



Great heat
exchanger
performance



FLEXIBLE STAINLESS STEEL UNITS FOR HEAT EXCHANGERS

Applications:

In storage tanks, heat exchangers for heating, drinking water or recirculating water through, for example, solar energy systems.

Special Features:

- The flexible metal hose used can be optimised for each specific application both in terms of diameter and in the type & shape of the hose corrugations.
- The design versatility of the hose's helix will always permit optimal use of available space.
- Meets the requirements for drinking water with pressure pulsation > 100,000 stress cycles with DN 25.

Advantages:

- Up to 50% higher efficiency due to the corrugated profile and thus larger surface area of the flexible metal hose.
- Very compact form with high heat exchange performance.
- No calcification. The flow of the medium is constantly excited by the corrugated profile thus creating a self-cleaning effect that prevents deposits of lime, etc.

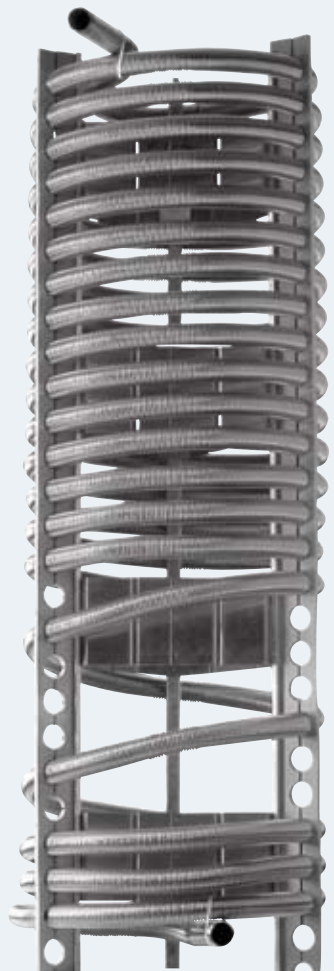
Technical Features:

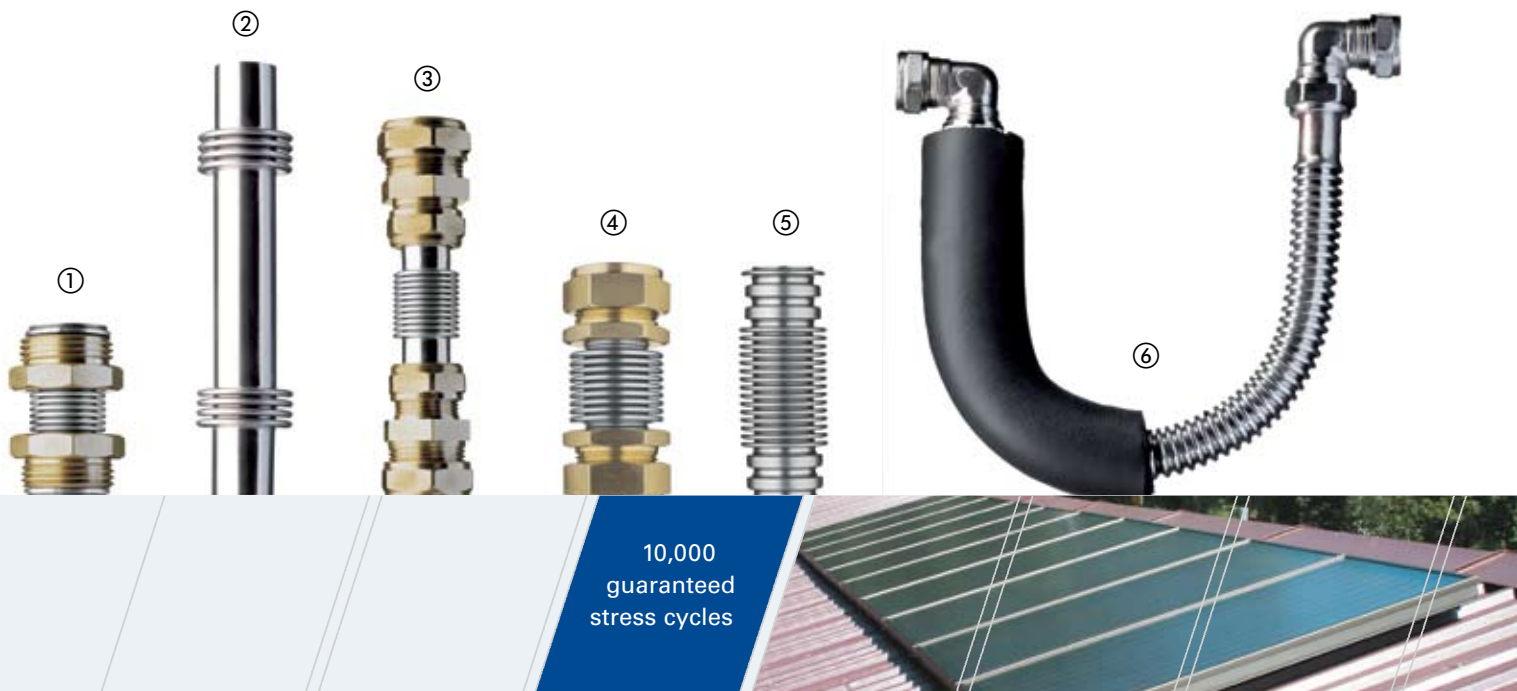
- Corrugated design developed for use with domestic storage tanks.
- At least a 100% increase in surface area when compared to a smooth pipe (typical factor between 2 & 3).

- Turbulent and therefore uniform flow.
- High level of product integrity & safety through microplasma welding process.
- No weld discoloration inside or outside (no corrosion).
- Lower wall thickness, for optimal heat transfer.
- Diameters: DN 25, 32 and 40.
- Nominal lengths: between 20 m and 50 m.
- Test pressure: 8 -10 bar.

Versions:

- Version I:
Hose: Hydra stainless steel hose of 1.4404
Couplings: stainless steel union of 1.4404/1.4571 attached by welding.
- Version II:
Supplied as self-supporting helix (hose as version 1) featuring a versatile mounting system that can be adapted to all tank designs and those of other manufacturers. All connections are fixed in the correct position according to the manufacturer's instructions.





10,000
guaranteed
stress cycles

Applications:

Flexible connections between the individual solar panels and the general solar installation pipe work.

Types:

Different components are used depending on the application and nature of the solar installation.

Technical Features:

- Temperature range -20 °C to +200 °C
- Compensation of movement in all directions (axial, lateral and angular)
- Delivered complete ready for immediate installation
- Guaranteed endurance (min. 10,000 stress cycles)
- Very simple assembly: quick and with no need for special operator training
- Reduced number / size of joints
- Connections available to suit standard copper tubes
- Suitable for any application (pressurised and un-pressurised systems, major installations, individual panels...)
- No Soldered or brazed joint required between flexible component and copper tube.

① **Serial Production Bellows**

Joints: male nut, maximum pressure 10 bar, particularly compact and cost-effective design, collectors can be pushed together to a minimum

② **Serial Production Bellows**

Joints: O-ring seal between bellows and collector movement in all directions ± 2.5 mm 10,000 movements guaranteed movement in all directions ± 1.5 mm 100,000 movements guaranteed large lateral movement possible

③ **Serial Production Bellows**

Joints: compression fitting for copper tube, maximum pressure 10 bar, collectors can be pushed together to a minimum, high buckle resistance, reduction number / size of joints, compensation of axial, lateral and angular movement can be guaranteed.

④ **New Product Development**

Bellows with integrated clamping connection, length can be scaled to specific requirements, maximum pressure 10 bar, metallic sealing, reduction in number of sealing points, Plug & Flow design.

⑤ **New Product Development**

Connections: O-ring sealing between bellows and collector, reduction in number of sealing points, compensation of axial, lateral and angular movement can be guaranteed, Plug & Flow design.

⑥ **Omega Elbow**

Collector connection for major installations, hose with soldered pipe stubs and compression fittings, insulation over the entire length, compensation of large assembly inaccuracies or movements possible.