WIKORA

SolarSpeicherSysteme

Product overview Solar 2018

Flat plate-/Vacuum tube collectors, Solar storage tanks, LiSa und accessories

WIKORA Solar systems

WIKORA SolarSpeicherSysteme

Sunny times ahead

There is certainly no doubt that renewable energies are the technology for the future. In order to take advantage of the inexhaustible source of solar energy, Wikora offers a wide
range of SolarStorageSystems and Solutions.

- **Thermal solar collectors**
- **Solar tanks**
- **Drain-Back-System**
- **System accessories**

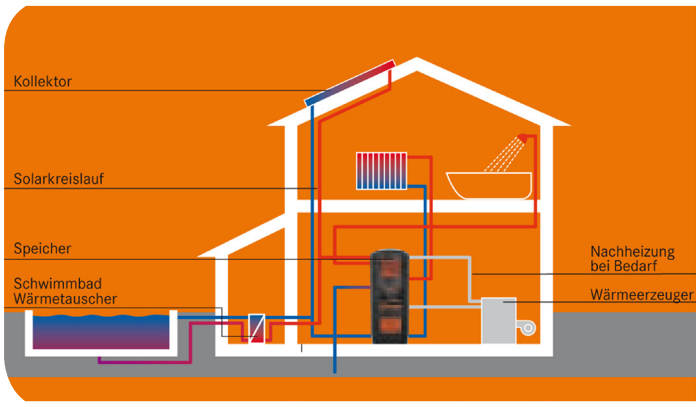
The WIKORA solar collectors are certified with the European quality symbol „Solar Keymark“.

SOLAR-KEYMARK

- For households and large installations
- Maximum system efficiency
- High operational reliability
- Easy to install
- 10 years performance warranty on flat-plate collectors

This is how WIKORA SolarStorageSystems work

- Energy from sunlight is absorbed by the collector and heats the heat transfer fluid.
- The central control unit of the solar heating system – the temperature regulator – measures the temperature in the collector. If the collector temperature exceeds the temperature in the tank, heated heat transfer fluid is circulated through pipes to the storage tank.
- The heat is transferred to the domestic hot water, heating water or swimming pool water via the solar heat exchanger, as required.
- The cooled heat transfer fluid is returned to the collector.



A collector surface area of 4 - 6 m2 is enough to provide up to 60% of the domestic hot water needed by a family of four over a year.

Solar collectors

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Flat plate collector WIKOSUN 2010 and WIKOSUN 2510

The Wikora flat plate collectors feature a powerful and efficient absorber with a highly selective surface, four 18 mm Cu tube connections, as well as all-round mounting rails, enabling fast and easy installation.

- Suitable for roof mounting, as well as flat roof and roof-integrated mounting
- Inclination of 25 - 60°
- Flexible positioning (vertical and horizontal)
- Serial connection of up to 6 collectors
- High operational reliability
- 10 years performance warranty

WIKOSUN 2510

Article	WIKOSUN 2010	WIKOSUN 2510
Collector gross surface	1,98 m2	2,47 m2
Absorber surface	1,87 m2	2,32 m2
Aperture surface	1,87 m2	2,32 m2
Length x width x depth	1740 x 1140 x 75 mm	2170 x 1140 x 75 mm
Weight	32,0 kg	40,0 kg
Peak power	1380 Watt/collector	1750 Watt/collector
Capacity antifreeze	1,15 l	1,33 l
Max. working pressure	10 bar	10 bar
Stagnation temperature DIN 4753-3	179 °C	197 °C

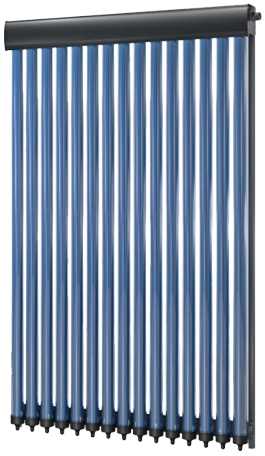
SOLAR-KEYMARK

Geprüft nach EN 12975-2

Vacuum tube collector WIKOSUN HP 2340 / 1240

- Heatpipe for on roof and flat roof mounting
- Increased hail resistance class 3 (Swiss hailstorm)
- Inclination of 5-90°
- Serial connection of 15 to 90 tubes
- High revenues even in low sunlight
- High operational safety
- Easy installation thanks to proven Quick-Snap system

New balcony module WIKOSUN HP 1240



WIKOSUN HP 2340

Article	WIKOSUN HP 2340	WIKOSUN HP1240
Number of tubes	15	15
Collector gross surface	2.34 m2	1,24 m²
Absorber surface	3,59 m²	1,43 m²
Length x width x depth	1964 x 1190 x 133 mm	987 x1190 x 133 mm
Weight	48,0 kg	48,0 kg
Connections	Cu-Rohrstutzen Ø 22 mm	Cu-Rohrstutzen Ø 22 mm
Efficiency	η0 = 74,55 %	η0 = %
Capacity antifreeze	1,15 l	0,84 l
Max. working / testing pressure	10 bar	10 bar
Stagnation temperature	227 °C	227 °C

WIKOSUN HP 1240

Drain-Back-System WIKOSUN LiSa (Liquid Safe)

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WIKOSUN LiSa 55-12 / 121-12

- Patented solar system storage
- Compact system for self-draining solar systems
- Ensures the efficiency of the solar installation
- Permanently prevents collector yield problems
  Stagnation, solar fluid and air in the solar circuit
- Available in different sizes
- Can be combined with all new and existing service water and heating solar thermal systems from WIKORA
- Separation between solar circuit and heat tank
- Removable EPS / fleece insulation with PS jacket, in white color RAL 9016)

Patented novelty

Article		WIKOSUN LiSa 55-12	WIKOSUN LiSa 121-12
Active drain volume		55	121
Volume antifreeze WIK-PE 20		40	80
Max. working temperature	°C	95	95
Max. working pressure	bar	6	6
Insulation	mm	60	60
Diameter incl. insulation	mm	520	720
Diameter tank	mm	400	600
Height return flat sealing from the store	mm	460	460
Height flow flat sealing from the store	mm	1065	1065
Carrying out safety valve	mm	950	950
Height storage tank	mm	1900	1900
Tilting dimension	mm	1970	2026
Connection to the 2nd LiSa (below)	mm	1130	1130
Connection to the 2nd LiSa (above)	mm	1705	1705
Solar flow (hot)	mm	1825	1825
Solar return (cold)	mm	1825	1825
Weight (without glycol)	kg	61	80
Max. Collector area at installation height 8m*	m^2	30	30
Max. Collector surface at installation height 12m*	m^2	14	14
Max. Collector surface at installation height 14m*	m^2	40	40
Max. Collector surface at installation height 20m*	m^2	20	20

WIKOSUN LiSa

*Depending on content and pressure loss of piping, collectors and heat exchangers

LiSa can be used to replace the following products:

- **Solar pump group**
- **Solar controller**
- **Solar expansion vessel**

Solar storage zanks and accessories

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The heart of your solar installation

WIKORA solar storage tanks are especially designed for use in combination with solar. All tanks are equipped with large heat exchanger areas and can optionally be upgraded with an electric heating element or an electric heating flange respectively.

Storage tanks	Capacity	Use		Application				
		DHW	Heating	Solar	HP	DH	Oil / Gas	Wood, Pellets
WBO DUO	200-3000 l	•		•		•	•	•
WBO WP/SOL	300-1500 l	•		•	•	•	•	•
WIKOSOL-1/-2	600-2000 l	•	•	•		•	•	•
WPKR H Twin	600-1000 l	•	•	•	•	•	•	•
WPKR Twin	600-1000 l	•	•	•		•	•	•
WPKR	750-1000 l	•	•	•		•	•	•
WPR-FW	800-1000 l	•	•	•		•	•	•
WPR	600-3000 l		•	•	•	•	•	•
WPRR	600-3000 l		•	•	•	•	•	•

- Specially designed for solar heating systems
- High flexibility
- Easy handling
- Particularly large solar heat exchangers
- 10 years warranty on hygienic tanks

Complete solutions

The WIKORA product range is completed with the appropriate solar accessories. These include pumps, regulators, solar stations, expansion vessels and solar liquid in order to create complete and perfectly coordinated systems.

Solar planning data sheet

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Please complete carefully. Incompletely submitted data sheets cannot be processed. Thank you.

Contact Data

Name

Street

Postal Code, City

Phone Mobile

Fax E-Mail

Project address **Distributor**

1. Project

☐ Single-family home

☐ Multi-family house with _____ appartments

☐ at planning stage ☐ new construction ☐ old building

2. Solar requirement

☐ DHW

☐ Space heating

☐ Swimming pool heating

3. Estimated hot water consumption

Number of perons: _____
(in the case of multi-family houses please indicate total number)

Etimated water consumption (45 °C) per person per day:

☐ Low ca. 30 litres

☐ Medium ca. 50 litres

☐ High ca. 80 litres

4. Installed / planned system details

DHW storage tank:

☐ Yes, capacity _____ litre ☐ No

☐ Standard tank ☐ In the boiler

☐ Combi buffer tank ☐ Buffer tank

☐ Hygienic tank / Instantaneous DHW station

Height of tank installation room: _____ m

Minimale door width: _____ m (please pay attention to transport)

Heating type:

☐ Oil ☐ Gas ☐ Electrical ☐ District heating ☐ Heat pump

☐ Other _____

Brand: _____ Year: _____ Type: _____

Performance: _____

Fuel consumption approx. _____ litres/Year, m^3/Year, kWH/Year

5. Space heating support only:

(Recommended for surface radiator heaters or low return temperature heating flow/return as in anderfloor heating systems)

Floor area: _____ m^2

Aux boiler flow/return: _____ / _____ °C

Heating requirement: _____ W/m^2

Solar planning data sheet

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6. Swimming pool heating

Dimensions (Length x width x depth) _____

☐ Indoor ☐ Outdoor

☐ Open situation ☐ Protected situation

Desired water temperature _____ °C

Room temperature: _____ °C

Aux heating available by boiler ☐ Yes ☐ No

In pool cover in use ☐ Yes ☐ No

Expected usage ☐ May - August ☐ April - September

☐ All season (indoor)

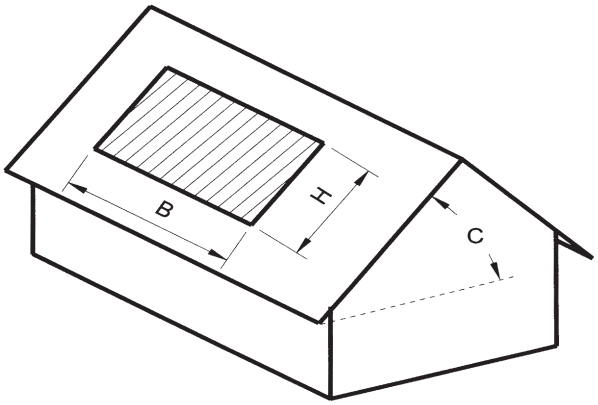
Bather per day: _____

7. Construction conditions

Useful roof length H: _____ m

Useful roof width B: _____ m

Roof angle C: _____ °



8. Mounting of the collectors

☐ Roof mounting

☐ Free standing (Flat roof)

☐ Roof-integrated ☐ Other _____

9. Alignment of the collectors

☐ East

☐ South

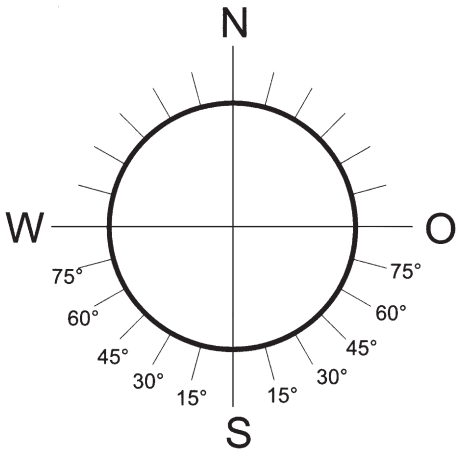
☐ West

Are the collectors shadowed during the day?

☐ Yes ☐ No

from _____ h

until _____ h



10. Roof coverage

☐ Tile ☐ Slate, clapboard

☐ Other: _____

11. Pipelines

Do the pipelines exist already to the collector from the tank ?

☐ Yes ☐ Copper, _____ ☐ Steel, _____

☐ No

Distance of the pipelines tank - collector:

ca. _____ m

12. Desired date of implementation:

For any further information about our company and products, please go to
www.wikora.de

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