

Convectors & heating panels

KONTEC convectors and horizontal heating panels are radiators in fully welded designs, with either 1 to 5 layers of steel rectangular water-flow pipes arranged one-behind-the-other (for convectors), or 1 or 2 such layers (for horizontal heating panels). In each layer, the convectors have between one and four pipes arranged one-above-the-other; the horizontal heating panels have from 5 to 11 pipes.

KONTEC vertical heating panels consist of 1 or 2 layers of steel rectangular water-flow pipes, arranged one-behind-the-other, with 2 to 12 steel pipes, arranged side-by-side.

A 2 mm space between the heating pipes guarantees additional resistance to corrosion. **KONTEC** convectors and horizontal heating panels come with side panels and top covers; **KONTEC**

vertical heating panels come with side panels. **KONTEC** heating panels are delivered with welded mounting brackets.

All **KONTEC** convectors and heating panels are also delivered with factory-sealed drain plugs and pivotable vent plugs. (Exception: bottom-opposite-end connection models come with a dummy plug instead of the drain plug.)

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: **KONTEC** convectors are also available with a welded heat reflector (no water-flow).

Convector dimensions:

Overall lengths: between 500 mm and 1400 mm (at increments of 100 mm),
 and between 1600 mm and 4000 mm (at increments of 200 mm)
 Overall heights: 70 mm, 142 mm, 214 mm and 286 mm

Horizontal heating panel dimensions:

Overall lengths: between 500 mm and 1400 mm (at increments of 100 mm), and
 between 1600 mm and 4000 mm (at increments of 200 mm)
 Overall heights: 358 mm, 430 mm, 502 mm, 574 mm, 646 mm and 790 mm

Vertical heating panel dimensions:

Overall lengths: between 142 mm and 862 mm (at increments of 72 mm)
 Overall heights: between 1600 mm and 2200 mm (at increments of 200 mm)

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:
 2 x internal thread G 1/2", welded-in for supply and return. Vent and drain plugs (or dummy plug) are factory sealed and are fitted according to the customer's specifications.

5 bar max. **Maximum positive operating pressure**
 Standard design: **5 bar**

8 bar max. **Maximum positive operating pressure:**
 High-pressure design (supplementary charge): **8 bar**

max. **Maximum operating temperature: 110 °C**

Quality certificates

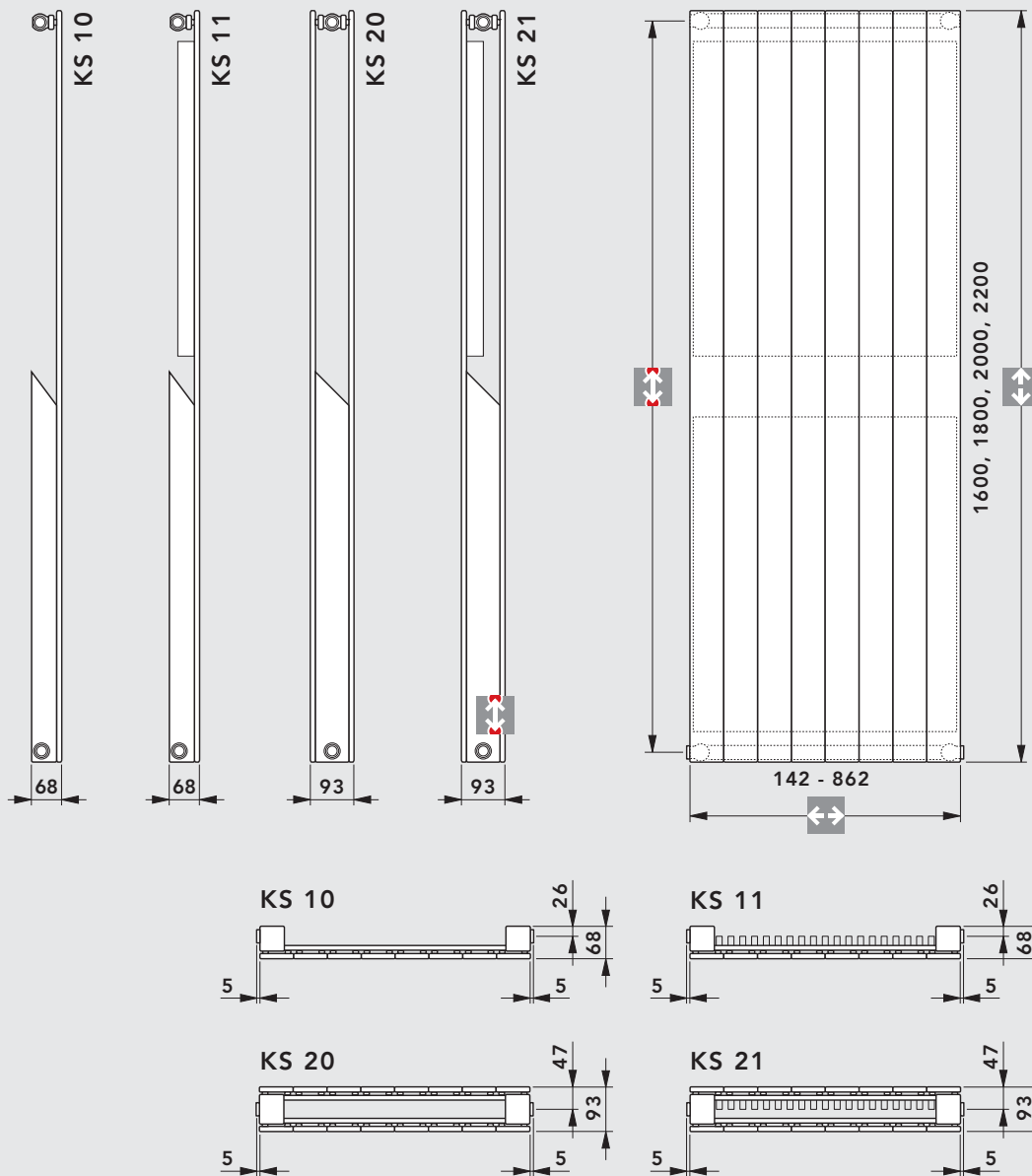
Strong brands of the highest quality

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.



KS models vertical design



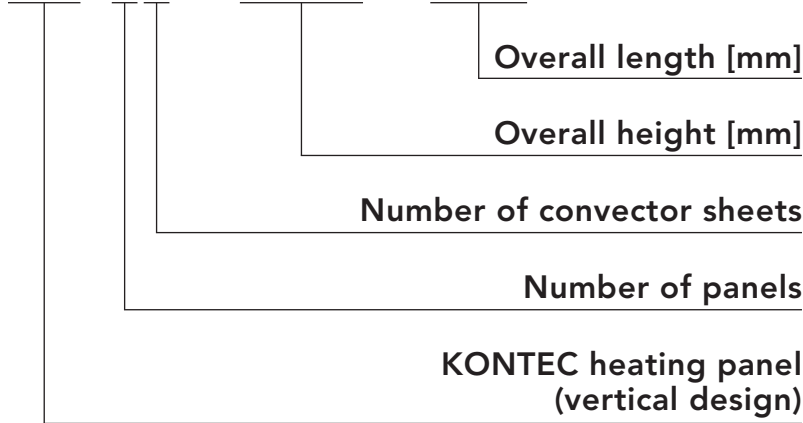
Overall height [mm]	↕	1600	1800	2000	2200	Schematic diagram
Boss spacing NA [mm]	↕	1550	1750	1950	2150	

Model	KS 10		KS 11		KS 20		KS 21	
Overall height ↕ [mm]	1600	1800	1600	1800	1600	1800	1600	1800
	2000	2200	2000	2200	2000	2200	2000	2200
Overall length ↔ [mm]	142 - 862 mm							
Increments	72 mm							

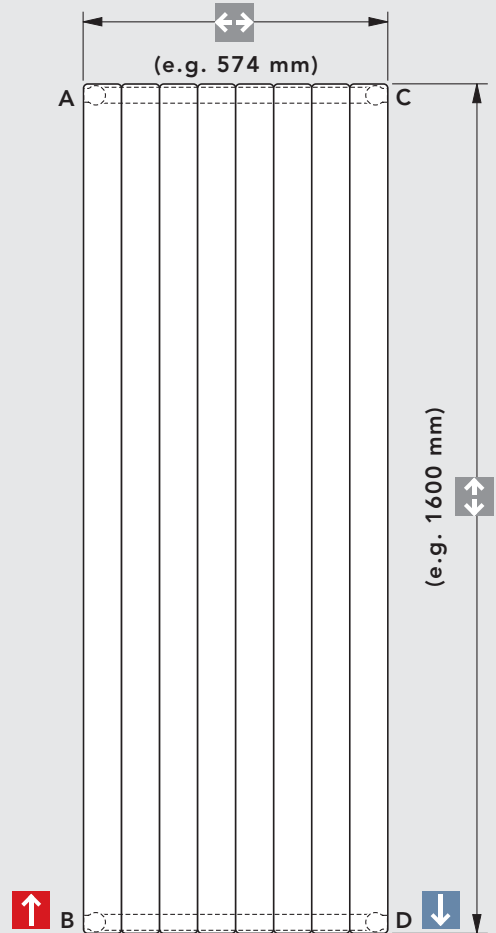
Heating panel, KS model

Model description

KS 10 / 1600 / 574



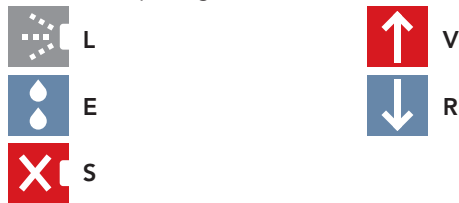
E.g. the KS 10 model



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

- Overall height [mm]
- Overall length [mm]
- Specification of the RAL or Sanitary-Ware Colour number
- Connections and their positioning
- Positive operating pressure (N ... (normal) standard design 5 bar / H ... high-pressure design 8 bar)
- (By default KONTEC vertical design heating panels are delivered with brackets).

Note: For technical production reasons, the required connections must be accurately specified, using the following codes for the appropriate connection pictograms:



Schematic diagram

Order example:

1 KONTEC vertical design heating panel, KS 10 model, overall height 1600 mm, overall length 574 mm, colour VNF 6904, with 2 WA 11 wall mounting brackets, operating pressure 8 bar (high-pressure design).

- Top-bottom, opposite-ends, side-connection: A / V(top left connection, for supply)
 B / E(bottom left connection for drain)
 C / L(top right connection for vent)
 D / R(bottom right connection for return)

Example of an order form:

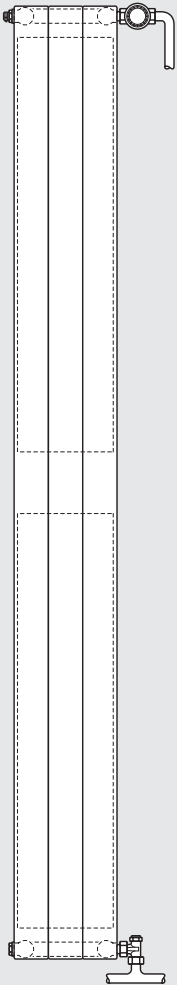
Pos./ Room	Number	Model	Overall height [mm]	Overall length [mm]	Colour	Connections KS			Connections KK, KK-S and KH			Positive operating pressure	Brackets without = 0 with = 1	General accessories	
						A	B	C	D	E*	F*			Model	Number
-	1	KS 10	1600	574	VNF 6904	L	R	S	V	-	-	N	1	WA 11	2

KS models

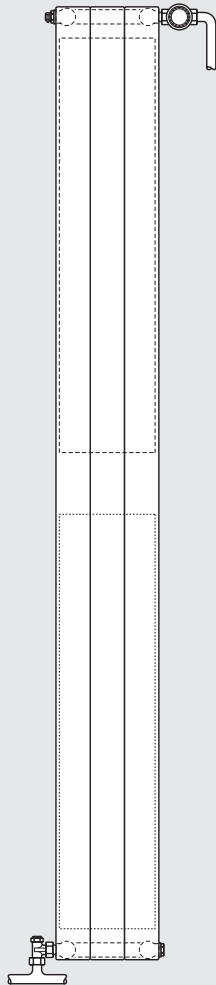
Double-pipe system

Note: with KONTEC KS model heating panels, single-pipe connection is not possible!

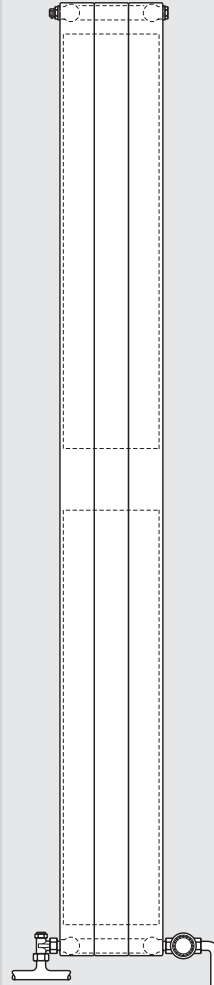
Single-sided connection, right



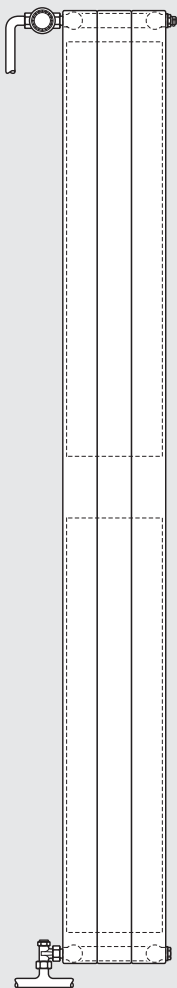
Top-bottom, opposite-end, side-connection, right-side supply



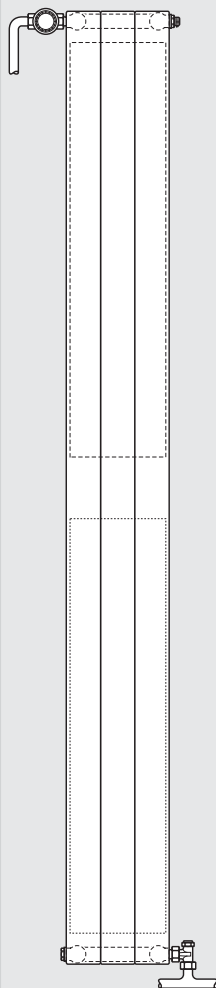
Bottom-only, opposite-end, side-connection, right-side supply



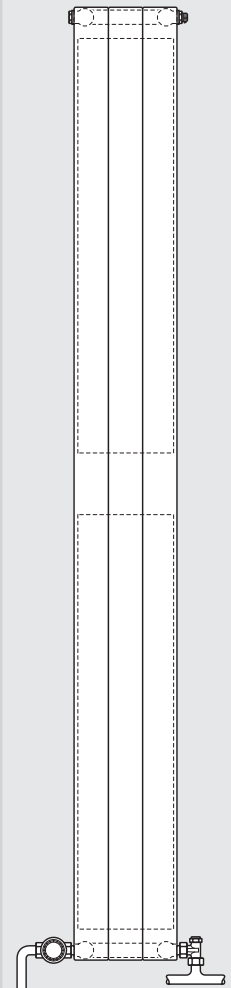
Single-sided connection, left



Top-bottom, opposite-end, side-connection, left-side supply



Bottom-only, opposite-end, side-connection, right-side supply



Schematic diagram

Note: when ordering your KONTEC KS model heating panel (see page 78 "Description of the Ordering Process") the 4 connections must be accurately specified and assigned. This is for technical production reasons. No subsequent changes to the connections on your KONTEC KS model heating panel are possible!

KS models

Overall length

 [mm]

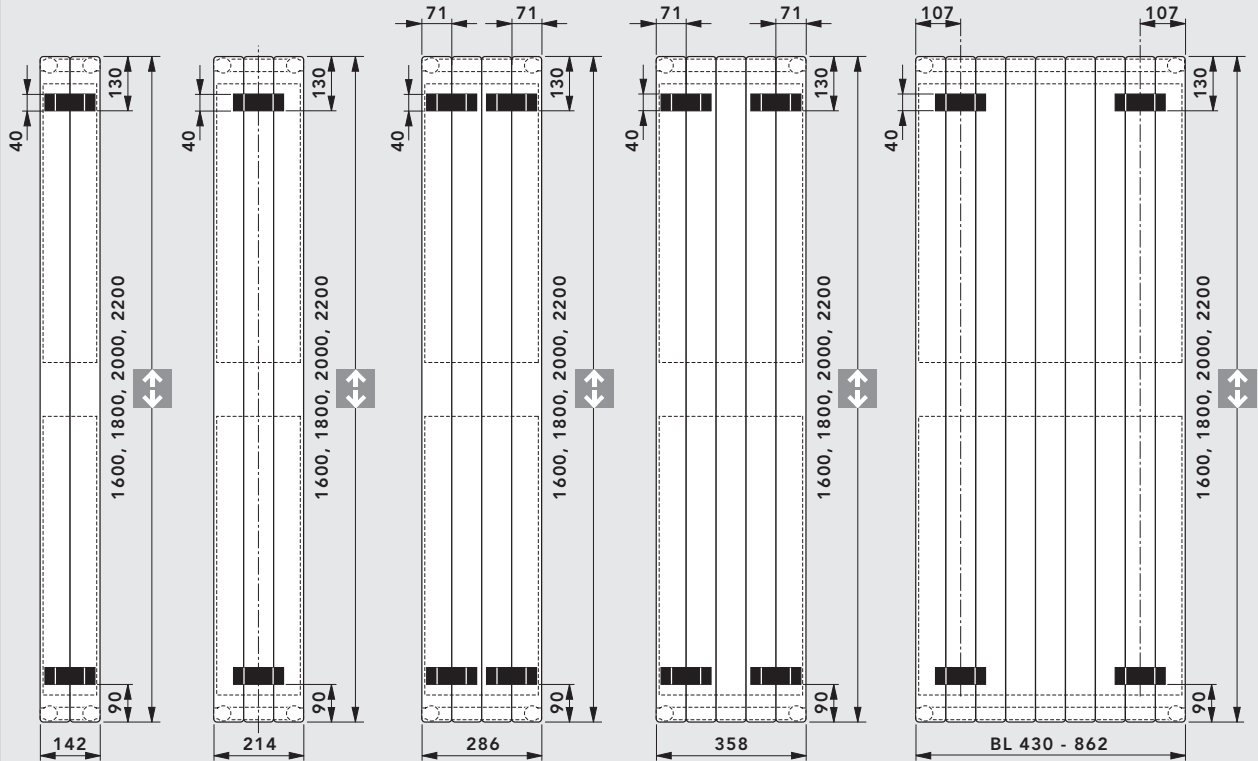
142

214

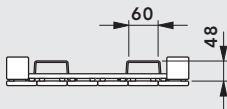
286

358

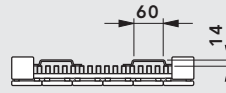
430 - 862



KS 10



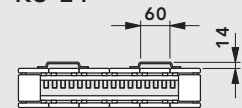
KS 11



KS 20



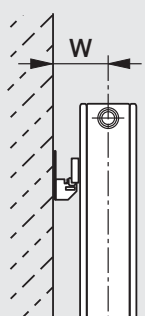
KS 21



Schematic diagram

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

Connection – wall clearance

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

***Note:** if you are installing the KS 10 and KS 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