NANO PIPE SOLAR

Nanotechnological solar bi-pipe intended for the connection between the solar panel and the hot water storage tank

Product informations

Solar thermal is a technology that has been used for decades for the production of domestic hot water and for heating purposes.

In industrialized countries, solar thermal energy is exploited in three main fields:

- *flat and vacuum collectors for the production of domestic hot water, heating and pre-heating of process water*
- *flat air collectors*
- *concentrators for generating electricity and process heat*

Low-temperature solar thermal consists of three basic technologies:

- **plastic panels**
- **glazed flat-plate collectors**
- **vacuum collectors**

Plastic panels are characterized by lower costs and is suitable for summer use; the water to be heated passes directly through the panel, avoiding the costs and system complications of the exchanger. **Flat plate collectors** are the most widespread and most adaptable technology, from a construction point of view, various solutions are more available which are distinguished by the selectivity of the absorber plate, by the materials (copper, stainless steel and anodized aluminium) and by being suitable for use in forced or natural circulation systems. **Vacuum collectors** have the best performance in all seasons (about a 15-20% increase in energy production), thanks to the substantial cancellation of losses due to convection. The higher cost compared to the flat solution, however, recommends its adoption only in special cases (higher water temperatures and/or harsh climate).

TECNOGAS
I percorsi della tecnologia.

Via Marco Polo 33
35020 Albignasego
Padova – Italy

P.IVA: 03859580288
Tel: +39 049 8625910
Mail: info@tecnogas.net

NANO PIPE SOLAR, the nanotechnological solar bi-pipe.

Product features

- it uses pyrogell insulation, a nanomaterial with very low thermal conductivity and high resistance and lightness
- connection cable to the temperature sensor inserted in the sheath
- flexible and compact
- resistant to pressure and heat
- small footprint in the insulation diameter (5 mm)
- resistant to crushing and trampling
- resistant to external and climatic agents such as UV rays, insects, pecking and strong pressure
- *the tube comes with the probe*

REDUCED SIZE

The much thinner thickness compared to traditional insulators (3/4 times) makes it unique in its kind; thanks to this feature, concealed floor installation is possible. The predisposition for precision cutting to exact length and the already set curve make it easy to handle for transport, storage (dimensions almost halved) and sale, thus significantly reducing management costs! The heat-sealed fins that join the two paired tubes are prepared for separation with a simple cutter cut, without unfastening! It does not require fixing brackets.

Brass fittings to be used for connection to the *SOLAR NANO PIPE* free from plastic/rubber details.

Technical Features

THERMAL CONDUCTIVITY	0,014 W/M·K
CONSTANT TEMPERATURE	- 200°C ÷ + 200°C - PEAK + 600°C

TECNOGAS
I percorsi della tecnologia.

Via Marco Polo 33
35020 Albignasego
Padova – Italy

P.IVA: 03859580288
Tel: +39 049 8625910
Mail: info@tecnogas.net

INSULATION	PYROGELL, 5 MM THICKNESS
PIPE DIAMETERS	Ø 16 - 20 - 25 MM
PIPE MATERIAL	CORRUGATED STAINLESS STEEL AISI 316 L
LENGTHS AVAILABLE	10 - 15 - 25 - 50 - 100 - 150 M

SKU	MODEL	PRICE
00000071005	BLACK NANOPIPESOLAR - Ø 16 - L. 50 M	€2396.95 VAT EXCLUDED
00000071007	BLACK NANOPIPESOLAR - Ø 16 - L. 100 M	€4793.9 VAT EXCLUDED
00000071009	BLACK NANOPIPESOLAR - Ø 16 - L. 150 M	€7192.4 VAT EXCLUDED
00000071012	BROWN NANOPIPESOLAR - Ø 16 - L. 50 M	€2396.95 VAT EXCLUDED
00000071014	BROWN NANOPIPESOLAR - Ø 16 - L. 100 M	€4793.9 VAT EXCLUDED
00000071016	BROWN NANOPIPESOLAR - Ø 16 - L. 150 M	€7190.85 VAT EXCLUDED
00000071025	NANOPIPESOLAR NERO - Ø 20 - L. 25 M	€1451.35 VAT EXCLUDED
00000071027	BLACK NANOPIPESOLAR - Ø 20 - L. 50 M	€2902.65 VAT EXCLUDED
00000071029	BLACK NANOPIPESOLAR - Ø 20 - L. 100 M	€5805.25 VAT EXCLUDED
00000071032	BROWN NANOPIPESOLAR - Ø 20 - L. 25 M	€1451.35 VAT EXCLUDED
00000071034	BROWN NANOPIPESOLAR - Ø 20 - L. 50 M	€2902.65 VAT EXCLUDED
00000071036	BROWN NANOPIPESOLAR - Ø 20 - L. 100 M	€5805.25 VAT EXCLUDED
00000071045	BLACK NANOPIPESOLAR - Ø 25 - L. 10 M	ON REQUEST
00000071047	BLACK NANOPIPESOLAR - Ø 25 - L. 15 M	ON REQUEST
00000071049	BLACK NANOPIPESOLAR - Ø 25 - L. 25 M	€1729.5 VAT EXCLUDED

TECNOGAS
I percorsi della tecnologia.
Via Marco Polo 33
35020 Albignasego
Padova – Italy
P.IVA: 03859580288
Tel: +39 049 8625910
Mail: info@tecnogas.net

Nano Pipe Solar

SKU	MODEL	PRICE
00000071052	BROWN NANOPIPESOLAR - Ø 25 - L. 10 M	ON REQUEST
00000071054	BROWN NANOPIPESOLAR - Ø 25 - L. 15 M	ON REQUEST
00000071056	BLACK NANOPIPESOLAR - Ø 25 - L. 25 M	€1795.5 VAT EXCLUDED
00000071065	FITTING FOR NANOPIPESOLAR - Ø 16 X 3/4" M	€15.85 VAT EXCLUDED
00000071066	FITTING FOR NANOPIPESOLAR - Ø 16 X 3/4" F	€15.35 VAT EXCLUDED
00000071067	FITTING FOR NANOPIPESOLAR - Ø 16 X Ø 16	€29.6 VAT EXCLUDED
00000071075	FITTING FOR NANOPIPESOLAR - Ø 20 X 1" M	€24.4 VAT EXCLUDED
00000071076	FITTING FOR NANOPIPESOLAR - Ø 20 X 1" F	€29.75 VAT EXCLUDED
00000071077	FITTING FOR NANOPIPESOLAR - Ø 20 X Ø 20	€54.0 VAT EXCLUDED
00000071085	FITTING FOR NANOPIPESOLAR - Ø 25 X 1" 1/4 M	€66.7 VAT EXCLUDED
00000071086	FITTING FOR NANOPIPESOLAR - Ø 25 X 1" 1/4 F	€68.4 VAT EXCLUDED
00000071087	FITTING FOR NANOPIPESOLAR - Ø 25 X Ø 25	€89.45 VAT EXCLUDED
00000071088	TERMINAL SLEEVE FOR NANOPIPESOLAR - Ø 16	€0.9 VAT EXCLUDED
00000071089	TERMINAL SLEEVE FOR NANOPIPESOLAR - Ø 20	€1.2 VAT EXCLUDED
00000071090	TERMINAL SLEEVE FOR NANOPIPESOLAR - Ø 25	€1.3 VAT EXCLUDED





Via Marco Polo 33
35020 Albignasego
Padova – Italy

P.IVA: 03859580288
Tel: +39 049 8625910
Mail: info@tecnogas.net