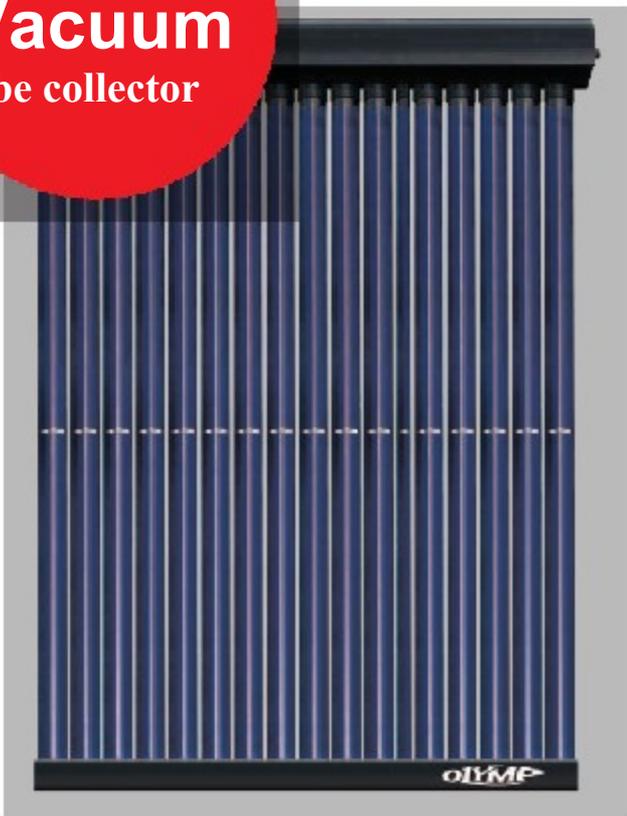




SunStar

High Energy Solar Tubes

**Full
Vacuum**
tube collector



OLYMP

Heating systems

Olymp SunStar

the sun does not charge

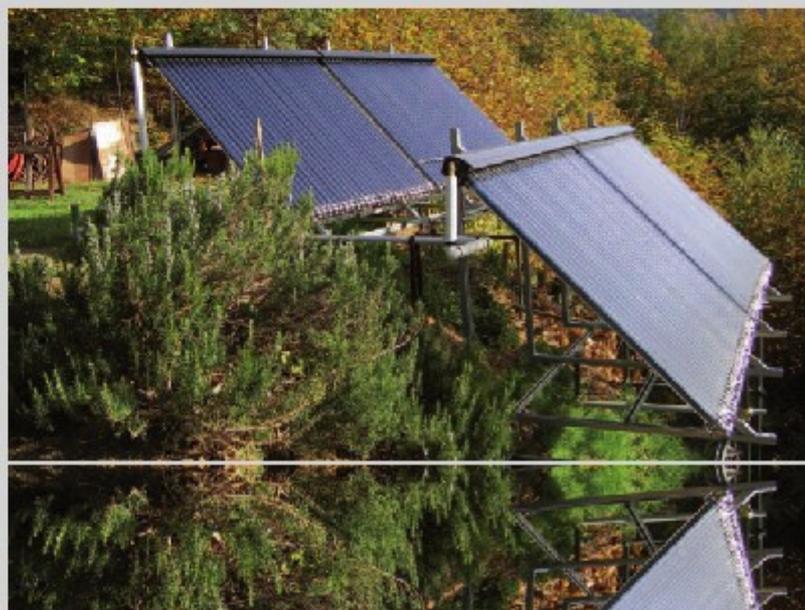
The investment in an Olymp high efficiency solar system provides **free solar energy over many years with a constant performance level.**

The **full vacuum insulation** ensures good performance during the lifespan of the system. The vacuum is protected against dissipation and the thick hail resistant borosilicate glass protects over the years.

Benefits of Olymp SunStar Solar tubes

- ☞ high annual efficiency
- ☞ Excellent winter performance
- ☞ quick kick off
- ☞ long life with proven reliability
- ☞ tubes are equipped with overheat protection and can be exposed without damage when out of operation
- ☞ borosilicate glass with good resistance against hail
- ☞ high efficiency vacuum insulation

**MORE
SOLAR GAIN
for the
SAME
SURFACE
AREA**



Full vacuum tube collector

good performance also in winter

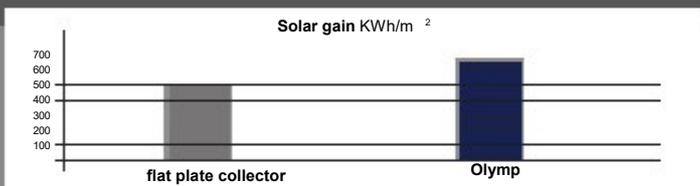
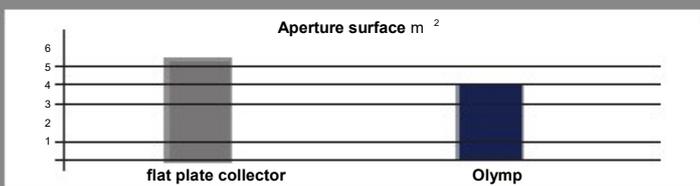
The full vacuum technique gives the best performance in winter. In poor weather conditions (low radiation) the fast reaction of the collector ensures better gain than with flat panels or partial vacuum collectors.

Safe against hail and storms. The **construction** of the tubes and panels with **air slots** between the tubes provides **less wind resistance** in combination with the **stable mounting bracketry**.

The hail resistance is based on the **thick borosilicate glass** construction in combination with the **round tubular surfaces** which divert the hail.

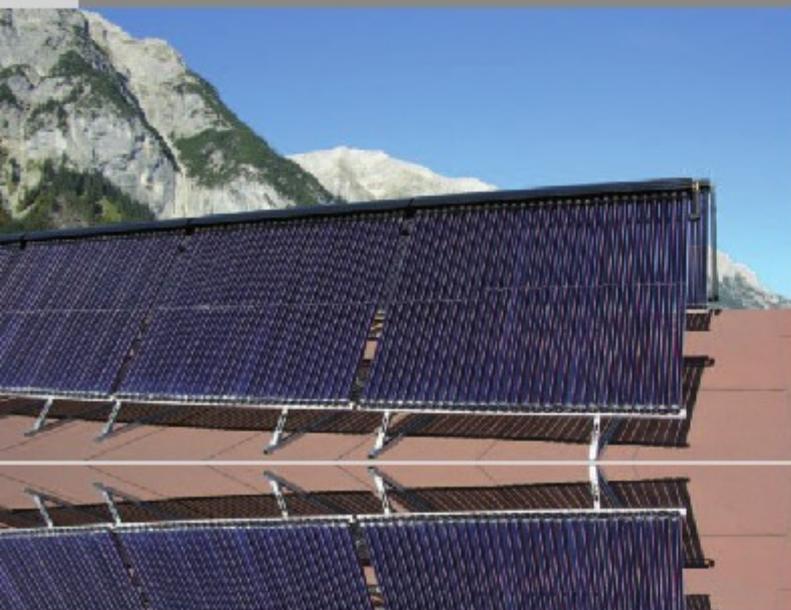
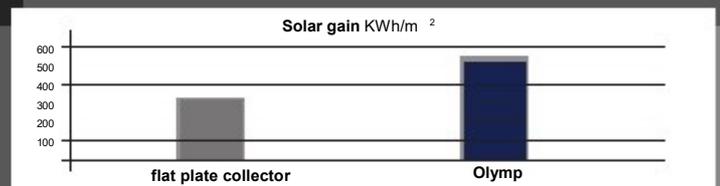
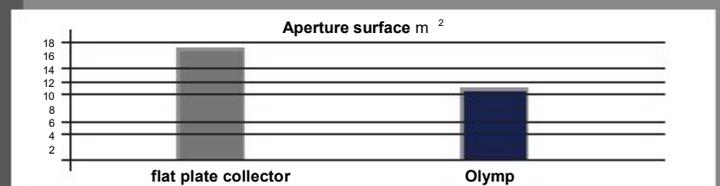
Comparison 1 Summer solar DHW

DHW:	60% solar fraction
Tank:	450 L
Collector tilt:	45°
Daily energy consumption (4 - 6 Pers):	10 KWh
Annual energy consumption:	4,200 KWh



Comparison 2 DHW and heating for a private house

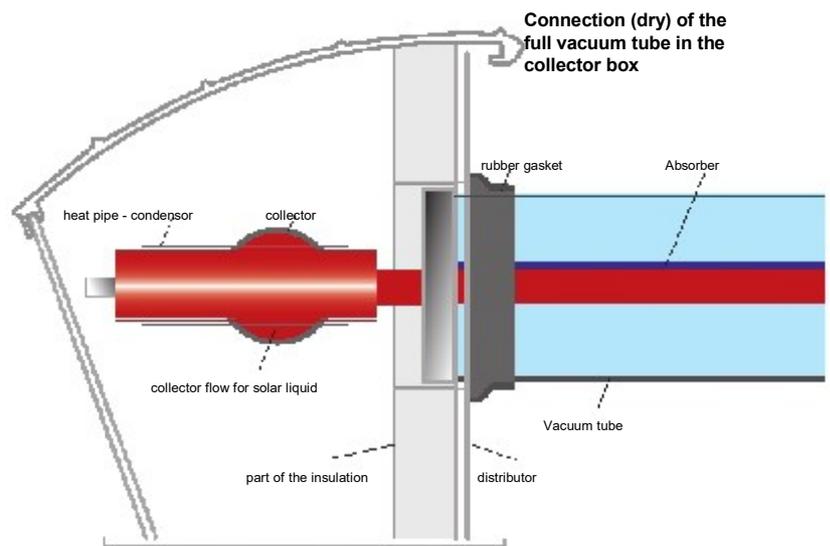
DHW and heating:	25% solar fraction
Buffer:	1,200 L
Collector tilt:	45°
Daily energy consumption (4- 6 Pers):	10 KWh (well insulated 200m)
Heating:	5.8 KW at -8° C
Heating:	12,140 KWh/year
Total:	16,340 KWh/year



The "Heatpipe"

description of the system

The SunStar solar tube system is a closed heat pipe system. The collector is installed and connected to the internal building pipework. The SunStar solar tubes are then connected to the collector. The tubes are insulated by a vacuum and the absorber surface goes all around the inside. This absorber surface transfers the heat to a water filled pipe and the water evaporates because of this energy. The steam rises into the collector and condenses. The energy is then transferred to the piping.



Reliable and efficient

Olymp offers a well proven and reliable system with the SunStar full vacuum tube. The energy is collected efficiently and distributed into the building's system.

Olymp offers an efficient system for hot water services, heating and solar cooling. Safe against overheating a long lasting solution

Simple installation

- fast and secure mounting with tight fitting plugs
- lightweight high strength components
- on roof installation avoids leaks in the roof

Type	Sunstar 1670	Sunstar 2470	Sunstar DF100-6
Gross surface area	2.81 m ²	4.147 m ²	1.58 m ²
Absorber surface	2.09 m ²	3.144 m ²	1.11 m ²
Number of tubes	16	24	6
Weight (empty)	67 kg	78 kg	40 kg
Dimensions H / W / D mm	2285/1230/134	2285/1815/284	2206 / 720 / 142
Glass	Borosilicate Hardened	Borosilicate Hardened	Borosilicate Hardened
Full vacuum (long life)	< 10 ⁻³ bar	< 10 ⁻³ bar	< 10 ⁻³ bar
Glass diameter Ø	70 mm	70 mm	100 mm

Your Olymp Specialist



OLYMP

Heating systems



UK Sales: Olymp Werk GmbH c/o Grouped Renewables Limited | PO Box 7180 | Montrose | DD10 0wX
T +44 (0)1561 362227 | info@olympuk.co.uk | www.olympuk.co.uk

OLYMP Werk GmbH | Olympstr. 10 | 6430 Ötztal-Bahnhof | Österreich | T +43 (0)5266 8910 | office@olymp.at | www.olymp.at