

flexible hoses

stainless steel



altecnic

flexible stainless steel hose for solar applications

Introduction

Altecnic solar hose is available without insulation and pre-insulated in single and double pipes for solar hot water heating systems used to connect the solar collector with the hot water storage tank.

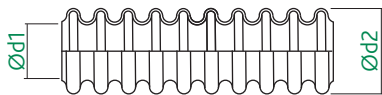
The pre-insulated two pipe system of two flexible stainless steel pipes enclosed in two EPDM close cell insulation tubes and the integral sensor cable saves installation time and expense.

The solar hose is available in a 25 m continuous length which can be customised into cut lengths and supplied with fixing nuts and sealing washers.

Features

- External PE cover protects against UV radiation and mechanical damage.
- Easy to separate without damaging the tubes.
- Identification on end caps to indicate flow and return.
- Can be joined to make longer lengths if necessary.

Dimensions



DN	Nut	d1	d2	Tolerance d1/d2	Bend Radius	Max Pressure	kg/m
mm		mm	mm	mm	mm	bar	
12	1/2"	12.4	16.5	±0.3	20	14	0.088
16	5/8"	16.3	21.4	±0.3	24	13	0.143
20	3/4"	20.4	26.7	±0.3	30	10	0.194
25	1"	25.4	31.9	±0.3	35	8	0.25

Insulation

- EPDM.
- Black PE film for mechanical and UV protection.
- Integral 2 core sensor cable.
- Twin tubes can be split without exposing the installation.

Technical Specification

Cell structure	Closed Cell EPDM
Colour	Black
Max. temperature	150°C (intermittent 175°C)
Min. temperature	-50°C
Thermal conductivity at 0°C	0.038W/(m-K)
Thermal conductivity at 40°C	0.042W/(m-K)
Water vapour barrier	Built in
Water vapour resistance	$\mu \geq 4,500$
Euroclass	E
Reaction to fire	Self extinguishing, does not drip
Environmental	OWP zero, GWP zero, cadmium free
Health	Dust & fibre free, formaldehyde free
Other attributes	PH neutral

E & O.E

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Single 316 Stainless Flexible Hose - Uninsulated



Size	10m	15m	25m	50m	Cut to Length
DN12	✓	✓	✓	✓	✓
DN15	✓	✓	✓	✓	✓
DN20	✓	✓	✓	✓	✓
DN25	✓	✓	✓	✓	✓

Single with PE Insulation - UV Protection



Size	10m	15m	25m	50m	Cut to Length
DN12	✓	✓	✓	✓	✓
DN15	✓	✓	✓	✓	✓
DN20	✓	✓	✓	✓	✓

Twin with Integral Sensor Cable, PE Insulation - UV Protection



Size	10m	15m	25m	50m	Cut to Length
DN12	✓	✓	✓	✓	✓
DN15	✓	✓	✓	✓	✓
DN20	✓	✓	✓	✓	✓

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