



SOLAR-RIPP®

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Available sizes	5 m ² to 2000 m ² , rectangular and irregular shapes
Collector efficiency factor η_{0a}	0,917*
Therm. collector capacity C_{eff}	50000 (Ws/m ² K)
Collector efficiency factor b_{ua}	0,082 (s/m) [*]
Collector efficiency factor b_{1a}	38,305 (W/m ² K) [*]
Peak capacity W_{peak}	917 W/m ² ($E_n=1000$ W/m ²) [*]
Incident angle modifiers IAM	0,96
Incident angle modifiers	1,22 at 50° [*]
Solar tube surface	3.2 m ² /m ² (rib design)
Flow rate	100 to 250 l/(m ² h)
Pressure loss	4,8 Pa/m at 100kg/h [*]
Weight	empty 2,5 kg/m ² , filled 14 kg/m ²
Therm. linear extension factor	0,00016 K ⁻¹
Pressure resistance, outside	15000 N/m ² (step proof)
Pressure resistance, inside	250 kPa at +40°C, 400 kPa at +20°C
Header diameters	Ø 50 mm, 75 mm, 90 mm, 110 mm, 140mm, 160mm (all outside)
Solar tube diameters	Ø 25 mm outside (parallel middle axis distance 35mm)
Header - System connections	private pools: Ø 50 mm tube hose connection hotel/public pools: Ø 2.1/2", 3", 4", 5", 6" and Ø 75, 90, 110, 140, 160mm
Heat resistance	-35 to +120°C (please drain before frozen time)
Stagnation temperature	+55 to +60°C (near equator)
Mounting options	ground, wall, fence, flat roof, sloping roof (always without shadow)
Certified in 2008	* DIN EN 12975-1,2 at approved DIN CERTCO testing laboratory TZSB / izes (DE)
Special features	rodent bite resistant materials, high wind resistance, step proof easy assembly - no tools required



Solarcontroller SRC181GB

Electrical design	internal 24V AC transformer, programmed microprocessor
Mains voltage	230 V AC (with internal changeable 4A/T fuse)
Connections	mains voltage, circulation pump 230 V AC motorised 3-way valve 24 V AC (only <3WSMH>) solar temperature and pool temperature sensor
Power output	max. 800 VA
Regulator settings	starting temperature difference (Δ 1 to 20 K) maximum temperature limit (+20 to +40°C)
Operation modes	manual/automatic
Indicator lights	Mains voltage (red), Solar operation (green) Maximum temperature reached (green)
Display	LCD 4 values indicated simultaneously
Device body	IP65, plastic, 175 mm x 160 mm x 100 mm
Sensors	2 x 0.75 mm ² (min. section), extendable up to 100m
other language versions	DE, ES, FR, IT, PT, RO
Package contents	SRC181 device, manual, solar sensor and pool temperature sensor Ø 50mm or Ø 1.1/2" PVC adaptor, extra-effective lightning protection element
Asseccories	<3WSMH> motorised 3-way valve 24 V AC, (Ø 1.1/2", 50 mm, 2", 63 mm)

