

HEAT PIPE COLLECTOR

Our Heat Pipe Collector uses the same highly efficient double wall vacuum tube and multi coated absorber as the pUre collector; giving the Heat Pipe Collector the highest rating in its class. Each glass tube is fitted with an aluminum contact fin which serves as the heat transfer contact and also holds the heat pipe against the inner wall of the glass tube. The heat pipe is evacuated and filled with a small amount of heat transfer liquid; which as well as being rated to a very high temperature is also frost proof. Heat is transferred from the heat pipe evaporator to the condenser through to the manifold. The manifold heat exchanger contains a copper main pipe which is in contact with each heat pipe allowing the heat generated to pass to the solar loop. The manifold is insulated with polyurethane foam and encased with an UV stabilised aluminum profile.

Number of evacuated tubes		16
Conversion factor	η_0	0.664
Heat transfer coefficient	a_1	0.865 W/(m ² K)
	a_2	0.018 W/(m ² K ²)
Yield forecast (aperture area 3m ²)		
Reference location Würzburg, Germany	kWh/m ² a	745
Grid dimensions (L x W x H)	mm	1978 x 1210 x 167
Gross surface area	m ²	2.39
Aperture area	m ²	1.5
Collector contents	litres	0.65
Weight	kg	56
Max. working overpressure	bar	6
Max. stagnation temperature	°C	230
Manifold Connection fitting		¾" male thread
Sensor sleeve	mm	6
Collector material		copper, AL profile
Glass tube material		Borosilicate 3.3
Selective absorber coating material		selective coating CU-AL/SS/N-ALN
Glass tube (Ø ext./Ø int./	mm	58/47
Wall thickness/tube length		1.6/1800
Colour (frame profile, anodised)		black anodised
Colour (plastic parts)		black
DIN CERTCO - Register number		011-7S574 R
ITW report		08COL699



Heat Pipe Collector Key Features:

Fully Pumped or Thermo-Siphon usage to ensure optimum thermal performance

Manifold structure & material able to withstand extreme temperatures without damage

Assembly allowed on the roof should this be advantageous at the time of installation

