

„All In One“ Energy Concept



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**.

- * **Solar absorber & heat pump technology** for indoor and outdoor swimming pools and hotels.
- * **Ice rinks** for sale and rent.
- * **Sport Solar** - integration of solar absorbers into pool-side walkways, sports flooring, tennis courts.

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You Can Laugh In Your Pleasant Warm Water....



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

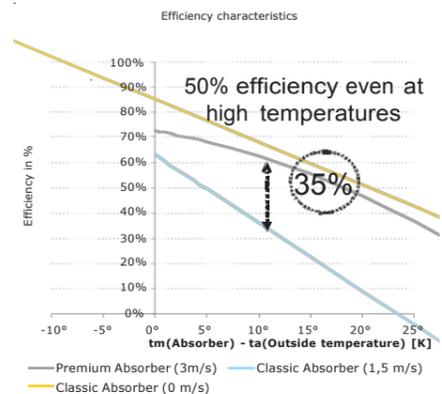
Make Your Pool As Warm As The Mediterranean Sea



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 martenproofness 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 m² of absorber for the same level of pool temperature (in comparison to the standard absorber). Instead of 80% to 100% absorber m² in relation to the Pool surface; 60% to 70% are sufficient.

For Indoor swimming pools

with ist 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 stabil 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 get fixed flat on the roof and causes therefore no dtatic troubles (20 kg weight instead of 250 kg (incl. Wind) of normal glassed sun panels.

The Solkav Premium Solar Collector



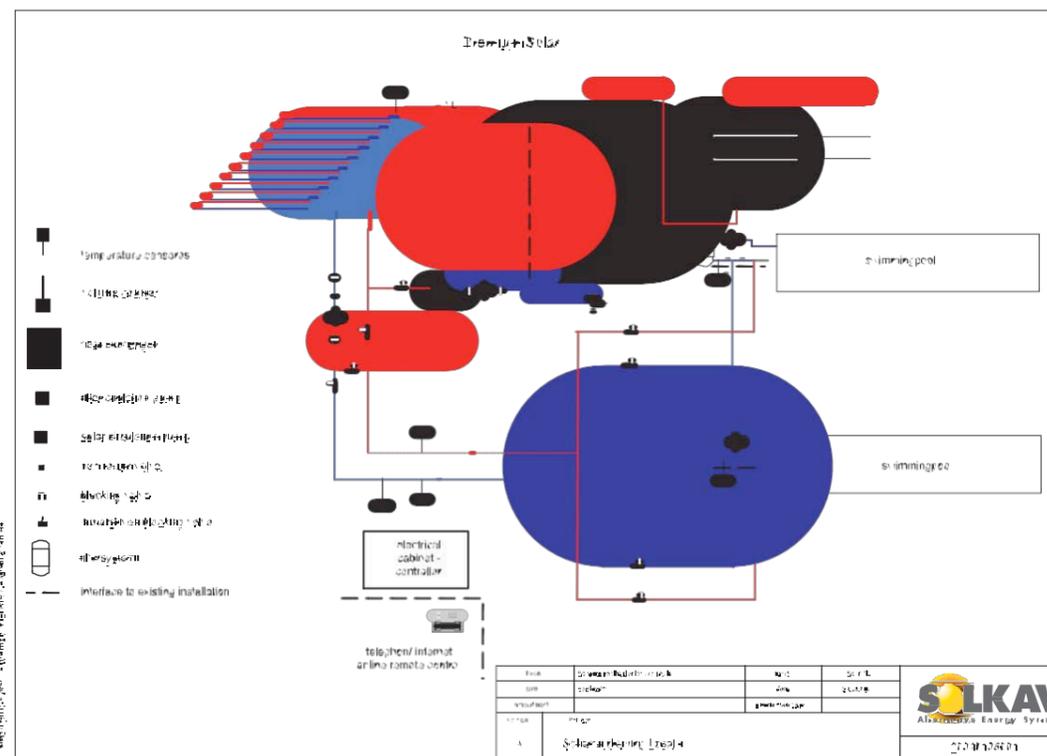
For hot Water/in combination with Pool Water:

Caused by the pool water ciculating directly the Premium collector

- Needs no Antifreeze filling
- Needs no or less heat changers in between and reaches a very high efficiency level. The connection of hot water happens with a heat changer adapter. So in a combined operation the whole heat supply of the Premium collector system get used.

Especially for Hotels; indoor pool areas or similar users with

- Seasonal and
- daily fluctating heat requirements



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; Shorhardness 80/+5%
Inner Diameter: 7 mm
Wall Thickness: 1,6 mm
Collecting Pipes: PP

Premium Solar Collector - the Alternative to Sun Panels

Test results in accordance with EN 12 975-2:

conversionfactor η_0 : 72,5%
wind speed: 3 m/s

Efficiency coefficients:

a_1 : 5,473
 a_2 : 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%

