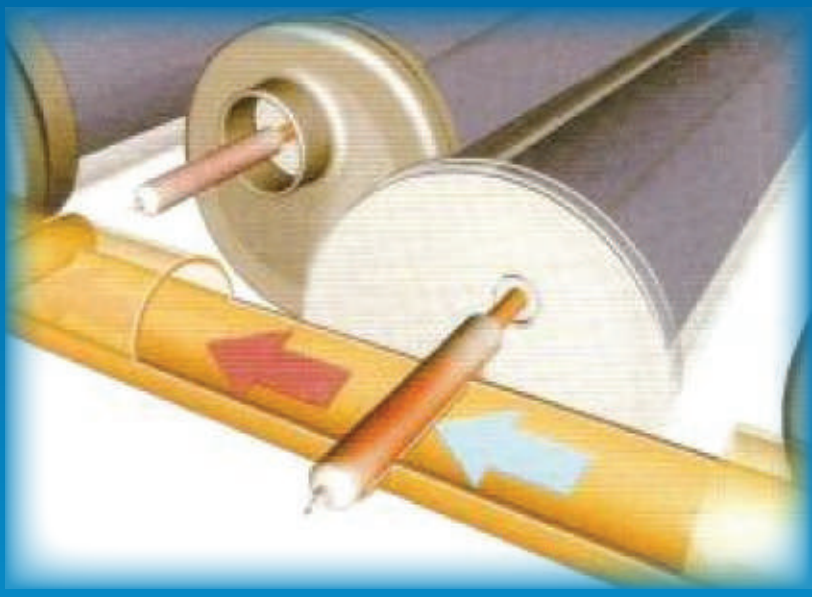
SDC

Solar District Cooling

Solar Collectors

SEIDO 10



- Very High Cost Effectiveness
- Anti Freeze
- Fast Start Up
- Easy Integration into buildings
- High Vacuum with Long-term Stability
- Low Heat Loss
- High Pressure Resistance
- Reliable & Durable
- Easy Installation & Maintenance

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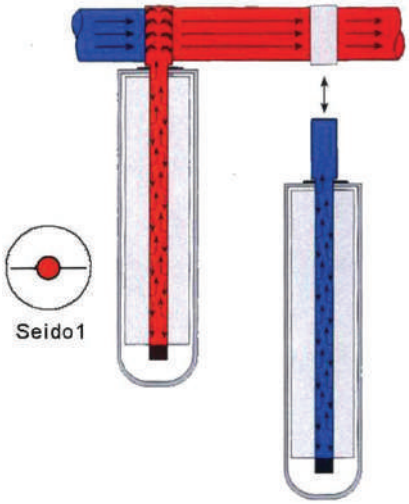
High Technology creating high efficiency

The heat transfer from the absorber to the heat circulation is performed by the heat pipe which is mounted in the absorber. The heat pipe had originally been developed for the thermal control in satellites. Inside the pipe, the heat is conducted with high efficiency to its upper end. From there it is released to the heat circulation. Although the heat transport medium of the heat pipe is water the heat pipe is a closed system. The pipe is charged with a small amount of water and carefully evacuated before sealing. 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 10 solar collectors are very similar to SEIDO 1 collectors. They also have heat pipe evacuated tubes with flat absorber plate and employ a plug-in structure for manual adjustment, easy installation and maintenance. While sharing the same configuration as SEIDO 1 tubes, their absorber area and tube dimensions are smaller creating even more versatility.

Top Performance and Versatility

The heat pipe vacuum tube collects heat from sun working high efficiency and absorbing up to 92% of the incoming irradiation. Thereafter, the condenser of the heat pipe will transfer the heat to the manifold where the water is heated. The heated water will circulate in the system until the required temperature is attained. With their excellent efficiency, SEIDO 10 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	SEIDO 10-10	SEIDO 10-10AS	SEIDO 10-20	SEIDO 10-20AS
Tube construction	Heat pipe vacuum tube collector			
Certificate	EN 12975			
Angle of inclination	15° to 90°			
Number of collector tubes	10		20	
Absorber area	1.0 m^2		2.0 m^2	
Gross area	1.80 m^2		3.60 m^2	
Length x width x height (mm)	1935 x 930 x 187	1935 x 900 x 187	1935 x 1860 x 187	1935 x 1800 x 187
Weight	40 kg		75 kg	
Pressure drop per module	< 5 mbar (80L/h)		< 12 mbar (150L/h)	
Fluid content per module	0.5 L		0.9 L	
Glass material	Borosilicate glass			
Glass tube diameter	70			
Wall thickness	1.8 mm			
Transmittance	> 0.90			
High vacuum, long term stability	< 10 - 5 mbar			
Absorber material	Aluminum			
Selective coating	Sputtering Aluminum nitride			
Absorptance	> 0.92			
Emittance	< 0.08			
Header box material	Aluminum	Aluminum Alloy	Aluminum	Aluminum Alloy
Header box colour	Brown	Silver	Brown	Silver
Header box diameter	130 mm			
Insulation	Polyurethane foam			
Max. operating pressure	6 bar			
Stagnation temperature, module	190°C			
Stagnation temperature, pipe	247 °C			
Connection	Compression fitting			

Contact:

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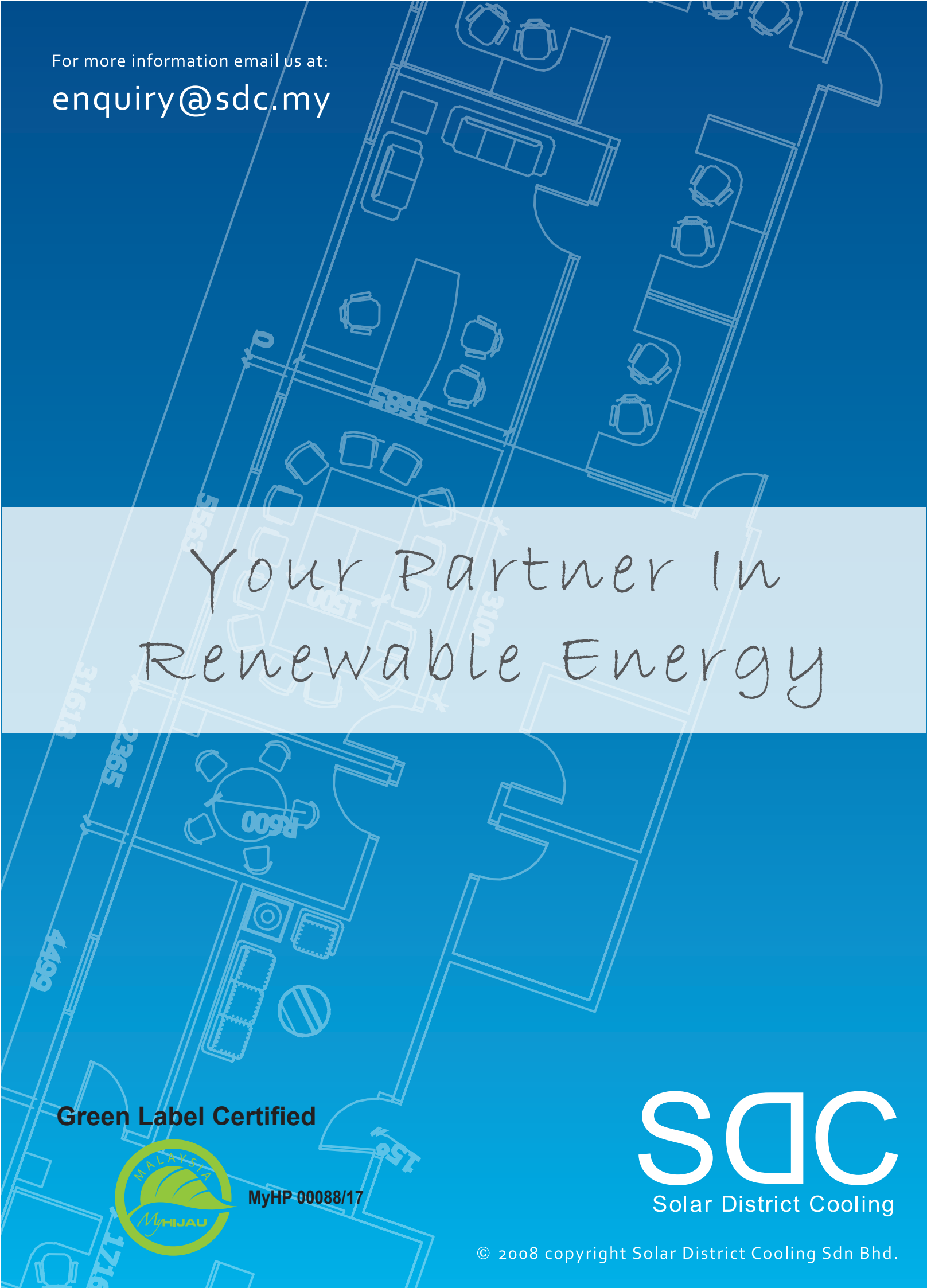

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Green Label Certified

MyHP 00088/17

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