

Central-connection radiator

VONARIS: the central-connection radiator in a fully welded horizontal design, with from 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** central-connection

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.

Vertical central-connection radiators are delivered with a connection set, including a factory-fitted valve, a protective cap and a cover. Depending on the customer's preferences they will also be ready for double-pipe or single-pipe operation and for angled or through-flow connection. **VONARIS**

central-connection radiators are usually delivered with side panels. The horizontal design also comes equipped with a top cover. With the **VONARIS** central-connection radiators, brackets are not included as a matter of course (exception: VHV-M 11, where brackets are included).

The **VONARIS** central-connection radiator comes with a drain plug and a pivoting vent plug (with the vertical design, also two dummy plugs), all of them factory-sealed. **VONARIS** central-connection radiators are Design radiators that are ready to connect.

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

Dimensions:

Horizontal design: overall lengths between 500 mm and 1400 mm are available (at increments of 100 mm), and between 1600 mm and 2400 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 mm 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: 2 x external thread G 3/4", bottom centre

Vertical design: 2 x external thread G 3/4", bottom centre



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

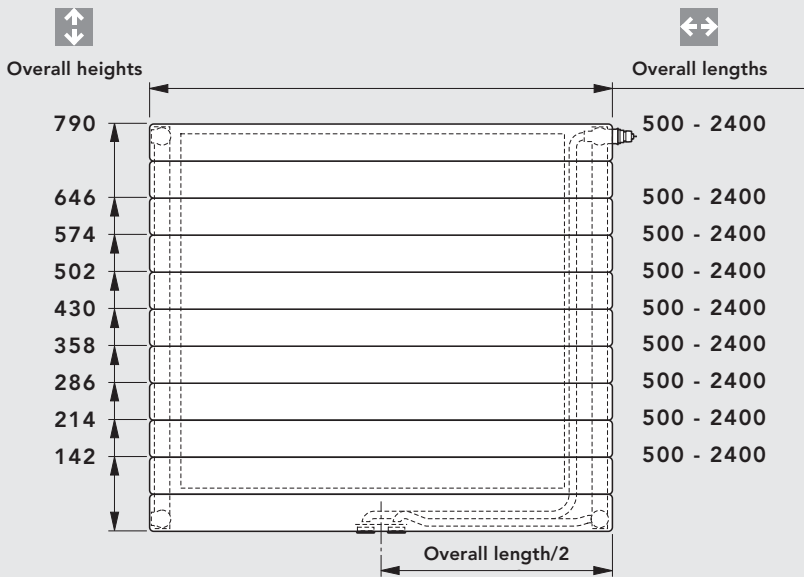
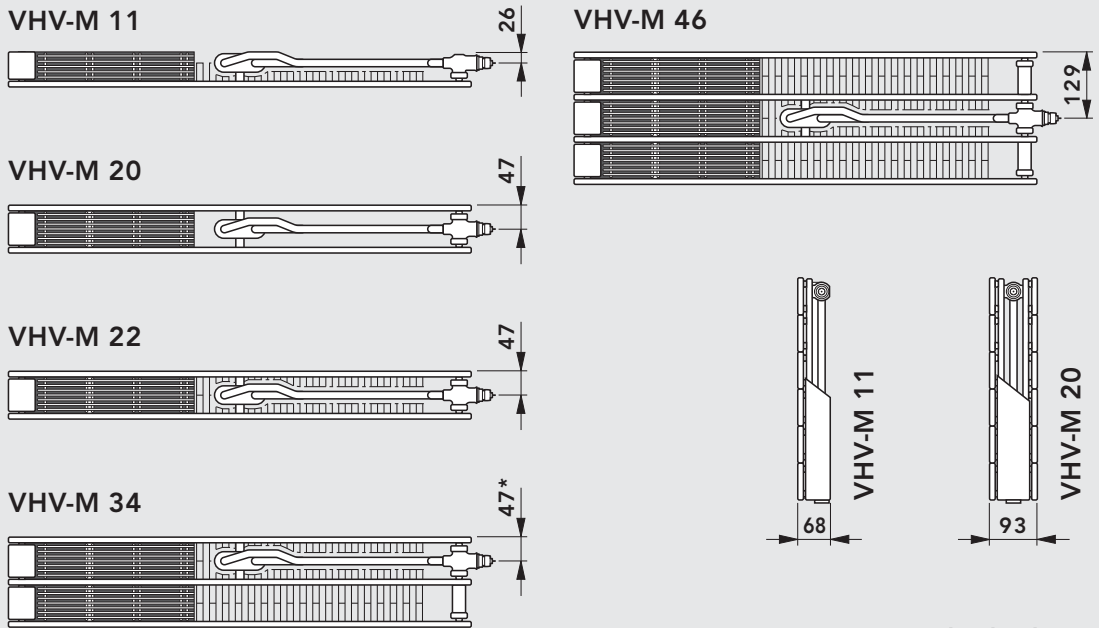
Strong brands of the highest quality

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.



Horizontal design, VHV-M models



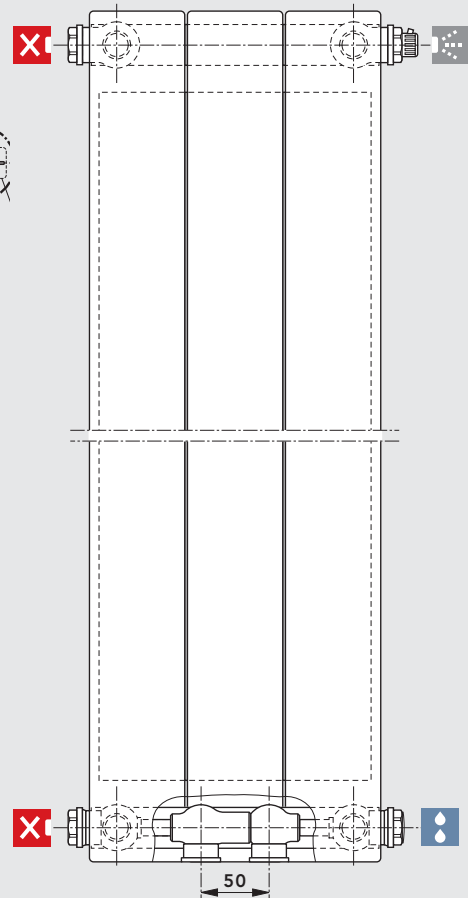
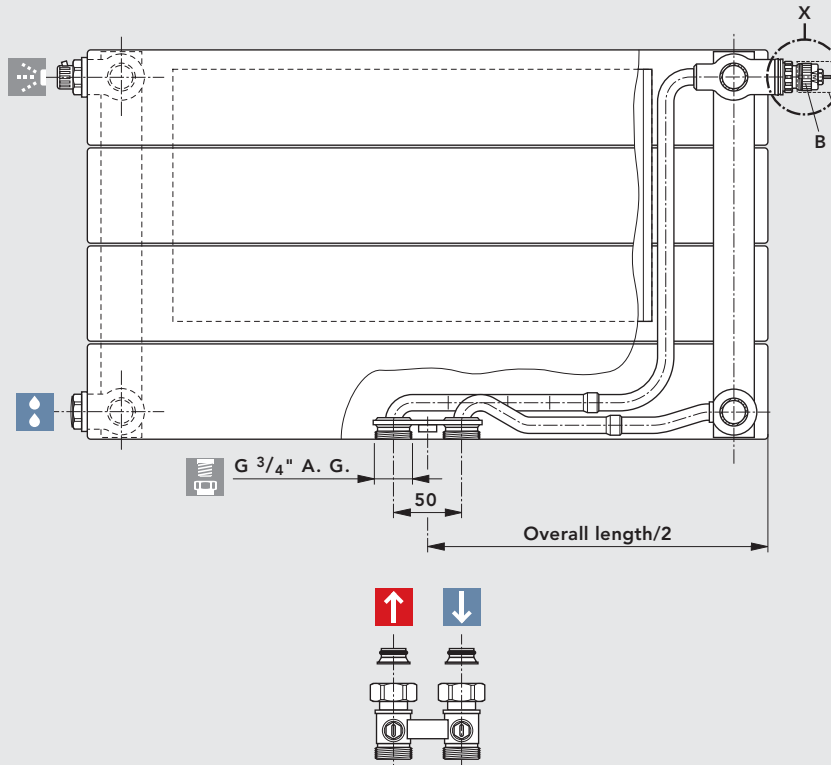
Schematic diagram

* **Note:** if the VHV-M 34 model is turned around so that the valve is located to the left, the distance between the VONARIS rear panel and the connection point is 129 mm.

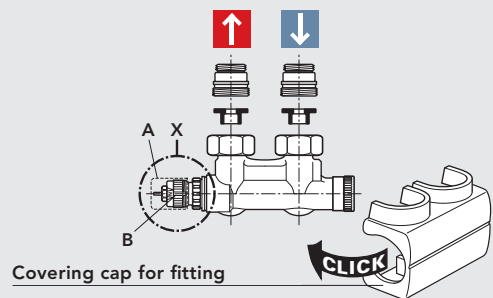
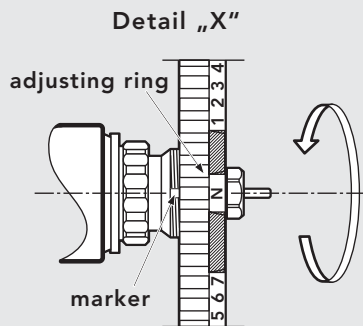
Model	VHV-M 11			VHV-M 20			VHV-M 22				VHV-M 34		VHV-M 46	
Overall height ↑↓ [mm]	358	430	502	358	430	502	214	286	358	430	142	214	142	214
	574	646	790	574	646	790	502	574	646	790	286		286	
Overall length ↔ [mm]	500 - 2400 mm													
Increments	100 mm (for overall lengths of 1400 mm and above: 200 mm)													

Horizontal and vertical designs

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



Note:
Settings in the hatched area must be avoided.



Schematic diagram

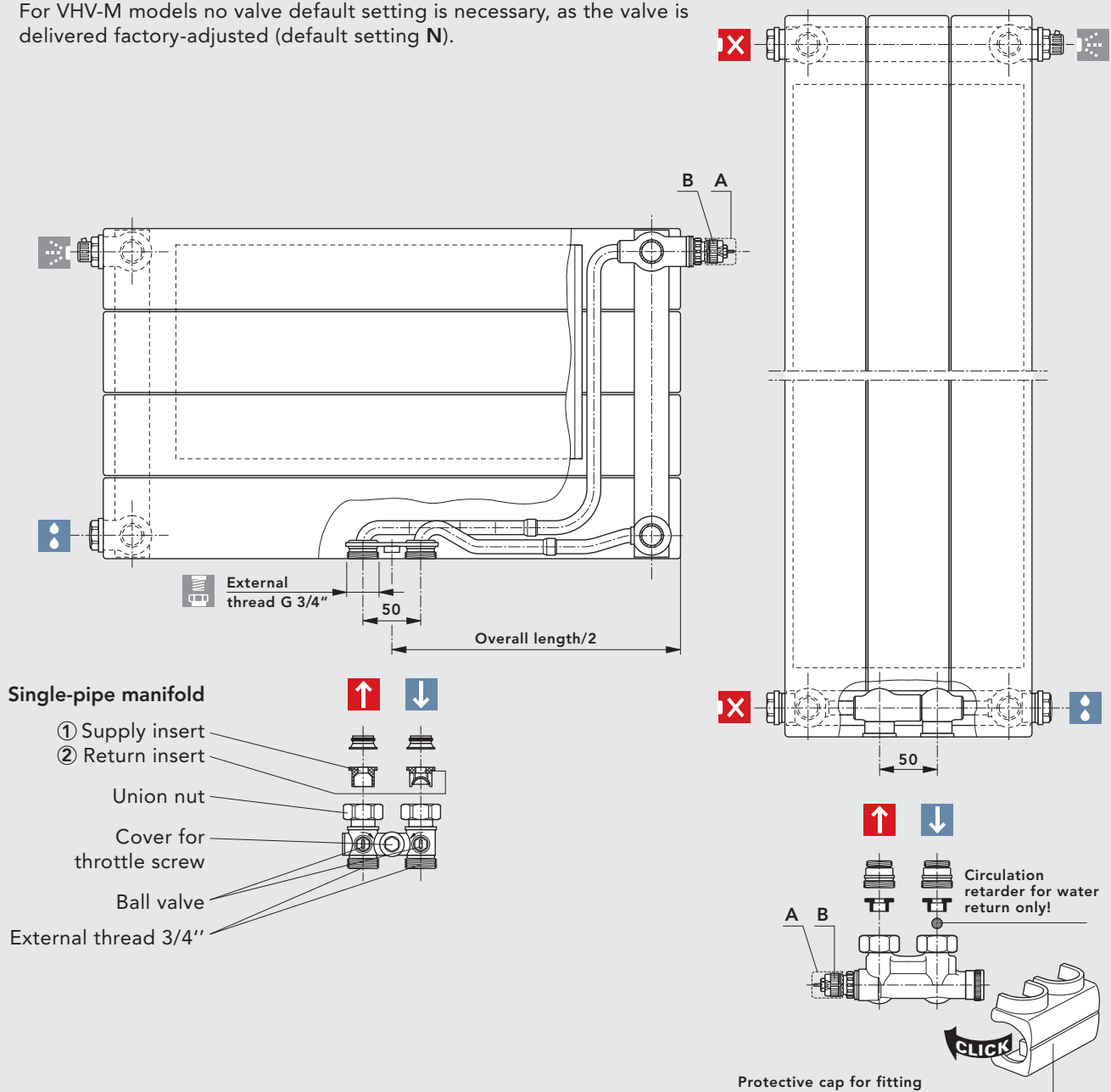
The radiator will be delivered with a fitted protective cap. After removing the protective cap (item A), the following thermostat heads can be installed directly onto the built-in valve (item B): „RA 2000“, or „RAW“ from Danfoss, „VK“ from Heimeier, „D“ from Herz, „thera DA“ from MNG, and „UNI XD“ from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

Horizontal and vertical design

For VHV-M models no valve default setting is necessary, as the valve is delivered factory-adjusted (default setting **N**).



Schematic diagram

The radiator valve (VHV-M models) and the connection set (VSV-M models) will both 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!


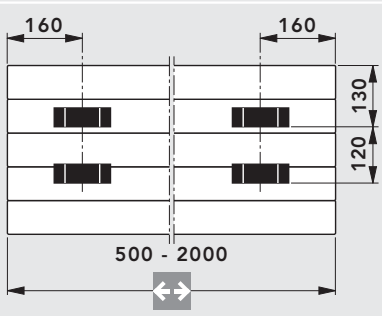
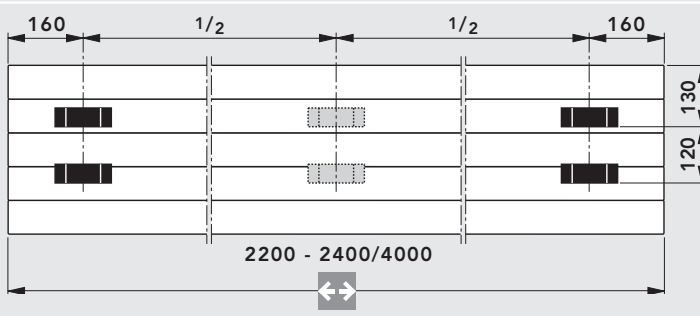

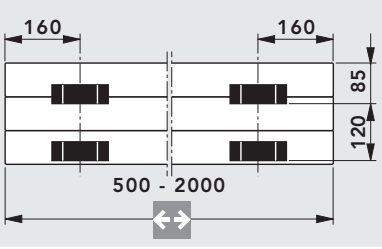
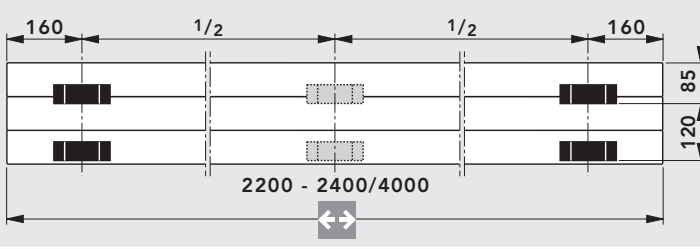

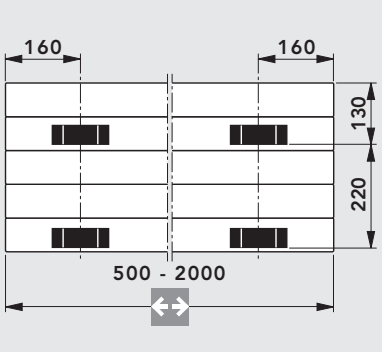
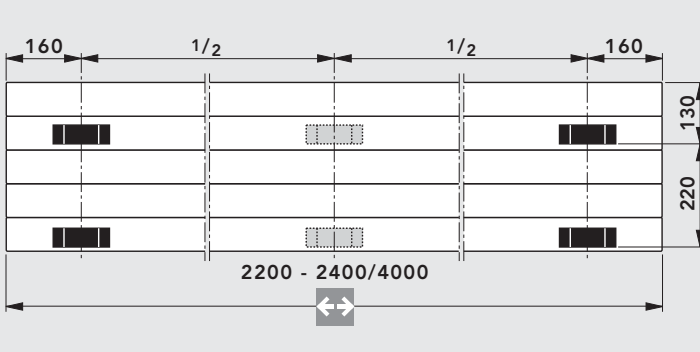

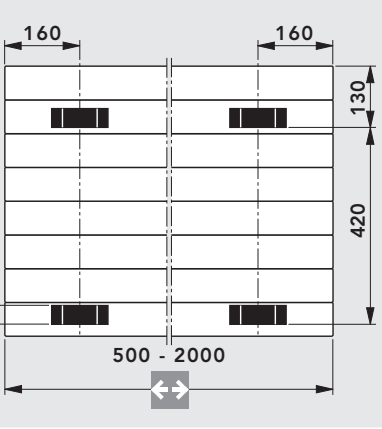
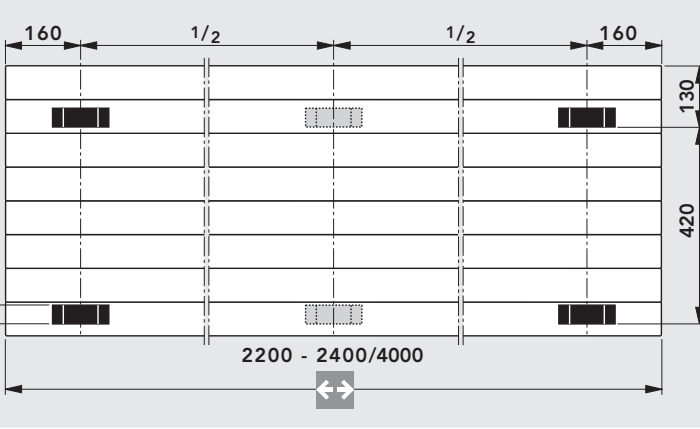
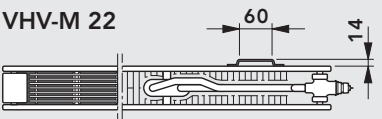
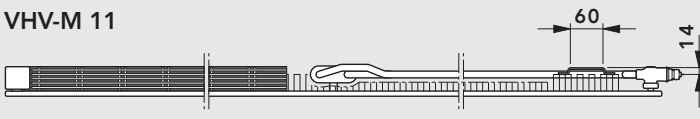
Horizontal design:

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:

When fitting the single-pipe operation connection set, ensure that the **circulation retarder** is installed in the water return.

VONOMAT wall console for the VHV-M 11, VHV-M 20, VHV-M 22 and VHV-M 34 models

Model	VHV-M 11 for VONOMAT 300	
Overall height  358 mm		
VHV-M 22 and VHV 34 for VONOMAT 300		
Overall height  214 mm and 286 mm		
VHV-M 11, VHV-M 20/22 for VONOMAT 400		
Overall height  from 430 mm to 574 mm VHV-M 11, from 358 mm to 502 mm VHV-M 20/22		
VHV-M 11, VHV-M 20/22 for VONOMAT 600		
Overall height  from 646 mm to 790 mm VHV-M 11, from 574 mm to 790 mm VHV-M 20/22		
VHV-M 22 	VHV-M 11 	
Schematic diagram		

Please note! Of the horizontal design models only VHV-M 11 (OH 358 – 790 mm) is delivered with brackets as standard. If a **VONOMAT** wall console is to be used with the VHV-M 20 (OH 358 – 790 mm), VHV-22 (OH 142 – 286 mm) and VHV 34 (142 – 286 mm), these models need to be ordered as special designs, equipped with brackets.

VONOMAT wall console, for models VHV-M 11, VHV-M 20, VHV-M 22 and VHV-M 34

The **VONARIS** central connection radiator can be installed easily, quickly and securely, whilst it is still in its wrapper. This is made possible by the **VONOMAT** wall console **with fitted brackets** for the horizontal designs of VHV-M 11 (OH 358 – 790 mm) VHV-M 20 (OH 358 – 790 mm), VHV-M 22 (OH 214 – 790 mm) and the VHV-M 34 (OH 214 and 286 mm).

Wall rails for OH 214 – 790

Drilling measurements for the VONOMAT 300 – 600

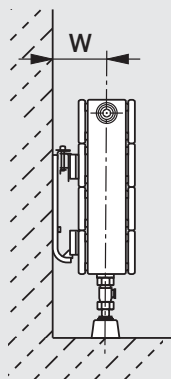
VONOMAT 300	Model	VHV-M Overall height [mm]	Value X [mm]	Value Y [mm]	Value Z [mm]	VONOMAT 400 / 600
	VHV-M 22, 34	214	34	114	100	
	VHV-M 22, 34	286	61	141	145	
	VHV-M 11	358	133	213	145	
	VHV-M 20, 22	358	58	209	149	
	VHV-M 11, 20, 22	430	130	281	149	
	VHV-M 11, 20, 22	502	202	353	149	
	VHV-M 11	574	274	425	149	
	VHV-M 20, 22	574	74	425	149	
	VHV-M 11, 20, 22	646	146	497	149	
	VHV-M 11, 20, 22	790	290	641	149	

Schematic diagram

The **VONOMAT** wall console with integrated connection and displacement locking features consists of:
 2 or *3 consoles with sound-proofing,
 2 or *3 snap-on elements,
 2 or *3 mounting screws with dowels and safety washers

*From overall lengths of 2200 mm and greater

Connection – wall clearance



Horizontal design model	Overall height [mm]	Value W [mm]
VHV-M 11	358 - 790	43
VHV-M 20	358 - 790	87
VHV-M 22	214 - 790	87
VHV-M 34	214 / 286	87

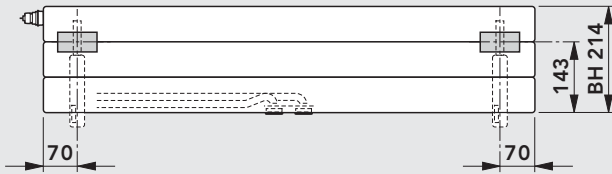
The **VONOMAT** wall console complies with the requirements of the TÜV Rheinland (for physical load-bearing purposes).

Schematic diagram

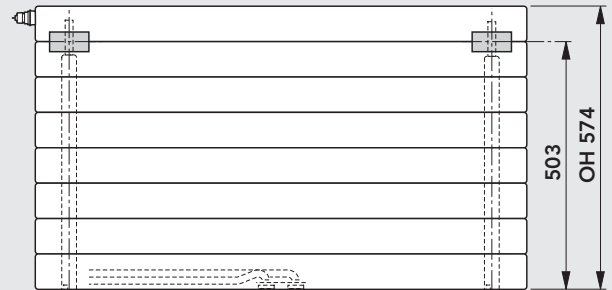
VONOFIX rapid-installation console for the VHV-M models

VHV-M 20 models: OH 358 – 790 mm; VHV-M 22 models: OH 214 - 790 mm; and VHV-M 34 models: OH 214 and 286 mm

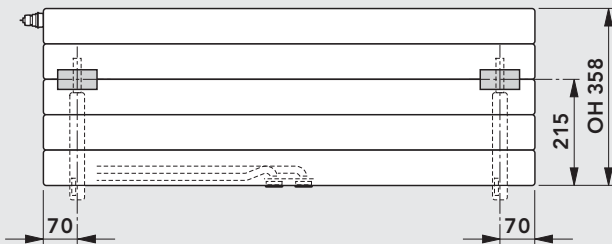
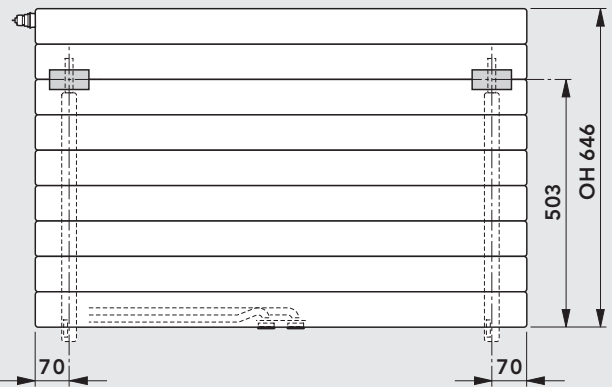
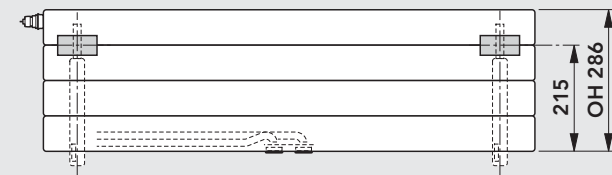
OH 214: for **VONOFIX 1**



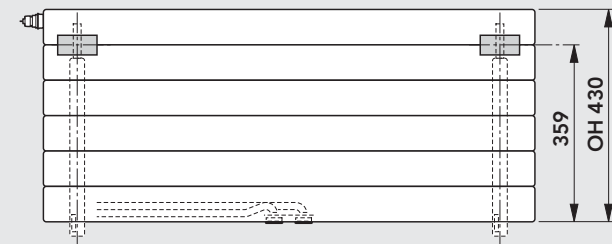
OH 574 and 646: for **VONOFIX 4**



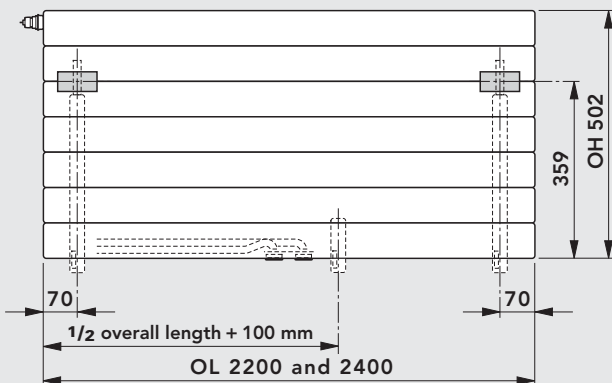
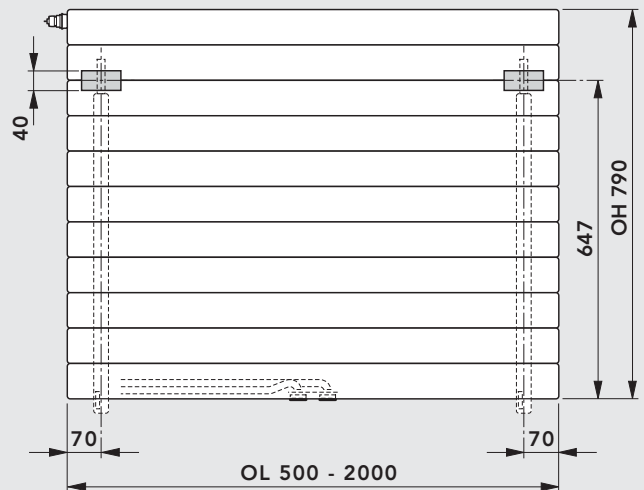
OH 286 and 358: for **VONOFIX 2**



OH 430 and 502: for **VONOFIX 3**



OH 790: for **VONOFIX 5**



Note! for an overall length of 2200 mm and greater an additional piece of foot console must be used!

Schematic diagram

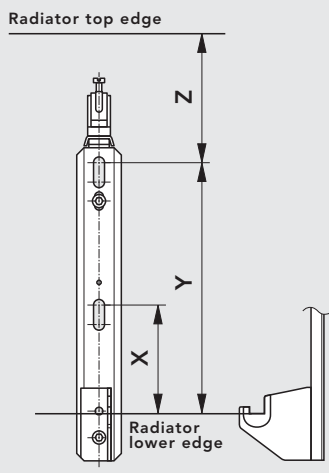
Important: the installation of VHV-M models with insertion (push-in) brackets is only feasible when using the VONOFIX rapid-installation console!

VONOFIX rapid-installation console for the VHV-M models

The **VONARIS** central connection radiator can be installed easily, quickly and securely. This is made possible by the **VONOFIX** rapid-installation console for the horizontal designs of the VHV-M 20 (OH 358 - 790 mm), VHV-M 22 (OH 214 - 790 mm) and the VHV-M 34 (OH 214 and 286 mm) models.

Wall rails for OH 214 – 790 mm

Drilling measurements for the VONOFIX 1 - 5



Overall radiator height [mm]	Value X [mm]	Value Y [mm]	Value Z [mm]
214	-	125	89
286	100	197	89
358	100	197	161
430	100	341	161
502	100	341	161
574	100	485	89
646	100	485	89
790	100	629	161

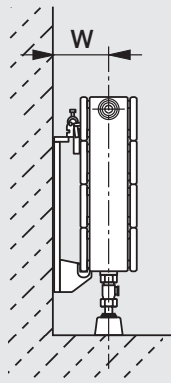
Schematic diagram

Vonaris-M

The **VONOFIX** rapid-installation console consists of:

- 2 wall consoles (zinc-plated), with sound-proofing filters, screws and dowels
- 2 stabilising brackets
- 2 insertion (push-in) brackets
- (For an overall length of 2200 mm and greater, 1 additional piece of foot console)

Connection – wall clearance

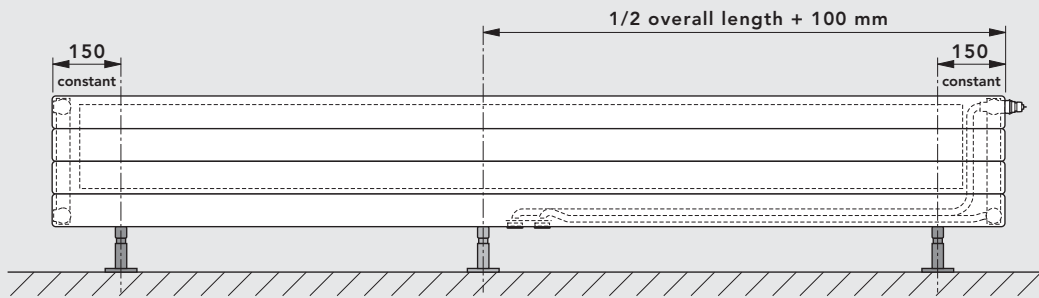


Horizontal design model	Overall height [mm]	Value W [mm]
VHV-M 20	358 – 790	91
VHV-M 22	214 – 790	91
VHV-M 34	214 – 286	91*

* **Note:** if the **VHV-M 34** is turned round and used as a left-hand design model, the measurement **W** is **172 mm**.

Schematic diagram

SK 12 – 17 stand consoles: positioning with the VHV-M models (up to an overall height of 286 mm)

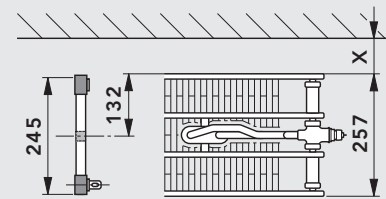
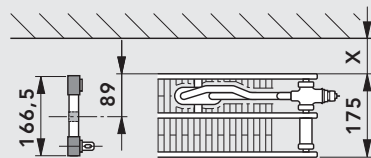
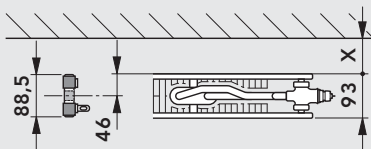


Note: for an overall length of 2200 mm and greater, a 3rd stand console must be used!

SK 12 / SK 13
VHV-M 22

SK 14 / SK 15
VHV-M 34

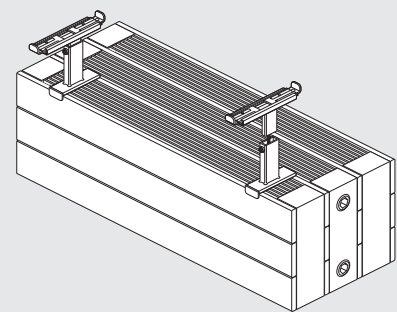
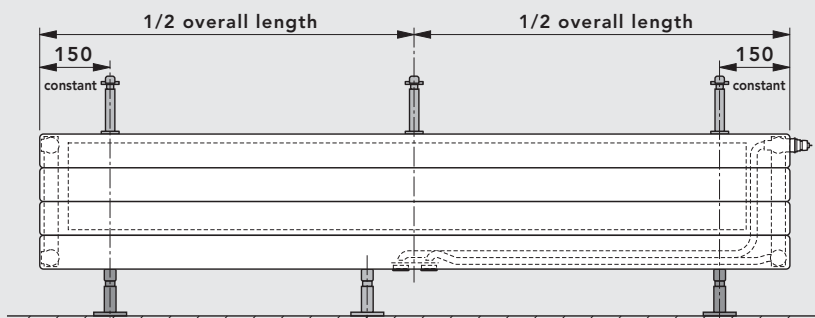
SK 16 / SK 17
VHV-M 46



Schematic diagram

FBT 20 window sill support: positioning for the VHV-M models (up to an overall height of 286 mm)

Window sill support for subsequent installation with the VHV-M 22 – 46 models of the VONARIS-M central connection radiator (up to an overall height of 286 mm)



Note: for an overall length of more than 2200 mm, a 3rd window sill support must be used!

Schematic diagram