



Features and functionality

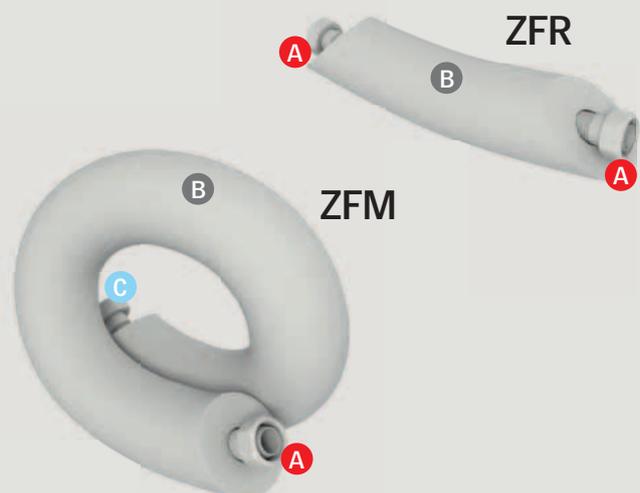
VELUX solar collectors are delivered with insulated flex tubes that connect the solar collectors and the entire solar collector group to the heating system.

The short flex tubes are tailored in length to fit and create a serial connection between the solar collectors. The tubes are fitted with gasket-free conic connections, which obviates manually applied gaskets and loose fittings. Everything can be put together using a 32 mm wrench.

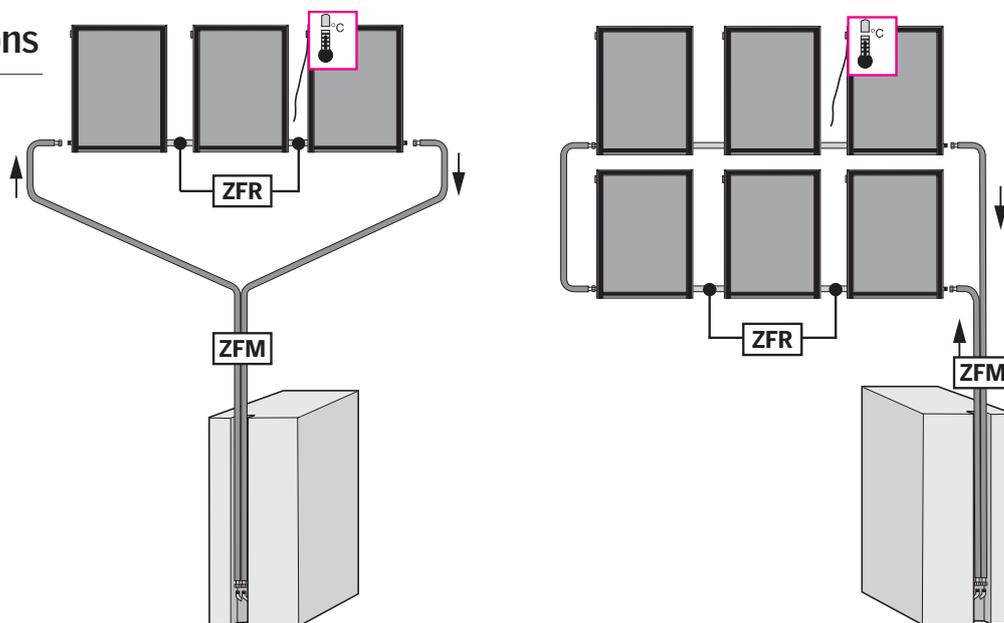
The long flex tubes go from the solar collector group to the heating system and can easily be cut to match the required length. Red and blue paper markings make it easy to identify the hot forward flow and the cold return flow.

Benefits on installation and operation

- A** Gasket-free conic connections ensure a tight and durable assembly. Rather than sealing and fitting the connection by hand, you get to assemble the system fast and easy.
- B** The flex tubes are tailored to fit and pre-insulated and are therefore quickly prepared for installation.
- C** The flex tubes for connecting to the heating system come with an extra lock ring, nut and gasket. The extra parts make it easy to cut and adapt the tubes and prepare them to be connected to the hot water tank.



Technical specifications

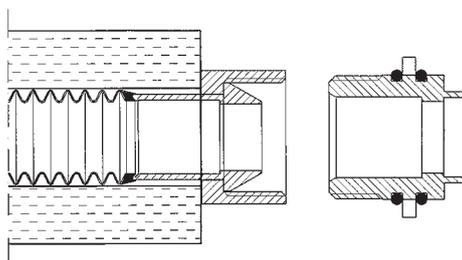


Max operating pressure (bar)	7.00
External diameter, flex tube (mm)	Ø 21.80
Internal diameter, flex tube (mm)	Ø 16.30
External diameter, insulation (mm)	Ø 47.80
Liquid volume (l/m)	0.24
Corresponding plain tube	Ø 15 × 1

Material, square tube	Stainless steel 1,4571/AISI 316 TI
Material, insulation (PVC free & UV resistant)	Foam EPDM
Temperature limitation for insulation (°C)	+175 to -40
Temperature insulation value λ (w/mK)	0,040
Steam diffusion impermeability μ	> 3000

Connector fittings for solar collectors

For connection of the flex tube with the solar collector, VELUX has developed a special cone fitting that ensures a tight and secure connection without the use of sealing rings that may leak over time, due to temperature stress at the collector. The screw thread of the coupling is a standard $\frac{3}{4}$ " pipe thread.



Connection to tank (Applies to ZFM only)

For the connection of ZFM to a tank, VELUX has chosen a fitting system that makes it possible to shorten the flex tube to the desired length. The fitting system consists of a coupling, a cutting ring and a sealing ring. Shortening can be done with a standard pipe cutter. The screw thread of the coupling is a standard $\frac{3}{4}$ " pipe thread.

