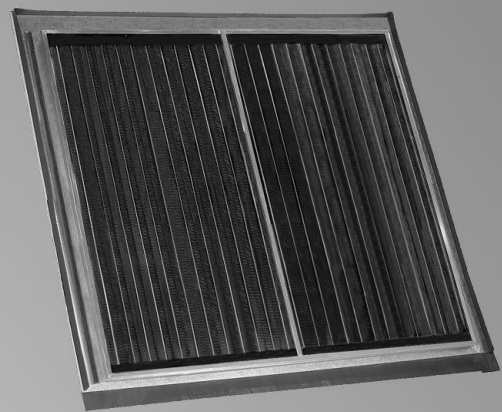


Datasheet

Part no. and prices: see pricelist



Vitosol 200-F



Vitosol 200-F, 5DI

VITOSOL 200-F Type SV2A/B and SH2A/B

Flat-plate collector for vertical or horizontal installation, for installation on flat and pitched roofs as well as for integration into roofs and freestanding installation. Type SH2A/B also for walls.

VITOSOL 200-F Type 5DIA

Large area flat-plate collector for integration into pitched pan-tiled roofs.

Product description – Vitosol 200-F, type SV2A/B and SH2A/B

The main component of the Vitosol 200-F, type SV2A/SH2A is the highly selectively coated absorber. It ensures a high absorption of insolation and low emission of thermal radiation. A meander-shaped copper pipe through which the heat transfer medium flows is part of the absorber.

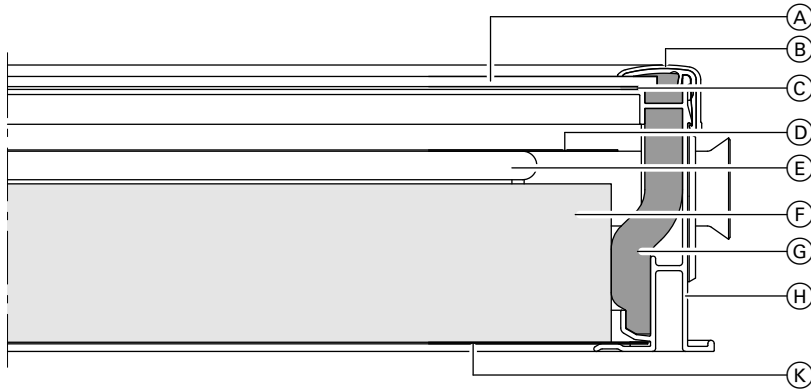
The heat transfer medium absorbs the absorber heat through the copper pipe. The absorber is encased in a highly insulated collector housing that minimises the thermal losses of the collector.

The high-grade thermal insulation provides temperature stability and is free from gas emissions. The cover comprises a solar glass panel. The glass has a very low iron content, thereby reducing reflection losses.

Up to 12 collectors can be combined together to create a single collector array. For this purpose, the standard delivery includes flexible connecting pipes with O-rings.

A connection set with locking ring fittings enables the collector array to be readily connected to the pipes of the solar circuit. The collector temperature sensor is mounted in a sensor well set in the solar circuit flow.

The Vitosol 200-F, type SV2B/SH2B with a special absorber coating is designed for coastal regions (see chapter "Specification").



- | | |
|---|--|
| <ul style="list-style-type: none"> Ⓐ Solar glass cover, 3.2 mm Ⓑ Aluminium cover strip Ⓒ Pane gasket Ⓓ Absorber Ⓔ Meander-shaped copper pipe | <ul style="list-style-type: none"> Ⓕ Melamine epoxy foam insulation Ⓖ Melamine epoxy foam insulation Ⓗ Aluminium frame in RAL 8019 Ⓚ Steel bottom plate with an aluminium-zinc coating |
|---|--|

Product description – Vitosol 200-F, type 5DIA

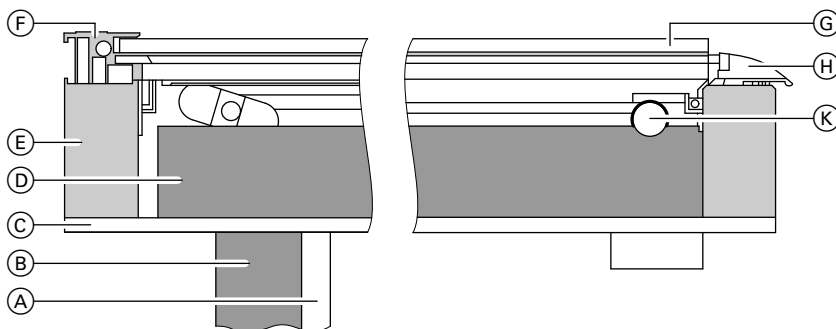
The main component of the Vitosol 200-F, type 5DIA, is the absorber designed with a selective coating. It ensures a high absorption of insolation and low emission of thermal radiation. A copper pipe through which the heat transfer medium flows is fitted to the absorber.

The heat transfer medium absorbs the absorber heat through the copper pipe. The absorber is encased in a highly insulated collector housing that minimises the thermal losses of the collector.

The high-grade thermal insulation provides temperature stability and is free from gas emissions. The collector is covered with a solar glass panel. The glass has a very low iron content, thereby reducing reflection losses.

At the back of the collector are flexible, thermally insulated flow and return pipes as well as the sensor well for the collector temperature sensor.

Vitosol 200-F, type 5DIA, designed for roof integration.



- | | |
|--|---|
| <ul style="list-style-type: none"> Ⓐ Conduit for sensor lead Ⓑ Flexible connecting pipe with thermal insulation Ⓒ MDF board Ⓓ Thermal insulation | <ul style="list-style-type: none"> Ⓔ Reinforcing frame Ⓕ Rubber seal Ⓖ Solar glass cover |
|--|---|



Product description – Vitosol 200-F, type 5DIA (cont.)

- (H) Cover strip
- (K) Absorber

Benefits – Vitosol 200-F, type SV2A/B and SH2A/B

- Powerful flat-plate collector with a highly selectively coated absorber.
- Absorber designed as meander layout with integral headers. Up to 12 collectors can be linked in parallel.
- Universal application for above roof and freestanding installation — either in vertical (type SV) or horizontal (type SH) orientation. Type SH is suitable for installation on walls.
- Attractive collector design; frame in RAL 8019 (brown). Upon request, the frame is also available in all other RAL colours.
- The selectively coated absorber, the highly effective thermal insulation and the cover made from low ferrous solar glass ensure a high solar yield.
- Permanently sealed and highly stable through all-round folded aluminium frame and seamless pane seal.
- Puncture-proof and corrosion-resistant back panel.
- Easy to assemble Viessmann fixing system with statically-tested and corrosion-resistant components made from stainless steel and aluminium – standard for all Viessmann collectors.
- Quick and reliable collector connection through flexible corrugated stainless steel pipe push-fit connectors.

Benefits – Vitosol 200-F, type 5DIA

- Large area flat-plate collector with selective coating.
- High efficiency through highly selectively coated absorber, integral piping and highly effective insulation.
- Absorber area: 4.75 m²
- Quick installation due to the flashing frame fitted onto the collector for roof integration, flexible connection lines and lifting eyes.

Specification – Vitosol 200-F, type SV2A/B and SH2A/B

Vitosol 200-F is available with 2 different absorber coatings. Type SV2B/SH2B has a special absorber coating that allows these collectors to be used in coastal regions.

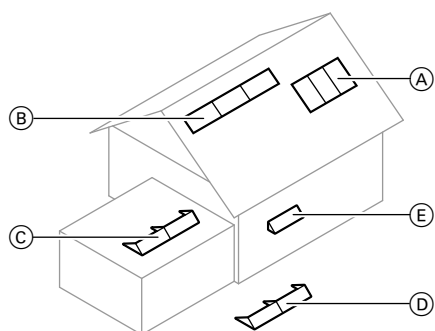
Note

Viessmann accepts no liability if type SV2A/SH2A is used in such regions.

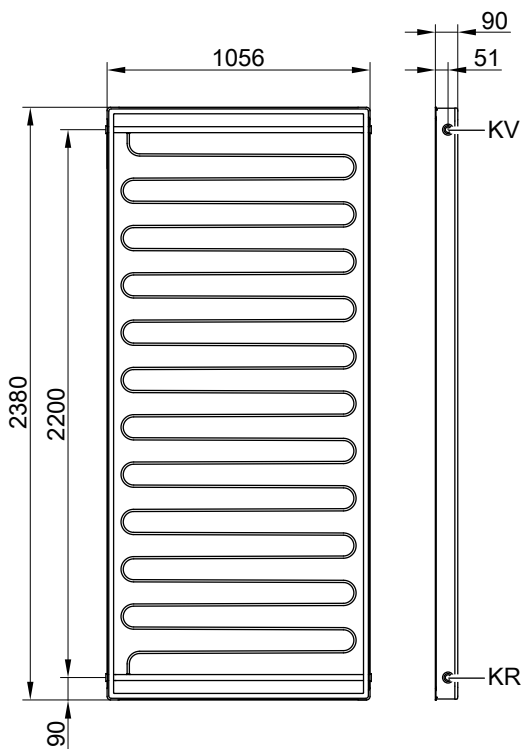
Distance to the coast:

- up to 100 m:
only use type SV2B/SH2B
- between 100 and 1000 m:
type SV2B/SH2B is recommended

Type		SV2A	SH2A	SV2B	SH2B
Gross area (required when applying for subsidies)	m ²				2.51
Absorber area	m ²				2.32
Aperture area	m ²				2.33
Installation position (see following diagram)		Ⓐ (above roof and roof integration), Ⓒ, Ⓓ	Ⓑ (above roof and roof integration), Ⓒ, Ⓓ, Ⓔ	Ⓐ (above roof and roof integration), Ⓒ, Ⓓ	Ⓑ (above roof and roof integration), Ⓒ, Ⓓ, Ⓔ
Clearance between collectors	mm				21
Dimensions					
Width	mm	1056	2380	1056	2380
Height	mm	2380	1056	2380	1056
Depth	mm	90	90	90	90
The following values apply to the absorber area:					
– Optical efficiency	%				79.3
– Heat loss factor k₁	W/(m ² · K)				4.04
– Heat loss factor k₂	W/(m ² · K ²)				0.0182
Thermal capacity	kJ/(m ² · K)				5.0
Weight	kg				41
Liquid content (heat transfer medium)	litre	1.83	2.48	1.83	2.48
Permiss. operating pressure (see chapter "Solar expansion vessel")	bar/MPa				6/0.6
Max. stagnation temperature	°C				186
Steam output					
– Favourable installation position	W/m ²				60
– Unfavourable installation position	W/m ²				100
Connection	Ø mm				22

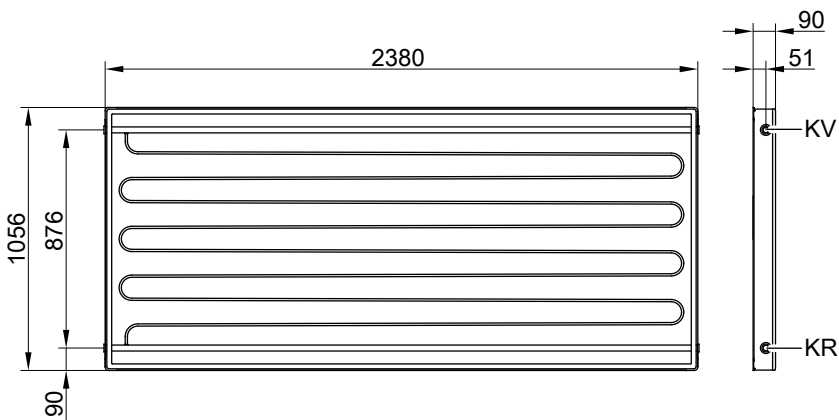


Specification – Vitosol 200-F, type SV2A/B and SH2A/B (cont.)



Type SV2A/SV2B

KR Collector return (inlet)
KV Collector flow (outlet)



Type SH2A/SH2B

KR Collector return (inlet)
KV Collector flow (outlet)

Specification – Vitosol 200-F, type 5DIA

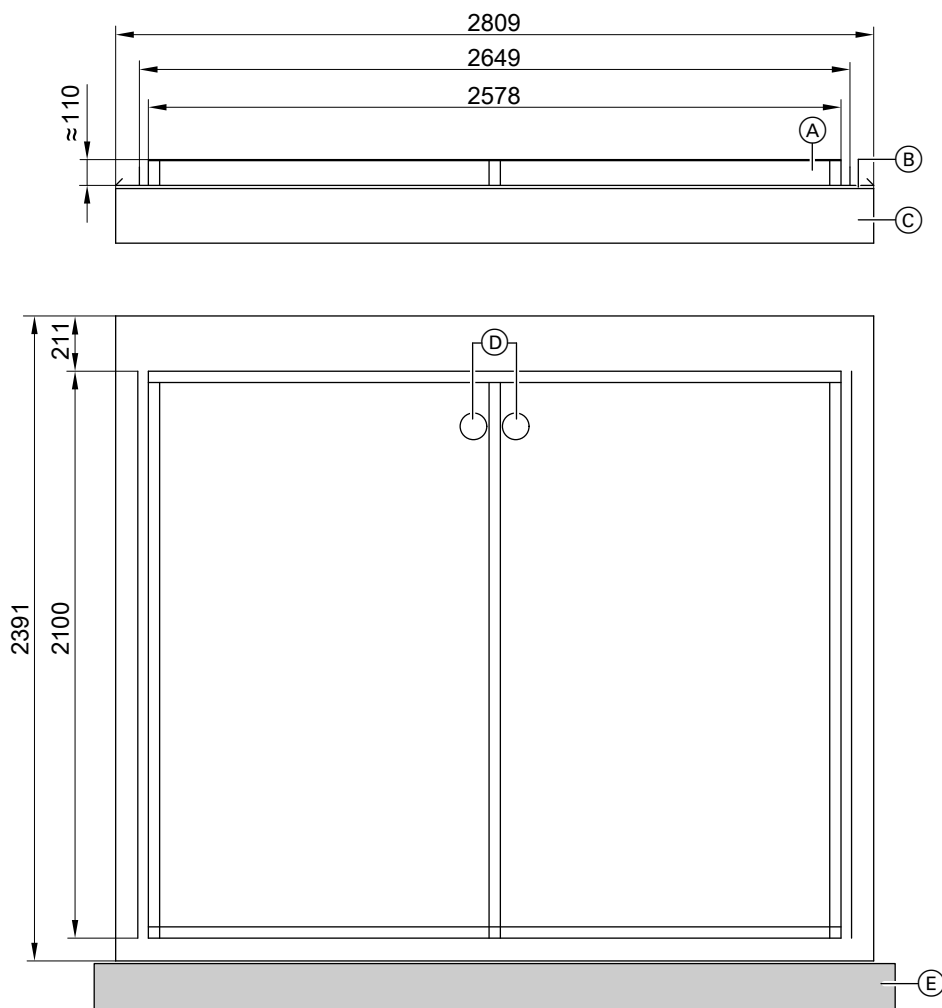
Specification

Gross area	m ²	5.41
Absorber area	m ²	4.75
Aperture area	m ²	4.92
Dimensions		
Width	mm	2578
Height	mm	2100
Depth	mm	109

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Specification – Vitosol 200-F, type 5DIA (cont.)

Optical efficiency	%	78.5
Heat loss factor k_1	W/(m ² · K)	4.10
Heat loss factor k_2	W/(m ² · K ²)	0.0065
Thermal capacity	kJ/(m ² · K)	6.4
Weight	kg	105
Liquid content (heat transfer medium)	litre	4.2
Permiss. operating pressure	bar/MPa	6/0.6
Max. stagnation temperature	°C	220
Connection	Ø mm	22
Requirements of base structure and fixings	with sufficient ballast to counteract prevailing wind forces	



- (A) Collector
- (B) Flashing frame
- (C) Transport frame

- (D) Hydraulic connections
- (E) Aluminium apron

Tested quality

Approved quality

The collectors meet the requirements of the "Blue Angel" certificate of environmental excellence to RAL UZ 73.

Tested in accordance with Solar KEYMARK and EN 12975.



CE designation according to current EC Directives.



Subject to technical modifications.

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