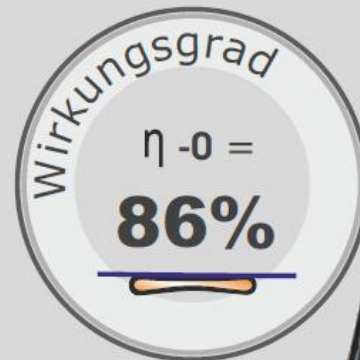




using
Solar energy
efficient



efficiency rate



High efficient flat plate collector KA88/2002

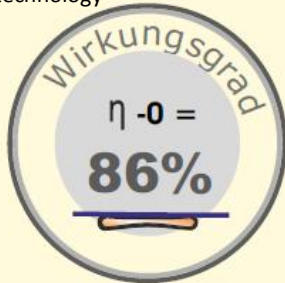
Efficient solar thermal collectors make it possible to get the domestic hot water in the summer months by nearly 100% and to harvest a big part of the DHW and space heating in times when there is not so much sun.

To have a great harvest from the sun for a long time it is important the solar collectors have a good absorption technology (heat exchanger) and the collector body is good against the weather conditions to work functional for many years.

The Wallnöfer Solar Thermal Collector KA88/2002 works with the unique WARO-absorber-system. Otherwise than regular collector systems the KA88/2002 works with flat pipes with high selective copper absorber sheets.

The flat pipe guarantees a much bigger contact surface (20 mm) to the absorber sheet and due to this a much faster heat transfer to the fluid in the pipes.

The efficiency rate confirms the advantage of the WARO-technology



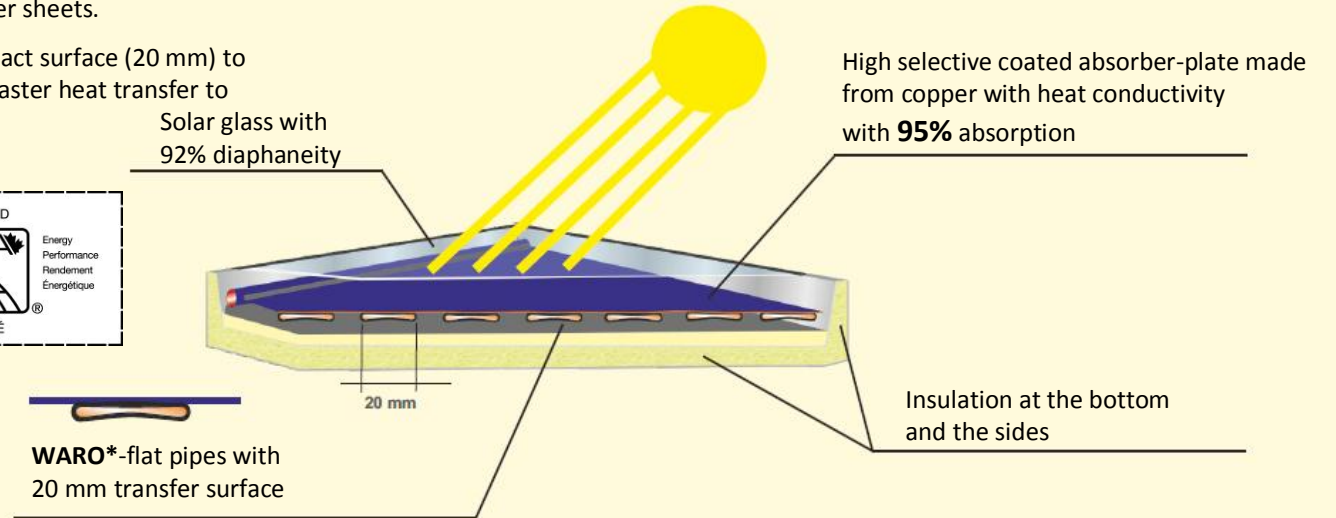
Solarkeymark zertifiziert

Especially on days with short sun and diffuse light this system harvests up to 25% more compared to other systems.

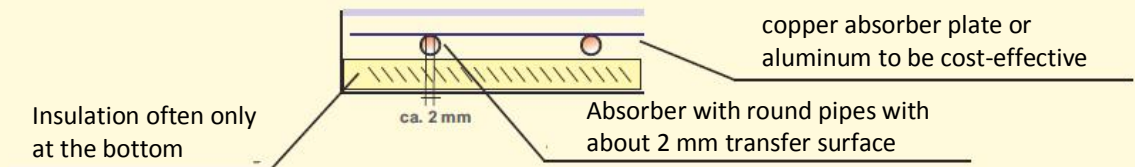
The high quality construction of the Wallnöfer solar thermal collectors guarantees a long lifetime. The bodies are manufactured in aluminum and stainless steel. The solar glass is extreme safe against hail.

The design:

Wallnöfer – solar thermal collector KA88/2002 with patented WARO-flat pipes

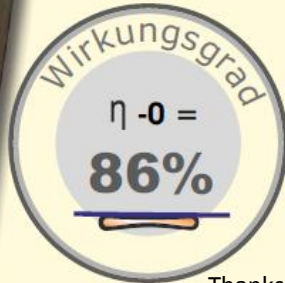


To compare: design from a regular collector system





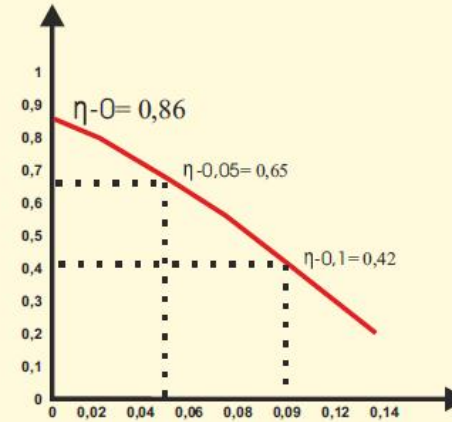
Solarkeymark zertifiziert



Thanks to the patented **WARO**-absorber technology

Best efficiency rates !!

$$\eta-0 = 0,86 \quad \eta-0,05 = 0,65 \quad \eta-0,1 = 0,42$$



Big size 2,5 m² with aluminum body

height	88 mm
width	1050 mm
length	2350 mm
surface	2,51 m ²
absorber surface	2,30 m ²
fluid in absorber	0,6 l/m ²
weight/m ²	16 kg
weight/col	39 kg
operating pressure	2-4 bar
max pressure	8 bar
max temperature	250°C

5 years warranty

Big size 2,5 m² with stainless steel body

height	88 mm
width	1050 mm
length	2350 mm
surface	2,51 m ²
absorber surface	2,30 m ²
fluid in absorber	0,6 l/m ²
weight/m ²	19,45 kg
weight/col	48 kg
operating pressure	2-4 bar
max pressure	8 bar
max temperature	250°C

10 years warranty

Standard size 1,8 m² with stainless steel body

height	88 mm
width	920 mm
length	1940 mm
surface	1,80 m ²
absorber surface	1,65 m ²
fluid in absorber	0,6 l/m ²
weight/m ²	19,45 kg
weight/col	35 kg
operating pressure	2-4 bar
max pressure	8 bar
max temperature	250°C

10 years warranty

Operating tank LOGIX24

The operating tank LOGIX24 is a combi tank which could be connected to several heating sources to support domestic hot water (DHW) and space heating to different heating systems like in-floor or baseboard radiators. DHW is heated with a hygienic running through principle working like a heat exchanger.

The inside solar heat exchanger stratifies the solar energy in the tank by temperature level.

The stratification is a very important point with solar systems because their energy harvests depend on weather conditions.

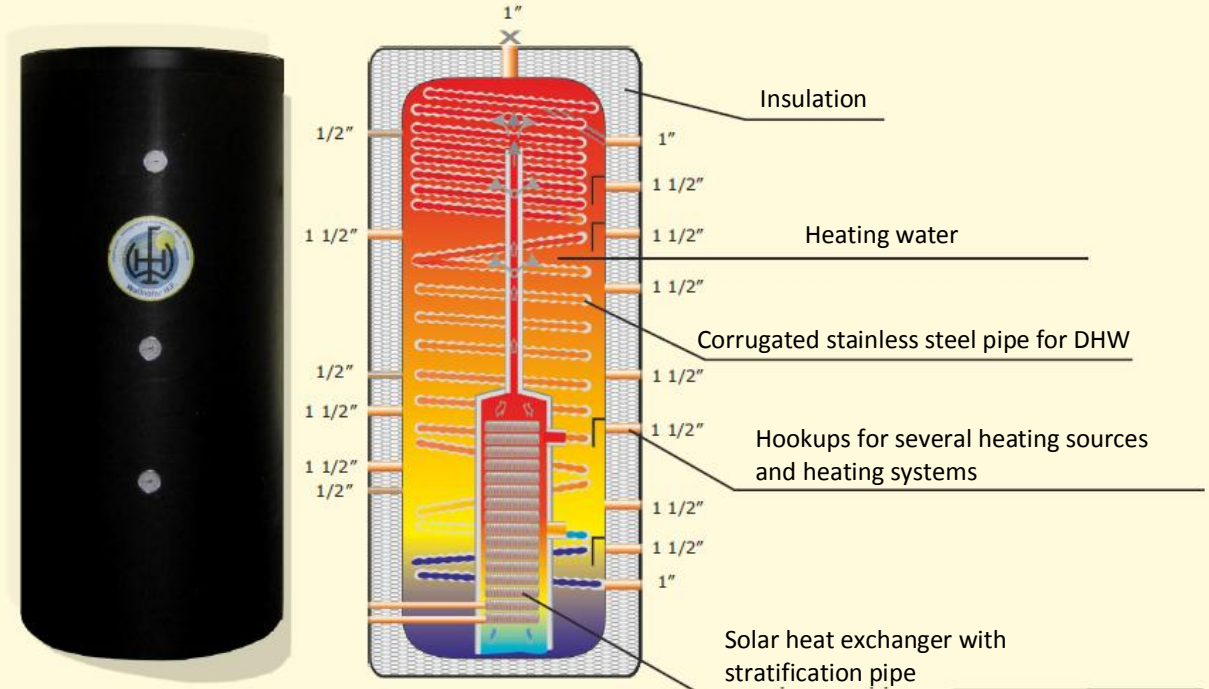
The stratification works only by gravity.

Hot water up, cold water down, simple physics.

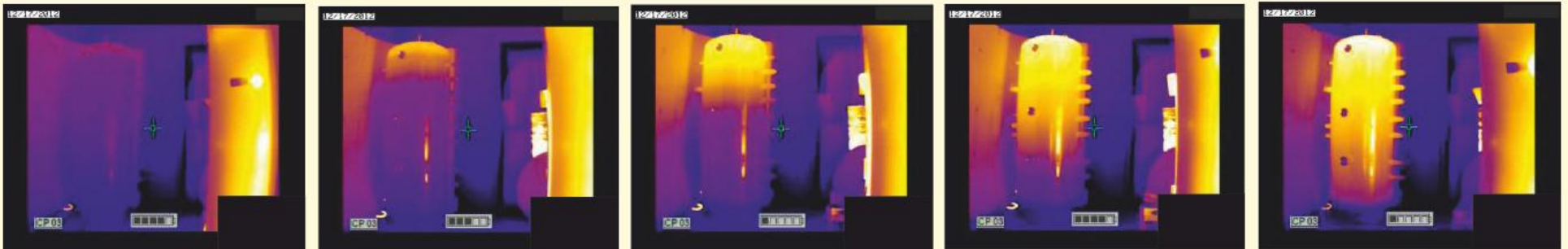
This system heats the tank from the top to the bottom.

The stratification makes sure the solar heat comes to the level where it is needed.

Regular storage systems often use controlling systems, 3-way-valves or additional pumps for stratification which means additional costs and labor.



The stratification made visible by thermal imaging

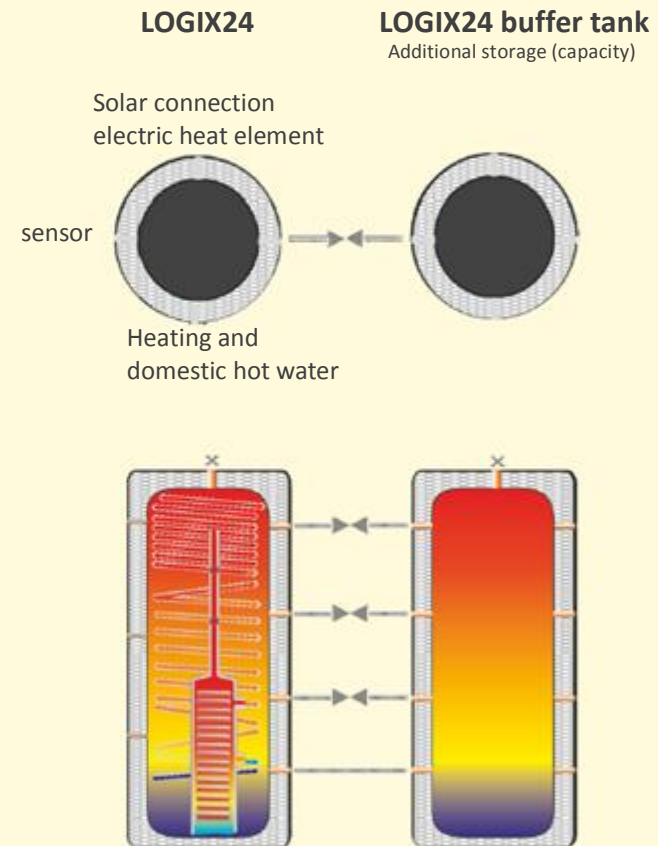


Technical data LOGIX24

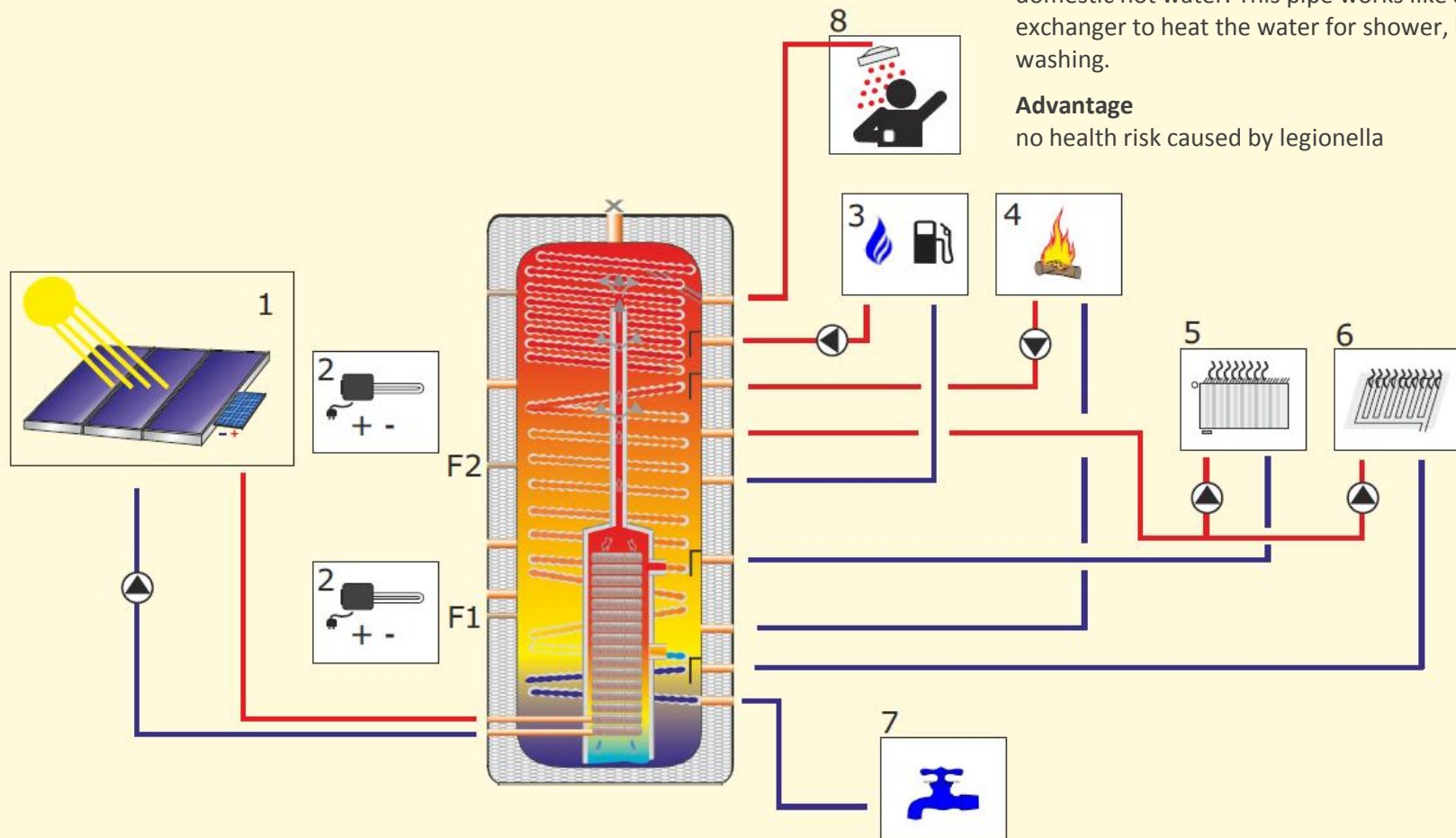
	600	1000	1300
storage capacity (liter)	600	950	1290
width without insulation (mm)	700	790	950
width with insulation (mm)	900	990	1150
height without insulation (mm)	1619	2016	1992
height with insulation (mm)	1700	2100	2072
tilt height (mm)	1670	2090	2090
weight (kg)	140	190	210
DHW support (liter)	410	780	1050
storage temperature 60°C DHW temp. min. 40°C			
DHW coil (m ²)	4,5	7,5	10
solar coil (m ²)	3,9	3,9	3,9
possible buffer tank (liter)	600	1000	1300

Material

storage tank	S235JR
corrugated DHW pipe	stainless steel 316L
proof pressure DHW coil	10 bar / 145 psi
max. operating DHW coil	6 bar / 87 psi
max. operating pressure tank	2,5 bar / 36 psi
insulation	100 mm soft foam, black cover
warranty	5 years



The versatility of LOGIX24



The LOGIX24 uses a corrugated stainless steel pipe for domestic hot water. This pipe works like a heat exchanger to heat the water for shower, bath and washing.

Advantage
no health risk caused by legionella

LOGIX24 stands for more flexibility for here and now and for the future

1 – solar system / 2 – electric heat element / 3 – oil or gas boiler / 4 – Walltherm or biomass / 5 – baseboard radiators
6 – in-floor heating / 7 – domestic cold water in / 8 – domestic hot water out / F1 – sensor solar system / F2 – sensor backup system

Solar systems & Walltherm

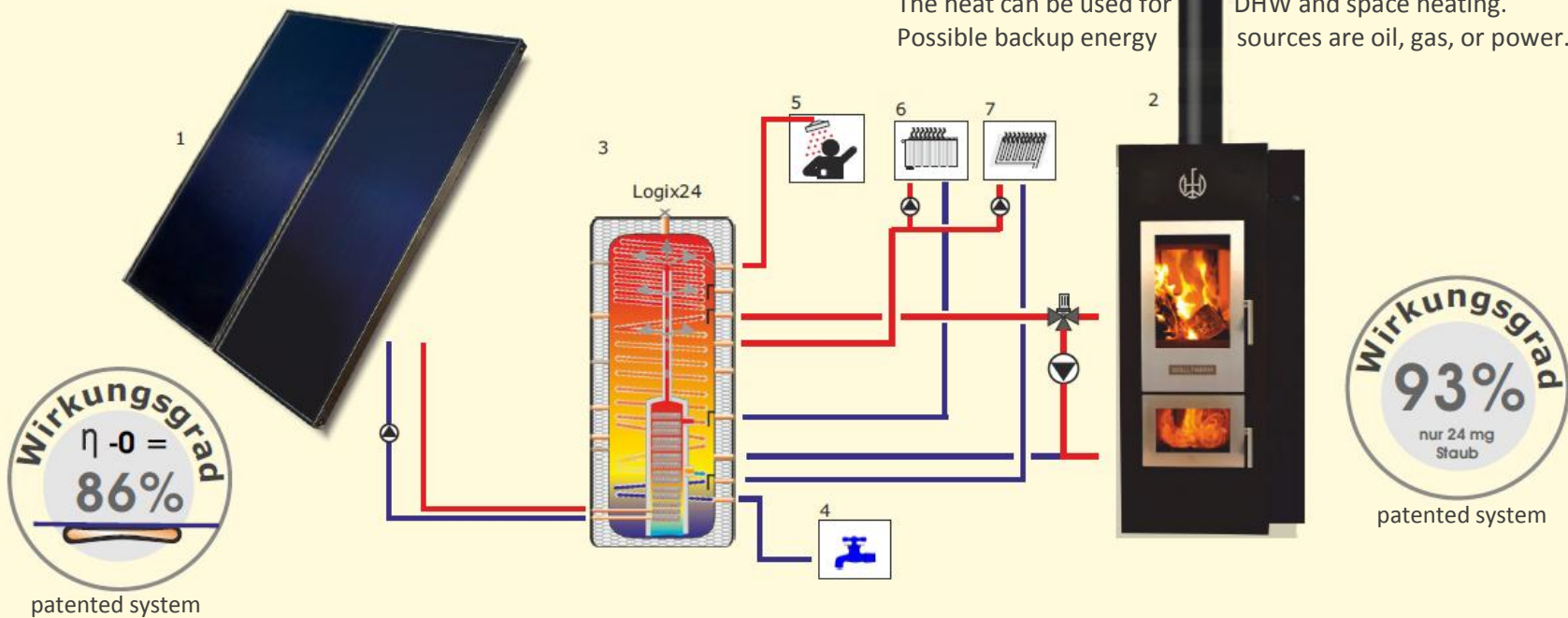
combine wood & sun
which is a great marriage

The function:

The sun will heat your DHW and gives you space heating support at no charge and no emissions

In the cold time of the year and times with less sun the Walltherm high efficient gasifier works for your heating demand.

The heat ratio is 30/70 – 30 % of the heat output rate are to the ambient air and 70% to the water
The heat can be used for DHW and space heating.
Possible backup energy sources are oil, gas, or power.



- 1 solar collector KA88/2002
- 2 Walltherm stove/boiler
- 3 LOGIX24
- 4 domestic cold water in

- 5 domestic hot water out
- 6 baseboard radiators
- 7 in-floor system



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