

# Solar Pool Heater **SOLAR RIPP®**



## Solar Pool Heater SOLAR-RIPP®

SOLAR-RIPP® Materials	header tube: UV/chlorine-/salt-resistant special plastic solar tube: UV/chlorine-/salt-resistant special plastic spacer: UV/chlorine-/salt-resistant special plastic rubber gasket: UV/chlorine-/salt-resistant special plastic
Available sizes	5 m <sup>2</sup> to 2000 m <sup>2</sup> , rectangular and irregular shapes
Collector efficiency factor $\eta_{0a}$	0,917*
Collector efficiency factor $b_{ua}$	0,082 (s/m)*
Collector efficiency factor $b_{1a}$	38,305 (W/m <sup>2</sup> K)*
Peak capacity $W_{peak}$	917 W/m <sup>2</sup> ( $E_n=1000$ W/m <sup>2</sup> )*
incident angle modifiers	1,22 at 50° *
Solar tube surface	3.2 m <sup>2</sup> /m <sup>2</sup> (rib design)
Flow rate	100 to 250 l/(m <sup>2</sup> h)
Pressure loss	0,11 bar/50 m 0,35 bar/150 m
Weight	empty 2,5 kg/m <sup>2</sup> filled 14 kg/m <sup>2</sup>
Pressure resistance	4.0 bar/+20°C 2.5 bar/+40°C vacuum proof
Header diameters	50 mm, 75 mm, 90 mm, 110 mm, 140mm, 160mm (all outside)
Header - System connections	private pools: 1.1/2" (ABS, uPVC), 1.5" thread, 50 mm tube hose connection hotel/public pools: 2.1/2", 3", 4", 5", 6" and 75, 90, 110, 140, 160mm
Heat resistance	-35 to +120°C (please drain in frozen time)
Stagnation temperature	+70°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 <b>DIN CERTCO</b> testing laboratory TZSB / izes (DE)
Special features	rodent bite resistant materials high wind resistance easy assembly, no tools required



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## Solarcontroller SRC181GB

Electrical design	internal 24V AC transformer, programmed microprocessor
Mains voltage	230 V AC (with internal changeable 4A/T fuse)
Connections	mains voltage motorised 3-way valve 24 V AC (only <3WSMH>) circulation pump 230 V AC solar temperature and pool temperature sensor
Power output	max. 800 VA
Regulator settings	starting temperature difference ( $\Delta$ 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 <sup>2</sup> (min. section), extendable up to 100m
other language versions	Spanish ( <b>ES</b> ), French ( <b>FR</b> ), German ( <b>DE</b> ), Italian ( <b>IT</b> ), Portuguese ( <b>PT</b> )
Package contents	SRC181 device, manual, solar sensor and pool temperature sensor 50mm or 1.1/2" PVC adaptor, extra-effective lightning protection element
Asseccories	<3WSMH> motorised 3-way valve 24 V AC, (1.1/2", 50 mm, 2", 63 mm)

