

SDC

Solar District Cooling

Solar Collectors

SEIDO 2



Higher Efficiency

Direct Flow Heat Transfer

High Vacuum with Long term stability

Easy Integration into buildings

Elegant Design for Aesthetic Appearance

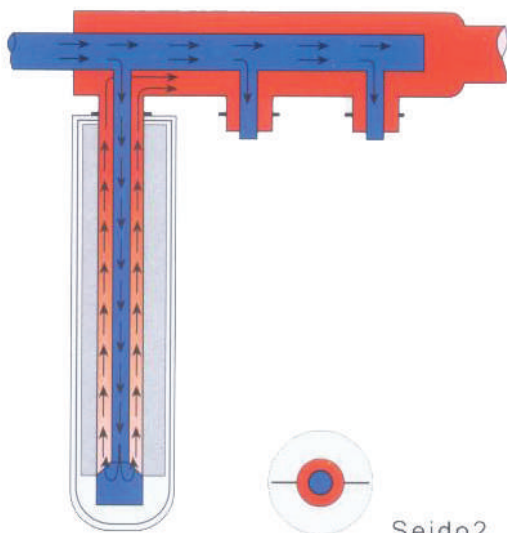
Flexible Installation Angle

Reliable & Durable

www.sdc.my

High Technology creating high efficiency

SEIDO 2 is a direct flow evacuated tube. Configuration and appearance are similar to SEIDO1 but the heat pipe is replaced by a coaxial set of copper tubes. The heat transfer from the absorber to the heat circulation is performed applying direct flow. All our collector tubes are evacuated and sealed with our patented thermo-compression sealing technology to prevent heat losses and to provide protection from corrosion. The aluminum nitride selective coating on the absorber plate ensures the exceptionally high solar absorption and low thermal emission of our tubes.



Customisation & convenience

SEIDO 2 solar collectors apply a direct-flow design which increases their efficiency. The heat transfer liquid flows through a concentric tube integrated into the absorber picking up thermal energy by direct heat exchange. The cold liquid is inducted through the inner tube. It flows back in the gap between the inner and outer tube. The inlet and outlet tube of each collector tube are connected to the manifold. All tubes are connected in parallel.

The SEIDO 2 series collector module consists of vacuum tube, inner tube of vacuum tube, manifold and inner manifold. The inner tube is connected with the inner manifold and the vacuum tube. The heat-transfer fluid flows through the inner manifold, inner tube, vacuum tube and manifold in turn. The effective heating position is the space between inner tube and vacuum tube.

Top Performance and Versatility

SEIDO 2 solar collectors collect heat from the sun working in high efficiency and absorbing up to 92% of the incoming irradiation. With their excellent efficiency, SEIDO 2 solar collectors can be applied in domestic water heating for household and even larger systems for commercial or public use, space heating and also air-conditioning.



At SDC, we are continuously striving to improve our products, technology and service provided to our customers. Our products are complying with the highest performance and reliability standards. We are holding various certificates to give proof of their premium quality.

Technical Data

Module type	SEIDO2-8		SEIDO2-16	
Tube construction	SEIDO2---Direct flow vacuum tube with flat absorber			
Certificate	EN 12975			
Angle of inclination	0° to 90°			
Number of collector tubes	8		16	
Absorber area	1.39 m ²		2.77 m ²	
Aperture area	1.47 m ²		2.93 m ²	
Gross area	2.04 m ²		4.08 m ²	
Length x width x height (mm)	2126x960 x150		2126x1920x150	
Weight	50 kg		100 kg	
Pressure drop per module	<7 mbar (100L/h)	<20 mbar (200L/h)	<7 mbar (100L/h)	<20 mbar (200L/h)
Fluid content per module	1.3 L	2.6 L	1.3 L	2.6 L
Glass material	Borosilicate glass			
Glass tube diameter	100			
Wall thickness	2.5 mm			
Transmittance	> 0.90			
High vacuum, long term stability	< 10 - 5 mbar			
Absorber material	Aluminum			
Selective coating	Aluminum nitride			
Absorptance	> 0.92			
Emittance	< 0.08			
Header box material	Aluminum			
Header box size	958x108x126mm	1918x108x126mm	958x108x126mm	1918x108x126mm
Insulation	Polyurethane foam			
Max. operating pressure	6 bar			
Stagnation temperature, module	190°C			
Stagnation temperature, pipe	247 °C			
Assembling components	Stainless steel vertical supports and bottom supports, aluminum header box, 30 mm thickness polyurethane insulation			
Connection	Compression fitting 22 mm			

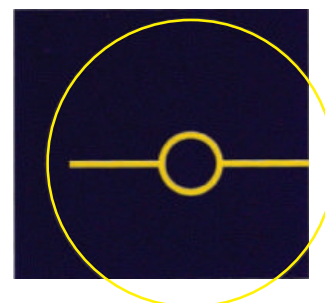


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