DHW cylinders for solar thermal systems
► See Register 10

Viessmann's integrated range of solutions

Value added services

Digital services

Connectivity and platforms

Products & systems

VITOSOL 300-TM

VITOSOL 200-FM

VITOSOL 141-FM

9

Solar thermal
Methods of fixing

Types of installation/ fixing systems	Collector type	
	Vertical	**Horizontal**
Above roof installation		
- With rafter hooks for standard roof tile cover	Vitosol 200-FM, type SV2F (Vitosol 141-FM) Vitosol 300-TM, type SP3C	Vitosol 200-FM, type SH2F Vitosol 300-TM, type SP3C
- With rafter flange for plain tile and slate roof cover		
Balcony and façade installation		
- Façade/balcony	Vitosol 300-TM, type SP3C	
- Façade, on collector supports		Vitosol 200-FM, type SH2F
Flat roof installation		
- On collector supports with variable installation angle	Vitosol 200-FM, type SV2F Vitosol 300-TM, type SP3C	Vitosol 200-FM, type SH2F
- On collector supports with fixed installation angle	Vitosol 200-FM, type SV2F Vitosol 300-TM, type SP3C	Vitosol 200-FM, type SH2F
- Horizontal	Vitosol 300-TM, type SP3C	

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VITOSOL 141-FM

Solar package for heating DHW
with solar energy, with dual mode DHW cylinder, incl. Solar-Divicon,
solar control unit, solar collectors and solar components
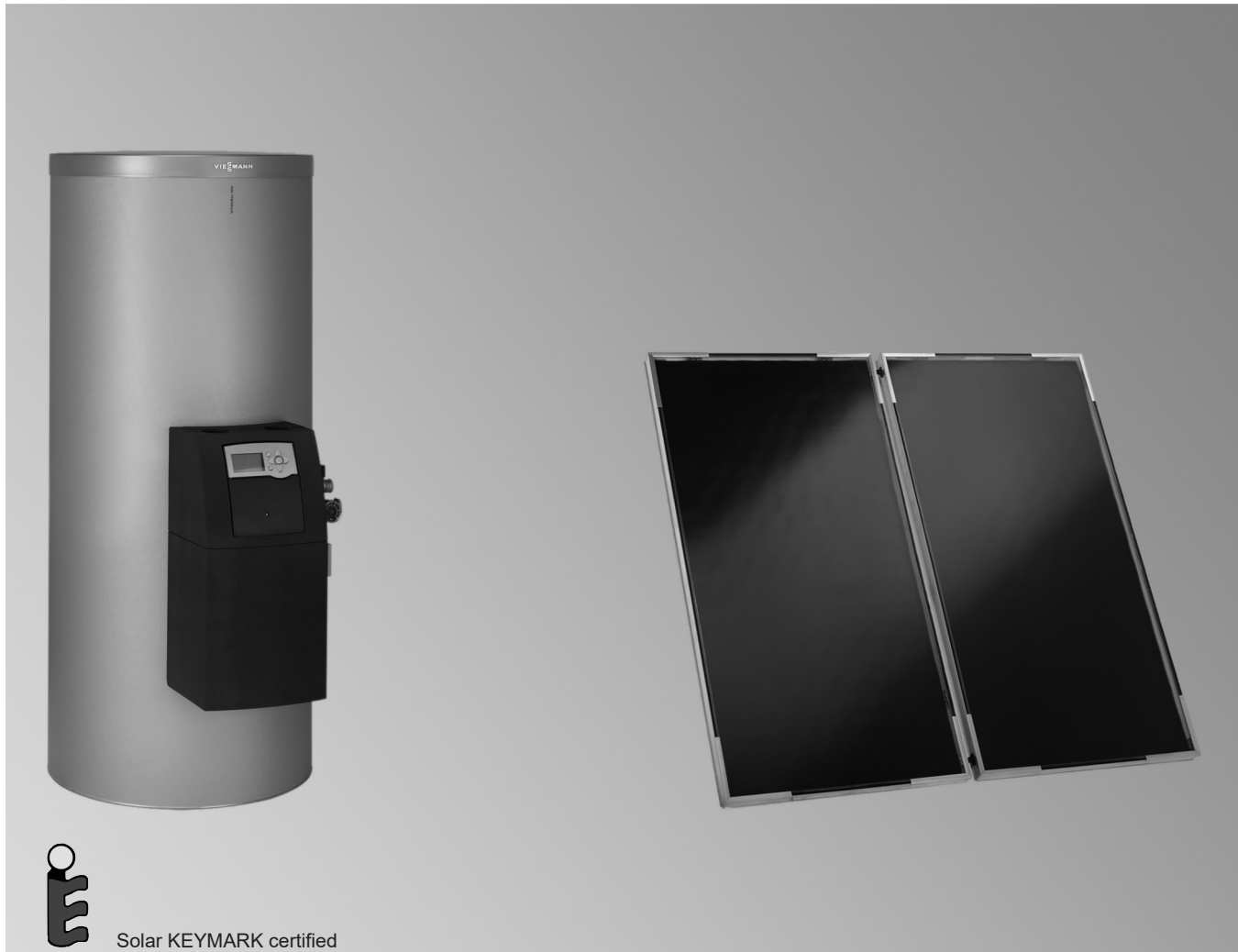
Solar KEYMARK certified

Vitosol 141-FM

Vitocell 100-B/-W, type CVBA
Floorstanding steel DHW cylinder with Ceraprotect enamel coating and two indirect coils, for heating by solar collectors and reheating by a boiler, incl. prefitted Solar-Divicon with electronics module, SDIO/SM1A or Vitosolic 100 type SD1.

Vitosol 100-FM, type SVKF/SVKG
Flat-plate collectors optimised for the application area with ThermProtect automatic temperature-dependent shutdown.
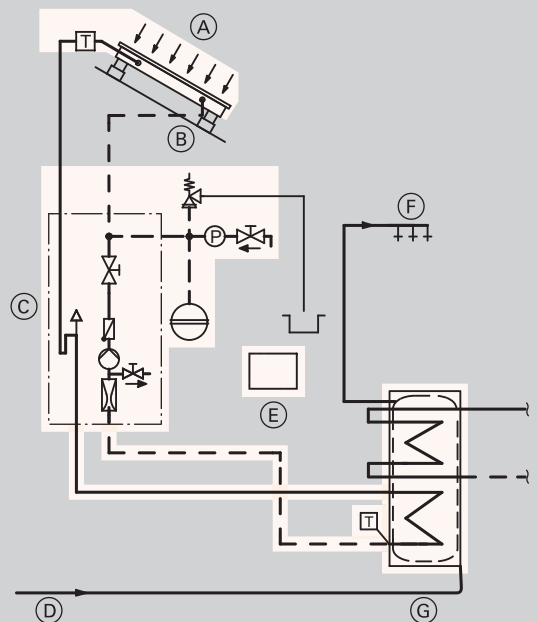For vertical above roof installation or roof integration (dark blue flashing frame).

By combining solar thermal with a heat generator, **energy efficiency class A+** (as a system label) can generally be achieved for the overall heating system.

- Standard DHW solar package with components tailored to heating DHW with solar energy.
- Space optimised flat-plate collectors with ThermProtect automatic temperature-dependent shutdown for a vapour-free and fail-safe solar thermal system.
- Dual mode DHW cylinder fully equipped for quick and easy connection to the solar thermal system.
- Corrosion-resistant steel cylinder with Ceraprotect enamel coating. Additional cathodic protection via protective magnesium anode; impressed current anode available as an accessory.
- Straightforward and quick to install, as fill, vent and shut-off valves and a solar control unit are integrated in the Solar-Divicon which is already mounted on the cylinder.
- Low heat losses through highly effective, all-round thermal insulation.
- Immersion heater can be supplied upon request.
- Clearly defined application area: solar thermal system for solar DHW heating with two solar collectors.

9.1

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VITOSOL 141-FM

- Vitosol 100-FM, type SVKF/SVKG
- Vitocell 100-B/-W, type CVBA fitted Solar-Divicon
- and **SDIO/SM1A electronics module SM1A** (in conjunction with Viessmann control units)

	Selectable components				MG **WP**
Type	**Number of collectors Gross area Installation**	**Cylinder capacity Cylinder name Colour**			
SVKF	2/4.36 m² Above roof installation ▮▮	250 l Vitocell 100-B Silver		SK07047 **3.359,–**	Part no. **Euro**
SVKF	2/4.36 m² Above roof installation ▮▮	250 l Vitocell 100-W Vitopearlwhite		SK07365 **3.103,–**	Part no. **Euro**
SVKG	2/4.46 m² Roof integration ▮▮	250 l Vitocell 100-B Silver		SK07049 **3.504,–**	Part no. **Euro**
SVKG	2/4.46 m² ▮▮	250 l Vitocell 100-W Vitopearlwhite		SK07367 **4.524,–**	Part no. **Euro**

Ordering information
Fixing system Ⓑ for fitting the collector on the roof is
not included in the standard pack delivery and must
be ordered separately. Please refer to "Fixing system".

Ⓐ Solar collectors
Ⓑ Fixing system (above roof installation/roof
   integration)
Ⓒ Solar-Divicon (part of the DHW cylinder)
Ⓓ Cold water
Ⓔ Electronics module, type SDIO/SM1A
   (part of the DHW cylinder)
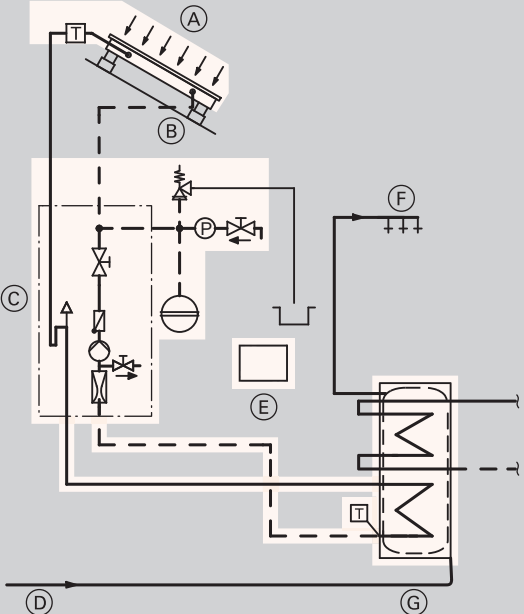Ⓕ DHW
Ⓖ Dual mode DHW cylinder

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Notes:
The collectors can be used for an installation height of up to 20 m. In systems taller than this, an 8 bar safety valve must be installed in the
solar circuit (see "Accessories").

▮ Standard delivery Vitosol 141-FM:

■ Two Vitosol 100-FM, type SVKF/SVKG, flat-plate collectors
  with connection set including connection lines and collector
  temperature sensor
■ Vitocell 100-B/-W, type CVBA dual mode DHW cylinder with
  prefitted Solar-Divicon, incl. variable speed high efficiency
  circulation pump for the solar circuit, electronics module
  SDIO/SM1A, air separator and fill valves
■ Solar expansion vessel (18 litres)
Check this is sized appropriately by referring to the technical guide.
■ Heat transfer medium (20 l)

- Vitosol 100-FM, type SVKF/SVKG
- Vitocell 100-B/-W, type CVBA fitted Solar-Divicon
- and **Vitosolic 100, type SD1**

Selectable components				MG **WP**
Type	**Number of collectors Gross area Installation**	**Cylinder capacity Cylinder name Colour**		
SVKF	2/4.36 m² Above roof installation ▮▮	250 l Vitocell 100-B Silver	SK05699 **3.357,–**	Part no. **Euro**
SVKF	2/4.36 m² Above roof installation ▮▮	250 l Vitocell 100-W Vitopearlwhite	SK07366 **3.172,–**	Part no. **Euro**
SVKG	2/4.46 m² Roof integration ▮▮	250 l Vitocell 100-B Silver	SK05701 **3.504,–**	Part no. **Euro**
SVKG	2/4.46 m² Roof integration ▮▮	250 l Vitocell 100-W Vitopearlwhite	SK07368 **4.632,–**	Part no. **Euro**

Ordering information
Fixing system Ⓑ for fitting the collector on the roof is **not** included in the standard pack delivery and must be ordered separately. Please refer to "Fixing system".

Ⓐ Solar collectors
Ⓑ Fixing system (above roof installation/roof integration)
Ⓒ Solar-Divicon (part of the DHW cylinder)
Ⓓ Cold water
Ⓔ Vitosolic 100, type SD1 (part of the DHW cylinder)
Ⓕ DHW
Ⓖ Dual mode DHW cylinder

Notes:
The collectors can be used for an installation height of up to 20 m. In systems taller than this, an 8 bar safety valve must be installed in the solar circuit (see "Accessories").

9.1

Standard delivery Vitosol 141-FM:

- Two Vitosol 100-FM, type SVKF/SVKG, flat-plate collectors with connection set including connection lines and collector temperature sensor
- Vitocell 100-B/-W, type CVBA dual mode DHW cylinder with prefitted Solar-Divicon, incl. variable speed high efficiency circulation pump for the solar circuit, Vitosolic 100, type SD1, air separator and fill valve
- Solar expansion vessel (18 litres)
Check this is sized appropriately by referring to the technical guide.
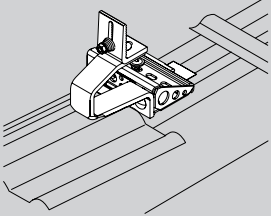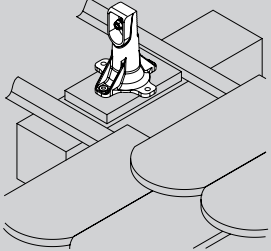- Heat transfer medium (20 l)

VITOSOL 141-FM

Specification

Specification Vitosol 100-FM Individual collector	Type			
	SVKF	SVKG		
Gross area	2.18	2.23		m²
Absorber area	2.01	2.01		m²
Aperture area, flat-plate collector	2.02	2.02		m²
Width	1056	1070		mm
Height	2066	2080		mm
Depth	73	73		mm
Weight	37	37		kg

Specification Vitocell 100-B/-W Incl. Solar-Divicon	Type		
	CVBA		
Cylinder capacity	250		l
Width	860		mm
Length	631		mm
Height	1485		mm
Weight	124		kg
Energy efficiency class, cylinder	C		

9.1

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Rafter hook or rafter flange installation kits for 2 collectors		

Above roof installation kits		
Rafter hook fixing system (standard tiled roof cover) Comprising: ■ Rafter hook ■ Screws for securing to rafter ■ Support bracket (for roofs with counter battens) ■ Mounting rails and fixing elements For standard tiled roof cover. No roof tile opening required. For installation on roofs without counter battens or support brackets.		

Above roof installation for standard roof tiles		**MG WO**
Fixing kit (with rafter hooks) For **standard tiled** roof cover **without** counter battens (for pitched roofs). For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012919 **246,–**	Part no. **Euro**
Fixing kit (with rafter hooks) For **standard tiled** roof cover **with** counter battens (for pitched roofs). For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012920 **250,–**	Part no. **Euro**

Above roof installation kits		
Rafter flange fixing system (plain tile and slate roof cover) Comprising: ■ Rafter flange ■ Flashing (black or terracotta) ■ Screws for securing to rafter ■ Mounting rails and fixing elements For plain tile and slate roof cover.		

Above roof installation for slate		**MG WO**
Fixing kit (with rafter flange) For **slate** roof cover (for pitched roofs) with black flashing. For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012961 **338,–**	Part no. **Euro**

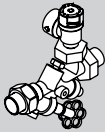| Above roof installation for plain tiles		**MG WO**
Fixing kit (with rafter flange) For **plain tiled** roof cover (for pitched roofs) with red flashing. For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012962 **338,–**	Part no. **Euro**

9.1

VITOSOL 141-FM

Fixing system for **above roof installation**

Above roof installation for corrugated sheet roofs		
Roof tie fixing system (corrugated sheet roof) Comprising: ■ Roof tie for corrugated sheet roof (profile 5/6 or 8) ■ Mounting rails and fixing elements For corrugated sheet roofs, provide screws and ensure the roof tightness on site.		
Above roof installation for corrugated sheet roofs		**MG WO**
Fixing kit For **corrugated sheet** roof cover profile 5 and 6 (for pitched roofs).	Z011899 **173,–**	Part no. **Euro**
Fixing kit For **corrugated sheet** roof cover profile 8 (for pitched roofs).	Z011900 **173,–**	Part no. **Euro**
Above roof installation for sheet steel roofs		
Mounting bracket fixing system (sheet metal roof) Comprising: ■ Mounting brackets for sheet metal roofs ■ Mounting rails and fixing elements For sheet metal roofs, provide screws and ensure the roof tightness on site.		
Above roof installation for sheet steel roofs		**MG WO**
Fixing kit For mounting **with mounting brackets** and on-site fixings, e.g. for on-site installation on sheet metal roofs (for pitched roofs).	Z011886 **129,–**	Part no. **Euro**

9.1

Accessories

Solar safety valve (8 bar) ■ For use in solar thermal systems with Vitosol-FM/-TM collectors and **system heights** of 20 m and above ■ For installation in Solar-Divicon, type PS10 (replaces integral 6 bar safety valve) ■ ½ x ¾ (female) *Required for installation heights over 20 m.*	ZK02581 **42,–**	Part no. **Euro** **MG WO**
Safety assembly to DIN 1988 (DN 20, R ¾) ■ Diaphragm safety valve 10 bar (1 MPa) ■ Shut-off valve ■ Non-return valve and test connector ■ Pressure gauge connector	7180662 **251,–**	Part no. **Euro** **MG W**
Circulation pump for cylinder heating For boilers up to 40 kW. ■ High efficiency circulation pump ■ Fully wired ■ With check valve	7172611 **460,–**	Part no. **Euro** **MG W**
Impressed current anode ■ Maintenance-free ■ In place of the protective magnesium anode supplied	7265008 **480,–**	Part no. **Euro** **MG W**
Temperature controller ■ With a thermostatic system ■ With top-hat rail to be fitted to the DHW cylinder or the wall ■ Setting range 30 to 60 °C, adjustable up to 110 °C ■ Length of capillary tube 1400 mm, sensor Ø 6 mm ■ Without sensor well	7151989 **114,–**	Part no. **Euro** **MG W**
Thermostatic DHW circulation set For integration in domestic hot water systems **with** DHW circulation pipe. ■ Automatic thermostatic mixing valve ■ Setting range: 35 to 60 °C ■ Integral non-return valves ■ Threaded connection R ¾ ■ Thermal insulation	ZK01284 **337,–**	Part no. **Euro** **MG W**
Automatic thermostatic mixing valve For integration in hot water systems **without** DHW circulation pipe ■ Setting range: 35 to 60 °C ■ Threaded connection G 1, flat gasket	7438940 **85,–**	Part no. **Euro** **MG W**

Sensors

		MG W
Immersion temperature sensor (NTC 10 kOhm) ■ To capture the temperature in a sensor well ■ With connecting lead (5.8 m long) and plug In conjunction with SDIO/SM1A electronics module.	7438702 **110,–**	Part no. **Euro**
Immersion temperature sensor (NTC 10 kOhm) With connecting lead (3.8 m long), without plug. For installation in the DHW cylinder, heating water buffer cylinder, combi cylinder. In conjunction with the Vitosolic 100, type SD1.	7426247 **105,–**	Part no. **Euro** **MG WO**

9.1

VITOSOL 141-FM

Accessories Vitocell 100-B/-W

Immersion heater

		MG **W**
Immersion heater EHE Selectable heating output **2, 4 or 6 kW** Only for use with soft to medium hard drinking water up to 14 °dH (medium hardness level, up to 2.5 mol/m^3). For installation in the Vitocell ■ High limit temperature cut-out device ■ Temperature controller	Z012684 **617,–**	Part no. **Euro**

Miscellaneous

		MG **W**
Transport aid For easier handling of all vertical DHW cylinders ■ With rigid PUR foam thermal insulation ■ Up to 300 litre capacity	ZK05266 **142,–**	Part no. **Euro**

Heat meter

		MG **WO**
Heat meter For solar thermal systems with heat transfer medium "Tyfocor LS", for **fitting to the** **Vitocell 100-B/-W, type CVBA** in conjunction with the Solar-Divicon. ■ Capture of flow and return temperatures ■ Capture of flow rate, nominal flow rate 1.5 m³/h ■ Indication of energy amount, heating output, flow rate, flow and return temperatures	Z013683 **709,–**	Part no. **Euro**

9.1

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Solar KEYMARK certified

Vitosol 200-FM

Flat-plate collectors
Type SV2F and SH2F

For heating DHW, heating water and swimming pool water via a heat exchanger.

- For vertical or horizontal installation
- For installation on pitched roofs (above roof installation)
- For flat roof and freestanding installation (on collector supports)
- For installation on walls with type SH1F and SH2F

Pressure rating up to 6 bar (0.6 MPa).
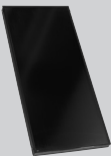
By combining solar thermal with a heat generator, **energy efficiency class A+** (as a system label) can generally be achieved for the overall heating system.

- Powerful flat-plate collectors for above roof and flat roof installation with ThermProtect automatic temperature-dependent shutdown for a vapour-free, fail-safe solar thermal system.
- Absorber designed with meander layout with integral headers. Up to 12 collectors can be linked in parallel.
- Vitosol 200-FM: attractive collector design; frame in dark blue. On request, the frame is also available in any other RAL colour.
- The absorber with selective coating, the stable, highly transparent cover made from special glass, and the highly effective thermal insulation ensure excellent solar yields.
- Permanently sealed and highly stable thanks to all-round folded aluminium frame.
- Puncture-proof and corrosion-resistant back panel.
- Easy to install Viessmann fixing system; standardised for all Viessmann collectors.
- Quick and reliable collector connection through flexible push-fit connectors made of corrugated stainless steel pipe.

9.2

VITOSOL 200-FM

Individual collectors – **vertical** design
2.51 m² gross area

Solar thermal system		MG **WP**
Vitosol 200-FM, type SV2F Flat-plate collector (1 pce) Dark blue frame	ZK02453 **929,–**	Part no. **Euro**

Solar thermal system	Gross area (m²)								MG **WO**
	2.5	5	7.5	10	12.5	15	20	25	
Connection pipes (1 pair)		7248239 37,–							Part no./ pce **Euro ttl.**
Connection set For one collector array of up to 12 collectors arranged in **a single row** (above roof installation).	7248240 77,–								Part no. **Euro**
Sensor well set (One per solar thermal system)	7174993 41,–								Part no. **Euro**

Specification – individual collector		
Gross area **Absorber area** **Aperture area**	2.51 2.31 2.33	m² m² m²
Dimensions: Width Height Depth	1056 2380 90	mm mm mm
Weight	39	kg

Please note:
The collectors can be used for an installation height of up to 20 m. In systems taller than this, an 8 bar safety valve must be installed in the solar circuit (see Accessories in Register 9.4).
Notes:
- A suitable fixing system must be added to the order (see the following pages). For the selection, see the technical guide.
- Collectors in special RAL colours on request (chargeable option).
- Accessories for 7, 9, 11 or 12 collectors on request.

Individual installation parts	1	2	3	4	5	6	8	10	
Spare part set (Vitosol) Assortment of small parts that can get lost during collector installation.				7317071 **12,60**					Part no. **Euro/net** MG N

►*For DHW cylinders for solar thermal systems, see Register 10.*
►*For installation accessories, see Register 9.4.*
►*For control units for solar thermal systems, see Register 9.5.*

9.2

VITOSOL 200-FM

Individual collectors – **vertical** design
2.51 m² gross area
Fixing system

"Rafter hook or rafter flange" installation kits for flat-plate collectors

Above roof installation kits

Rafter hook fixing system (standard tiled roof cover)
Comprising:
■ Rafter hook
■ Screws for securing to the rafter.
■ Support bracket (for roofs with counter battens)
■ Mounting rails and fixings
For standard tiled roof cover. No roof tile opening required. For installation on roofs without counter battens or support brackets.

Above roof installation for standard roof tiles	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Fixing kit (with rafter hook) For **standard tiled** roof cover **without** counter battens (for pitched roofs). Snow loads up to 0.75 kN/m². Wind speeds up to 150 km/h.	Z012853 **203,–**	Z012854 **279,–**	Z012855 **469,–**	Z012856 **542,–**	Z012857 **732,–**	Z012858 **805,–**	Z012859 **1.095,–**	Z012860 **1.358,–**	Part no. **Euro**
Fixing kit (with rafter hook) For **standard tiled** roof cover **with** counter battens (for pitched roofs). Snow loads up to 0.75 kN/m². Wind speeds up to 150 km/h.	Z012869 **207,–**	Z012870 **283,–**	Z012871 **477,–**	Z012872 **550,–**	Z012873 **744,–**	Z012874 **817,–**	Z012875 **1.111,–**	Z012876 **1.378,–**	Part no. **Euro**
Fixing kit (with rafter hook) For **standard tiled** roof cover **without** counter battens (for pitched roofs). Snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012887 **203,–**	Z012888 **347,–**	Z012889 **537,–**	Z012890 **678,–**	Z012891 **868,–**	Z012892 **1.009,–**	Z012893 **1.435,–**	Z012894 **1.766,–**	Part no. **Euro**
Fixing kit (with rafter hook) For **standard tiled** roof cover **with** counter battens (for pitched roofs). Snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012903 **207,–**	Z012904 **353,–**	Z012905 **547,–**	Z012906 **690,–**	Z012907 **884,–**	Z012908 **1.027,–**	Z012909 **1.461,–**	Z012910 **1.798,–**	Part no. **Euro**

9.2

VITOSOL 200-FM

Individual collectors – **vertical** design
2.51 m² gross area
Fixing system

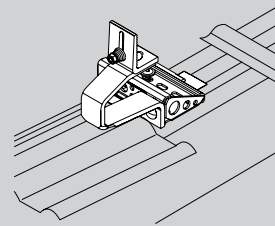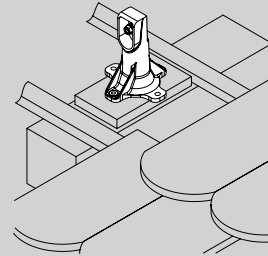## "Rafter hook or rafter flange" installation kits for flat-plate collectors

Above roof installation kits

Rafter flange fixing system (plain tile and slate roof cover)
Comprising:
■ Rafter flange
■ Flashing (black or terracotta)
■ Screws for securing to the rafter.
■ Mounting rails and fixings
For plain tile and slate roof cover.

Above roof installation for plain tiles	Accessories required subject to the number of collectors								MG **WO**
	1	2	3	4	5	6	8	10	
Fixing kit (with rafter flange) For **plain tiled** roof cover (for pitched roofs) with red flashing. Snow loads up to 0.75 kN/m². Wind speeds up to 150 km/h.	Z012945 **295,–**	Z013001 **371,–**	Z013002 **653,–**	Z013003 **726,–**	Z013004 **1.008,–**	Z013005 **1.081,–**	Z013006 **1.463,–**	Z013007 **1.818,–**	Part no. **Euro**
Fixing kit (with rafter flange) For **plain tiled** roof cover (for pitched roofs) with red flashing. Snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012945 **295,–**	Z012946 **485,–**	Z012947 **767,–**	Z012948 **954,–**	Z012949 **1.236,–**	Z012950 **1.423,–**	Z012951 **2.033,–**	Z012952 **2.502,–**	Part no. **Euro**

Above roof installation for slate	Accessories required subject to the number of collectors								MG **WO**
	1	2	3	4	5	6	8	10	
Fixing kit (with rafter flange) For **slate** roof cover (for pitched roofs) with black flashing. Snow loads up to 0.75 kN/m². Wind speeds up to 150 km/h.	Z012929 **295,–**	Z012994 **371,–**	Z012995 **653,–**	Z012996 **726,–**	Z012997 **1.008,–**	Z012998 **1.081,–**	Z012999 **1.463,–**	Z013000 **1.818,–**	Part no. **Euro**
Fixing kit (with rafter flange) For **slate** roof cover (for pitched roofs) with black flashing. Snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012929 **295,–**	Z012930 **485,–**	Z012931 **767,–**	Z012932 **954,–**	Z012933 **1.236,–**	Z012934 **1.423,–**	Z012935 **2.033,–**	Z012936 **2.502,–**	Part no. **Euro**

9.2

VITOSOL 200-FM

Individual collectors – **vertical** design
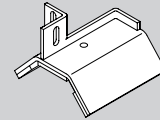2.51 m² gross area
Fixing system

Above roof installation for corrugated sheet roofs

Roof tie fixing system (corrugated sheet roof)
Comprising:
■ Roof tie for corrugated sheet roof (profile 5/6 or 8)
■ Mounting rails and fixings
For corrugated sheet roofs, provide screws and ensure roof tightness on site.

Above roof installation for corrugated sheet roofs	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Fixing kit For **corrugated sheet** roof cover, profile 5 and 6 (for pitched roofs).	Z008512 **106,–**	Z008513 **185,–**	Z008514 **245,–**	Z008515 **336,–**	Z008516 **425,–**	Z008517 **487,–**	Z008518 **667,–**	Z008519 **818,–**	Part no. **Euro**
Fixing kit For **corrugated sheet** roof cover, profile 8 (for pitched roofs).	Z008520 **106,–**	Z008521 **185,–**	Z008522 **245,–**	Z008523 **336,–**	Z008524 **425,–**	Z008525 **487,–**	Z008526 **667,–**	Z008527 **818,–**	Part no. **Euro**

Above roof installation for sheet metal roofs

Mounting bracket fixing system (sheet metal roof)
Comprising:
■ Mounting bracket for sheet metal roofs
■ Mounting rails and fixings
For sheet metal roofs, provide screws and ensure roof tightness on site.
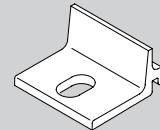
Above roof installation for sheet metal roofs	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Fixing kit For securing to on-site fixings, e.g. for on-site installation on sheet metal roofs (for pitched roofs).	Z008504 **77,–**	Z008505 **141,–**	Z008506 **187,–**	Z008507 **263,–**	Z008508 **337,–**	Z008509 **385,–**	Z008510 **535,–**	Z008511 **657,–**	Part no. **Euro**

9.2

VITOSOL 200-FM

Individual collectors – **vertical** design
2.51 m² gross area
Fixing system

"Collector support" installation kits for flat-plate collectors

Installation on collector supports

Collector support fixing system (flat roofs/substructure)
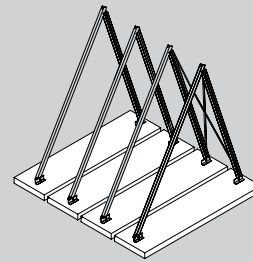Available for installation on concrete slabs or a substructure provided on site. With fixed or variable installation angle.

Flat roof installation kits	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Fixing kit For supporting collectors on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. **Installation angle 25 to 60°** (in 5° increments). Snow loads up to 2.55 kN/m². Wind speeds up to 150 km/h.	Z005451 **358,–**	Z005452 **710,–**	Z005453 **1.062,–**	Z005454 **1.414,–**			–		Part no. **Euro**
Fixing kit For supporting collectors on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. **Installation angle 30°.** Snow loads up to 1.5 kN/m². Wind speeds up to 150 km/h.	Z013123 **394,–**	Z013124 **596,–**	Z013125 **766,–**	Z013126 **968,–**	Z013127 **1.138,–**	Z013128 **1.371,–**	Z013129 **1.743,–**	Z013130 **2.115,–**	Part no. **Euro**
Fixing kit For supporting collectors on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. **Installation angle 45°.** Snow loads up to 1.5 kN/m². Wind speeds up to 150 km/h.	Z013131 **424,–**	Z013132 **643,–**	Z013133 **826,–**	Z013134 **1.045,–**	Z013135 **1.228,–**	Z013136 **1.478,–**	Z013137 **1.880,–**	Z013138 **2.282,–**	Part no. **Euro**
Fixing kit For supporting collectors on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. **Installation angle 60°.** Snow loads up to 1.5 kN/m². Wind speeds up to 150 km/h.	Z013139 **459,–**	Z013140 **672,–**	Z013141 **896,–**	Z013142 **1.109,–**	Z013143 **1.333,–**	Z013144 **1.577,–**	Z013145 **2.014,–**	Z013146 **2.451,–**	Part no. **Euro**
Collector support installation aid ■ For collector supports with an installation angle of 30°, 45° and 60° ■ The installation aid can be reused.	ZK01652 **93,–**								Part no. **Euro**

Please note:
For the installation of systems with a fixed installation angle, **the collector support installation aid** must be added to the order.

9.2

VITOSOL 200-FM

Individual collectors – **vertical** design
2.51 m² gross area
Fixing system

Accessories for above roof installation of Vitosol 200-FM									

Accessories for roof installation	1	2	3	4	5	6	8	10	**MG WO**
Edge covers (Vitosol 200-F/200-FM) For hydraulic connections in **above roof installation**. One l.h. and one r.h. edge cover.	ZK01280 **171,–**								Part no. **Euro**
Cover strip (Vitosol 200-F/200-FM) For the gaps between collectors in **above roof installation**. Order one cover strip less than the number of collectors. (For example, 3 cover strips for 4 collectors).	ZK01281 **45,–**								Part no. **Euro**

9.2

Solar thermal system		MG WP
Vitosol 200-FM, type SH2F Flat-plate collector (1 pce). Dark blue frame.	ZK02454 **1.094,–**	Part no. **Euro**

Solar thermal system	Gross area (m²)								MG WO
	2.5	5	7.5	10	12.5	15	20	25	
Connection pipes (1 pair)		7248239							Part no./ pce **Euro ttl.**
				37,–					
Connection set For one collector array with up to 12 collectors (above roof installation)	7248240 **77,–**								Part no. **Euro**
Sensor well set (One per solar thermal system)	7174993 **41,–**								Part no. **Euro**

Specification Individual collector		
Gross area **Absorber area** **Aperture area**	2.51 2.31 2.33	m² m² m²
Dimensions: Width Height Depth	2380 1056 90	mm mm mm
Weight	40	kg

Please note:
The collectors can be used for an installation height of up to 20 m. In systems taller than this, an 8 bar safety valve must be installed in the solar circuit (see Accessories in Register 9.4).

Notes:
■ A suitable fixing system must be added to the order (see the following pages). For the selection, see the technical guide.
■ Collectors in special RAL colours on request (chargeable option).
■ Accessories for 7, 9, 11 or 12 collectors on request.

Individual installation parts	1	2	3	4	5	6	8	10	
Spare part set (Vitosol) Assortment of small parts that can get lost during collector installation.	7317071 **12,60**								Part no. **Euro/net** MG N

► For DHW cylinders for solar thermal systems, see Register 10.
► For installation accessories, see Register 9.4.
► For control units for solar thermal systems, see Register 9.5.

9.2

VITOSOL 200-FM

Individual collectors – **horizontal** version
2.51 m² gross area
Fixing system

"Rafter hook or rafter flange" installation kits for flat-plate collectors
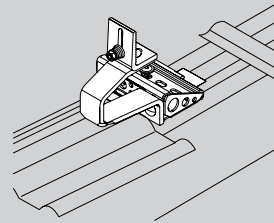
Above roof installation kits

Rafter hook fixing system (standard tiled roof cover)
Comprising:
- Rafter hook
- Screws for securing to the rafter.
- Support bracket (for roofs with counter battens)
- Mounting rails and fixings

For standard tiled roof cover. No roof tile opening required. For installation on roofs without counter battens or support brackets.
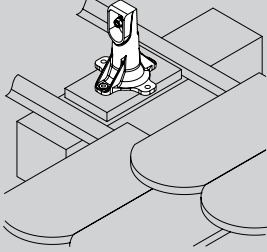
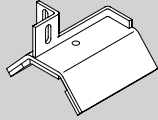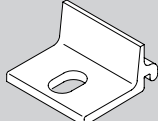| Above roof installation for standard roof tiles	Accessories required subject to the number of collectors								MG **WO**
	1	2	3	4	5	6	8	10	
Fixing kit (with rafter hook) For **standard tiled** roof cover **without** counter battens (for pitched roofs). Snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012895 **240,–**	Z012896 **491,–**	Z012897 **715,–**	Z012898 **966,–**	Z012899 **1.190,–**	Z012900 **1.441,–**	Z012901 **1.943,–**	Z012902 **2.418,–**	Part no. **Euro**
Fixing kit (with rafter hook) For **standard tiled** roof cover **with** counter battens (for pitched roofs). Snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012911 **244,–**	Z012912 **499,–**	Z012913 **727,–**	Z012914 **982,–**	Z012915 **1.210,–**	Z012916 **1.465,–**	Z012917 **1.975,–**	Z012918 **2.458,–**	Part no. **Euro**

9.2

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5812342

VITOSOL 200-FM

Individual collectors – **horizontal** version
2.51 m² gross area
Fixing system

"Rafter hook or rafter flange" installation kits for flat-plate collectors

Above roof installation kits

Rafter flange fixing system (plain tile and slate roof cover)
Comprising:
■ Rafter flange
■ Flashing (black or terracotta)
■ Screws for securing to the rafter.
■ Mounting rails and fixings
For plain tile and slate roof cover.

Above roof installation for slate	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Fixing kit (with rafter flange) For **slate** roof cover (for pitched roofs) with black flashing. Snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012937 **332,–**	Z012938 **675,–**	Z012939 **991,–**	Z012940 **1.334,–**	Z012941 **1.650,–**	Z012942 **1.993,–**	Z012943 **2.679,–**	Z012944 **3.338,–**	Part no. **Euro**

Above roof installation for plain tiles	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Fixing kit (with rafter flange) For **plain tiled** roof cover (for pitched roofs) with red flashing. Snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	Z012953 **332,–**	Z012954 **675,–**	Z012955 **991,–**	Z012956 **1.334,–**	Z012957 **1.650,–**	Z012958 **1.993,–**	Z012959 **2.679,–**	Z012960 **3.338,–**	Part no. **Euro**

9.2

5812342

VITOSOL 200-FM

Individual collectors – **horizontal** version
2.51 m² gross area
Fixing system

Above roof installation for corrugated sheet roofs

Roof tie fixing system (corrugated sheet roof)
Comprising:
- Roof tie for corrugated sheet roof (profile 5/6 or 8)
- Mounting rails and fixings

For corrugated sheet roofs, provide screws and ensure roof tightness on site.

Above roof installation for corrugated sheet roofs	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Fixing kit For **corrugated sheet** roof cover, profile 5 and 6 (for pitched roofs).	Z008560 **158,–**	Z008561 **311,–**	Z008562 **435,–**	Z008563 **588,–**	Z008564 **741,–**	Z008565 **865,–**	Z008566 **1.171,–**	Z008567 **1.448,–**	Part no. **Euro**
Fixing kit For **corrugated sheet** roof cover, profile 8 (for pitched roofs).	Z008568 **158,–**	Z008569 **311,–**	Z008570 **435,–**	Z008571 **588,–**	Z008572 **741,–**	Z008573 **865,–**	Z008574 **1.171,–**	Z008575 **1.448,–**	Part no. **Euro**

Above roof installation for sheet metal roofs

Mounting bracket fixing system (sheet metal roof)
Comprising:
- Mounting bracket for sheet metal roofs
- Mounting rails and fixings

For sheet metal roofs, provide screws and ensure roof tightness on site.

Above roof installation for sheet metal roofs	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Fixing kit For securing to on-site fixings, e.g. for on-site installation on sheet metal roofs (for pitched roofs).	Z008552 **129,–**	Z008553 **267,–**	Z008554 **377,–**	Z008555 **515,–**	Z008556 **653,–**	Z008557 **763,–**	Z008558 **1.039,–**	Z008559 **1.287,–**	Part no. **Euro**

9.2

5812342

VITOSOL 200-FM
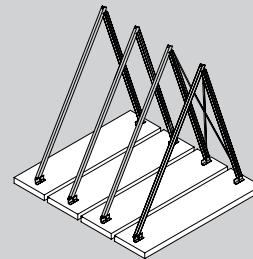
Individual collectors – **horizontal** version
2.51 m² gross area
Fixing system

"Collector support" installation kits for flat-plate collectors

Installation on collector supports

Collector support fixing system (flat roofs/substructure)
Available for installation on concrete slabs or a substructure provided on site. With fixed or variable installation angle.

Flat roof installation kits	Accessories required subject to the number of collectors								MG **WO**
	1	2	3	4	5	6	8	10	
Fixing kit For supporting collectors on flat roofs for freestanding installation (on-site concrete slabs). **Installation angle 25 to 45°** (in 5° increments). Snow loads up to 2.55 kN/m². Wind speeds up to 150 km/h.	Z005483 **311,–**	Z005484 **616,–**	Z005485 **921,–**	Z005486 **1.226,–**	Z005487 **1.531,–**	Z005488 **1.836,–**	Z005489 **2.481,–**	Z005490 **3.091,–**	Part no. **Euro**
Fixing kit For supporting collectors on flat roofs for freestanding installation (on-site concrete slabs). **Installation angle 50 to 80°** (in 5° increments). Snow loads up to 2.55 kN/m². Wind speeds up to 150 km/h.	Z005459 **349,–**	Z005460 **692,–**	Z005461 **1.035,–**	Z005462 **1.378,–**	Z005463 **1.721,–**	Z005464 **2.064,–**	Z005465 **2.785,–**	Z005466 **3.471,–**	Part no. **Euro**
Fixing kit For supporting collectors on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. **Installation angle 25 to 45°** (in 5° increments). Snow loads up to 2.55 kN/m². Wind speeds up to 150 km/h.	Z005491 **246,–**	Z005492 **486,–**	Z005493 **726,–**	Z005494 **966,–**	Z005495 **1.206,–**	Z005496 **1.446,–**	Z005497 **1.961,–**	Z005498 **2.441,–**	Part no. **Euro**
Fixing kit For supporting collectors on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. **Installation angle 50 to 80°** (in 5° increments). Snow loads up to 2.55 kN/m². Wind speeds up to 150 km/h.	Z005467 **284,–**	Z005468 **562,–**	Z005469 **840,–**	Z005470 **1.118,–**	Z005471 **1.396,–**	Z005472 **1.674,–**	Z005473 **2.265,–**	Z005474 **2.821,–**	Part no. **Euro**

9.2

5812342

VITOSOL 200-FM

Individual collectors – **horizontal** version
2.51 m² gross area
Fixing system

"Collector support" installation kits for flat-plate collectors

Flat roof installation kits	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Fixing kit For supporting collectors on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. **Installation angle 30°.** Snow loads up to 1.5 kN/m². Wind speeds up to 150 km/h.	Z013147 **280,–**	Z013148 **428,–**	Z013149 **547,–**	Z013150 **695,–**	Z013151 **814,–**	Z013152 **993,–**	Z013153 **1.260,–**	Z013154 **1.527,–**	Part no. **Euro**
Fixing kit For supporting collectors on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. **Installation angle 45°.** Snow loads up to 1.5 kN/m². Wind speeds up to 150 km/h.	Z013155 **294,–**	Z013156 **445,–**	Z013157 **575,–**	Z013158 **726,–**	Z013159 **856,–**	Z013160 **1.038,–**	Z013161 **1.319,–**	Z013162 **1.600,–**	Part no. **Euro**
Fixing kit For supporting collectors on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. **Installation angle 60°.** Snow loads up to 1.5 kN/m². Wind speeds up to 150 km/h.	Z013163 **283,–**	Z013164 **430,–**	Z013165 **553,–**	Z013166 **700,–**	Z013167 **823,–**	Z013168 **1.001,–**	Z013169 **1.271,–**	Z013170 **1.541,–**	Part no. **Euro**
Collector support installation aid ■ For collector supports with an installation angle of 30°, 45° and 60° ■ The installation aid can be reused.	ZK01653 **106,–**								Part no. **Euro**

Please note:
For the installation of systems with a fixed installation angle, **the collector support installation aid** must be added to the order.

Wall mounting installation kits	Accessories required subject to the number of collectors								MG WO
	1	2	3	4	5	6	8	10	
Collector support for walls Angle to wall 10 to 45° (in 5° increments). Snow loads up to 2.55 kN/m². Wind speeds up to 150 km/h.	Z005475 **256,–**	Z005476 **541,–**	Z005477 **826,–**	Z005478 **1.111,–**	Z005479 **1.396,–**	Z005480 **1.681,–**	Z005481 **2.251,–**	Z005482 **2.821,–**	Part no. **Euro**

9.2

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5812342

VITOSOL 200-FM

Individual collectors – **horizontal** version
2.51 m² gross area
Fixing system

Accessories for above roof installation of Vitosol 200-FM

Accessories for roof installation	1	2	3	4	5	6	8	10	MG WO
Edge covers (Vitosol 200-F/200-FM) For hydraulic connections in **above roof installation**. One l.h. and one r.h. edge cover.				ZK01282 **192,–**					Part no. **Euro**
Cover strip (Vitosol 200-F/200-FM) For the gaps between collectors. Order one cover strip less than the number of collectors. (For example, 3 cover strips for 4 collectors).				ZK01283 **37,–**					Part no. **Euro**

9.2

9.2

5812342

Vacuum tube collector according to the heat pipe principle,
for utilising solar energy

Solar KEYMARK certified

9.3
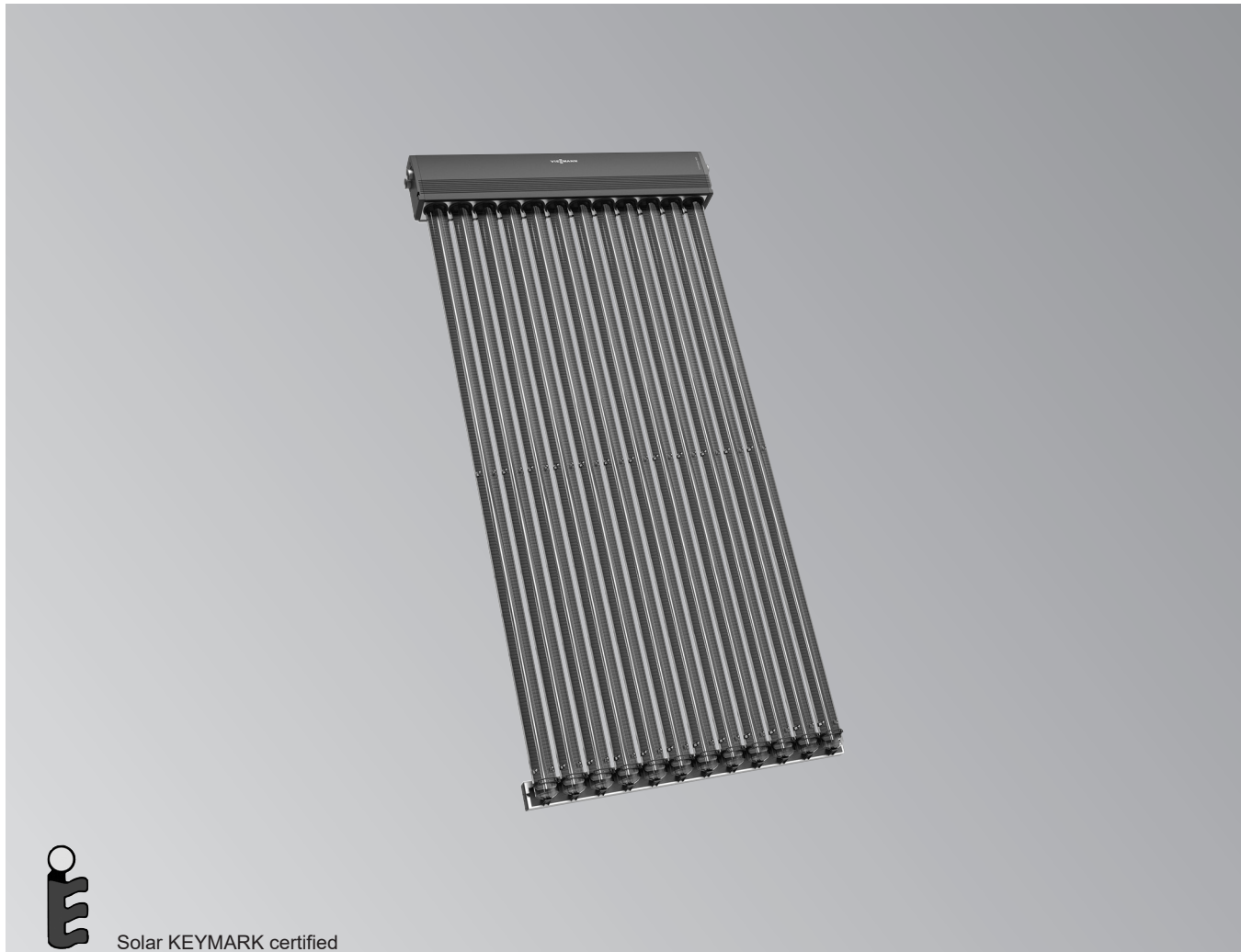
Vitosol 300-TM

Vacuum tube collector
Type SP3C (1.98 m², 2.36 m² and 4.62 m² gross area)

For DHW, central heating and swimming pool water heating via
a heat exchanger plus process heat.

For installation on flat or pitched roofs, on walls and for
freestanding installation.

Pressure rating up to 6 bar (0.6 MPa).

By combining solar thermal with a heat generator, **energy efficiency
class A+** (as a system label) can generally be achieved for the
overall heating system.

- Highly efficient vacuum tube collector based on the heat pipe
  principle, with ThermProtect automatic temperature-dependent
  shutdown for a vapour-free and fail-safe solar thermal system
  (high operational reliability).
- Universal application through vertical or horizontal installation in
  any location, either on rooftops, façades or for freestanding
  installation.
- Special balcony module (1.98 m² gross area) for installation on
  balcony railings or façades.
- The absorber surface with highly selective coating integrated into
  the vacuum tubes is not susceptible to contamination.
- Efficient heat transfer through condensers fully surrounded by the
  Duotec double pipe heat exchanger.
- Tubes can be rotated for optimum alignment with the sun, thereby
  maximising the energy utilisation.
- Dry connection, meaning tubes can be inserted or changed while
  the system is full.
- Highly effective thermal insulation of the header casing for
  minimum heat losses.
- Easy installation through the Viessmann assembly and connection
  systems.

VITOSOL 300-TM

Individual collectors

Solar thermal system

Gross area (m²)	1.98	2.36	4.62	MG WQ
Vitosol 300-TM, type SP3C 1.98 m² gross area (balcony module for horizontal installation)	SK06740 **1.224,–**		**–**	Part no. **Euro**
Vitosol 300-TM, type SP3C 2.36 m² gross area	**–**	SK06738 **1.386,–**	**–**	Part no. **Euro**
Vitosol 300-TM, type SP3C 4.62 m² gross area		**–**	SK06739 **2.686,–**	Part no. **Euro**

Specification

		Gross area (m²)			
		1.98	2.36	4.62	
Gross area		1.98	2.36	4.62	m²
Absorber area		1.26	1.51	3.03	m²
Aperture area, tube collector		1.33	1.6	3.19	m²
Number of pipes		10	12	24	
Width		885	1053	2061	mm
Height		2241	2241	2241	mm
Depth		150	150	150	mm
Weight		33	39	79	kg

Accessories for connection

Gross area (m²)	1.98	2.36	4.62	MG WO
Connection pipes (1 pair) To link up individual collectors. With thermal insulation and hydraulic cover.	**–**	7510993 **105,–**		Part no. **Euro**
Connection set with reversing bend With thermal insulation and reversing bend cover. For one collector array with a surface area of up to 15 m².	**–**	Z015404 **132,–**		Part no. **Euro**
Connection set with ventilation bend With thermal insulation and ventilation bend cover. For one collector array with a surface area of up to 15 m². For installation on walls or balustrades (hydraulic connection from below).		Z015405 **159,–**		Part no. **Euro**

Individual installation parts

Gross area (m²)	1.98	2.36	4.62	MG W
Spare part set Assortment of small parts that can get lost during collector installation.		7514876 **12,60**		Part no. **Euro**

Notes:
The collectors can be used for an installation height of up to 20 m. In systems taller than this, an 8 bar safety valve must be installed in the solar circuit (see "Accessories" in Register 9.4).
Notes:
A suitable fixing system **must** also be ordered (see the following pages). For the selection, see the technical guide.
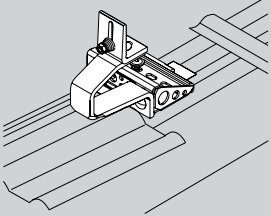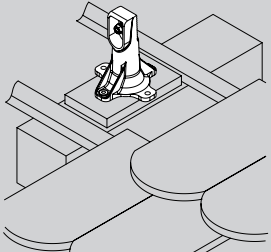►*For DHW cylinders for solar thermal systems, see Register 10.*
►*For installation accessories, see Register 9.4.*
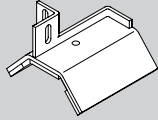►*For control units for solar thermal systems, see Register 9.5.*

9.3

5812345

"Rafter hook/flange" installation kits for tube collectors

Above roof installation kits

Rafter hook fixing system (standard tiled roof cover)
Comprising:
- Rafter hook
- Screws for securing to rafter
- Support bracket (for roofs with counter battens)
- Mounting rails and fixing elements

For standard tiled roof cover. No roof tile opening required. For installation on roofs without counter battens or support brackets.

Above roof installation for standard roof tiles

The accessories required depend on the gross area (m²)	2.36	4.62	MG WO
Fixing kit (with rafter hooks) For **standard tiled** roof cover **without** counter battens (for pitched roofs). For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	ZK00855 **240,–**		Part no. **Euro**
Fixing kit (with rafter hooks) For **standard tiled** roof cover **with** counter battens (for pitched roofs). For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	ZK00854 **244,–**		Part no. **Euro**

Above roof installation kits

Rafter flange fixing system (plain tile and slate roof cover)
Comprising:
- Rafter flange
- Flashing (black or terracotta)
- Screws for securing to rafter
- Mounting rails and fixing elements

For plain tile and slate roof cover.

Above roof installation for slate

The accessories required depend on the gross area (m²)	2.36	4.62	MG WO
Fixing kit (with rafter flange) For **slate** roof cover (for pitched roofs) with black flashing. For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	ZK01354 **332,–**		Part no. **Euro**

Above roof installation for plain tiles

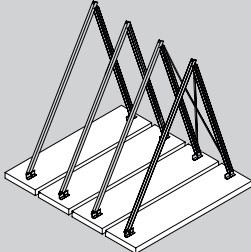| The accessories required depend on the gross area (m²)	2.36	4.62	MG WO
Fixing kit (with rafter flange) For **plain tiled** roof cover (for pitched roofs) with red flashing. For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.	ZK01356 **332,–**		Part no. **Euro**

9.3

VITOSOL 300-TM

Individual collectors – **vertical** installation
Fixing system

Above roof installation for corrugated sheet roofs			
Roof tie fixing system (corrugated sheet roof) Comprising: ■ Roof tie for corrugated sheet roof (profile 5/6 or 8) ■ Mounting rails and fixing elements For corrugated sheet roofs, provide screws and ensure the roof tightness on site.			

Above roof installation for corrugated sheet roofs			
The accessories required depend on the gross area (m²)	2.36	4.62	**MG WO**
Fixing kit For **corrugated sheet** roof cover profile 5 and 6 (for pitched roofs).	ZK00590 **131,–**		Part no. **Euro**
Fixing kit For **corrugated sheet** roof cover profile 8 (for pitched roofs).	ZK00591 **131,–**		Part no. **Euro**

Flat roof installation kits			
The accessories required depend on the gross area (m²)	2.36	4.62	**MG WO**
Fixing kit For installation flat against flat roofs. ■ For snow loads up to 0.75 kN/m² ■ Wind speeds up to 150 km/h	ZK02987 **167,–**		Part no. **Euro**

9.3

VIESMANN

"Collector supports" installation kits for tube collectors

Installation on collector supports

Collector support fixing system (flat roofs/substructure)
Available for installation on concrete slabs or a substructure provided on site.
With fixed or variable installation angle.

"Collector supports" installation kits for tube collectors			
The accessories required depend on the gross area (m²)	2.36	4.62	MG **WO**
Fixing kit For collector supports on flat roofs for freestanding installation. Substructures, such as steel beams and concrete slabs, are to be provided on site. Installation angle 25 to 50° (in 5° increments). Snow loads up to 2.55 kN/m². Wind speeds up to 150 km/h.	7510997 **480,–**		Part no. **Euro**
Fixing kit For collector supports on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. Installation angle **30°**. For snow loads up to 1.5 kN/m². Wind speeds up to 150 km/h.	ZK02984 **480,–**		Part no. **Euro**
Fixing kit For collector supports on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. Installation angle **45°**. For snow loads up to 1.5 kN/m². Wind speeds up to 150 km/h.	ZK02985 **480,–**		Part no. **Euro**
Fixing kit For collector supports on flat roofs for freestanding installation on on-site substructures, e.g. steel beams. Installation angle **60°**. For snow loads up to 1.5 kN/m². Wind speeds up to 150 km/h.	ZK02986 **480,–**		Part no. **Euro**

9.3

VITOSOL 300-TM

Individual collectors – **horizontal** installation
Fixing system

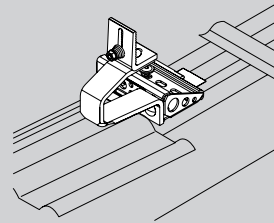## "Rafter hook/flange" installation kits for tube collectors

Above roof installation kits

Rafter hook fixing system (standard tiled roof cover)
Comprising:
■ Rafter hook
■ Screws for securing to rafter
■ Support bracket (for roofs with counter battens)
■ Mounting rails and fixing elements
For standard tiled roof cover. No roof tile opening required. For installation on roofs without counter battens or support brackets.

Above roof installation for standard roof tiles

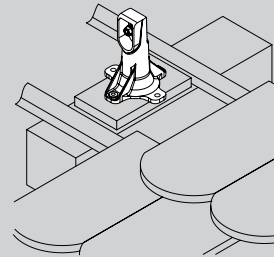| The accessories required depend on the gross area (m²)	2.36	4.62	MG WO
Fixing kit (with rafter hooks) For **standard tiled** roof cover **without** counter battens (for pitched roofs). For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.		ZK00853 **265,–**	Part no. **Euro**
Fixing kit (with rafter hooks) For **standard tiled** roof cover **with** counter battens (for pitched roofs). For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.		ZK00852 **269,–**	Part no. **Euro**

Above roof installation kits

Rafter flange fixing system (plain tile and slate roof cover)
Comprising:
■ Rafter flange
■ Flashing (black or terracotta)
■ Screws for securing to rafter
■ Mounting rails and fixing elements
For plain tile and slate roof cover.

Above roof installation for slate

The accessories required depend on the gross area (m²)	2.36	4.62	MG WO
Fixing kit (with rafter flange) For **slate** roof cover (for pitched roofs) with black flashing. For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.		ZK01355 **345,–**	Part no. **Euro**

Above roof installation for plain tiles

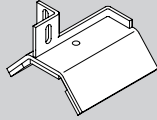| The accessories required depend on the gross area (m²)	2.36	4.62	MG WO
Fixing kit (with rafter flange) For **plain tiled** roof cover (for pitched roofs) with red flashing. For snow loads up to 1.25 kN/m². Wind speeds up to 150 km/h.		ZK01357 **345,–**	Part no. **Euro**

9.3

Above roof installation for corrugated sheet roofs

Roof tie fixing system (corrugated sheet roof)
Comprising:
■ Roof tie for corrugated sheet roof (profile 5/6 or 8)
■ Mounting rails and fixing elements
For corrugated sheet roofs, provide screws and ensure the roof tightness on site.

Above roof installation for corrugated sheet roofs			MG WO
The accessories required depend on the gross area (m²)	2.36	4.62	
Fixing kit For **corrugated sheet** roof cover profile 5 and 6 (for pitched roofs).	ZK00584 **197,–**		Part no. **Euro**
Fixing kit For **corrugated sheet** roof cover profile 8 (for pitched roofs).	ZK00585 **197,–**		Part no. **Euro**

"Wall/balcony" installation kits for tube collectors		MG WO
Fixing kit ■ For mounting on balconies and façades *Balcony mounting only possible with collector with gross absorber area 1.98 m².*	ZK00825 **195,–**	Part no. **Euro**

Notes:
We recommend installing collectors horizontally if using the system for central heating backup.

9.3

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Accessories

		MG **WO**

Solar-Divicon (two-line pump station for the collector circuit)
- Fill valves
- Air separator
- 2 thermometers
- 2 ball valves with check valve
- Circulation pump
- Flow indicator
- Pressure gauge
- Safety valve (6 bar)
- Thermal insulation
- Locking ring fitting/double O-ring 22 mm

Solar-Divicon, type PS 10 With variable speed high efficiency circulation pump for alternating current. Delivery head: 6.0 m at a pump rate of 1000 l/h. **Without control unit for solar thermal systems.**	Z021903 **896,–**	Part no. **Euro**
Solar-Divicon, type PS 10 With variable speed high efficiency circulation pump for alternating current Delivery head: 6.0 m at a pump rate of 1000 l/h **With integral SDIO/SM1A electronics module**	Z021901 **1.239,–**	Part no. **Euro**
Solar-Divicon, type PS 10 With variable speed high efficiency circulation pump for alternating current. Delivery head: 6.0 m at a pump rate of 1000 l/h. **With integral Vitosolic 100, type SD1.**	Z021902 **1.290,–**	Part no. **Euro**
Solar-Divicon, type PS 20 With variable speed high efficiency circulation pump for alternating current. Delivery head: 6.5 m at a pump rate of 1500 l/h. **Without control unit for solar thermal systems.**	Z021904 **1.007,–**	Part no. **Euro**

Solar pump assembly (single line pump station for a second collector circuit)
- Fill valves
- Thermometer
- Ball valve with check valve
- Circulation pump
- Flow indicator
- Thermal insulation
- Locking ring fitting/double O-ring 22 mm

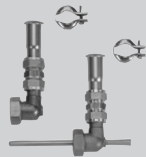|		
Solar pump assembly, type P 10 With variable speed high efficiency circulation pump for alternating current. Delivery head: 6.0 m at a pump rate of 1000 l/h.	Z021908 **590,–**	Part no. **Euro**
Solar pump assembly, type P 20 With variable speed high efficiency circulation pump for alternating current. Delivery head: 6.5 m at a pump rate of 1500 l/h.	Z021909 **882,–**	Part no. **Euro**
Solar safety valve (8 bar) - For use in solar thermal systems with Vitosol-FM/-TM collectors and **system heights** of 20 m and above - For installation in Solar-Divicon, type PS10 (replaces integral 6 bar safety valve) - ½ x ¾ (female)	ZK02581 **42,–**	Part no. **Euro**
Solar safety valve (8 bar) - For use in solar thermal systems with Vitosol-FM/-TM collectors and **system heights** of 20 m and above - For installation in Solar-Divicon, type PS20 (replaces integral 6 bar safety valve) - ¾ x 1 (female)	ZK02458 **29,–**	Part no. **Euro**

9.4

8/2023

5812348

VITOSOL

Accessories
Installation

Accessories		MG **WO**
Heat meter For solar thermal systems with "Tyfocor LS" heat transfer medium ■ For **wall mounting in conjunction with Solar-Divicon**, type PS10. ■ For installation on **DHW cylinders** with fitted Solar-Divicon, type PS10. ■ Captures flow and return temperatures. ■ Captures the flow rate; nominal flow rate 1.5 m³/h. ■ Displays energy amount, heating output, flow rate and flow/return temperatures.	Z021910 **738,–**	Part no. **Euro**
Connecting tee For Solar-Divicon. To connect the expansion vessel or stagnation cooler in the Solar-Divicon flow line. Locking ring fitting/double O-ring 22 mm.	7172731 **104,–**	Part no. **Euro**
Connection line (flexible, DN 16, **24 m long**) ■ For the connection between Solar-Divicon and the solar cylinder (can be trimmed) ■ Stainless steel corrugated pipe with thermal insulation	7143745 **802,–**	Part no. **Euro**
Installation set for connection line ■ 2 threaded elbows ■ 2 threaded fittings ■ 8 insertion sleeves ■ Gaskets ■ Pipe clips		
Installation set for connection line For connection to **Vitocell 340-M, Vitocell 360-M, Vitocell 140-E** and **Vitocell 160-E.**	7373473 **113,–**	Part no. **Euro**
Installation set for connection line For connection to **Vitocell 100-B** with 400 and 500 l capacity.	7373474 **149,–**	Part no. **Euro**
Installation set for connection line For connection to **Vitocell 100-B** with 300 litre capacity and **Vitocell 300-B** with 300 litre capacity. For connection to Vitocal 060-A T0S-ze.	7373475 **149,–**	Part no. **Euro**
Installation set for connection line For connection to **Vitocell 300-B** with 500 l capacity.	7373476 **149,–**	Part no. **Euro**
Air separator (brass) ■ With automatic air vent valve and shut-off valve ■ With locking ring fitting (Ø 22 mm)	ZK03779 **78,–**	Part no. **Euro**
Quick-action air vent valve (brass) ■ With shut-off valve and tee ■ With locking ring fitting (Ø 22 mm)	ZK03780 **69,–**	Part no. **Euro**
Locking ring fitting (brass) ■ 2 pce ■ Straight fitting for Ø 22 mm	7316568 **37,–**	Part no. **Euro**
Locking ring fitting with air vent valve (brass) Straight fitting for Ø 22 mm.	7316263 **14,–**	Part no. **Euro**

9.4

Accessories
Installation

Accessories		MG **WO**
Connecting cables ■ 2 pce, 1000 mm long ■ Connection diameter 22 mm ■ Stainless steel corrugated pipe ■ With locking ring fitting (Ø 22 mm) ■ With thermal insulation (UV-resistant)	7316252 **143,–**	Part no. **Euro**
Solar flow and return line (DN 16) ■ 2 stainless steel corrugated pipes (each **15 m** long) ■ With thermal insulation and sensor lead ■ 4 locking ring fittings (Ø 22 mm)	7419567 **654,–**	Part no. **Euro**
Solar flow and return line (DN 16) ■ 2 stainless steel corrugated pipes (each **12 m** long) ■ With thermal insulation and sensor lead ■ 4 locking ring fittings (Ø 22 mm)	7373478 **575,–**	Part no. **Euro**
Solar flow and return line (DN 16) ■ 2 stainless steel corrugated pipes (each **6 m** long) ■ With thermal insulation and sensor lead ■ 4 locking ring fittings (Ø 22 mm)	7373477 **316,–**	Part no. **Euro**
Connection accessories for residual lengths of solar flow and return line (2 pce required in each case)		
Connection set For connecting the solar lines to the pipework of the solar thermal system. (Corrugated pipe to Ø 22 mm pipe)	7817368 **36,–**	Part no. **Euro**
Connection set with locking ring fitting (Ø 22 mm) For connecting the solar lines to the pipework of the solar thermal system.	7817369 **45,–**	Part no. **Euro**
Connecting kit To connect/extend two solar lines.	7817370 **45,–**	Part no. **Euro**
Solar expansion vessel, **18 litres**, 10 bar ■ Pre-charge pressure 4.5 bar ■ Colour: White ■ With shut-off valve and fixings	7248241 **104,–**	Part no. **Euro**
Solar expansion vessel, 25 litres, 10 bar ■ Pre-charge pressure 4.5 bar ■ Colour: White ■ With shut-off valve and fixings	7248242 **134,–**	Part no. **Euro**
Solar expansion vessel, 40 litres, 10 bar ■ Pre-charge pressure 4.5 bar ■ Colour: White ■ With shut-off valve and fixings	7248243 **171,–**	Part no. **Euro**
Solar expansion vessel, 50 litres, 10 bar ■ Pre-charge pressure 4.5 bar ■ Colour: White ■ With shut-off valve and fixings	7248244 **258,–**	Part no. **Euro**
Solar expansion vessel, 80 litres, 10 bar ■ Pre-charge pressure 4.5 bar ■ Colour: White ■ With shut-off valve and fixings	7248245 **360,–**	Part no. **Euro**
Stagnation cooler, type 21 To protect the system components against excess temperatures. For sizing, see "SOLSEC" program at www.viessmann.de. ■ Output at 75/65 °C: 482 W ■ Cooling capacity during stagnation: 964 W	Z007429 **219,–**	Part no. **Euro**

9.4

5812348

VITOSOL

Accessories
Installation

Accessories		MG **WO**
Stagnation cooler, type 33 To protect the system components against excess temperatures. For sizing, see "SOLSEC" program at www.viessmann.de. ■ Output at 75/65 °C: 834 W ■ Cooling capacity during stagnation: 1668 W	Z007430 **273,–**	Part no. **Euro**
Pre-cooling vessel ■ To protect the solar expansion vessel against excess temperatures ■ **12 litres**, 10 bar	7188623 **108,–**	Part no. **Euro**
Antifreeze tester for heat transfer medium	7316074 **55,–**	Part no. **Euro**
Line regulating valve For hydronic balancing of solar collector arrays ■ With locking ring fitting Ø 22 mm ■ Max. operating temperature: 200 °C ■ **Up to 5 collectors**	ZK01510 **192,–**	Part no. **Euro**
Line regulating valve For hydronic balancing of solar collector arrays ■ With locking ring fitting Ø 22 mm ■ Max. operating temperature: 200 °C ■ **5 or more collectors**	ZK01511 **192,–**	Part no. **Euro**

Please note:
■ **Stagnation coolers or pre-cooling vessels are not required in conjunction with Vitosol -FM and -TM collectors.** The solar thermal system pressure must be adjusted according to the manufacturer's instructions.
■ For adjusting the line regulating valve in solar collector arrays, we recommend a type Oventrop OV-DMC 2 flow meter.

9.4

VIESSMANN

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Accessories
Installation

Heat transfer medium

	Part no.	
Fill valve ■ For flushing, filling and draining solar thermal systems ■ With locking ring fittings (Ø 22 mm)	7316261 **77,–**	Part no. **Euro** **MG WO**
Filling station ■ Self-priming impeller pump, 30 litres/min ■ Dirt filter (intake side) ■ Hose, 0.5 m long (intake side) ■ Connection hose, 2.5 m long (2 pce) ■ Packing crate (can be used as flushing tank)	7188625 **761,–**	Part no. **Euro** **MG N**
Filling trolley ■ Self-priming impeller pump (30 l/min) ■ Dirt filter (intake side) ■ Hose (intake side, 0.5 m long) ■ Connection hose (2 pce, each 3 m long) ■ Canister for heat transfer medium	7172590 **841,–**	Part no. **Euro** **MG N**
Solar manual fill pump For topping up and raising the pressure.	ZK02962 **128,–**	Part no. **Euro** **MG WO**
"Tyfocor LS" heat transfer medium **25 litres** in a disposable container. Ready mixed, down to -28 °C. Tyfocor LS can be mixed with Tyfocor G-LS.	7159727 **206,–**	Part no. **Euro** **MG WO**
"Tyfocor LS" heat transfer medium **200 litres** in a disposable container. Ready-mixed down to -28 °C. Tyfocor LS can be mixed with Tyfocor G-LS.	7159729 **1.663,–**	Part no. **Euro** **MG WO**

Please note:
Use commercially available parts as additional installation accessories. Do not use zinc-plated pipes, zinc-plated fittings or graphitised IT gaskets.
Please note:
■ For DN 32 sized solar pump stations. For connection accessories such as air separator/solar connecting lines and connection set in larger sizes, see Vitoset Pricelist.
■ Observe technical guides on solar thermal systems and max. aperture areas that can be connected.

9.4

VITOSOL

Accessories

Accessories		
Miscellaneous		
Transport aid for flat-plate collectors 4 length adjustable straps with mounting rails.	7188503 **113,–**	Part no. **Euro** **MG N**
Transport aid For installation on the flat-plate collector. For installation support with a crane or when using a rope for installing and securing collectors on the roof.	ZK01512 **27,–**	Part no. **Euro** **MG WO**
Tarpaulin For Vitosol **flat-plate collectors** with a gross area of **2.5 m²** Reusable, opaque tarpaulin to protect the collectors.	ZK03782 **166,–**	Part no. **Euro** **MG WO**
Tarpaulin For Vitosol **flat-plate collectors** with a gross area of **2.2 m²** Reusable, opaque tarpaulin to protect the collectors.	ZK03783 **83,–**	Part no. **Euro** **MG WO**
Tarpaulin (2 pce) For **Vitosol 300-TM, type SP3C (1.51 m²)** Reusable, opaque tarpaulin to protect the collectors.	ZK02009 **58,–**	Part no. **Euro** **MG WO**
Tarpaulin (2 pce) For **Vitosol 300-TM, type SP3C (3.03 m²)** Reusable, opaque tarpaulin to protect the collectors.	ZK02010 **105,–**	Part no. **Euro** **MG WO**
Tarpaulin (2 pce) For **Vitosol 200-TM, type SPEA (1.63 m²)** Reusable, opaque tarpaulin to protect the collectors.	ZK02011 **54,–**	Part no. **Euro** **MG WO**
Tarpaulin (2 pce) For **Vitosol 200-TM, type SPEA (3.26 m²)** Reusable, opaque tarpaulin to protect the collectors.	ZK02012 **65,–**	Part no. **Euro** **MG WO**
Solar line roof outlet (**terracotta**) ■ For solar flow line and return line ■ Pivoting outlet; connection from the bottom, left or right ■ For tiled roof cover	ZK02013 **169,–**	Part no. **Euro** **MG WO**
Solar line roof outlet (**black**) ■ For solar flow line and return line ■ Pivoting outlet; connection from the bottom, left or right ■ For tiled roof cover	ZK02014 **169,–**	Part no. **Euro** **MG WO**
Solar line roof outlet (**brown**) ■ For solar flow line and return line ■ Pivoting outlet; connection from the bottom, left or right ■ For tiled roof cover	ZK02015 **169,–**	Part no. **Euro** **MG WO**
Solar service case For carrying out commissioning, maintenance and functional checks of solar thermal systems: ■ Manual refractometer ■ Digital multimeter ■ Pressure gauge ■ Compass ■ pH test strips ■ Testing and information labels	7248299 **299,–**	Part no. **Euro** **MG N**

►*For DHW cylinders for solar thermal systems, see Register 10.*
►*For freshwater modules, see Register 10.10.*
►*For control units for solar thermal systems, see Register 9.5.*

9.4

5812348

Solar DHW heating and central heating backup

Solar control module, type SM1

Function extension inside enclosure for wall mounting.
Electronic temperature differential control for dual mode DHW heating and central heating backup using solar collectors.
■ With output statement and diagnostic system
■ Operation and display via the Vitotronic control unit
■ Heating of two consumers via a collector array
■ Second temperature differential control unit
■ Thermostat function for reheating or utilising excess heat
■ Speed control for solar circuit pump with PWM input (make: Grundfos and Wilo)
■ Suppression of DHW cylinder reheating by the heat generator, subject to solar yield
■ Suppression of reheating for heating by the heat generator with central heating backup
■ Heat-up of the solar preheating stage (for DHW cylinders with capacity of 400 l or more)

Order the immersion temperature sensor, part no. 7438702, if the following functions are required:
■ For DHW circulation changeover in systems with 2 DHW cylinders
■ For return changeover between the heat generator and the heating water buffer cylinder
■ For heating additional consumers

To extend the functionality of the boiler control units:
■ Vitotronic 100, type GC7B, HC1A, HC1B, KC2B, KC4B, CC1I, CC1E
■ Vitotronic 200, type GW7B, HO1A, HO1B, HO2B, HO2C, KO1B, KO2B, KW6A, KW6B, CO1I, CO1E, WO1C
■ Vitotronic 300, type CM1I, CM1E, MW1B, MW2B

MG WO

Z014470
622,–

Part no.
Euro

Standard delivery: Solar control module with
■ Collector temperature sensor
■ Cylinder temperature sensor

Vitosolic 100

Vitosolic 100, type SD1

Electronic temperature differential control for dual mode DHW heating with solar collectors, oil/gas boilers and solid fuel boilers.
■ For wall mounting
■ With collector temperature sensor and cylinder temperature sensor
■ With digital temperature display, output statement and diagnostic system
■ Solar circuit pump speed control via pulse pack control or solar circuit pump with PWM input (Grundfos, Wilo)
■ In heating systems with KM-BUS:
Suppression of DHW cylinder reheating by the boiler.
Heat-up of the solar preheating stage (for DHW cylinders with 400 l capacity or more).
■ In heating systems without KM-BUS:
Suppression of DHW cylinder reheating by the boiler.

MG WO

Z007387
524,–

Part no.
Euro

9.5

Standard delivery: Vitosolic 100
■ Collector temperature sensor
■ Cylinder temperature sensor

Control units for solar thermal systems

- Solar control module
- Vitosolic 100/200

Vitosolic 200

Vitosolic 200, type SD4
Electronic temperature differential control for dual mode DHW heating or dual mode DHW and swimming pool heating or central heating backup using solar collectors, oil/gas boilers and solid fuel boilers.
- For systems with up to 4 consumers
- For wall mounting
- With collector temperature sensor and 2 temperature sensors
- With digital temperature display, output statement and diagnostic system
- Solar circuit pump speed control via pulse pack control or solar circuit pumps with PWM input (Grundfos, Wilo)
- With option to connect a heat meter and/or solar cell
- The operating values of the solar thermal system can be recorded using the SD memory card (memory capacity up to 32 GB, FAT file system)
- In heating systems with KM-BUS:
Suppression of DHW cylinder reheating by the boiler.
Heat-up of the solar preheating stage (with DHW cylinders from 400 litre capacity).
- In heating systems without KM-BUS:
Suppression of DHW cylinder reheating by the boiler.

MG WO

Z007388
1.186,–
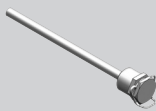
Part no.
Euro

Standard delivery: Vitosolic 200
- Collector temperature sensor
- 2 temperature sensors

9.5

5812349

Accessories	Control unit versions			
	Solar control module	Vitosolic 100	Vitosolic 200	
Miscellaneous				**MG W**
Contactor relay Contactor in small enclosure ■ With 4 N/C and 4 N/O contacts ■ With terminal strips for protective conductors Rated current: AC1 16 A, AC3 9 A Coil voltage: 230 V/50 Hz	7814681 **199,–**			Part no. **Euro**
Sensors				**MG WO**
Immersion temperature sensor (NTC 10 kOhm) ■ To capture the temperature in a sensor well ■ With connecting lead (5.8 m long) and plug	7438702 **110,–**	–		Part no. **Euro**
Immersion temperature sensor (NTC 10 kOhm) With connecting lead (3.8 m long), without plug. For installation in the DHW cylinder, heating water buffer cylinder, combi cylinder. ■ For DHW circulation diversion in systems with 2 DHW cylinders. ■ For return changeover between the boiler and the heating water buffer cylinder. ■ For heating additional consumers. ■ For a heat statement (return temperature is captured).	–	7426247 **105,–**		Part no. **Euro**
Collector temperature sensor (NTC 20 kOhm) Immersion temperature sensor. With connecting lead (2.5 m long), without plug. ■ For systems with 2 collector arrays ■ For heat statement (recording flow temperature)	–	7831913 **90,–**		Part no. **Euro** **MG E**
Stainless steel sensor well R ½, 200 mm long.	7819693 **67,–**			Part no. **Euro** **MG W**
Solar				**MG WO**
Flow meter 15 (DN 20) Nominal flow rate 1.5 m³/h ■ For a heat statement (flow rate is captured)	–	7418207 **262,–**		Part no. **Euro**
Flow meter 25 (DN 20) Nominal flow rate 2.5 m³/h. ■ For a heat statement (flow rate is captured)	–	7418208 **262,–**		Part no. **Euro**
Flow meter 35 (DN 25) Nominal flow rate 3.5 m³/h. ■ For a heat statement (flow rate is captured)	–	7418209 **623,–**		Part no. **Euro**
Flow meter 60 (DN 32) Nominal flow rate 6.0 m³/h. ■ For a heat statement (flow rate is captured)	–	7418210 **623,–**		Part no. **Euro**

9.5

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Control units for solar thermal systems
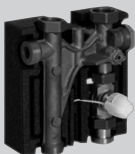
Accessories

Accessories	Control unit versions				
	Solar control module	Vitosolic 100	Vitosolic 200		
Solar					**MG WO**
Solar cell Solar cell CS10, with connecting cable (2.3 m long) and universal mount, without plug. ■ To establish the intensity of solar radiation ■ To control the circulation pump for the bypass circuit	–	7408877 **65,–**			Part no. **Euro**
Large display To visualise the collector and cylinder temperature as well as the energy yield. With plug-in power supply unit.	–	7438325 **3.258,–**			Part no. **Euro**
High limit temperature cut-out device					**MG W**
High limit temperature cut-out device ■ **For installation in the DHW cylinder**. With a thermostatically controlled system. ■ Required if a cylinder volume of less than 40 litres is available per m² absorber area. This safely prevents temperatures above 95 °C in the DHW cylinder. ■ With stainless steel sensor well G ½, 200 mm long	Z001889 **166,–**				Part no. **Euro**
Temperature controller/limiter					
Temperature controller ■ With stainless steel sensor well G ½, 200 mm long ■ Setting range: 30 to 80 °C	Z001887 **158,–**				Part no. **Euro** **MG W**
Pressure switch For monitoring system pressure in the solar circuit (leaks). Use in water conservation areas and with solar thermal systems with solar heat transfer medium capacity > 220 l against the backdrop of the German "Ordinance on facilities for handling substances that are hazardous to water" (AwSV). ■ Adjustable pressure monitor (e.g. 0 to 10 bar) ■ Adjustable between 5 and 90 % of nominal pressure ■ With floating alarm contact ■ Compatible with Viessmann heat transfer medium (Tyfocor L/LS) ■ Operating medium connections G 1/4 ■ Max. operating temperature 120 °C	ZK03781 **2.090,–**				Part no. **Euro** **MG WO**
Accessories					
Temperature controller ■ With a thermostatic system ■ With top-hat rail to be mounted to the DHW cylinder or on the wall ■ Setting range 30 to 60 °C, adjustable up to 110 °C ■ Length of capillary tube 1400 mm, sensor Ø 6 mm ■ Without sensor well For Vitocell 100-V and 100-B, Vitocell 300-V and 300-B, Vitocell 340-M and 360-M.	7151989 **114,–**				Part no. **Euro** **MG W**

9.5

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Accessories	Control unit versions			
	Solar control module	Vitosolic 100	Vitosolic 200	
Accessories				
Thermostatic DHW circulation set For integration in domestic hot water systems **with** DHW circulation pipe. ■ Automatic thermostatic mixing valve ■ Setting range: 35 to 60 °C ■ Integral non-return valves ■ Threaded connection R ¾ ■ Thermal insulation	ZK01284 **337,–**			Part no. **Euro** **MG W**
Automatic thermostatic mixing valve For integration in hot water systems **without** DHW circulation pipe ■ Setting range: 35 to 60 °C ■ Threaded connection G 1, flat gasket	7438940 **85,–**			Part no. **Euro** **MG W**
Heating circuit				**MG W**
Distributor for solar central heating backup Connection assembly for straightforward installation between the boiler flue connection and Divicon heating circuit distributor. Can be mounted either on the boiler or the wall. Nominal diameter R1, can be used for nominal flow rates of up to 2.5 m³/h. ■ Distributor ■ 3-way diverter valve ■ Thermal insulation ■ Sensor well for return temperature sensor	7441163 **594,–**			Part no. **Euro**

9.5

Control units for solar thermal systems

Accessories

Accessories for the DHW cylinder of the solar thermal system and the Vitotronic of floorstanding boilers		
Accessories		MG **W**
Threaded elbow For the installation of a cylinder temperature sensor for solar operation. ■ Vitocell 100-V, type CVAA, CVAB-A 160 to 300 litre capacity ■ Vitocell 300-V, type EVIA-A, 160 to 300 litre capacity ■ Vitocell 300-V, type EVIA-A+, 160 and 200 litre capacity *Included in the standard delivery for Vitocell 100-B and 300-B.*	7175213 **41,–**	Part no. **Euro**
Threaded elbow For the installation of a cylinder temperature sensor for solar operation. ■ Vitocell 100-V, type CVA, 500 l capacity ■ Vitocell 300-V, type EVIA-A, 500 litre capacity *Included in the standard delivery for Vitocell 100-B and 300-B.*	7175214 **41,–**	Part no. **Euro**
Threaded elbow For the installation of a cylinder temperature sensor for solar operation. ■ Vitocell 100-V, type CVAA, 750 and 950 l capacity	7219729 **41,–**	Part no. **Euro**
PCB For suppression of DHW cylinder reheating by the boiler and implementation of the auxiliary function for DHW heating in conjunction with the following Vitotronic control units. ■ **For Vitotronic 200, type KW1** with part no. 7450351 and 7450740 ■ **For Vitotronic 200, type KW2** with part no. 7450352 and 7450750 ■ **For Vitotronic 300, type KW3** with part no. 7450353 and 7450760	7828192 **151,–**	Part no. **Euro**
PCB For suppression of DHW cylinder reheating by the boiler and implementation of the auxiliary function for DHW heating in conjunction with the following Vitotronic control units. ■ **For Vitotronic 200, type GW1** with part no. 7143006 ■ **For Vitotronic 300, type GW2** with part no. 7143156	7831930 **173,–**	Part no. **Euro**
PCB For suppression of DHW cylinder reheating by the boiler and implementation of the auxiliary function for DHW heating in conjunction with the following Vitotronic control units. ■ **For Vitotronic 333, type MW1** with part no. 7143421	7828194 **145,–**	Part no. **Euro**

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