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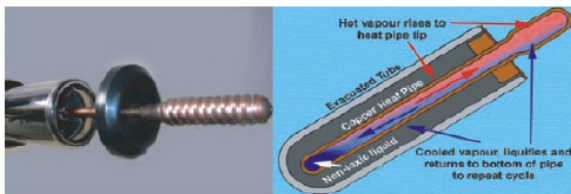


WIDEX Solar Water Heater

SOLAR COLLECTOR Heat pipe series

The heat pipe series solar collector are always connected with existing heating supply device. The selective coating on the inner cover of the evacuated tubes converts solar energy into heat energy and transfers heat to the heat pipes by aluminium fins. The liquid in the heat pipe changes into vapour which rises to the condenser. The heat then passes through the heat exchanger and the vapour becomes liquid, returning to the base of the heat pipe. The heat conducts to the heat transfer liquid (anti-freezing liquid or water) via a copper pipe. This transference of heat into the liquid creates a continuous circulation as long as the collector is heated by the sun.

Structure of heat pipe with glass tube:



It has the following advantages:

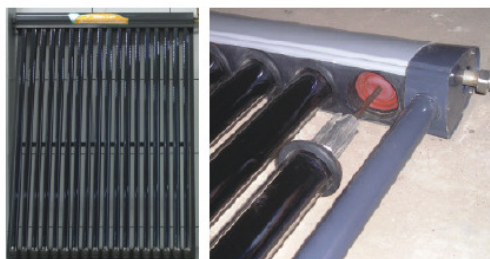
Work under high pressure: Can operate with water pressure up to 0.6Mpa. It can be installed at any position with high pressure, large flow rate, comfortable bathing. There is no water in the tubes, so there is no fouling no breaking and can safely work under very low temperature.

Heat pipe technology: Heat pipe technology make collector can work under small temperature, quick heat transference and high efficiency.

Optimized figure design: Good industrial design and good man/machine interface consideration.

Integrated with buildings: Collectors and storage separated, make solar heaters and buildings combined perfectly.

Can be combined with existing energy source .



heat pipe solar collectors have passed Solar Keymark test and reached EN12975 standard .



Registration NO:011-7S122R

Technical Data for Heat Pipe Collector

Collector	Type name:	HRJ 12/1.8	
	Flat plate/evacuated/subatmospheric	Evacuated	
	Gross area:	2.320 m ²	
	Aperture area:	1,133 m ²	
	Absorber area:	0.970 m ²	
	Weight:	47,5 kg	
	Fluid content:	1.37 kg	
	Number of covers:	1	
	Materials of cover	Borosilicate glass	
	Thickness of cover :	1,8 mm	
Absorber	Number of tubes or channels :	12	
	Tube diameters or channel dimensions:	φ 58 mm	
	Heat transfer medium:water/oil/other	Water-Glycol	
	Materials:	Glass	
	Surface treatment:	Graded AlN/SS -AlN/Cu on glass	
	Construction type:	Evacuated double glass tube, Heat-conducting metal sheet, Heat pipe Cu	
	Dimensions:	Diameter: φ 47 mm length:1.724m	
	Thermal insulator and casing	Thermal insulation thickness:	Average 20 mm
		Insulation material:	Polyurethane + Glass wool
		Gross dimensions:	1.990 m * 1.164 m
Aperture dimensions:		12 * 0.0544 m * 1.735 m	
Sealing material:		Silicon rubber	
Limitations:	Maximum operation temperature:	250 °C	
	Maximum operation pressure:	6 bar	
	Inner tank material	SUS316L	
	Inlet/outlet connections	G 1/2	
Whole dimention	1990 × 1217 × 134mm		