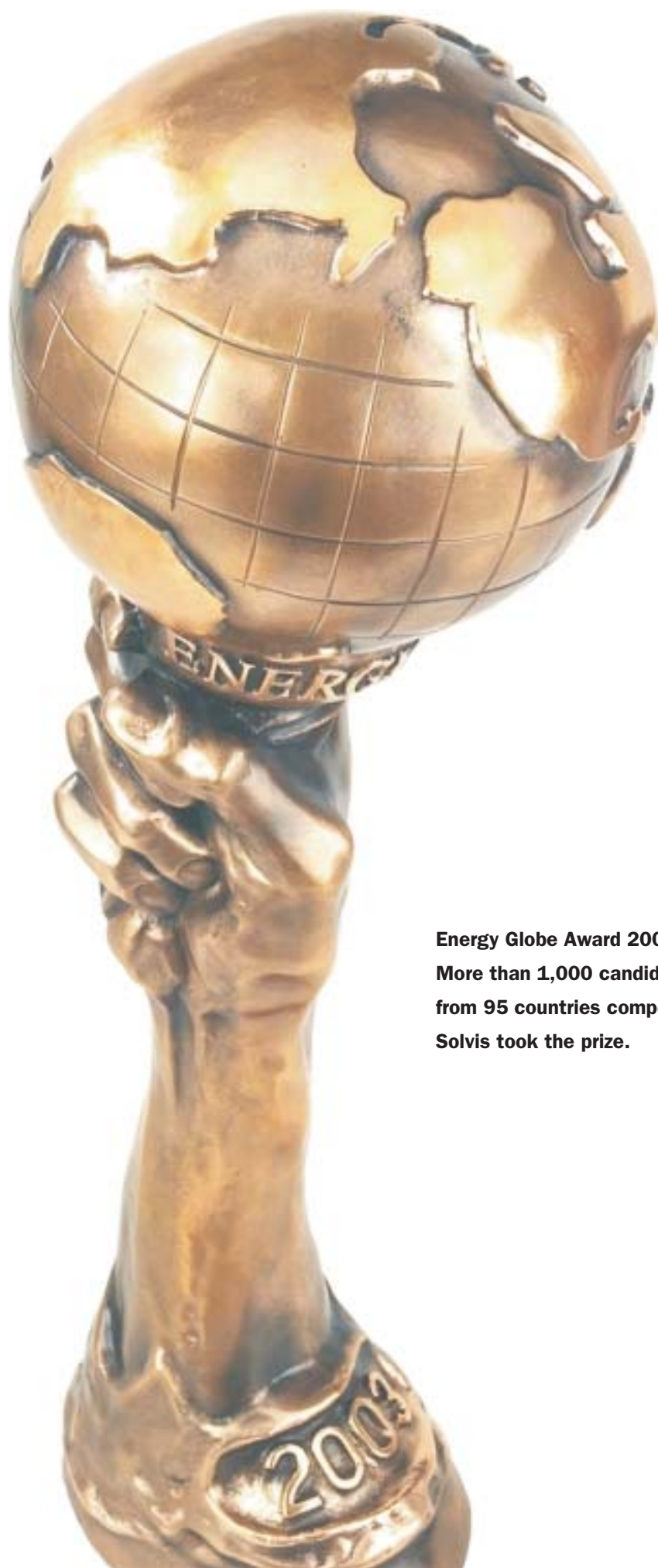


Simple solutions  
are usually  
the best ...



The new heating system.





**Energy Globe Award 2003:  
More than 1,000 candidates  
from 95 countries competed.  
Solvis took the prize.**

**We really just wanted to develop  
the most environmentally friendly heating system  
in the world.  
Something much better happened.**

The Solvis Company's history can be quickly told:

In the early '80s, just after the first oil crisis had been overcome, and the anti nuclear campaign movement had reached its peak, a highly motivated team of German engineers with a marked tendency towards perfection came together – not to cure the world but to “exploit” the sun.

Even back then, every child knew that the sun was our planet's biggest source of energy. So we took a closer look to the standard Solar Systems on the market and the results astonished the experts. In 1988, we produced our first thermal collector panels – with a unique coating and significantly higher performance. After that, one innovation followed another, and the patents stacked up. Solvis products advanced to become energy-efficient champions and brought home one environmental prize after the other.

A few simple thoughts made this quantum leap to Solvis's current technological level possible:

**Our houses are heated with water, not with oil or gas.**

That means that the hot water tank is really the heart of a central heating system.

Is a separate boiler really necessary?

Is it more efficient to heat the water in the tank directly?

Is it possible to use the physical properties of hot and cold water more effectively?

Can one compact and upgradeable unit combine a heating system that uses oil,

gas, wood and solar energy all in one? Would that mean that the perfect,

future-oriented central heating boiler had been developed?

Yes! SolvisMax is its name. We will introduce SolvisMax in the next pages.

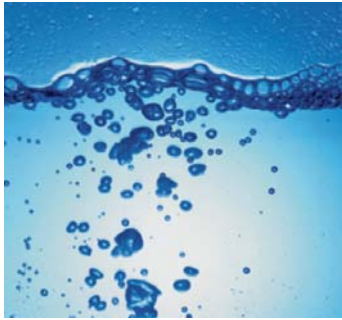
We already guarantee that you will not find anything better.



**SolvisMax. The champion.**

## A single unit makes homeowners perfectly happy: SolvisMax.

### The system's heart: the patented 3-level storage tank.



Cooled water flows from the heating system into the lowest level, where it is heated and then rises. Warm water collects in the middle level at the pre-run temperature for heating. Water is only really hot in the upper level. A heat exchange through which fresh drinking water flows is connected to this level.

### Gourmet-quality hot water.



The heat exchanger keeps the drinking water separate from the water in the tank and heats it directly while it is passing through. You get as much hot water as you want, at exactly the right temperature. That means that freshly heated hot water flows from the tap as soon as you open it. And food-grade hot water increases the pleasure of showers and baths.

### Only requires half as much space and energy.



SolvisMax combines future-oriented heating, a supply of fresh hygienic hot water and the use of renewable energy in a single unit.

SolvisMax only requires 8 connections instead of the usual 34! This makes installation and upgrading easier: the most economical oil or gas boiler becomes the market's best combined solar boiler in just a few steps.

## You can choose from:

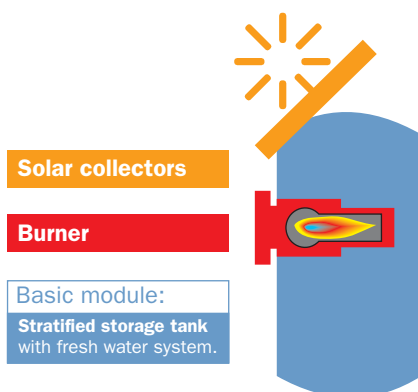
**SolvisMax is not a range of different models; it is a modular system that can be easily upgraded.**

Available as a **complete solar heating system** for oil or gas, with the appropriate solar collectors.

Available as a **replacement boiler** for oil or gas, which can easily be upgraded as a perfect solar heating system at any time.

Available as a much-awarded **solar storage tank** for your existing boiler.

**You just can't make the wrong decision.** Each model can be upgraded to the highest level.



**You only buy what you actually need.**

## 1. The best combined solar boiler under the sun.



**The most advanced solar heating technology.**  
**SolvisMax as a combined solar boiler.**

You can enjoy the most comfortable heating and an optimal hot water supply at the lowest possible cost. SolvisMax can reduce your energy consumption by up to 50 %!

**Cut your heating costs in half with the champion.**



**2. The ultimate oil or gas boiler with a solar power option**



**No other unit uses so few resources:  
SolvisMax Pure as a replacement boiler.**

Even without solar support, SolvisMax is a champion in saving energy. SolvisMax uses 15 % less energy than standard condensing boilers, can be readily converted from oil to gas, delivers the highest quality hot water, and is ready to be converted to a complete combined solar boiler system.



**Upgrade with solar collectors** and cut your future heating costs in half.

**3. The best solar storage tank for your existing boiler.**



**The cost-effective and future-oriented solution:  
SolvisMax Future as a solar storage tank.**

If your existing boiler has a breakdown or no longer conforms to the required standards, you need not buy a new one. Simply upgrade your SolvisMax solar storage tank with a boiler module. You already own **the most advanced solar heating technology.**



**Simply fit a burner** directly into the solar storage tank. No further space required for an additional boiler.



**If it is 30 degrees in the shade  
and it bothers you  
that your boiler is rumbling just to heat water...**

SolvisMax is more easily connected to the appropriate solar collecting panels than any other boiler. Then you will own "by far the best European solar heating system", as certified by the International Energy Agency (IEA). Beyond the heating season, the heat exchanger is virtually entirely powered by solar energy and provides you with a constant supply of fresh water at the desired temperature.

## **With SolvisMax you own the champion among condensing boilers, even without solar collectors.**

Add the solar system whenever it suits you. According to Stiftung Warentest (Product Testing Foundation), even without the solar component enhancement, you already own the best condensing boiler. The universal connections for renewable energy sources are standard. Installation is easy. More than any other boiler, your SolvisMax keeps your future open. For example, you can convert from oil to gas at any time. Your technician simply mounts a different burner in the combustion chamber.

### **That frees you from the ups and downs of the energy market.**

Solvis high-efficiency solar collectors guarantee you even more independence. The SolvisCala compact solar collector provides you with the experience of fascinating flat-panel technology. The absorber's environmentally friendly coating is vaporised onto the aluminium plate in a world wide unique process. Thus, the solar collector delivers high performance, looks great and lasts practically forever.

Small and flexible, SolvisCala turns even the most angular roof into a sun catcher. Lower right: see how the SolvisCala simply lolls in the sun...

In Spring, Autumn, and on sunny Winter days, your SolvisMax also uses collected solar energy to heat your living space. It shortens the heating season by many weeks. You can count on energy savings of up to 50 %.



**SolvisCala. The sun catcher.**



**The Solvis technology centre:  
Where your Max has lifetime membership.**

Solvis is one of the most innovative companies in the industry. However, we do not continually add new boiler generations to the market.

SolvisMax is and remains the platform for all future developments.

The basic principle of the stratified tank with an integrated highly efficient burner simply cannot be improved upon. And all attempts to copy this perfectly functioning system in Europe fail because of patent number EP 0795109.



## **Once and for all, peace – with the ultimate heating system from the zero-emission factory.**

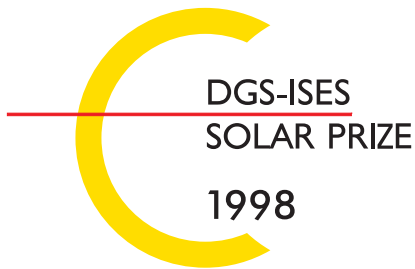
Do you have to replace your old boiler because it no longer complies with legal requirements? SolvisMax spares you from such surprises once and for all. When it comes to exhaust gas emissions, SolvisMax is so technically ahead of its time that it cannot be outdated by any conceivable regulation.

Instead, even after many years, SolvisMax can be transformed into a new boiler system. Regardless of whether you want to switch from oil to gas, add solar energy, use a back boiler or heat with pellets, in just a few steps, SolvisMax can be adapted to future developments or your personal wishes.

Solvis: the zero-emission factory. That means that all of our departments and the entire manufacturing process of all Solvis products have "zero" environmental impact. An international jury chaired by the Club of Rome distinguished our plant as:

**"an excellent example of an environmentally conscious industrial company".**





**SolvisMax:**  
«**excellent technical  
solar power product**»

**Environmental prize of  
Lower Saxony 1998**  
for exemplary commitment  
to climate protection.



Task 26 Solar Combisystems 12.2002

**SolvisMax Gas:**  
»**By far the best European solar-powered heating system**«



European Solar Prize 2003



Awarded the Energy Globe Award 2003,  
World Prize for Sustainability

## Decision-making aids for the price-conscious.

«**Best boiler tested.**» «**Excellent technical solar product.**»

«**By far the best European solar-powered heating system.**» «**Maximum efficiency.**»

«**Exemplary contribution to climate protection.**»

SolvisMax has scooped the highest prizes, awards, certificates and cups awarded by many official testing boards of diverse independent institutes.

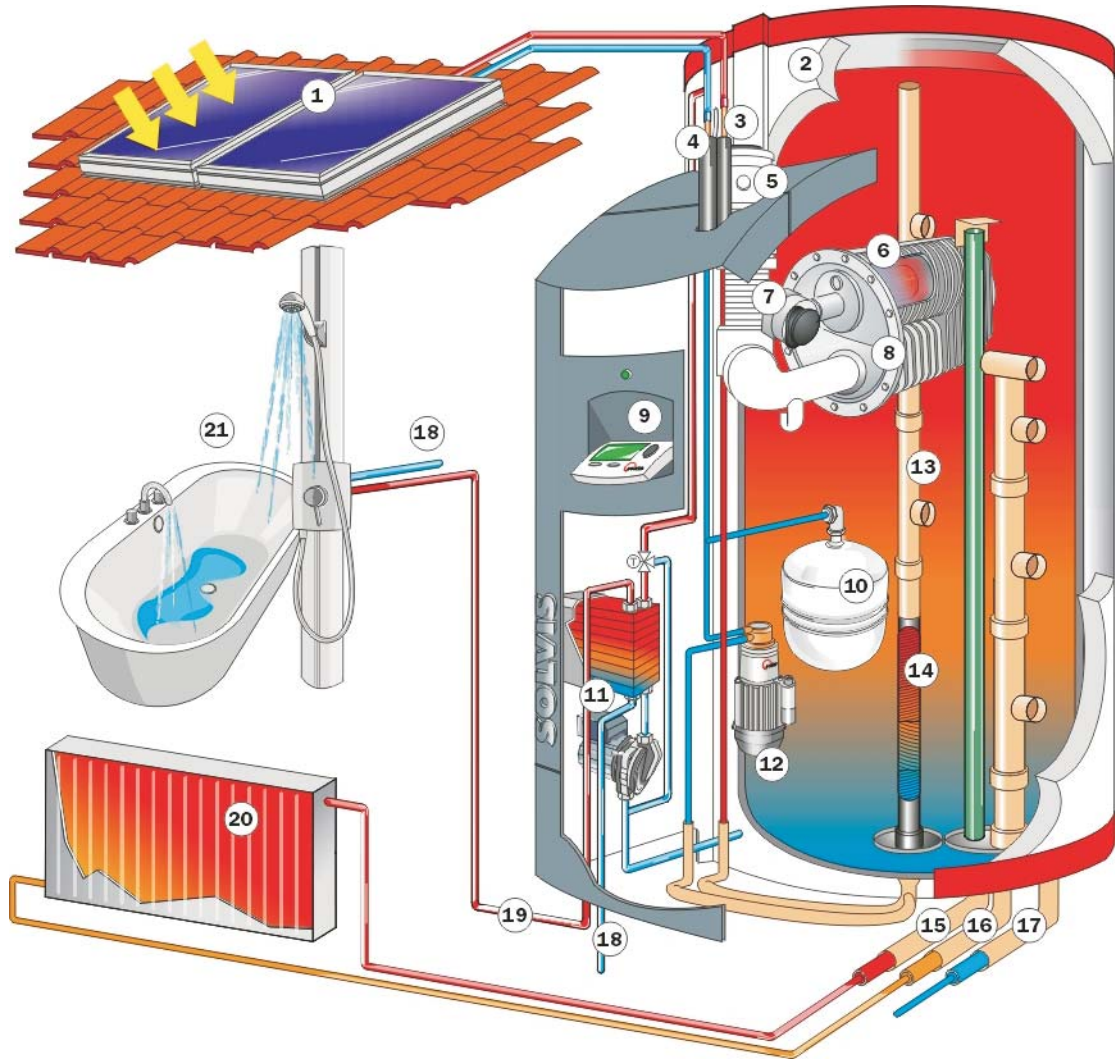
With SolvisMax, you own the energy-saving champion and a winner in price-performance comparison.

And we can say  
with all modesty:

«**You won't find  
a better one.**»



**The new heating system – complete.  
A view inside SolvisMax Gas/Oil:**



**Clever heating and showering.**

- |                              |                                   |                              |
|------------------------------|-----------------------------------|------------------------------|
| 1 Solvis solar collectors    | 8 Exhaust heat exchanger          | 15 Heating flow              |
| 2 Insulation                 | 9 SolvisControl system controller | 16 Heating return            |
| 3 Solar flow                 | 10 Solar expansion vessel         | 17 Filling and draining pipe |
| 4 Solar return               | 11 Hot water station              | 18 Cold water                |
| 5 Exhaust pipe connection    | 12 Solar pump                     | 19 Hot water                 |
| 6 Gas/oil combustion chamber | 13 Stratified charger             | 20 Heating                   |
| 7 Gas/oil burner             | 14 Solar heat exchanger           | 21 Hot water outlet          |

## The best storage tank for an existing boiler.



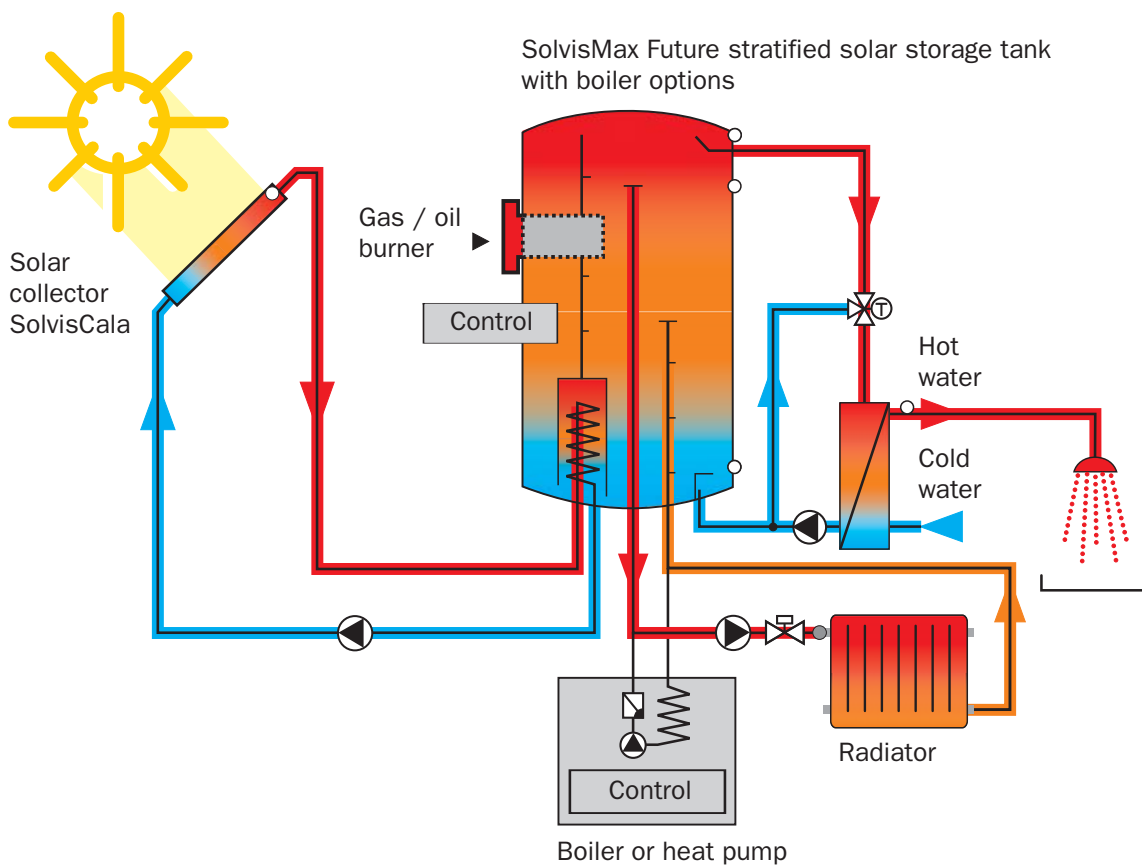
### SolvisMax Future – stratified solar storage tank with boiler options.

Distinguished as the most effective European solar storage tank.

In just a few steps, SolvisMax can be upgraded to the award winning combined solar boiler.

Solar storage tank + integrated burner  
= **SolvisMax combined solar boiler**  
= **Solar heating technology perfected!**

A uniquely flexible, upgradeable system.



## Numbers, data and facts for your comparison:



**Combined solar boiler:** SolvisMax  
**Solar storage tank:** SolvisMax Futur / SolvisIntegral

	350 l	450 l	650 l	750 l	950 l
Nominal volumes	350 l	450 l	650 l	750 l	950 l
Total height without insulation	1 516 mm	1 766 mm	1 838 mm	1 828 mm	2 218 mm
Total height with insulation	1 600 mm	1 850 mm	1 920 mm	1 920 mm	2 290 mm
Diameter without insulation	650 mm	650 mm	750 mm	790 mm	790 mm
Diameter with insulation	870 mm	870 mm	970 mm	1 020 mm	1 020 mm
Storage tank tilt height	1 525 mm	1 770 mm	1 845 mm	1 840 mm	2 235 mm

The space requirement for all sizes is increased by 0.45 m for the cover protecting the hot water and solar stations.

### Values for all sizes:

#### SolvisMax Gas

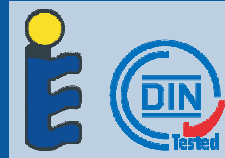
#### SolvisMax Oil NT

Rated heat output	either: 5 - 20 kW or 7 - 25 kW	17 kW
Standard efficiency coefficient	109.1 % (5 - 20 kW), 108.8 % (7 - 25 kW) useful heat	97 %
Standard emissions factor	NO <sub>x</sub> 18,7 mg/kWh, CO 0,9 mg/kWh	NO <sub>x</sub> 95 - 103 mg/kWh, CO 3 - 6 mg/kWh

### Solvis solar collectors

#### SolvisCala C-222

Dimensions	1.923 x 1.148 mm
Collector surface area (gross)	2,21 m <sup>2</sup>
Opening surface area by EN 12975	2,01 m <sup>2</sup>
Absorber type	Aluminium with Miro-Therm-coating
Glass transmission	> 0,91
Approval	CE 0036 CEN-Keymark DIN CERTCO – Registration number: 011-7S022 F



The new heating system.

Heat boiler  
with solar option

Solar storage tank

Solar collectors

Pellet heat boiler

Freshwater system

Photovoltaic



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Your professionals for cosy warmth: