



Solar-Divicon Pumping and Heat Transfer Stations for Closed Loop Solar Systems



Solar-Divicon-HX

Solar-Divicon

Ensure maximum system performance and reliability with a Solar-Divicon Station from Viessmann. Choose from a full range of Stations to satisfy a variety of solar applications.

- Essential link between high-performance solar collectors and the storage tank
- Two models available **New!**
- Pre-assembled with high-quality brass fittings and essential safety devices
- Leak tested and fully-insulated
- Wall-mounted and compact

Solar-Divicon-HX **New!**

Pumping and heat transfer station for a closed loop solar circuit. Incorporates a double-wall heat exchanger for transferring heat to the domestic hot water (DHW) storage tank.

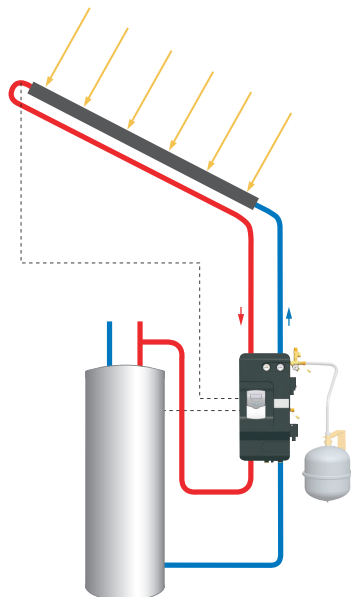
- Large double wall stainless steel heat exchanger with visible leak detection
- Available in two sizes
- Pre-assembled and wired
- Includes 3-speed solar loop pump, 3-speed DHW pump, double-wall heat exchanger and solar controller

Solar-Divicon

Pumping station for a closed loop solar circuit connected to a solar tank with an internal coil heat exchanger.

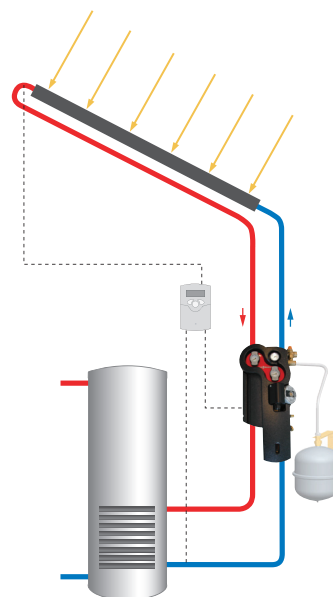
- Suitable for residential and commercial flow requirements
- Available in two sizes
- Pre-assembled and wired
- Includes 3-speed solar loop pump and 3-speed DHW pump
- Optional mounting bracket available for SCU solar controls

Typical System Layouts



Solar-Divicon-HX

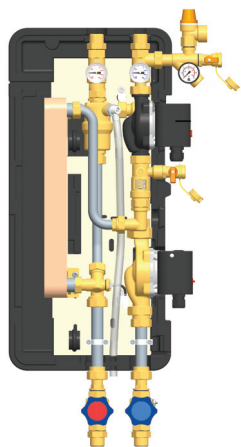
- Solar heat is transferred to solar tank via integrated double wall heat exchanger
- Integrated solar control operates solar pump and DHW pump
- Uses any standard DHW storage tank
- DHW storage tank with upper electric element creates a "one tank" solar system



Solar-Divicon

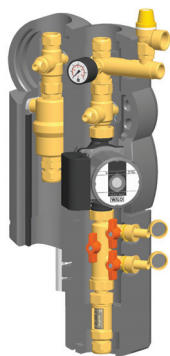
- Solar heat is transferred to internal heat exchanger coil of solar tank
- External solar control operates solar pump
- Uses Vitocell-V/B DHW storage tank complete with internal heat exchanger coil
- Dual coil tank complete with boiler back-up provide a "one tank" solar system

Technical Data



Solar-Divicon-HX		DN 20	DN 25
Solar circulation pump (Wilo model)		STAR S 21 U 15	STAR S 30 U 25
DHW circulation pump (Wilo model)		STAR S 21 BU	STAR S 21 BU
Flow meter (setting range)	USG/min	0.1 to 4.0	0.1 to 6.0
	ltr/min	1 to 15	1 to 23
Max. solar loop pressure	psig/bar	87 / 6	87 / 6
Max. DHW tank loop pressure	psig/bar	150 / 10	150 / 10
Max. operating temperature	Degrees F/C	248 / 120	248 / 120
Solar and DHW circuit connections	inches	¾	¾
Max. number of Vitosol-F collectors*		8	18
Max. number of Vitosol-T tubes*		150	270

* Actual number of collectors will depend on system layout, type of collector, length of piping run and size of pipe used.



Solar-Divicon		DN 20	DN 25
Solar circulation pump (Wilo Model)		STAR S 16 U 15	STAR S 30 U 25
Flow meter (setting range)	USG/min	0.5 to 5	1 to 10
	ltr/min	1 to 20	5 to 40
Max. pressure	psig/bar	87 / 6	87 / 6
Max. operating temperature	Degrees F/C	248 / 120	248 / 120
Solar circuit connections	inches	½	¾
Max. number of Vitosol-F collectors*		12	25
Max. number of Vitosol-T tubes*		180	360

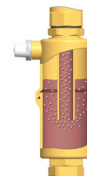
* Actual number of collectors will depend on system layout, type of collector, length of piping run and size of pipe used.

Common Components of Solar-Divicon-HX and Solar-Divicon

- Supply and return lines contain solar ball valves equipped with spring-charged check valves, and 0-320°F temperature gauges
- Air-scoop for manual bleeding of the heat transfer medium
- Solar safety device with high temperature 0-90 psig pressure gauge, 87 psig solar pressure relief valve and ¾" expansion tank connection
- 3-speed solar pump for wide range of flow rates
- Flow meter for displaying and setting the flow rate
- Flush and fill connection ports with isolation valves



Ball Valves equipped with Check Valves



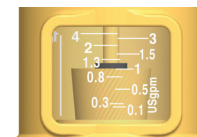
Air Scoop



Solar Safety Device



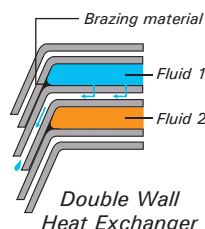
3-speed Solar Pump



Flow Meter

Unique Components of Solar-Divicon-HX

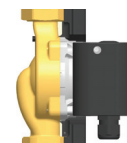
- High efficiency double wall stainless steel heat exchanger with visible leak detection
- Integrated pre-wired control with 4 sensors and 2 relay outputs
- 3-speed bronze pump for the secondary DHW tank loop



Double Wall Heat Exchanger



SCU 123 Control



3-speed Bronze DHW Pump

