 I	0020065939

PLI zeoTHERM 39

3 Technical information for the zeoTHERM zeolite gas-fired heat pump Solar unit

Accessories	Description	Order no.
	Solar expansion vessel plus (25 litres) incl. in-line vessel for auroTHERM VFK Solar expansion vessel combined with in-line vessel for solar plants up to 10 bar, 3-chamber vessel up to 100 °C. 25 I capacity solar expansion vessel 10 I capacity in-line vessel	0020059914
	Solar fluid, ready mixed, 20 I can High-performance solar fluid (ready mixed) with frost protection for temperatures down to -35 °C. Container can be re-used as a col- lecting container below the expansion relief valve, contents 20 I. Note: Mixing of solar fluids from different manufacturers is not permitted. Only use Vaillant solar fluid.	302 498
	Automatic air separator system DN 16, max. operating pressure 10 bar	302 418
Svallard	Solar pump unit (solar pipe group) - 6 I/min - 3-stage circulation pump - 2 ball cocks with integral non-return valve - 2 combined filling and draining taps, 1/2" - 2 thermometers - 1 pressure gauge - 1 non-return valve - 1- air pot - Flow rate display with flow rate limiter - Expansion relief valve, 6 bar - Corrugated hose for connecting the diaphragm expansion vessel, with wall bracket and screw connection	0020129141
B	VR 10 standard sensor	306 787
	VR 11 collector sensor as accessories for auroMATIC for connection of a second collector array or solid fuel boiler	306 788
	External non-return valve, solar pump unit	0020093134