

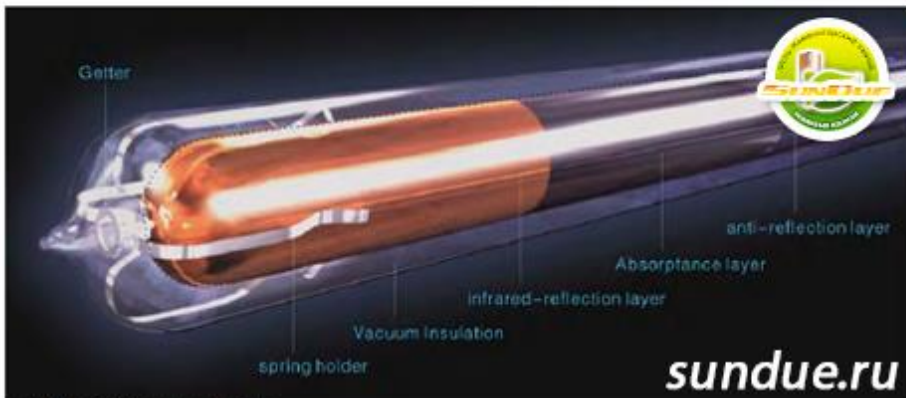
Dedicate To Be The Creator Of High-quality  
**Solar Energy Utility In The World.**

2010 PRODUCTS PROMOTION

**sundue.ru**



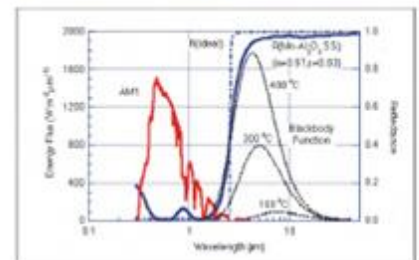
## Hard-core



ALN/AIN-SS/CU vacuum tube

### Specification of all-glass Evacuated Solar Collector Tubes

1). Structure:	all glass concentric dual tube geometer
2). Glass material:	borosilicate glass
3). Absorbance:	>0.92
4). Emittance:	<0.08 (80 °C)
5). vacuum:	<5*10 <sup>-3</sup> Pa
6). Stagnation	>230 m <sup>2</sup> . °C/KW
7) average heat loss:	<0.8w/ m <sup>2</sup> . °C
8). Lifetime	>15years



## vacuum tube

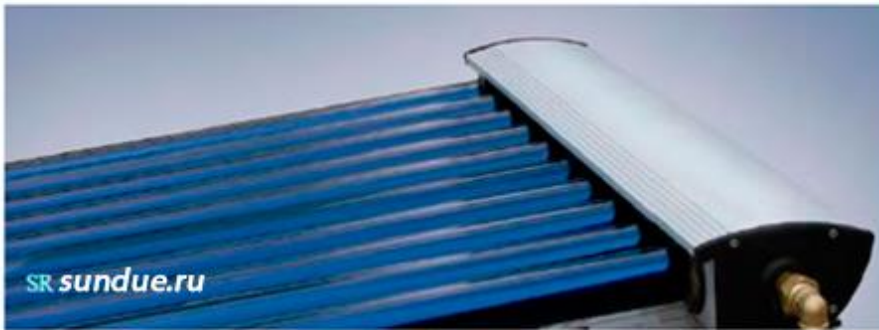
### Feature:

Sundue Vacuum tubes assimilate the advanced 12 layers of spattering deposition Of trivalent element technology, high borosilicate glass, gradual change of ALN/AIN-SS/CU selective complex absorptive coating. And these make vacuum tubes have high performance of absorbance and low reflection ratio. Through the interlayer, vacuum has a unique effect of thermo, with its temperature up to 380°C of idle sunning, performing a strong heating ability.\*\*\*\*\*

Models	material	Models	length	coat ing	vacuum	Transmi-tane	bearing hail
Ø 47x1500	borosilicato	Ø 47 mm	1500 mm	ALN/AIN-SS/CU	≤5x10 <sup>-3</sup>	0.91	Ø 25 mm
Ø 47x1800	borosilicato	Ø 47 mm	1800 mm	ALN/AIN-SS/CU	≤5x10 <sup>-3</sup>	0.91	Ø 25 mm
Ø 58x1800	borosilicato	Ø 58 mm	1800 mm	ALN/AIN-SS/CU	≤5x10 <sup>-3</sup>	0.92	Ø 25 mm
Ø 58x2100	borosilicato	Ø 58 mm	2100 mm	ALN/AIN-SS/CU	≤5x10 <sup>-3</sup>	0.91	Ø 25 mm



## Solar collectors



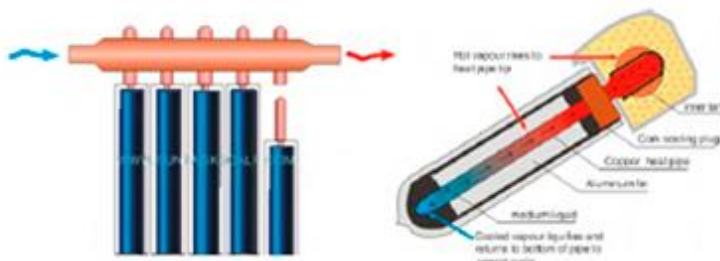
SR sundue.ru

### Heat pipe collector

SR• 6CM-01• 6CM-02

#### Feature:

- ◆ The pipeline is made of all the red copper and conducted by heat transfer medium liquid. Water can't flow in vacuum tubes and operated when confined. The manifold uses Aluminum alloy mould material of high strength with Air flow design. It is furnished in good style.
- ◆ Can withstand high pressure when it works.
- ◆ Module design, arbitrary combination, which can meet the demand of large water consumption.



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## Solar collectors

### SR

- SR10-58/1800
- SR15-58/1800
- SR20-58/1800
- SR30-58/1800



### SCM-01

- SCM12-58/1800-01
- SCM15-58/1800-01
- SCM20-58/1800-01



### SCM-02

- SCM12-58/1800-02
- SCM15-58/1800-02
- SCM20-58/1800-02
- SCM30-58/1800-02

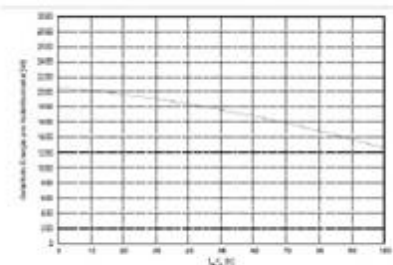
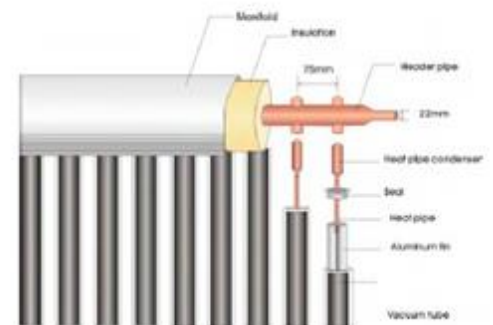


Fig. 2: Leistungskurve des Moduls: Sundat SR10-58/1800 bei 1000 W/m<sup>2</sup> - power output curve of the module: Sundat SR10-58/1800 at 1000 W/m<sup>2</sup>

$t_m - t_a$ [K]	400 [W/m <sup>2</sup> ]	700 [W/m <sup>2</sup> ]	1000 [W/m <sup>2</sup> ]
0	825	1444	2062
10	783	1402	2020
20	873	1260	1911
30	530	1148	1767
40	352	971	1590

Spitzenleistung ( $t_m = 1000$  W/m<sup>2</sup>) je Kollektor modul: 2062 W  
Maximum power output per collector module



Aperturfläche  
aperture area

$$A_a = 2,606 \text{ m}^2$$

$$\eta_{0a} = 0,735$$

$$\alpha_{1a} = 1,349 \text{ W/m}^2\text{K}$$

$$\alpha_{2a} = 0,0151 \text{ W/m}^2\text{K}^2$$

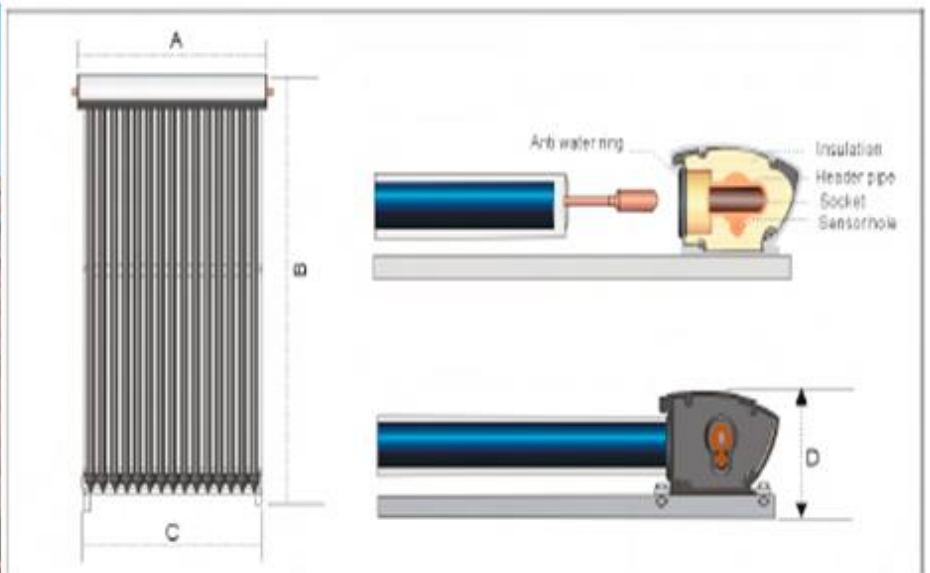
Absorberfläche  
absorber area

$$A_{\Delta} = 2,448 \text{ m}^2$$

$$\eta_{0A} = 0,842$$

$$\alpha_{1A} = 1,546 \text{ W/m}^2\text{K}$$

$$\alpha_{2A} = 0,0173 \text{ W/m}^2\text{K}^2$$



Models	vacuum tuber	Condenser Φ (mm)	Heat pipe	Whole pipe AL- fin	Thicker heat pipe	Adjust able frame	Capacity (Liter/Day /60°C)	Effective collector area M <sup>2</sup>	size(mm)				Qty (set)	
									A	B	C	D	20'ft	40'hq
SR10-58/1800	∅ 58x1800*10Pc	∅ 24	••	••	••	••	90-100	1.28	1070	2020	1005	123	150	358
SR15-58/1800	∅ 58x1800*15Pc	∅ 24	••	••	••	••	140-150	1.95	1295	2020	1230	123	120	285
SR20-58/1800	∅ 58x1800*20Pc	∅ 24	••	••	••	••	180-210	2.60	1670	2020	1605	123	92	220
SR30-58/1800	∅ 58x1800*30Pc	∅ 24	••	••	••	••	280-300	3.91	2420	2020	2355	123	64	153
SCM12-58/1800-01	∅ 58x1800*12Pc	∅ 14	••	••	••	••	100-120	1.55	1070	1990	1005	130	141	342
SCM15-58/1800-01	∅ 58x1800*15Pc	∅ 14	••	••	••	••	130-150	1.95	1295	1990	1230	130	121	295
SCM20-58/1800-01	∅ 58x1800*20Pc	∅ 14	••	••	••	••	170-200	2.60	1670	1990	1605	130	92	223
SCM12-58/1800-02	∅ 58x1800*12Pc	∅ 14	••	•••	—	••	100-120	1.55	1070	2010	1005	125	141	342
SCM15-58/1800-02	∅ 58x1800*15Pc	∅ 14	••	•••	—	••	120-150	1.95	1295	2010	1230	125	121	295
SCM20-58/1800-02	∅ 58x1800*20Pc	∅ 14	••	•••	—	••	170-200	2.60	1670	2010	1605	125	92	223
SCM30-58/1800-02	∅ 58x1800*30Pc	∅ 14	••	•••	—	••	260-300	3.91	2420	2010	2355	125	67	166

Above for the installation on the slope roof, we accept the custom-made according to your specifications

\*Tips: • standard • optional — no