

Heating with Solar

VITOSOL® DHW SOLAR PACK

VIESMANN

climate of innovation



Efficient use of the Sun's energy for domestic hot water heating made easy with the Viessmann DHW Solar Pack

Domestic hot water heating as a complete pack

With the complete Solar Pack from Viessmann, it couldn't be easier to make efficient use of free Solar energy. The DHW Solar Pack consists of two Vitosol 200-F flat-plate collectors, a dual mode hot water tank Vitocell 100-W, a factory-mounted solar pumping station, and associated system components.

The Solar Pack is available in two versions and is especially well-suited for efficient DHW heating in residential applications for new construction or retrofit.

Perfectly matched system components for high efficiency

In terms of size, output and price, the DHW Solar Pack is designed to meet the needs of single-family homes. This provides for an environmentally sound, economical domestic hot water heating solution.

Straightforward, fast installation

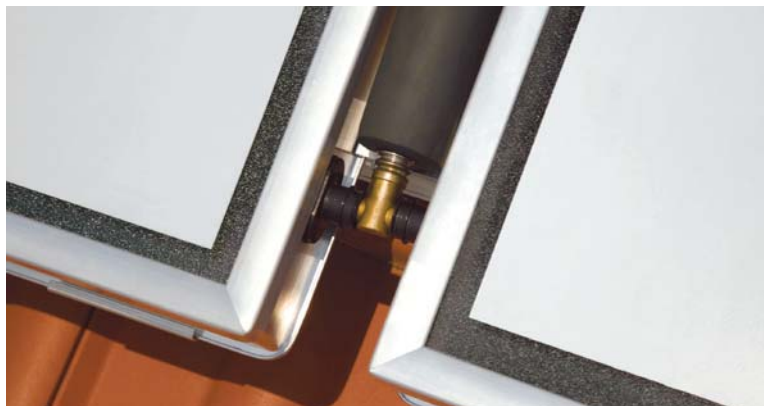
All components are ideally matched, making installation extremely simple and fast. No tools are required for linking the two collectors. You benefit not only from a reduced system outlay but also a quicker installation.

On the dual mode hot water tank, the factory-mounted Solar-Divicon includes the pre-wired solar control unit for the solar circuit, 3 speed solar circuit pump, flow meter, air separator, fill and drain assembly pressure gage and relief valve. Everything needed for the solar circuit with no assembly required. Highly efficient all-round thermal insulation reduces heat losses from the hot water tank and the pumping station.



*Vitocell 100-W, CVSA with backup electric element

* Product may not be exactly as illustrated



The revolutionary plug-in system: Tee connectors with fitted and insulated Flex connection hoses enable a quick installation without tools



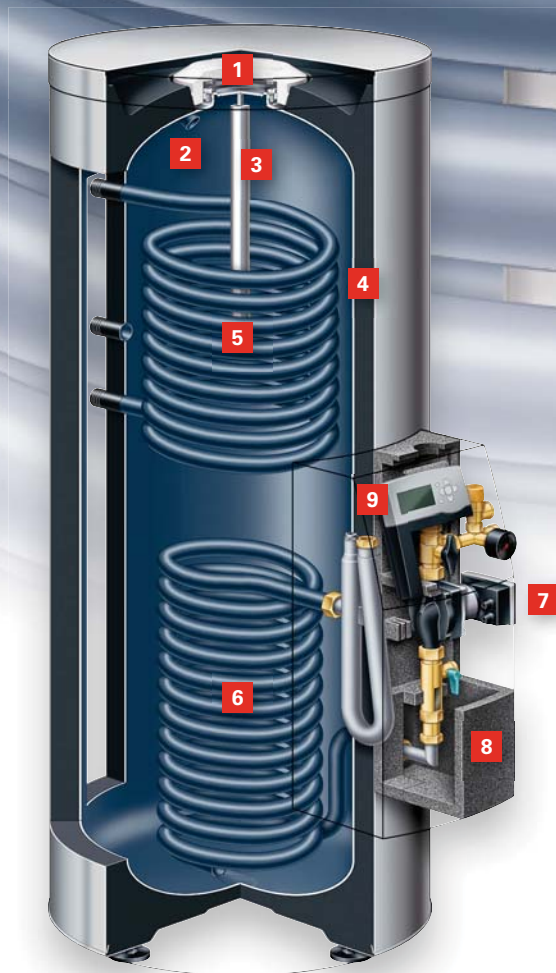
Site and secure the first collector



Insert both tee connectors



Push second collector into the connectors



Vitocell 100-W, CVBA

- 1** Inspection and cleaning opening
- 2** Steel water tank protected from corrosion by Ceraprotect enameling
- 3** Magnesium anode
- 4** Highly effective all-round thermal insulation
- 5** Upper indirect coil – for reheating by a boiler, or transfer of heat (CVBA only)
- 6** Lower indirect coil – for connecting the solar collectors
- 7** Solar circuit pump
- 8** Solar-Divicon
- 9** Solar control unit



Front

Dual mode hot water tank Vitocell 100-W including factory-mounted Solar-Divicon

Behind

Flat-plate collectors Vitosol 200-F (type SVK)

Take advantage of these benefits

- Low-energy costs resulting from solar DHW heating
- Standardized Solar Pack for DHW heating with perfectly matching components for straightforward planning and ordering
- Two versions available to meet different project demands
- Dual mode hot water tank, fully equipped for fast and easy connection to the solar thermal system and the boiler system
- Auxiliary heating provided by top coil connected to boiler (CVBA version), or by 4.5 kW electric element (CVSA version)
- Steel hot water tank protected from corrosion with Ceraprotect enameling
- Quick and easy installation – fill, air-vent, and shut-off valves plus a solar control unit are integrated into the Solar-Divicon and factory-fitted to the hot water tank
- Additional cathodic protection by means of a magnesium anode
- Spatially optimized flat-plate collectors with highly selective absorber coating
- Easy collector mounting with sloped roof mounting hardware
- Collector fitting installation without the need for tools (plug-in system)
- Minimal mechanical room space requirement thanks to component integration
- Expansion tank (18 L / 4.7 gal) mounts directly to solar tank and connects to Solar-Divicon with flexible piping

Technical Data



Single collector Vitosol 200-F
(type SVK)

| Vitosol 200-F single collector | Type | SVK |
|--------------------------------|-----------------------------------|-------------|
| Absorber area | ft ² (m ²) | 21.6 (2.01) |
| Gross area | ft ² (m ²) | 23.5 (2.18) |
| Aperture area | ft ² (m ²) | 21.7 (2.02) |
| Dimensions | | |
| Width | inch (mm) | 41.6 (1056) |
| Height | inch (mm) | 81.3 (2066) |
| Depth | inch (mm) | 2.8 (73) |
| Weight | lbs (kg) | 81.6 (37) |



Vitocell 100-W with Solar-Divicon

| Vitocell 100-W | Type | CVBA | CVSA |
|------------------------------------|-----------|-------------|-------------------------|
| Hot water tank capacity | gal (L) | 66 (250) | 69 (260) |
| Number of coils | | 2 | 1 |
| Dimensions | | | |
| Diameter | inch (mm) | 24.8 (631) | 25.6 (650) |
| Height | inch (mm) | 58.6 (1489) | 58.6 (1489) |
| Weight (with Solar-Divicon) | lbs (kg) | 273.4 (124) | 275.6 (125) |
| Auxiliary heating | | Top coil | 4.5 kW Electric element |

| | | |
|------------------------------|------------|----------------|
| Solar-Divicon | | |
| Solar pump | | Grundfos 15-68 |
| Solar control | | Deltasol - BX |
| Flowmeter range | gpm (Lpm) | 0.5 - 4 (2-15) |
| Pressure relief valve | psig (bar) | 87 (6) |