

Solar Pool Heater



	Solar / Vakuum tube Collector	SOLAR-RIPP®
nominal temperature	150°F (~65°C)	85°F (~30°C)
water volume, capacity	65 to 700 gal (~300 to 3000 l)	2500 to 500000 gal (~11m ³ to 2000m ³)
flow rate	low	high
pipework	<= 1"	1.1/4" to 8"
aux. heat exchanger	necessary	no
heat transfer medium	necessary (e.g. Tyfocor®)	no
max. temperature	300 to 550°F (~150 to 290°C)	140 to 160°F (~60 to 70°C)
compression stress	80 to 115 psi (~5.5 to 8.0 bar)	2 to 30 psi (~0.1 to 2.0 bar)
total material stress	extremely high	low
system circuit layout	complicated	simple
chlorine-/salt-resistant	no	yes
subject to corrosion	yes (metal)	no (plastic)
manual operation	no	yes
efficiency at 80°F (~27°C)	medium	the best (small temperature difference)
absorption area ratio	0.6 to 1.9	3.2 (ribbed surface for max area)
roof load	200 %	100 %
assembly	complicated	simple
set up time	slow	quick
DIY suitable	no	yes
hail-resistant	limited (pane, glass)	yes
storm-resistant	limited	yes
repairable	complicated	simple
investment	high	low
running costs	yes	no
maintenance-free	limited	yes
suitable for pools	limited	the best
result	the best for 150°F (65°C) domestic water, limited storage capacity	the best for 75° to 85°F (25° to 30°C) pools, high poolwater capacity

