

VONARIS solitary finished radiator

VONARIS: the solitary finished radiator in a fully welded horizontal design, with 1 to 4 layers of steel rectangular water-flow pipes arranged one-behind-the-other, each layer consisting of from 2 to 11 pipes arranged one-above-the-other.

Vertical design: with 1 or 2 layers of steel rectangular water-flow pipes, arranged one-behind-the-other, each layer consisting of from 3 to 12 steel pipes, arranged side-by-side.

A 2 mm space between the heating pipes guarantees additional resistance to corrosion. **VONARIS** solitary finished radiators are equipped with a built-in valve set, suitable for either double-pipe or single-pipe operation, using a one-pipe manifold, with a factory-fitted valve (already installed) and protective cap.

VONARIS solitary finished radiators will normally be delivered with side panels. The horizontal design is also equipped

with a top cover. **VONARIS** solitary finished radiators, are not delivered with brackets as standard (exception: VHV 11, overall height 358 to 790 mm, does include brackets). For the vertical design, brackets are included. The **VONARIS** solitary finished radiator comes with a drain plug and a pivoting vent plug (with the vertical design, a dummy plug too), all of them factory-sealed.

VONARIS solitary finished radiators are Design radiators that are just waiting to be connected.

Standard design: rectangular steel pipes, 70 x 11 x 1.5 mm

High-pressure design: rectangular steel pipes, 70 x 11 x 2.0 mm

WVO design: models 22, 34 and 47 (in the horizontal design and up to an overall height of 286 mm) are also available with a rear-welded heat reflector (no water-flow). The VHV 20 model (at overall heights of 358 to 574 mm), and the VHV 22 model (overall heights 358 to 646 mm) may have a heat reflector fitted subsequently.

Dimensions:

Horizontal design: overall lengths between 500 mm and 1400 mm are available (at increments of 100 mm), and between 1600 and 4000 mm (at increments of 200 mm).

Horizontal design:
the available overall heights are
142, 214, 286, 358, 430, 502, 574, 646, and 790 mm.

Vertical design: overall lengths between
214 and 862 mm are available (at increments of 72 mm)

Vertical design: overall heights of 1600, 1800, and 2000 mm are available.

Coatings:

1. Undercoat: electrophoretic, using water-soluble paints, conforming to DIN 55900 part 1, stoved at 165° C;
2. Finish: electrostatic powder coating, conforming to DIN 55900 part 2, in a state-of-the-art facility. (On request, and at a supplementary charge, a range of RAL and sanitary ware colours can be offered.) This particularly robust coating is stoved at an object temperature of 180° C.

Packaging:

1. Cardboard packaging
2. Edge protection
3. Shrink foil

**Connections:**

horizontal design:
3 x internal thread G 1/2", and
2 x external thread G 3/4",
bottom right (by special order,
bottom left). Types VHV 20,
VHV 22, VHV 34, and VHV 46
are reversible and so can be
connected either at bottom
right or at bottom left.

vertical design:
4 x internal thread G 1/2", and
2 x external thread G 3/4",
bottom right (by special order,
bottom left).

**Maximum positive operating pressure**

Standard design: 5 bar

**Maximum positive operating pressure:**

High-pressure design
(supplementary charge): 8 bar

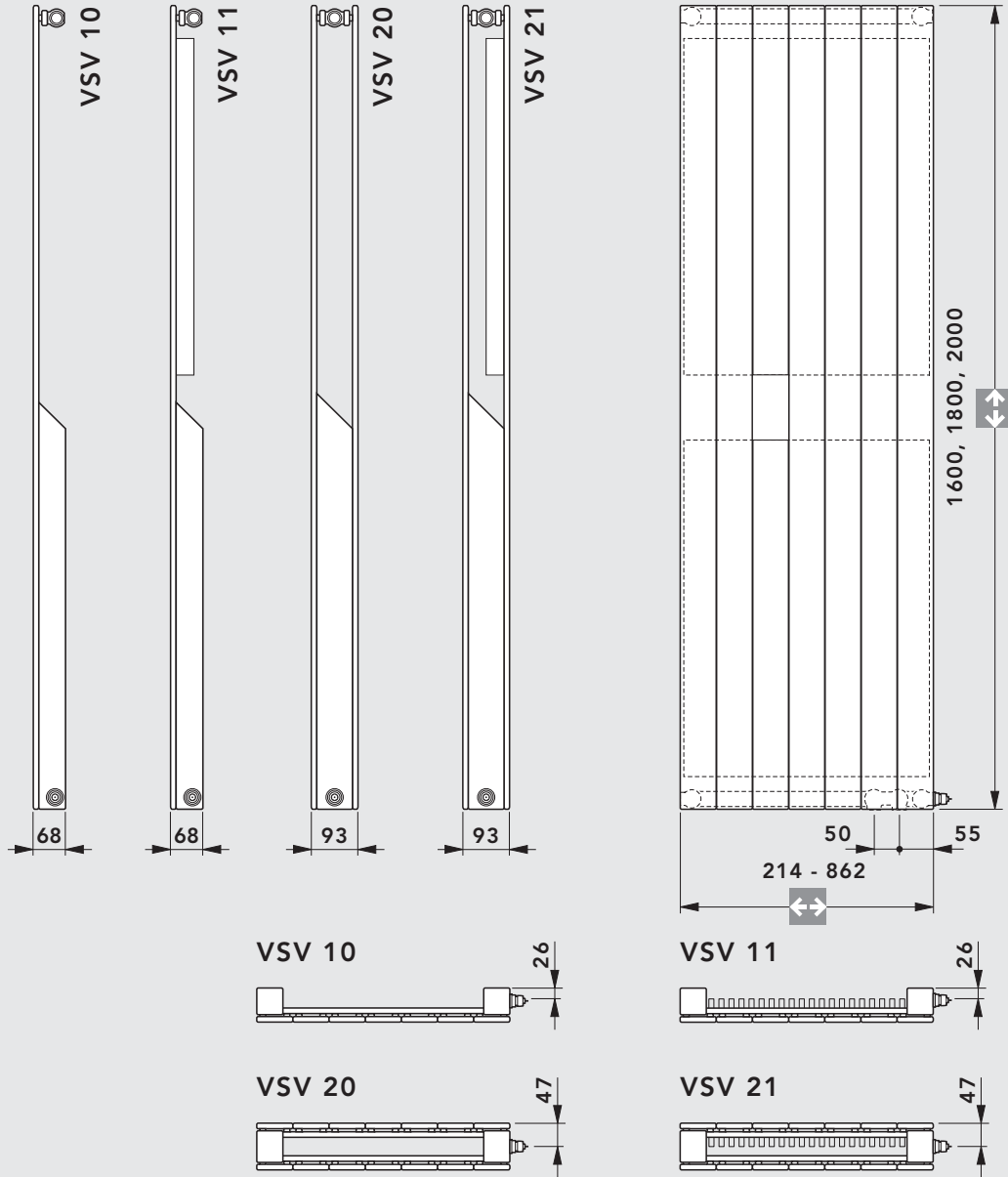
**Maximum operating temperature: 110 °C****Quality certificates****Strong brands of the highest quality**

VOGEL&NOOT offers its customers strong brands that meet highest quality standards. All the production sites' production processes are certified according to ISO. The quality and performance specifications of the convectors and heating panels have been verified by recognised European institutions.

The standards that the quality certificates require us to maintain give you security, the best heating performance and premium product quality. For the **VOGEL&NOOT** warranty conditions, please see the installation sheet, which is enclosed with each **VONARIS/KONTEC** convector or heating panel.



Vertical design, VSV models



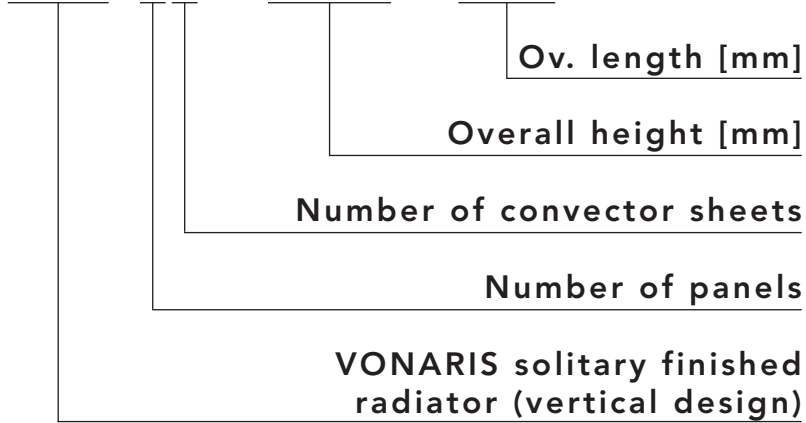
Schematic diagram

Model	VSV 10			VSV 11			VSV 20			VSV 21		
Overall height ↑↓ [mm]	1600	1800	2000	1600	1800	2000	1600	1800	2000	1600	1800	2000
Overall length ←→ [mm]	214 - 862 mm											
Increments	72 mm											

Vertical design

Model description

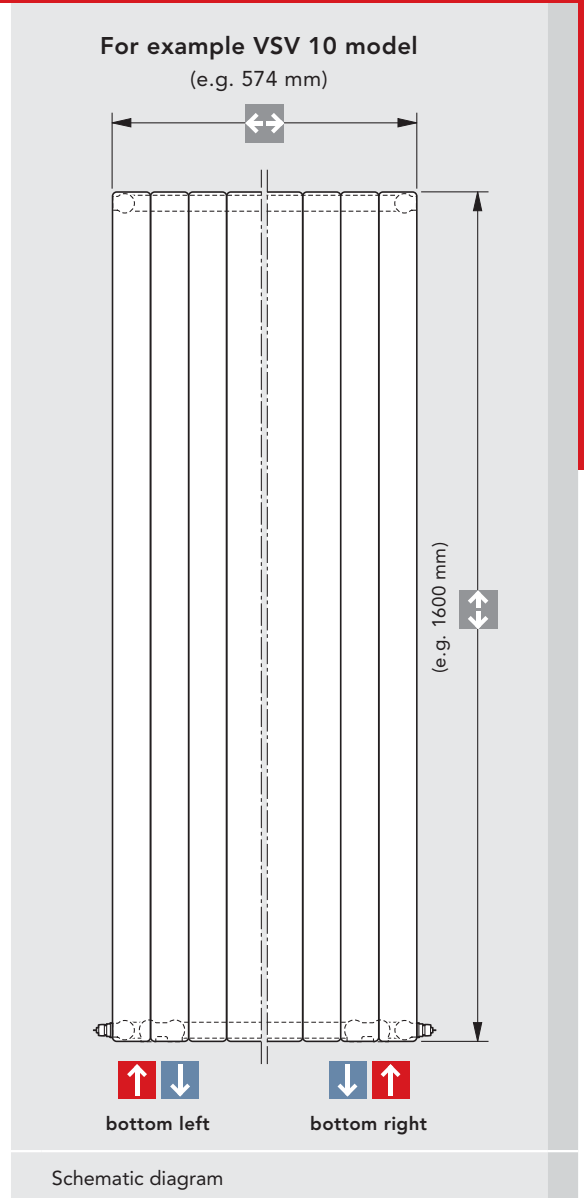
VSV 10 / 1600 / 574



For each individual horizontal design order, the following data must be specified:

- Model (VSV)
- Overall height [mm]
- Overall length [mm]
- Specification of the RAL or Sanitary-Ware Colour number
- Connections for supply / return (by default at bottom right, by special order at bottom left)
- Positive operating pressure (N (normal) = standard design 5 bar / H (high) = high-pressure design 8 bar)
- By default the VSV models will be delivered with brackets

Please note:
The supply is always towards the outside in the vertical design.



Order example:

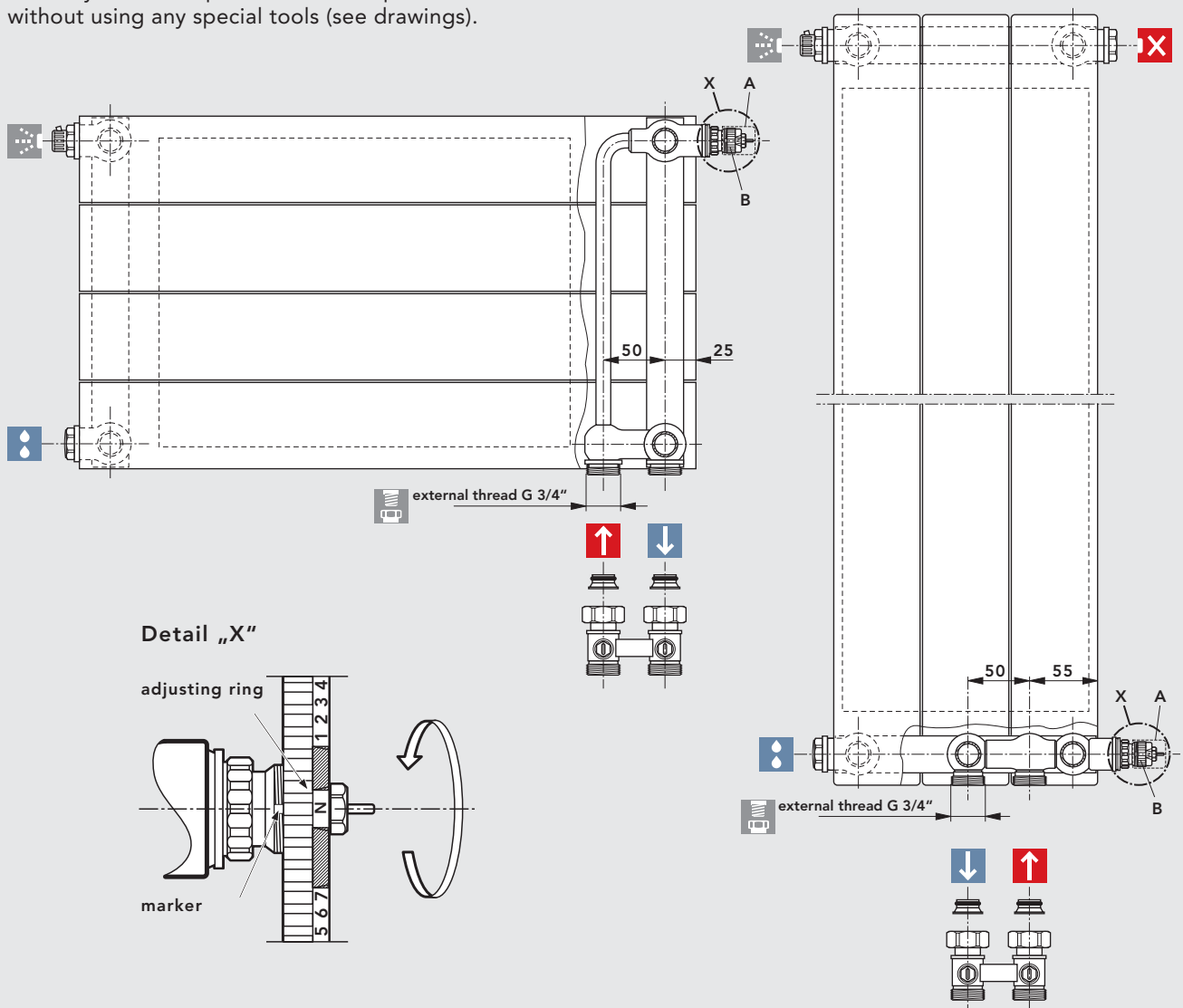
1 item in vertical design; connection bottom left; VSV 10 model; overall height 1600 mm; overall length 574 mm; colour VNF 6904; with 2 wall suspension brackets WA 11; operating pressure 8 bar (high pressure design).

Example of an order form:

Pos./ Room	Number of items	Model	Overall height	Overall length	Colour	Connections VSV	Connections VHV and VSV-S	Positive operating pressure	Brackets without = 0 with = 1	General accessories	
			[mm]	[mm]						Model	Number
-	1	VSV 10	1600	574	VNF 6904			H	1	WA 11	2

Horizontal and vertical designs

It is easy to set the precise values required without using any special tools (see drawings).



Schematic diagram

The radiator will be delivered with a fitted protective cap. After removing the protective cap (item A), the following thermostat heads can be installed directly onto the built-in valve (item B): „RA 2000“, or „RAW“ from Danfoss, „VK“ from Heimeier, „D“ from Herz, „thera DA“ from MNG, and „UNI XD“ from Oventrop.

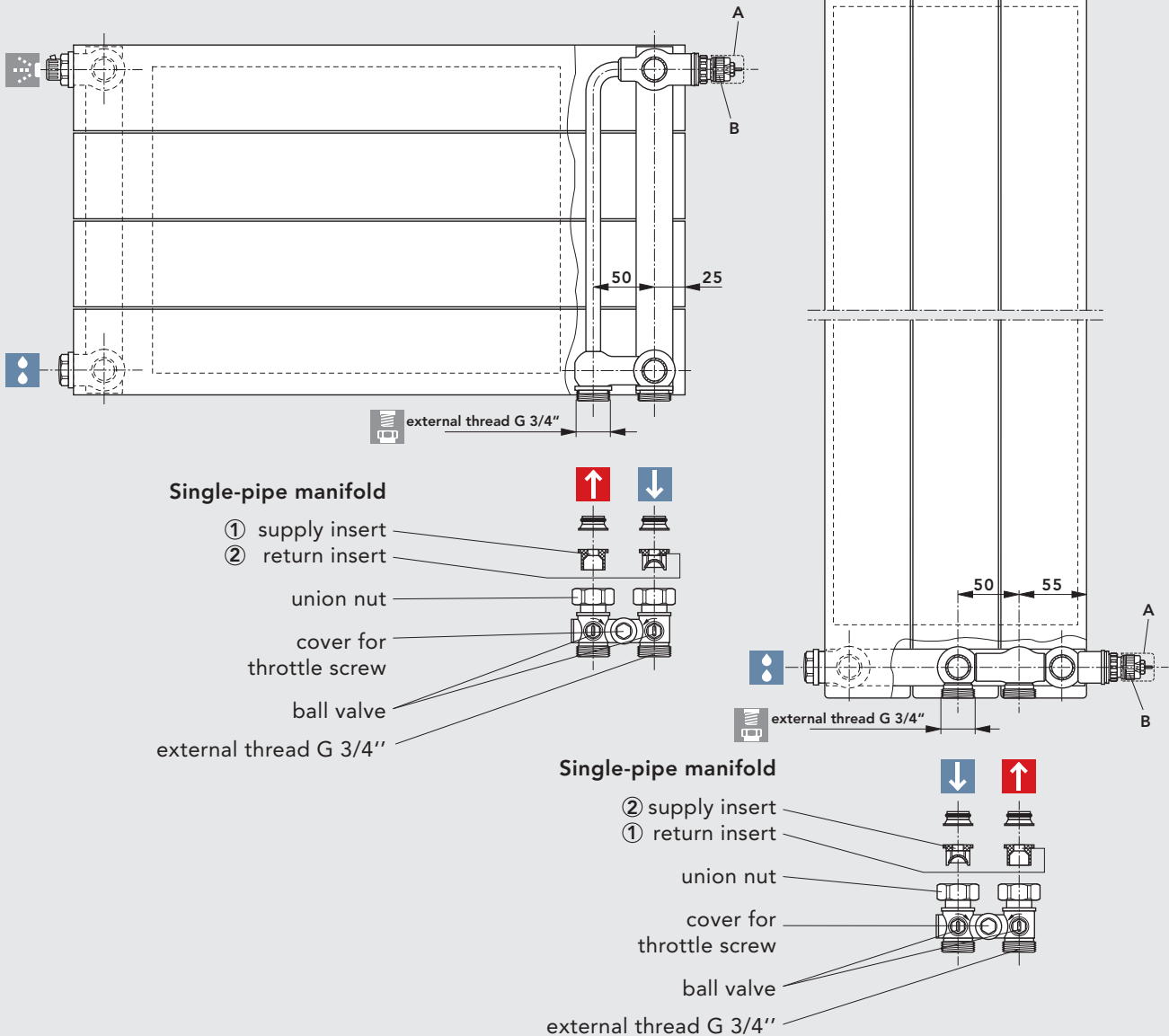
Adjustment tips:

- Remove protective cap and sensor
- Lift the adjusting ring and turn it anti-clockwise, to the setting required – the set value (1, 2, ...7, N) needs to be directly in line with the marker.
- Presetting is possible in steps of 0.5 between 1 and 7. The „N“ setting, cancels all presetting.

Note: Settings in the hatched areas must be avoided.

Horizontal and vertical designs

A valve default setting is not necessary as the valve will be delivered factory-adjusted (default setting N).



Schematic diagram

The radiator will be delivered with a fitted protective cap. After removing the protective cap (item A), the following thermostat heads can be installed directly onto the built-in valve (item B): „RA 2000“, or „RAW“ from Danfoss, „VK“ from Heimeier, „D“ from Herz, „thera DA“ from MNG, and „UNI XD“ from Oventrop.

Please note!

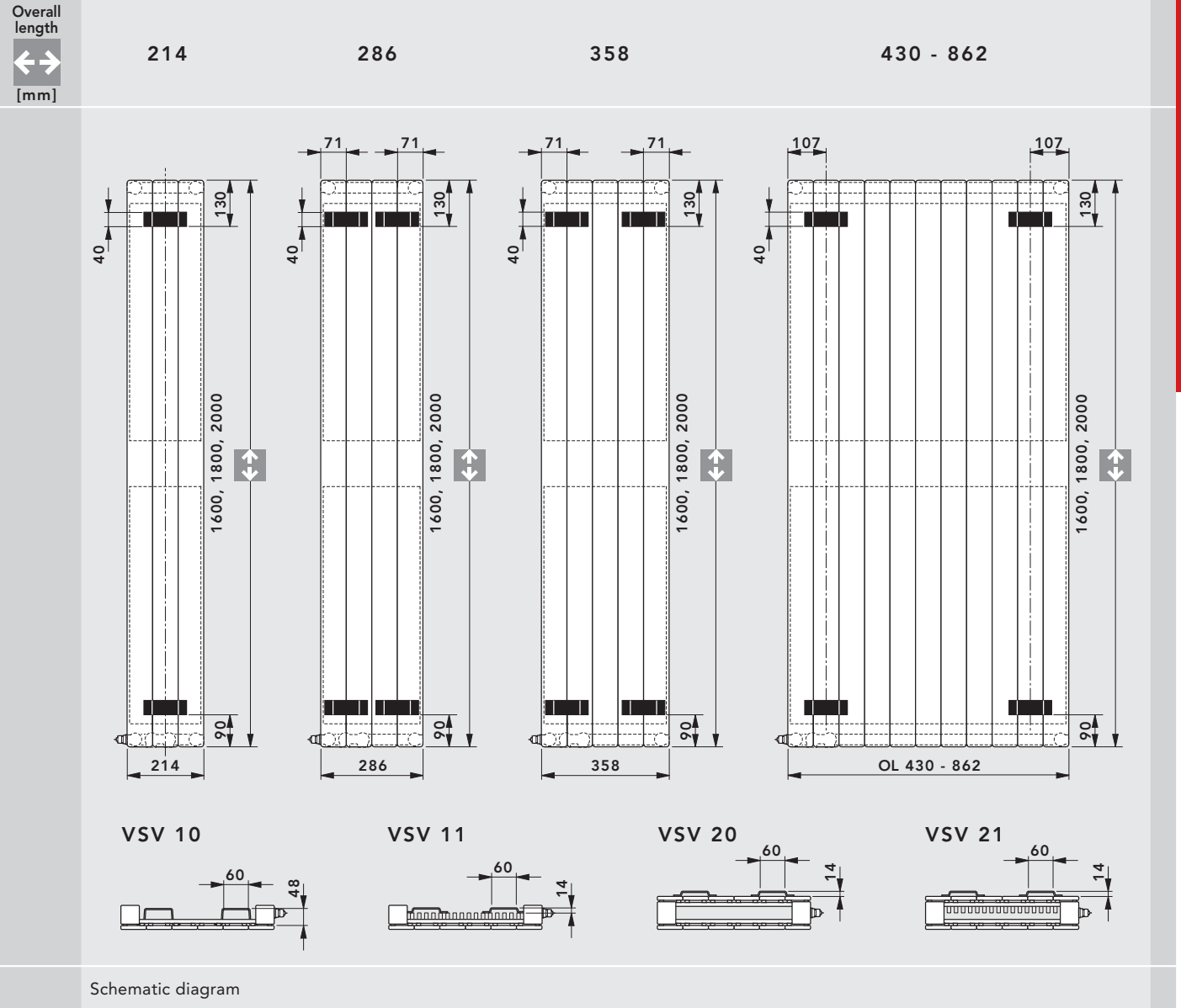
Horizontal design:

During the installation of the single-pipe manifold ensure that the return insert (②) is installed in the water return, and the supply insert (①) in the water supply.

Vertical design:

Prior to the installation of the one-pipe manifold it is essential to swap over the supply insert and the return insert so that the supply insert (①) is installed in the water supply, and the return insert (②) in the water return.

VSV models



Wall clearance measurements: WA 10 and WA 11 wall mounting brackets for the VSV models

Connection – wall clearance

Wall mounting brackets model	Vertical design model	Measurement W [mm]
WA 10	VSV 10/11*	35
WA 10	VSV 20/21	79,5
WA 11	VSV 10/11*	45
WA 11	VSV 20/21	89,5

***Note:** if you are installing the VSV 10 or VSV 11 models with a right-angled-design connection, please use the appropriate drilling consoles or angle-fish-plate mounting brackets, to achieve the required wall clearance.

Schematic diagram