

# „All In One“ Energy Concept



You Can Laugh In Your Pleasant Warm Water...



Our „All In One“ energy concept transforms any single solution (swimming pool, ice skating, heating, etc.) into an integrated **economical investment**. The systematic and simultaneous use of “waste energy” covers your all-year requirement for thermic energy (heating, air conditioning, hot water, etc.). Then the sun really shines **for free**.

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.... Because You Save Your Money with SOLKAV Solar Absorbers!

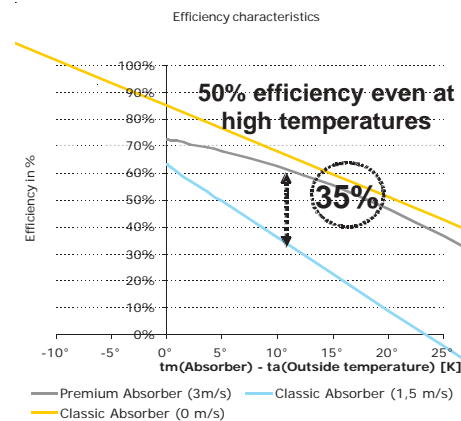
# Make Your Pool As Warm As The Mediterranean Sea



## Premium Solar Collector - The Pool Solution

Premium Solar is in the field of swimming pools always a solution for special requirements:

For Outdoor pools, whenever the bathing season is to be extended for as long as possible high maintenance is desired the roof is exposed to high winds nor enough space on the roof an especially elegant solution is preferred



## You need:

35% less m<sup>2</sup> of absorber for the same level of pool temperature (in comparison to the standard absorber). Instead of 80% to 100% absorber m<sub>2</sub> in relation to the Pool surface; 60% to 70% are sufficient.

## For Indoor swimming pools

with its high water temperatures which can be satisfied by the standard absorber just very limited.

Using antifreeze liquid the premium collector works the whole year (also in middle and northern Europe)

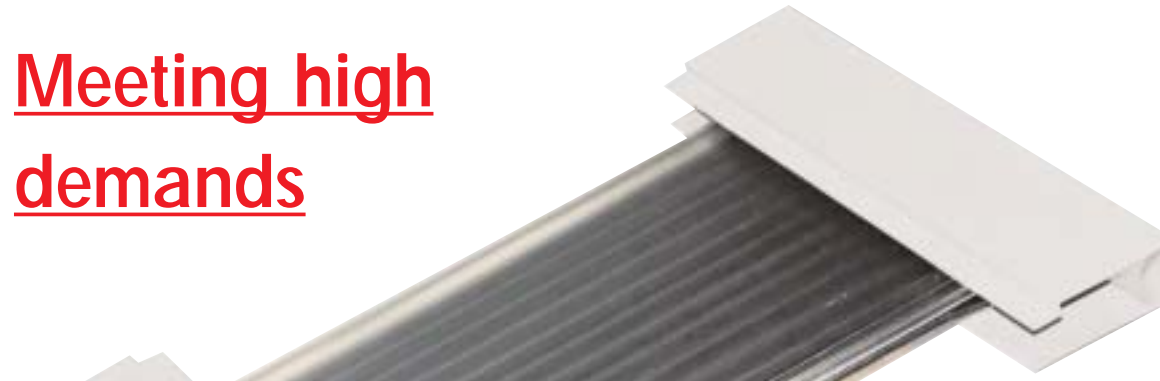


Volume: 60 – 100 liters/h  
Lexan coat: Polycarbonat PC 2540-2  
The coat is 100% UV resistant and stable against losses to wind and heat emission to the air.  
Against glassed Sun panels the Premium collector has following advantages:

Premium Solar is independent of the sun position. Thanks to the round absorber pipes.  
Premium Solar needs no complicated roof mounting. It gets fixed flat on the roof and causes therefore no static troubles (20 kg weight instead of 250 kg (incl. Wind) of normal glassed sun panels.

## The Solkav Premium Solar Collector

### Meeting high demands



The Lexan-coated Absorber



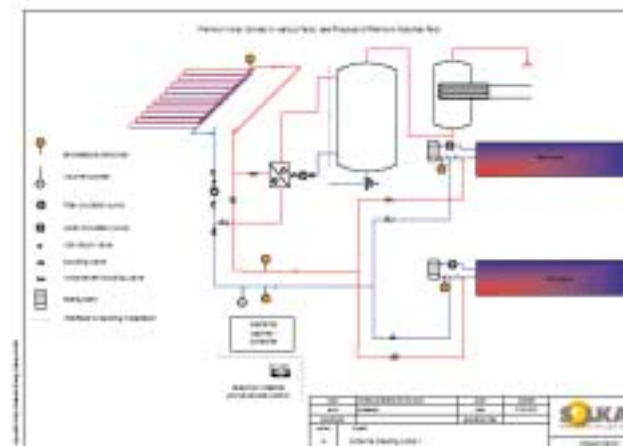
## For hot Water/in combination with Pool Water:

Caused by the pool water circulating directly the Premium collector

- Needs no Antifreeze filling
- Needs no or less heat exchangers in between and reaches a very high efficiency level The connection of hot water happens with a heat exchanger adapter. So in a combined operation the whole heat supply of the Premium collector system gets used.. Especially for Hotels; indoor pool areas or similar users with its
- Seasonal and
- daily

Fluctuating heat requirements

## Premium Solar is the optimal "Solar worker"



## Premium Solar Collector - the Alternative to Sun Panels

Test results in accordance with EN 12 975-2:

conversion factor  $\eta_0$ : 72,5%  
wind speed: 3 m/s

## Efficiency coefficients:

a1: 5,473  
a2: 0,241

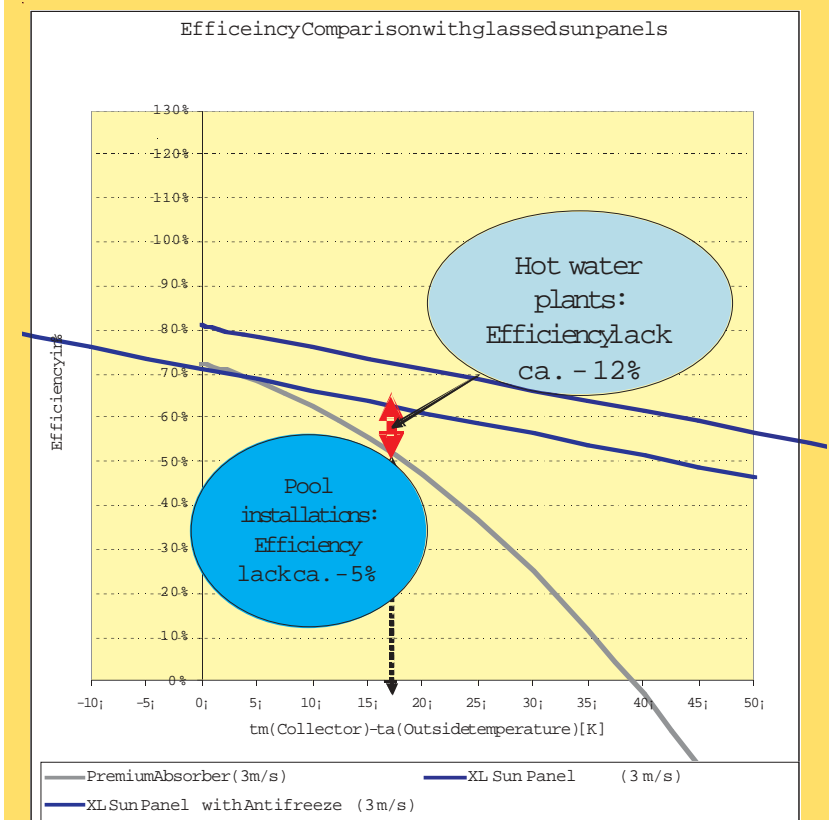
Therefore the premium collector is perfectly suitable also for hot water requirements:

with middle level temperatures of 50° +/-5°

At that temperature level the premium collector achieves its optimal efficiency level

And is on average equal in terms of efficiency to glassed sun panels

At cost of -40%



## The Technology

PremiumSolar is a SOLKAV product combining the function of the sun panel technology with the cost efficiency of the absorber technology

The absorber component consists like the standard absorber of high level EPDM and is covered by a polycarbonat coat (Lexan)

absorber: EPDM; Shore hardness 80/+5%  
inner diameter: 7 mm  
Wall thickness: 1,6 mm  
collecting pipes: PP