

Solar heat transfer system Solex – HF Upgrade your hydronic heating system with solar thermal!

The compact and completely preassambled solar water heating system Solex for high flow systems is completely insulated. It is equipped with a generously dimensioned stainless steel flat plate heat exchanger, prewired and preset controller. All those advantages allow for a simple and quick installation as well as secure commissioning.

Your advantages:

All connections 3/4" female

With pre-assembled steel wall bracket can be mounted easily onto the wall

Fully assembled with flat sealing union connections

Full port ball valves

Flow check valves inside the solar loop and inside the secondary loop, manual opener, inside the solar loop with 400 mm WC, especially for solar systems, secondary with 200 mm WC, prevent any gravity circulations

Both loops with large ball valve handles

easy handling, visible closing position, with integrated full metal thermometer 0-160 °C / 32-320 °F, can be pulled off, with thermowell integrated inside the ball valve

With solar circulation pumps by Wilo, three speed pre-assembled; aligned to the performance of the water heating system, pumps can be completely isolatad- no draining necessary during pump service

Primary and secondary loop with flowmeter for easy adjustment of the flow rate

Integrated flushing and filling valves

three drain valves permit filling and flushing the primary circuit as well as only the heat exchanger. On the secondary side automatic airvent at the highest point of the heat exchanger.



Secondary loop return Secondary loop supply

basic conditions: global radiation = 800 W/m²; efficiency $\Delta_{0.05} = 0,625$

For systems in high flow mode [20 - 30 l/(m² solar panels x h)]

Heat exchanger Type 1P with 20 plates	operational mode 20 l/(m²*h) 30 l/(m²*h)	surface of solar panels 30 m ² 20 m ²	performance 15 kW 10 kW
Heat exchanger Type 1P with 30 plates	operational mode 20 l/(m²*h) 30 l/(m²*h)	surface of solar panels 50 m ² 30 m ²	performance 25 kW 15 kW

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Solar safety assembly

pressure relief valve 6 bar / 87 psi, high-temperature manometer 0-6 bar / 0-90 psi with valve, flat sealing connection for expansion tank **secondary side fitted with 3/4" pressure relief valve connection**

Compact function-optimised design insulation

made of durable elastic EPP; **100% insulation of the fittings** – minimized heat loss

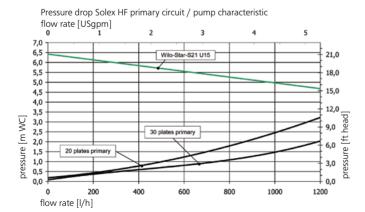
Highly efficient stainless steel heat exchanger

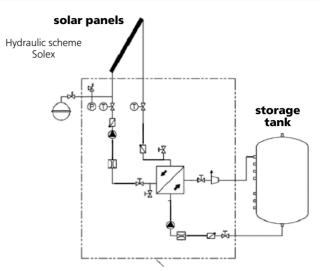
two sizes for small and larger installations, designed for high flow operation. Generously dimensioned, for transmitting high performances high ΔT , completely integrated into the insulation.

Integrated solar controller

completely pre-assembled, preset and prewired, assures quick assembly – only the sensors for the storage tank and for the solar panels have to be connected branched. The preset control system makes commissioning simple and clean.

TECHNICAL DA	TA Solex - HF	
Dimension		DN 20 - ³ ⁄4"
Material	fittings	brass
	gaskets	Klingersil / EPDM
	insulation	EPP
	check valves	brass
	heat exchanger	plates + sockets: 1.4400
		solder: 99,99% copper
Techn. data	max. pressure	10 bar / 145 psi
	max. temperature	130 °C / 266 °F,
		temp. 160 °C, 320 °F
Equipment	check valves	400 mm WC primary
		200 mm WC secondary
	pressure relief valve	6 bar / 87 psi, for thermal solar
-	flowmeters	0.5-3.5 USgpm
	manometer	0-6 bar /0-90 psi, resistant to high
		temperatures
-	temperature gauges	32-320 °F
Dimensions	connections	3⁄4" female
	over-all width	560 mm / 22 ¹ / ₃₂ "
	over-all height	880 mm / 34 ²¹ / ₃₂ "

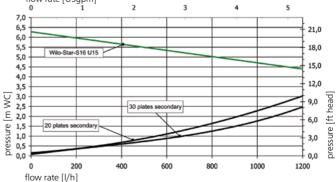




delivery



Pressure drop Solex HF secondary circuit / pump characteristic flow rate [USgpm]



Heat exchanger	Pump version	ltem nº
Type 1P 20 plates	primary: Wilo Star S 21 U-15; secondary: Wilo Star S 16 U-15	6091822 US 01
Type 1P 30 plates	primary: Wilo Star S 21 U-15; secondary: Wilo Star S 16 U-15	6091832 US 01