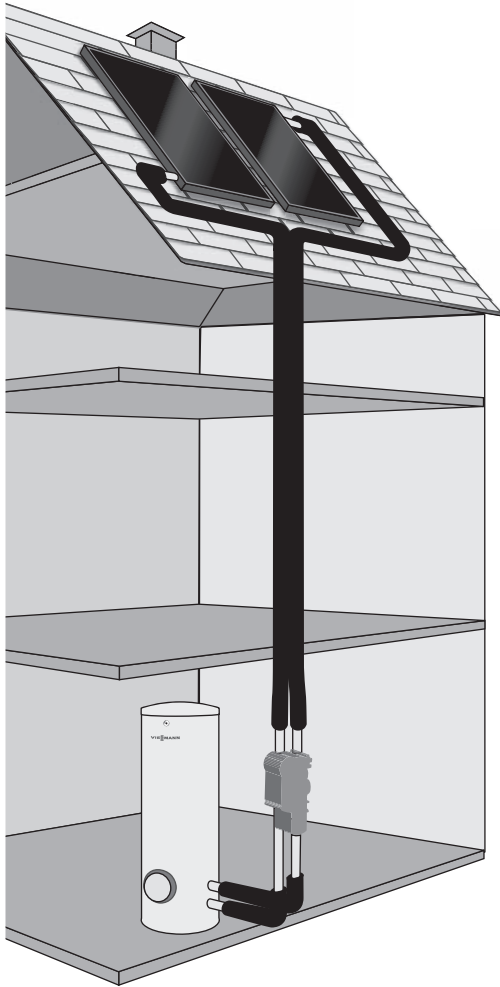
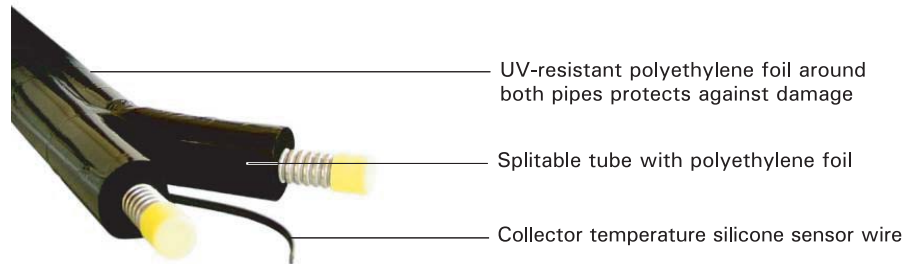


# Flexible Insulated Piping Systems for Solar Applications



Save valuable time during installation with our new flexible insulated piping system for solar thermal installations!

- All-in-one splittable twin-tube system c/w insulation and sensor wire
- Available in corrugated  $\frac{3}{4}$ " stainless steel with isiclick<sup>®</sup> quick-connect fittings
- Available in  $\frac{1}{2}$ " copper piping for use with standard NPT fittings
- Excellent R-value insulation with low thermal losses when compared to conventional systems
- Fast and easy installation saves time and reduces cost of installation



$\frac{3}{4}$ " Corrugated stainless steel option



$\frac{1}{2}$ " Copper option

## Technical Data

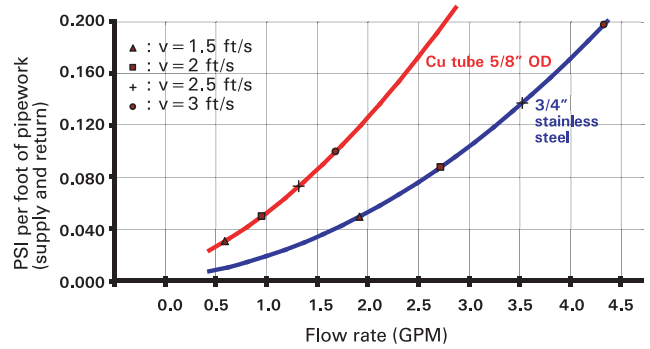
Tubing type	Material	Coil length	Fittings	Bending radius	R-value	Max. fluid temp.	Max. working pressure	Liquid content
$\frac{3}{4}$ " Nominal Stainless Steel	Aisi 316L corrugated	80' / 24.4 m	isiclick <sup>®</sup> fitting system	2"	6.3	347°F / 175°C	159 psig	0.027 USG / ft. 0.334 ltr / m
$\frac{1}{2}$ " Soft Copper (5/8" OD)	Soft type L copper tube	80' / 24.4 m	Standard NPT	8"	6.3	347°F / 175°C	348 psig	0.01210 USG / ft. 0.150 ltr / m

## Sizing

Tubing type	Max. number of Vitosol-F collectors	Max. ft <sup>2</sup> / m <sup>2</sup> of Vitosol 300-T collectors*	Max. piping length (one way)
¾" Corrugated Stainless Steel	9	226 ft <sup>2</sup> / 21 m <sup>2</sup>	33 ft / 10 m
	8	194 ft <sup>2</sup> / 18 m <sup>2</sup>	49 ft / 15 m
	7	161 ft <sup>2</sup> / 15 m <sup>2</sup>	80 ft / 25 m
½" Soft Copper	5	129 ft <sup>2</sup> / 12 m <sup>2</sup>	33 ft / 10 m
	4	97 ft <sup>2</sup> / 9 m <sup>2</sup>	49 ft / 15 m
	3	65 ft <sup>2</sup> / 6 m <sup>2</sup>	80 ft / 25 m

Based on standard flow rate of 40 ltr / m<sup>2</sup>h (= 0.4 GPM / flat collector, 0.8 GPM / 3m<sup>2</sup> tube collector). Total pressure drop for all components (collector, heat exchanger, valves, etc.) must be taken into account for pump sizing.

\*Absorber area.



## Quick-Connect Fitting System (available with corrugated stainless steel option)

- Fastest connection system available
- Simple one-step design
- No soldering or special tools required
- Single unit, no small parts to lose
- No gasket or sealing material required
- Over tightening not possible
- No wasted product
- Installation fittings kit available for fast, easy connection to Vitosol collectors and Solar-Divicon pumping station



Push on



Tighten



Done



22 mm OD stub adaptor

isiclick® connection to collector



¾" BSPT adaptor

isiclick® connection to pumping station

## Insulation

- Special twin-tube design ensures highest insulation rates of any insulated piping system available\*
- Additional heat loss reduction with single tube surfaces meeting on the flat sides
- Lower heat loss when compared to twin-tube products composed of two single tubes
- Tubes come individually wrapped in foil for extra insulation and protection
- Compact, space-saving design. Requires only 1/3 of space compared to conventional 2 pipe systems

\*Only 41 Btu/h heat loss. (Heat loss for ½" copper tubing for delta T of 72°F to the surrounding air)



Temperature profile

## Pipe Support Kit

A pipe support kit is available for the copper tube and the corrugated stainless steel system.



Set of 4 pipe supports with fasteners

