



Wagner & Co



# Sun seeks Champion



## TOPline Solar Package comes out 1st in International Test

German consumer testing agency  
Stiftung Warentest, March 2008

### TOPline - Solar Package BW 480plus AD

test quality judgement **EXCELLENT ("sehr gut", 1.4)**

#### Energy efficiency/comfort of hot water prep. **Excellent ("sehr gut", 1.3)**

Proportional energy savings	++
Fraction of solar energy utilized	+
Minimum utilizable hot water volume	+

#### Operation and durability **Excellent ("sehr gut", 1.2)**

Operational characteristics	++
System concept and functionality	++
Durability under high operational demands	++
Workmanship	++

#### Usability **Good ("gut", 2.1)**

User operation / functional control	+ / +
Installation / Documentation	+ / +

#### Additional environmental characteristics **Excellent ("sehr gut", 1.5)**

Power consumption in kWh/Year	++
Material and recycling oriented construction	+

Conclusion: "The winner: an affordable and particularly high performing installation that ensures high energy yields from the sun. Exceptionally environmental friendly thanks to the very low power consumption of the pump. Gratifying: The useable storage volume has 20 litres more capacity than indicated." (test magazine 3/2008, p.72)

1987  
"SEHR GUT" (Excellent)  
Best price/performance ratio.



1995  
"SEHR GUT" (Excellent)  
Excellent and highly economical collector



1998  
"GUT" (Good)  
The most affordable system in the high-end category.



2002  
"GUT" (Good)  
Best price/performance ratio in the high-end category.



2003  
"SEHR GUT" (Excellent)  
Test winner  
Space heating support



2008  
"SEHR GUT" (Excellent)  
Test winner  
Hot water installation



TOPline BW 480plus AD - the solar hot water preparation test champion

## Best system at the lowest price!

For the last 30 years, we passionately developed and manufactured high-end solar collectors and solar installations. Our components are continuously enhanced and improved by our growing team of development engineers, also through constant and intensive dialogue with our specialized technicians. These are then optimally joined together into highly efficient solar energy systems. By keeping up to a rigorous standard, Wagner & Co has been awarded a distinction in every previous test of solar installations carried out by Stiftung Warentest!

Highlights of the actual test winner package TOpline and other solar installations from Wagner & Co include for instance:

- **Sunarc® anti-reflection glass**

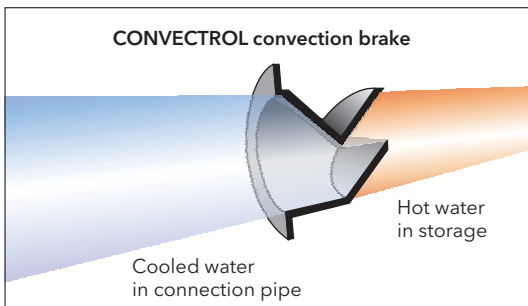
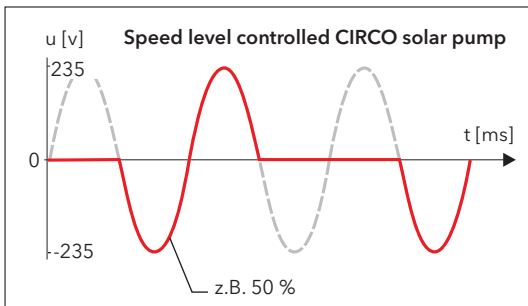
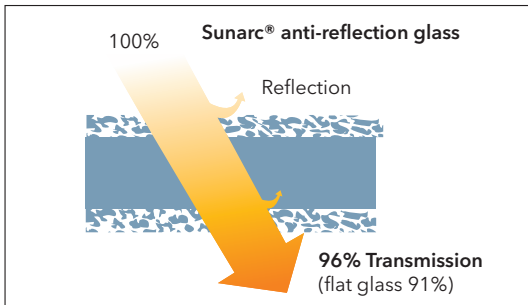
Wagner & Co offers sunarc® anti-reflection glass for its collectors. The ultra-fine nano surface structure increases the transmissivity from 91% to 96%. This way the heat yield increases between 6 and 10%!

- **Speed controlled CIRCO solar pump**

Our speed controlled circulation pump constantly adjusts the volume flow of the solar circulation to the solar irradiation. A triac triggers the number of half-wave alternations according to demand - e.g. a power input of 50% as shown in the figure. This reduces the electricity uptake of the pump as well as heat losses of the collector.

- **CONVECTROL convection brake**

The innovative convection brakes reduce heat losses at the pipe connections of the solar cylinder by up to 50% each. The patented barrier design separates the cooled water in the connection pipes from the hot storage contents. Annual storage heat loss is thus cut back to around 10 to 12%!



Cheers to the sunny prospects with the number one!

## Team up with the CHAMPION!

"Stiftung Warentest" product evaluations and recommendations have great influence on investment decisions of many consumers in Germany. Benefit from our excellent test result for your campaign. Wagner & Co will gladly provide you with suitable advertising material. Find out more at the Wagner & Co partner portal under [www.wagner-solar.com](http://www.wagner-solar.com) - login for partners.

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