

RADIK



steel panel radiators





The RADIK 08/2023 catalogue replaces all previous issues.

The new plant KORADO, a.s. is with its technological equipment and organizational structure the most modern factory for the production of radiators in Europe.

Its modern and sophisticated set-up in the area of 30 000 m² enables further increases of production capacity whenever needed. The choice of all technology was driven by the maximum effort to ensure environment protection inside the factory as well as in its surroundings.

KORADO, a.s. is the holder of the ISO 9001 and ISO 14001 quality certificate.



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RADIK VKM8

- with bottom middle or bottom right connection
(see page 14)



RADIK VKM8 - L

- with bottom middle or bottom left connection
(see page 15)



RADIK VKM8 - U

- with bottom middle, bottom right or
bottom left connection
(see page 16)



RADIK VK

- with bottom right connection
(see page 17)



RADIK VK - Z

- zinc-coated radiator
- with bottom right connection
(see page 18)



RADIK VKL

- with bottom left connection
(see page 19)



RADIK VKU

- enables both right and left bottom connection
(see page 20)



RADIK MATERNELLE VK

- for nursery schools
- with bottom right connection
(see page 21)



RADIK MATERNELLE VKL

- for nursery schools
- with bottom left connection
(see page 22)



RADIK KLASIK

- with right or left side connection
(see page 23)



RADIK KLASIK - Z

- zinc-coated radiator
- with side connection
(see page 24)



RADIK KLASIK - R

- for a quick replacement of an old sectional radiator
(see page 25)



RADIK PLAN VKM8

- with bottom middle or bottom right connection
- with a flat front panel
- (see page 28)



RADIK LINE VKM8

- with bottom middle or bottom right connection
- with a flat front panel with fine horizontal grooves
- (see page 28)



RADIK PLAN VKM8 - L

- with bottom middle or bottom left connection
- with a flat front panel
- (see page 29)



RADIK LINE VKM8 - L

- with bottom middle or bottom left connection
- with a flat front panel with fine horizontal grooves
- (see page 29)



RADIK PLAN VK

- with a flat front panel and bottom right connection
 - with bottom right connection
- (see page 30)



RADIK LINE VK

- with a flat front panel with fine horizontal grooves
 - with bottom right connection
- (see page 30)



RADIK PLAN VKL

- with a flat front panel and bottom right connection
 - with bottom left connection
- (see page 31)



RADIK LINE VKL

- with a flat front panel with fine horizontal grooves
 - with bottom left connection
- (see page 31)



RADIK PLAN KLASIK

- with a flat front panel and side connection
(see page 32)



RADIK LINE KLASIK

- with a flat front panel with fine horizontal grooves
(see page 32)



RADIK PLAN KLASIK - R

- with flat front panel
- for replacement of a sectional radiator
(see page 33)



RADIK LINE KLASIK - R

- with flat front panel with fine horizontal grooves
- for replacement of a sectional radiator
(see page 33)



RADIK PLAN VERTIKAL - M

- with bottom middle connection and flat front panel
(see page 34)



RADIK LINE VERTIKAL - M

- with bottom middle connection and grooved front panel
(see page 35)



RADIK CLEAN VKM8

- with bottom middle or bottom right connection
(see page 37)



RADIK CLEAN VK

- with bottom right connection
(see page 38)



RADIK CLEAN

- enables right or left bottom connection
(see page 39)



RADIK HYGIENE VK

- with bottom right connection
(see page 40)



RADIK HYGIENE

- enables right or left side connection
(see page 41)



RADIK COMBI VK

- for combined heating
- with bottom right connection
(see page 42)



RADIK STEEL PANEL RADIATORS IN HEIGHT 200 MM

- for rooms with low window sills
(see page 44)

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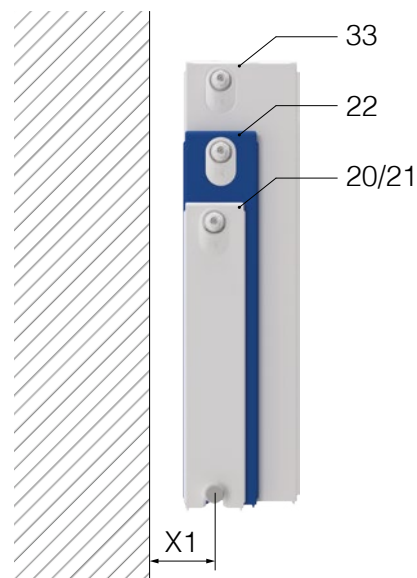
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ADVANTAGES OF RADIATORS

- made to last
- [extended warranty](#)
- suitable for all energy sources
- [suitable for low temperature heating systems](#)
- high resistance to excess pressure
- [excellent finish](#)
- multifunction packaging
- [low water volume](#)
- low weight
- [ISO 9001 guarantee of quality of products and services](#)
- recyclable



RADIK VKM8 RADIATOR WITH UNIVERSAL CONNECTION



UNIVERSAL CONNECTION

- Solution for manifold connections
- VKM8 offers up to 48 ways of connection



DESIGN

- also in PLAN / LINE design
- Up to 200 RAL colours



VARIABLE

- Versions with valve on the right, on the left, as well as radiators without welded hangers which can be turned



SIZES

- For large as well as small spaces
- In lengths from 40 cm to 300 cm.



ROOM-SAVING

- Saving of stock volume



SMART SOLUTION

- Make the installation easier and choose a universal radiator

OVERVIEW OF MODELS

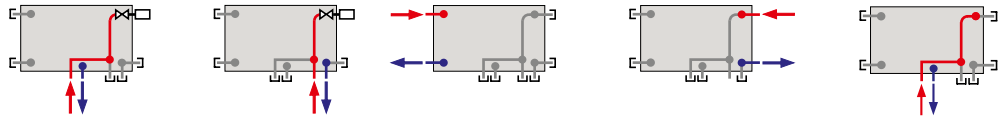
Description	Model	10	11	20	21	22	33
Models with welded hangers, profiled front panel, with vertically and horizontally aligned water channels	RADIK VKM8	X	X	X	X	X	X
	RADIK VKM8 - L	X	X	X	X	X	X
Model without welded hangers, with profiled front panel, with vertically and horizontally aligned water channels	RADIK VKM8 - U			X	X	X	X
models with welded hangers and a flat front panel	RADIK PLAN VKM8		X	X	X	X	X
	RADIK PLAN VKM8 - L		X	X	X	X	X
models with welded hangers and a flat front panel with fine horizontal grooves	RADIK LINE VKM8		X	X	X	X	X
	RADIK LINE VKM8 - L		X	X	X	X	X

DELIVERED AS STANDARD

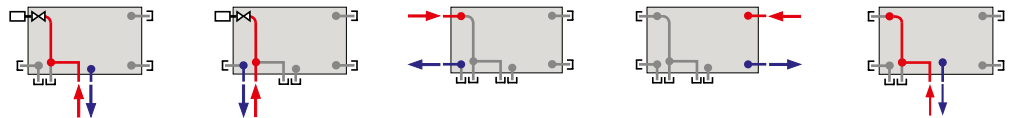
All VKM8 radiators are delivered with an integrated, continuously adjustable 8-level valve, an air vent and a respective number of blanking plugs. Except from type 10 all other radiator types are delivered with side panels and a top grill.



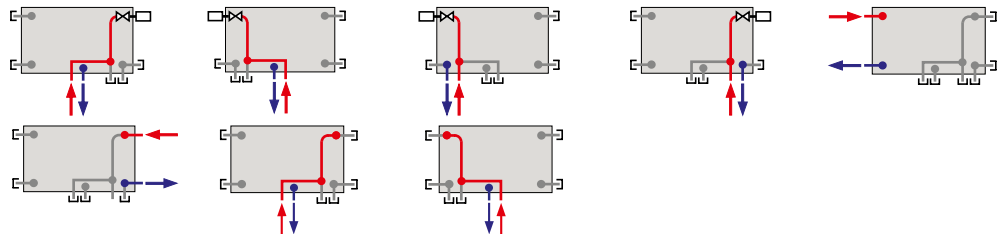
27 connection options with welded hangers



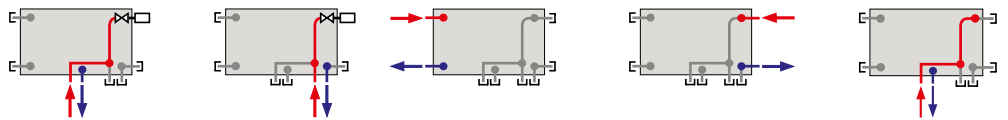
27 connection options with welded hangers



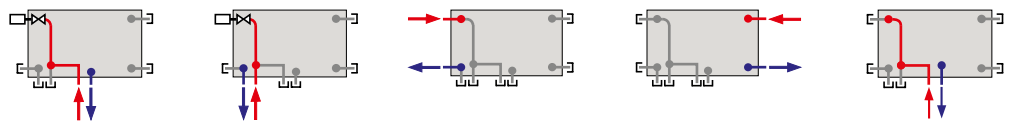
48 connection options without welded hangers



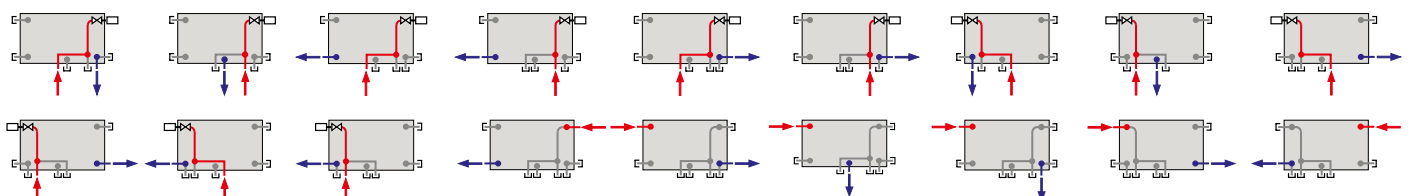
27 connection options with welded hangers



27 connection options with welded hangers



SOME OF OTHER WAYS OF CONNECTION TO THE HEATING SYSTEM



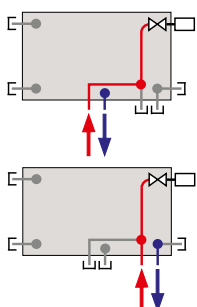
RADIK VKM8



Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 10 VKM8	47 mm
Type 11 VKM8	63 mm
Type 20 VKM8	66 mm
Type 21 VKM8	66 mm
Type 22 VKM8	100 mm
Type 33 VKM8	155 mm
Connecting pitch	50 mm
Connecting thread	8 × G 1/2" inside
Highest allowed working pressure	1,0 MPa
Highest allowed working temperature	110 °C
Radiator connection	middle connection right bottom

Examples of connection to the heating system



middle connection
 $\varphi = 1$

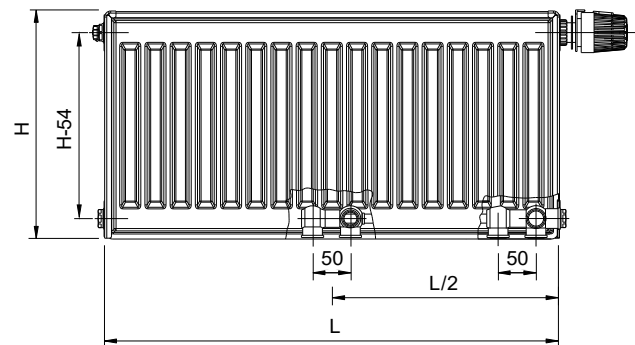
right bottom
 $\varphi = 1$

Description

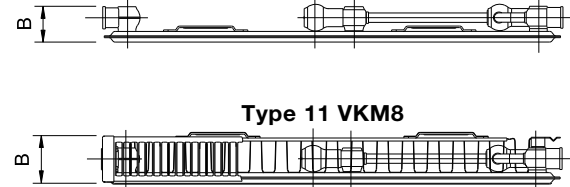
Model **RADIK VKM8** is a panel radiator in version VENTIL KOMPAKT which allows **bottom middle or bottom right connection** to the heating system. The types 20, 21, 22 and 33 have the same distance of the bottom middle connection from the wall. There are two upper and two lower hangers welded to the back side of the radiator, the radiators with length of 1800 mm and more are equipped with six welded hangers.

The panel radiators RADIK VKM8 are designed as modern components of the heating systems with forced circulation of the heating media and with horizontal distribution pipes located below the radiators in the floor, in the wall or along the wall and covered with decorative strips.

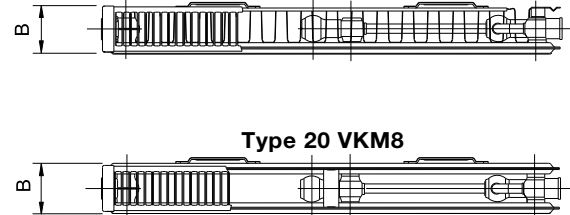
Overview of types



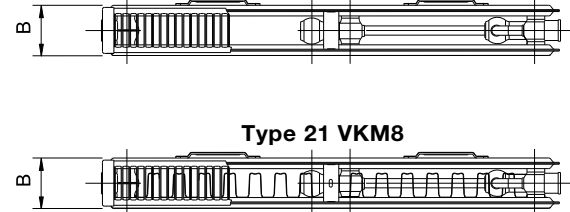
Type 10 VKM8



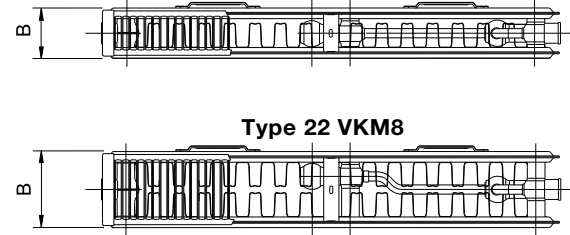
Type 11 VKM8



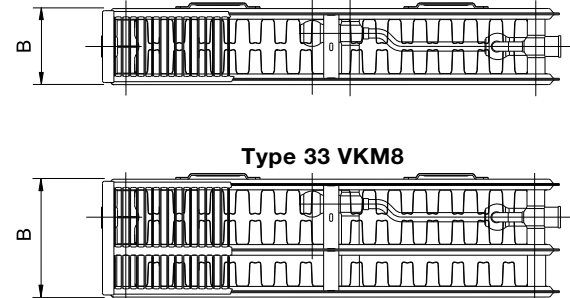
Type 20 VKM8



Type 21 VKM8



Type 22 VKM8



Type 33 VKM8

Thermal performances

Guidelines for ordering are described on page 86.

The company reserves the right to make technical changes.

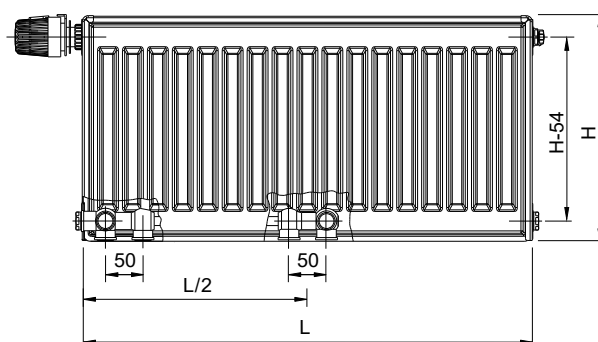


Description

Model **RADIK VKM8 - L** is a panel radiator in version VENTIL KOM-PAKT which allows **bottom middle or bottom left connection** to the heating system. The types 20, 21, 22 and 33 have the same distance of the bottom middle connection from the wall. There are two upper and two lower hangers welded to the back side of the radiator, the radiators with length of 1800 mm and more are equipped with six welded hangers.

The panel radiators RADIK VKM8-L are designed as modern components of the heating systems with forced circulation of the heating media and with horizontal distribution pipes located below the radiators in the floor, in the wall or along the wall and covered with decorative strips.

Overview of types



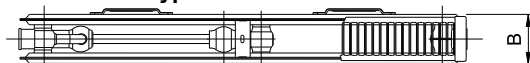
Type 10 VKM8 - L



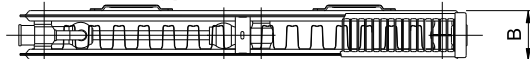
Type 11 VKM8 - L



Type 20 VKM8 - L



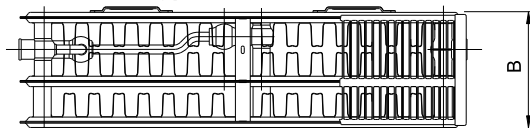
Type 21 VKM8 - L



Type 22 VKM8 - L



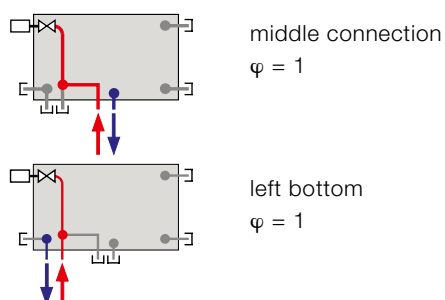
Type 33 VKM8 - L



Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 10 VKM8 - L	47 mm
Type 11 VKM8 - L	63 mm
Type 20 VKM8 - L	66 mm
Type 21 VKM8 - L	66 mm
Type 22 VKM8 - L	100 mm
Type 33 VKM8 - L	155 mm
Connecting pitch	50 mm
Connecting thread	8 × G 1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	middle connection left bottom

Examples of connection to the heating system



RADIK VKM8 - U

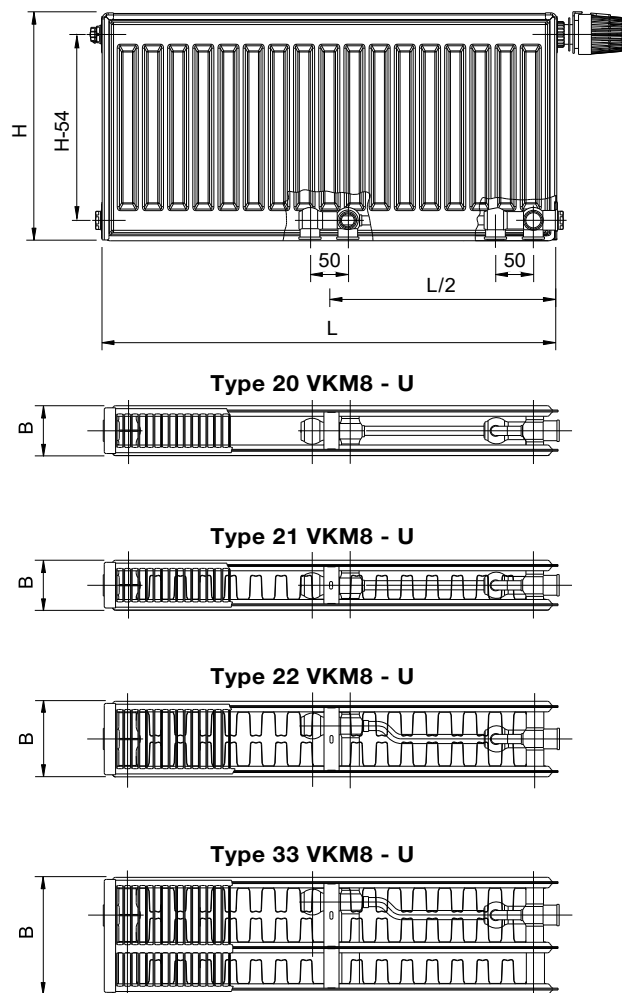


Description

Model **RADIK VKM8-U** is a panel radiator in version VENTIL KOMPAKT which allows **bottom middle, bottom right or bottom left connection** to the heating system. This model has no welded hangers to the back side.

The panel radiators RADIK VKM8-U are designed as modern components of the heating systems with forced circulation of the heating media and with horizontal distribution pipes located below the radiators in the floor, in the wall or along the wall and covered with decorative strips.

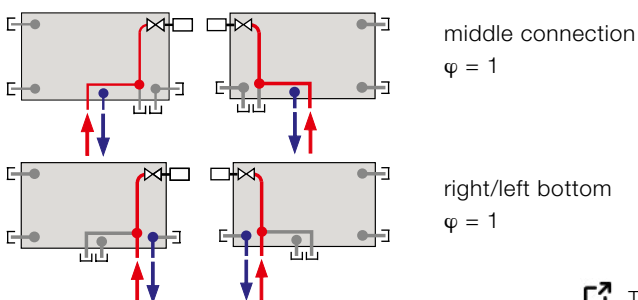
Overview of types



Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 20 VKM8 - U	66 mm
Type 21 VKM8 - U	66 mm
Type 22 VKM8 - U	100 mm
Type 33 VKM8 - U	155 mm
Connecting pitch	50 mm
Connecting thread	8 × G 1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	middle connection right bottom left bottom

Examples of connection to the heating system

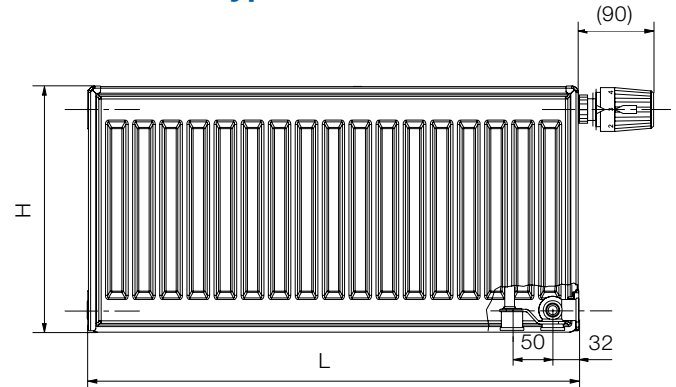




Description

RADIK VK model is a steel panel radiator in VENTIL KOMPAKT version which allows **right bottom connection** to a pressure fed heating system. Two upper and lower hangers are welded onto the back. Radiators 1800 mm and longer have six hangers.

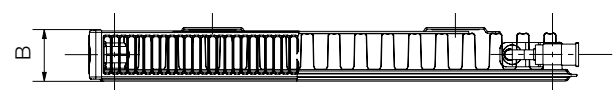
Overview of types



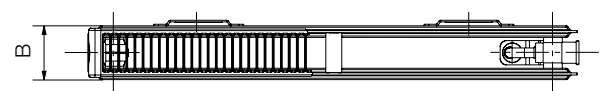
Type 10 VK



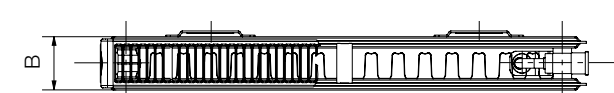
Type 11 VK



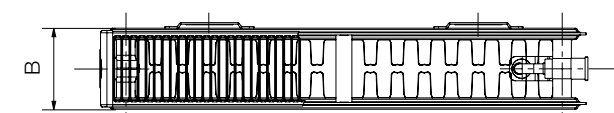
Type 20 VK



Type 21 VK



Type 22 VK



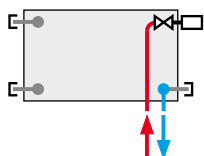
Type 33 VK



Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 10 VK	47 mm
Type 11 VK	63 mm
Type 20 VK	66 mm
Type 21 VK	66 mm
Type 22 VK	100 mm
Type 33 VK	155 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Examples of connection to the heating system



right bottom
φ = 1

RADIK VK - Z



Description

RADIK zinc-coated panel radiators are intended for rooms with a high risk of corrosion because of high humidity or chemically aggressive atmospheres. Resistance to corrosion is increased by a layer of zinc coat, which slows down the corrosion process and results in an extended life of the radiator.

RADIK VK - Z model is a steel panel radiator in VENTIL KOMPAKT version which allows **right bottom connection** to a pressure fed heating system. Two upper and lower hangers are welded onto the back. Radiators 1800mm and longer have six hangers.

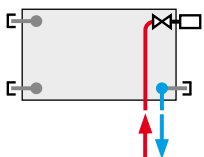
Notice:

Because of the particular qualities of the zinc-coating and the use of special polyester paint, the zinc-coated radiators are not exactly identical in appearance to the standard RADIK radiators.

Technical data

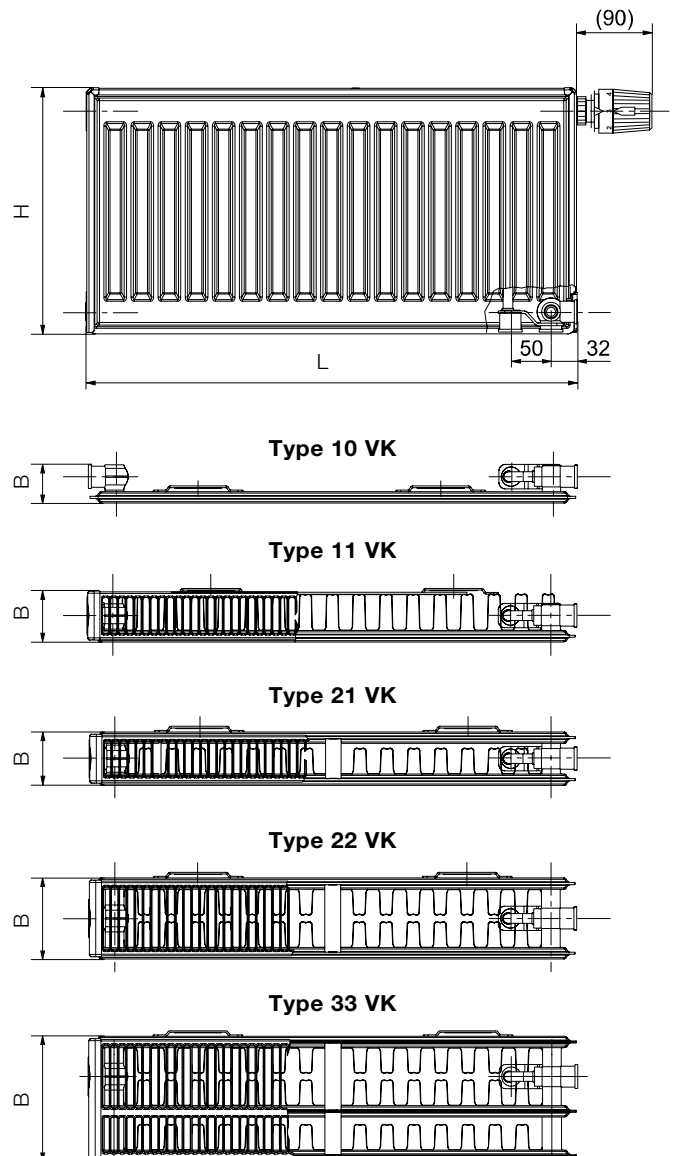
Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 10 VK	47 mm
Type 11 VK	63 mm
Type 21 VK	66 mm
Type 22 VK	100 mm
Type 33 VK	155 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Examples of connection to the heating system



right bottom
 $\varphi = 1$

Overview of types

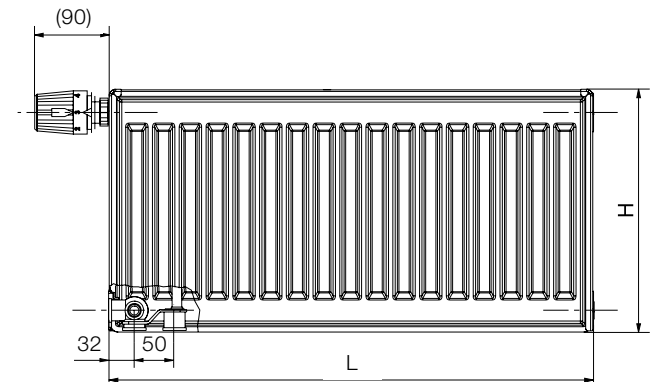




Description

RADIK VKL model is a steel panel radiator in VENTIL KOMPAKT version which allows **left bottom connection** to a heating system which is pressure fed. Two upper and lower hangers are welded onto the back. Radiators 1800 mm and longer have six hangers.

Overview of types

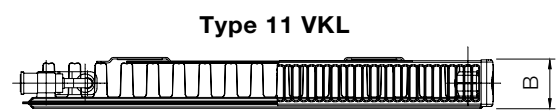


Technical data

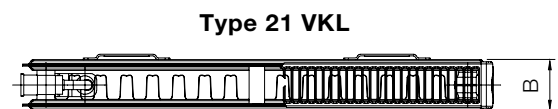
Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 10 VKL	47 mm
Type 11 VKL	63 mm
Type 21 VKL	66 mm
Type 22 VKL	100 mm
Type 33 VKL	155 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left bottom



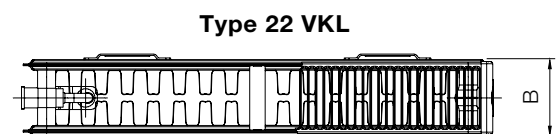
Type 10 VKL



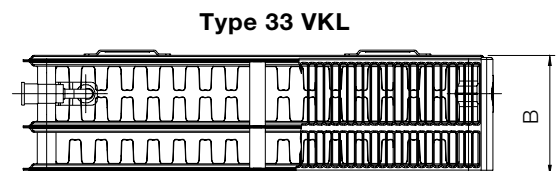
Type 11 VKL



Type 21 VKL

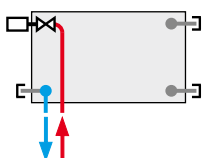


Type 22 VKL



Type 33 VKL

Examples of connection to the heating system



left bottom
 $\varphi = 1$

RADIK VKU



Description

RADIK VKU model is a steel panel radiator in VENTIL KOMPAKT version which allows **left or right bottom connection** to the pressurized heating system. No hangers are welded on the back, so radiator types 21, 22, and 33 can be turned round.

Note:

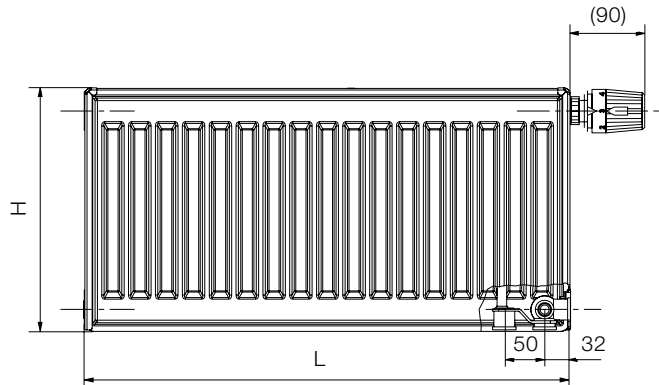
Type 33 VKU does not have symmetrically placed connections with respect to the depth of the radiator.

When placing the radiator on the wall, it is necessary to use Compact Bracket Plus (see the KORAMONT catalogue).

Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 21 VKU	66 mm
Type 22 VKU	100 mm
Type 33 VKU	155 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	right or left bottom

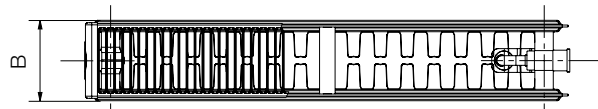
Overview of types



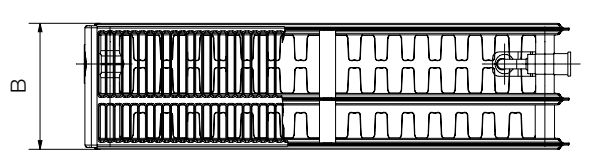
Type 21 VKU



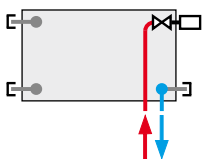
Type 22 VKU



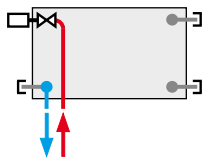
Type 33 VKU



Examples of connection to the heating system



right bottom
 $\varphi = 1$



left bottom
 $\varphi = 1$

RADIK MATERNELLE VK



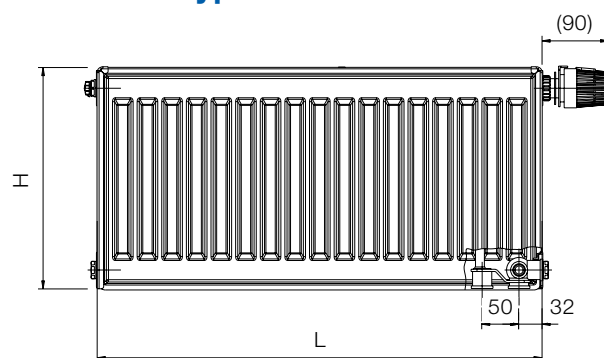
Description

The model **RADIK MATERNELLE VK** is a steel panel radiator in the VENTIL KOMPAKT version allowing a **right bottom connection** to the heating system with forced circulation of hot water. The special design of the concept MATERNELLE radiators prevents entry of hot water in the front panel. This ensures a safe surface temperature. Two upper and two lower hangers are welded on the rear side of the radiator. Radiators 1800mm and longer have six welded hangers.

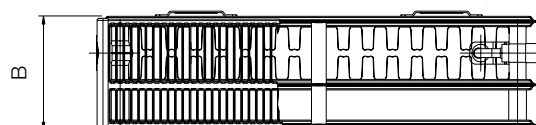
Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B Type 32 VK	155 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	right bottom

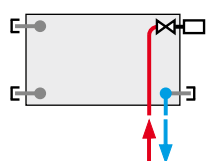
Overview of types



Type 32 VK



Examples of connection to the heating system



right bottom
 $\varphi = 1$

RADIK MATERNELLE VKL



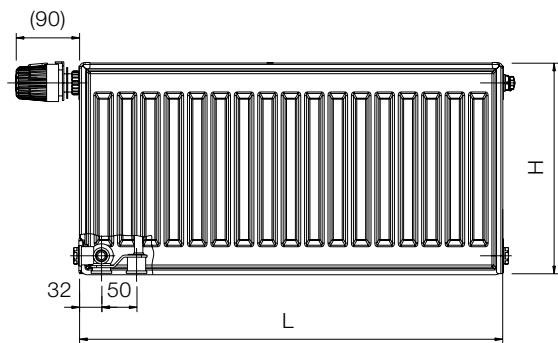
Description

The model **RADIK MATERNELLE VKL** is a steel panel radiator in the VENTIL KOMPAKT version allowing **a left bottom connection** to the heating system with forced circulation of hot water. The special design of the concept MATERNELLE radiators prevents entry of hot water in the front panel. This ensures a safe surface temperature. Two upper and two lower hangers are welded on the rear side of the radiator. Radiators 1800 mm and longer have six welded hangers.

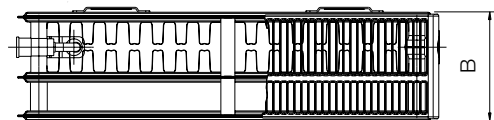
Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B Type 32 VKL	155 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left bottom

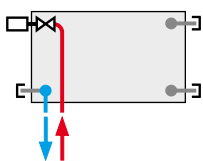
Overview of types



Type 32 VKL



Examples of connection to the heating system



left bottom
 $\varphi = 1$

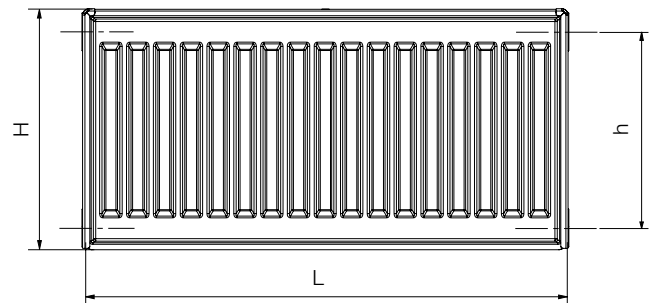


Description

RADIK KLASIK model is a steel panel radiator in KLASIK version which allows **left or right side connection** to the heating system circuit. It is intended for heating systems which are gravity or pressure fed.

Two upper and lower hangers are welded at the back of the radiator. Radiators 1800mm long and longer have six welded hangers.

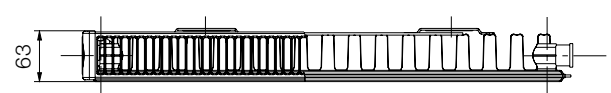
Overview of types



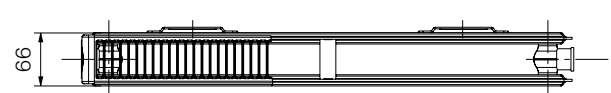
Type 10



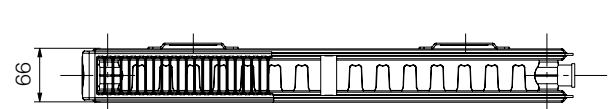
Type 11



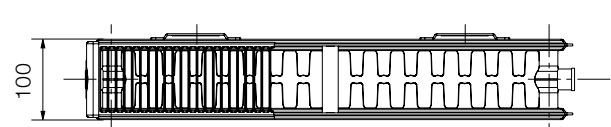
Type 20



Type 21



Type 22



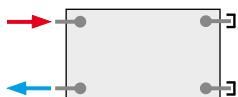
Type 33



Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Connecting pitch	$h = H - 54$ mm
Connecting thread	4 x G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system



side - one side
 $\varphi = 1$



side - two sides diagonal
 $\varphi = 1$
recommended for: $L \geq 3 \times H$



side - two sides direct
 $\varphi = 0,9$

Thermal performances

Guidelines for ordering are described on page 86.

RADIK KLASIK - Z



Description

RADIK zinc-coated panel radiators are intended for rooms with a high risk of corrosion because of high humidity or chemically aggressive atmospheres. Resistance to corrosion is increased by a layer of zinc coat, which slows down the corrosion process and results in an extended life of the radiator.

RADIK KLASIK - Z model is a steel panel radiator in KLASIK version which allows **left or right side connection** to the heating system circuit. It is intended for heating systems which are gravity or pressure fed. Two upper and lower hangers are welded at the back of the radiator. Radiators 1800 mm long and longer have six welded hangers.

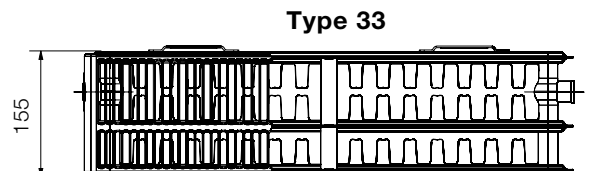
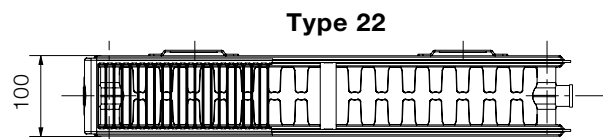
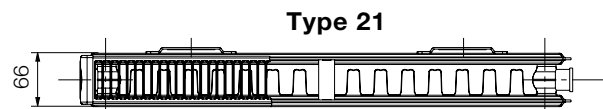
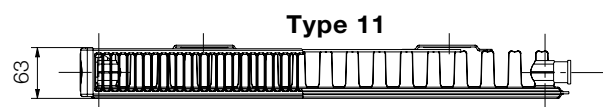
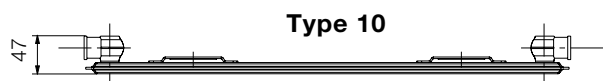
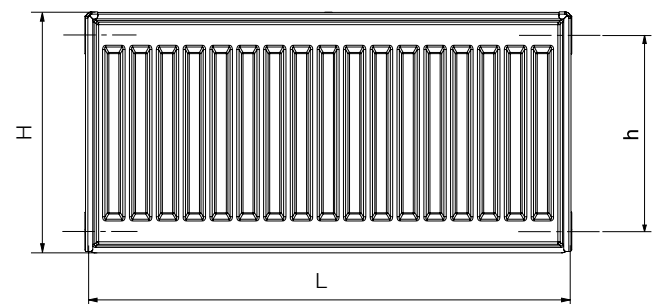
Notice:

Because of the particular qualities of the zinc-coating and the use of special polyester paint, the zinc-coated radiators are not exactly identical in appearance to the standard RADIK radiators.

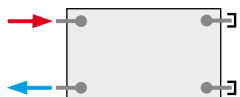
Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Connecting pitch	$h = H - 54$ mm
Connecting thread	4 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Overview of types



Examples of connection to the heating system



side - one side
 $\varphi = 1$



side - two sides diagonal
 $\varphi = 1$
recommended for: $L \geq 3 \times H$



side - two sides direct
 $\varphi = 0,9$



Description

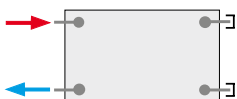
The **RADIK KLASIK – R** model is a steel panel radiator in KLASIK design, modified for swift **replacement of cast-iron or steel sectional radiators with a Connecting pitch of 500 mm.**

The height $H = 554$ mm guarantees its problem-free fitting in place of the old radiator. It allows for **left or right side connection** to the heating system distribution mains and is designed for heating systems with forced or gravity circulation. Two upper and lower fixing hangers are welded onto the back, radiators 1800 mm in length or longer have six welded fixing hangers.

Technical data

Height H	554 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 20 R	66 mm
Type 21 R	66 mm
Type 22 R	100 mm
Type 33 R	155 mm
Connecting pitch	500 mm
Connecting thread	4 x G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system



side - one side
 $\varphi = 1$

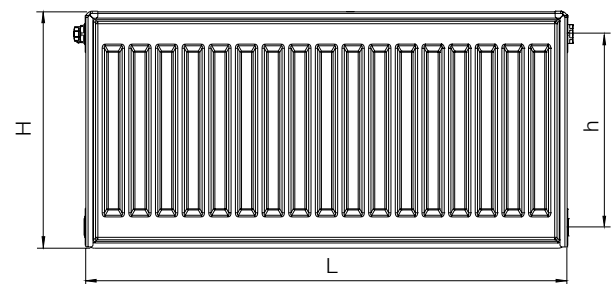


side - two sides diagonal
 $\varphi = 1$
recommended for: $L \geq 3 \times H$

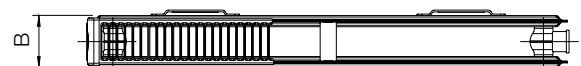


side - two sides direct
 $\varphi = 0,9$

Overview of types



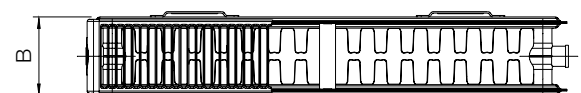
Type 20 R



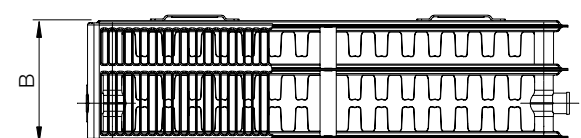
Type 21 R



Type 22 R



Type 33 R



RADIK KLASIK - R

You can find a replacement for your cast-iron and steel sectional radiators yourself in the RADIK KLASIK – R steel panel radiator range

Sectional radiators						[mm]	Steel panel radiators			
cast-iron				steel			RADIK KLASIK - R			
575 ÷ 610				575 ÷ 610		H	554			
500				500		h	500			
110	160	220	200	150	200	B	66	66	100	155
500/110	500/160	500/220	500/200	500/150	500/200	Type	20 R	21 R	22 R	33 R
number of sections n [pcs]				number of sections n [pcs]			appropriate length of the radiator L [mm]			
5	3	3	3	5	4	→	400			
6	4	3	4	6	5	→	500 400			
7	5	4	4	7	5	→	600 400 400			
8	6	5	5	8	7	→	700 500 400			
10	7	6	7	10	8	→	800 600 500			
11	8	6	7	11	9	→	900 700 500 400			
12	9	7	8	12	10	→	1000 800 600 400			
13	10	8	9	13	11	→	1100 800 700 500			
15	11	9	10	15	12	→	1200 900 700 500			
16	12	10	11	16	14	→	1400 1000 800 600			
17	13	10	12	17	14	→	1400 1100 800 600			
18	14	11	12	18	15	→	1600 1100 900 600			
20	15	12	13	20	16	→	1600 1200 900 700			
22	16	13	15	22	18	→	1800 1400 1000 700			
24	18	14	16	24	19	→	2000 1400 1100 800			
25	19	15	17	25	21	→	2000 1600 1200 800			
26	20	15	17	26	22	→	1600 1200 900			
29	22	17	20	29	24	→	1800 1400 1000			
30	23	18	20	30	25	→	1800 1400 1000			
33	25	20	22	33	27	→	2000 1600 1100			
35	26	21	23	35	28	→	1600 1100			
38	28	23	26	38	31	→	1800 1200			
38	29	23	26	38	31	→	1800 1400			
40	30	23	26	40	32	→	1800 1400			
44	33	26	29	44	36	→	2000 1400			
50	38	30	34	50	41	→	1600			
57	43	34	38	57	46	→	1800			
64	48	38	43	64	51	→	2000			

Identify your old radiator according to the material and dimensions:

1. Identify the material (cast iron / steel). If the surface of your radiator is rough then you have a cast iron radiator.
2. Measure the radiator height **H**.
3. Check if the connecting pitch is really 500 mm.
4. Measure the radiator depth **B**.
5. Count the elements ("ribs").
6. We have finished the identification of your radiator. Now look up a column in the left side of the table which corresponds to your old radiator.
7. We have finished the identification of your radiator. Now look up a column in the left side of the table which corresponds to your old radiator.

Selection of the new radiator:

8. In the line with corresponding number of elements on the right (blue) side of the table choose the most corresponding convenient length of the new radiator **L**. The length is dependent on the radiator type.
9. After selecting the radiator type check its depth **B** to make sure it meets your requirements.
10. Find your nearest one on our website-sales outlet.

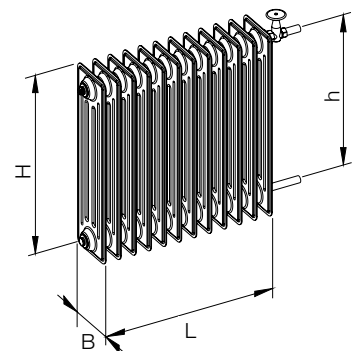
Example of completing a table

Room	Type of the radiator	Length of the radiator	Code for ordering
Living room, cast-iron, depth 160, 19 ribs	22 R	1200	22055120-R0-0010
2. Bedroom, cast-iron, depth 220, 8 ribs	21 R	800	21055080-R0-0010
Children's room, steel, depth 150, 20 ribs	33 R	700	33055070-R0-0010
			.. 055... -R0-0010
			.. 055... -R0-0010
			.. 055... -R0-0010
			.. 055... -R0-0010
			.. 055... -R0-0010
			.. 055... -R0-0010

* The standard radiator colour is RAL 9016. If you wish to have a different colour from KORADO or RAL colour card please specify this in your order.

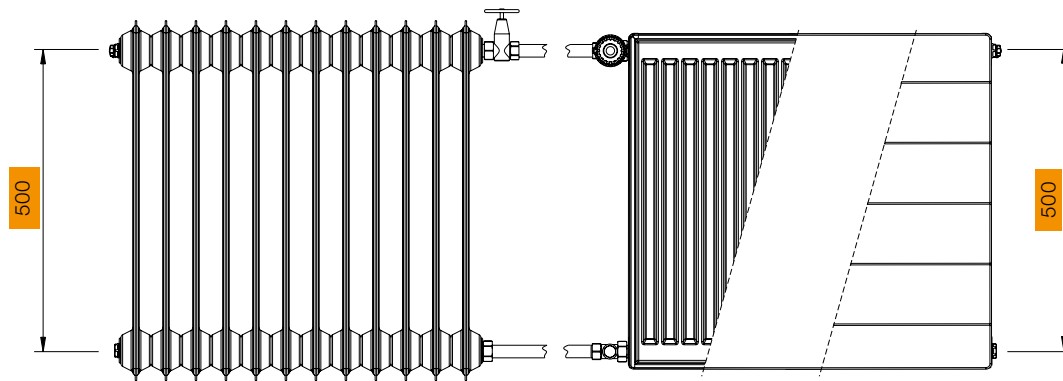
Heat output of sectional radiators

material of radiator	Connecting pitch h [mm]	depth B [mm]	heat output [W/section] (90/70/20 °C)
steel	500	150	90
		160	93
		200	110
		220	121
cast-iron	500	110	92
		150	107
		160	120
		200	134
		220	151
		250	169



H [mm] - height of the radiator
h [mm] - Connecting pitch
L [mm] - length of the radiator
B [mm] - depth of the radiator

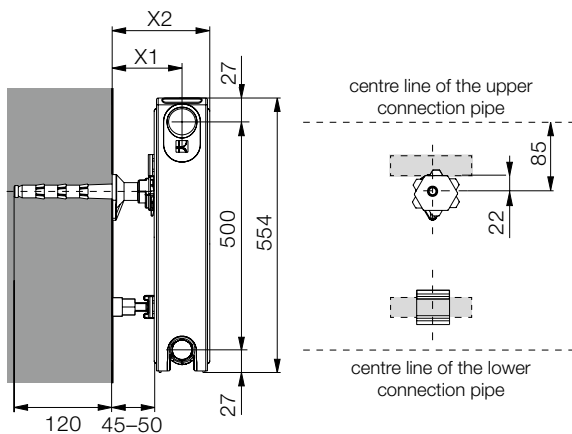
* If the surface of your radiator is rough then you have a cast iron radiator.



Mounting data

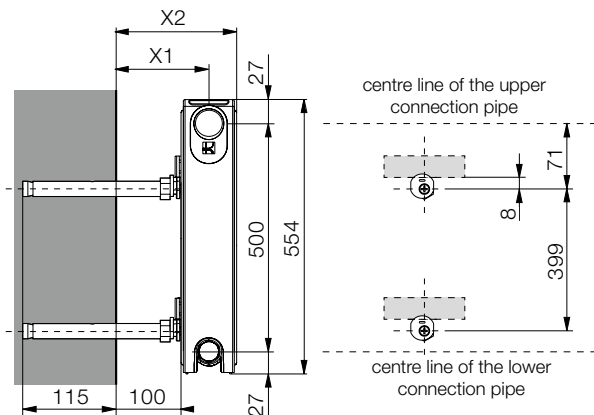
The Z-U140 bracket can be used for fixing the radiator at a fixed distance of the radiator from the wall of 45 ÷ 50 mm, or the Z-U290 bracket with variable distance of up to 100 mm from the wall.

Z-U140 bracket



Type	20 R	21 R	22 R	33 R
X1	78 ÷ 83	78 ÷ 83	95 ÷ 100	150 ÷ 155
X2	111 ÷ 116	111 ÷ 116	145 ÷ 150	200 ÷ 205

The X2 figures are increased by 2 mm for PLAN/LINE radiators.

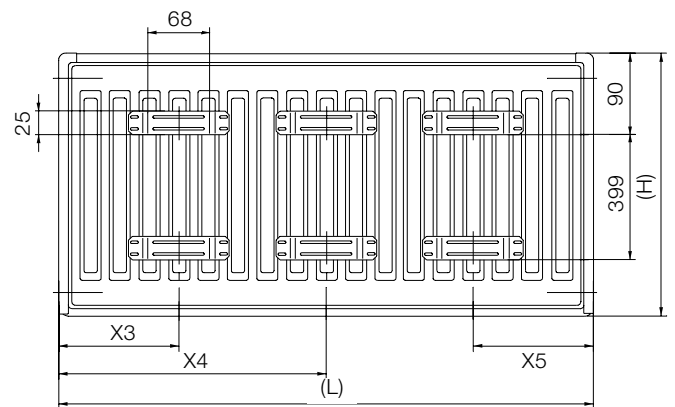


Type	20 R	21 R	22 R	33 R
X1	133	133	150	205
X2	166	166	200	255

The X2 figures are increased by 2 mm for PLAN/LINE radiators.

The company reserves the right to make technical changes.

Mounting data



Length L [mm]	400	500 ÷ 1600	1800	2000
X3	133	133	133	133
X4	-	-	900	1000
X5	133	133	133	133

Basic technical data

Type	20 R	21 R	22 R	33 R
	20 PLAN R	21 PLAN R	22 PLAN R	33 PLAN R
	20 LINE R	21 LINE R	22 LINE R	33 LINE R
Height H [mm]	554	554	554	554
Radiator weight [kg/m]	21,4	25,9	31,9	47,5
	25,8 *	30,3 *	36,3 *	51,9 *
Water volume [l/m]	5,5	5,5	5,5	8,2
Flow coefficient A _r [m ²]	1,0 x 10 ⁻⁴ (DN 15)	1,0 x 10 ⁻⁴ (DN 15)	1,0 x 10 ⁻⁴ (DN 15)	1,18 x 10 ⁻⁴ (DN 15)
Resistance coefficient ξ _r [-]	8,5 (DN 15)	8,5 (DN 15)	8,5 (DN 15)	5,8 (DN 15)
Nominal heat output [W/m]	914	1210	1576	2257
	846 *	1148 *	1532 *	2196 *
Temperature exponent n [-]	1,3010	1,3300	1,3344	1,3364
	1,2801 *	1,3217 *	1,3226 *	1,3202 *
K _M	5,6310	6,6551	8,5202	12,1068
	5,6561 *	6,5224 *	8,6736 *	12,5502 *

*These values are valid for PLAN-R and LINE-R radiators

$$\text{Characteristic equation: } \phi = K_M \cdot \Delta T^n \left[\frac{W}{m} \right], \quad \Delta T = \frac{t_1 + t_2}{2} - t_r [K]$$

t₁ – temperature water-in, t₂ – temperature water-out, t_r – relative air temperature

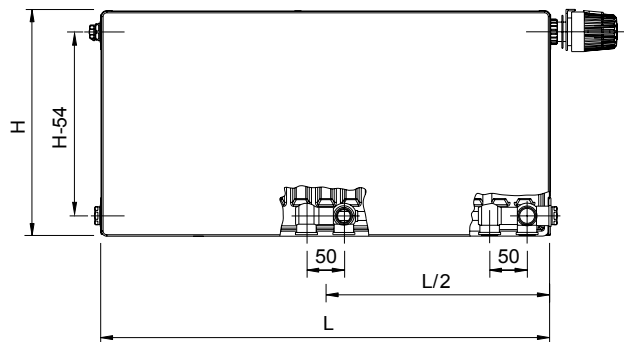
RADIK PLAN VKM8, LINE VKM8



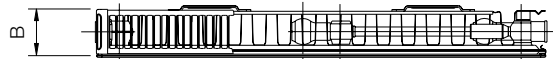
Description

Model **RADIK PLAN VKM8 (RADIK LINE VKM8)** is a panel radiator with flat front panel PLAN (LINE) and at the same time it is in version VENTIL KOMPAKT. This design allows **bottom middle or bottom right connection** of the radiator to the heating system with forced circulation. The types 20, 21, 22 and 33 have the same distance of the bottom middle connection from the wall. Two upper and two lower hangers are welded to the back side of the radiator, the radiators with length of 1800 mm and more are equipped with six welded hangers.

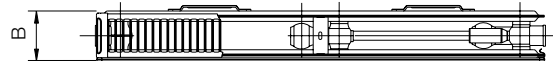
Overview of types



Type 11 PLAN VKM8



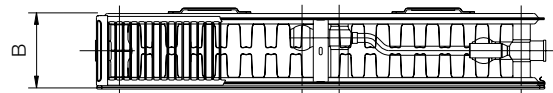
Type 20 PLAN VKM8



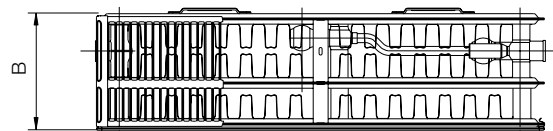
Type 21 PLAN VKM8



Type 22 PLAN VKM8



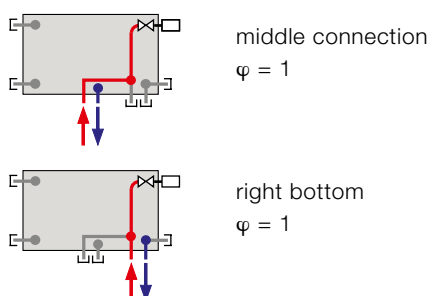
Type 33 PLAN VKM8



Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 11 PLAN VKM8	65 mm
Type 20 PLAN VKM8	68 mm
Type 21 PLAN VKM8	68 mm
Type 22 PLAN VKM8	102 mm
Type 33 PLAN VKM8	157 mm
Connecting pitch	50 mm
Connecting thread	8 × G 1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	middle connection right bottom

Examples of connection to the heating system



RADIK PLAN VKM8 - L, LINE VKM8 - L



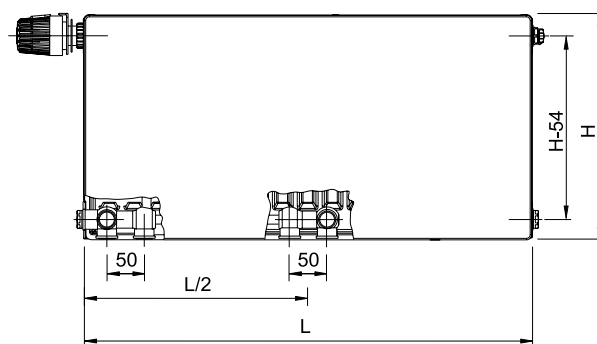
Description

Model **RADIK PLAN VKM8 - L (RADIK LINE VKM8-L)** is a panel radiator with flat front panel PLAN (LINE) and at the same time it is in version VENTIL KOMPAKT. This design allows **bottom middle or bottom left connection** of the radiator to the heating system with forced circulation. The types 20, 21, 22 and 33 have the same distance of the bottom middle connection from the wall. Two upper and two lower hangers are welded to the back side of the radiator, the radiators with length of 1800 mm and more are equipped with six welded hangers.

Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 11 PLAN VKM8 - L	65 mm
Type 20 PLAN VKM8 - L	68 mm
Type 21 PLAN VKM8 - L	68 mm
Type 22 PLAN VKM8 - L	102 mm
Type 33 PLAN VKM8 - L	157 mm
Connecting pitch	50 mm
Connecting thread	8 × G 1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	middle connection left bottom

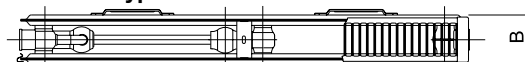
Overview of types



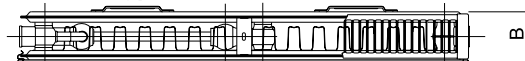
Type 11 PLAN VKM8 - L



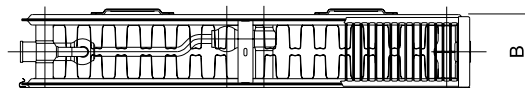
Type 20 PLAN VKM8 - L



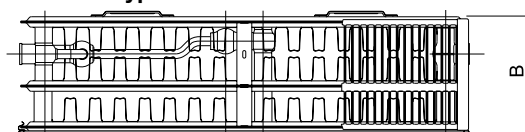
Type 21 PLAN VKM8 - L



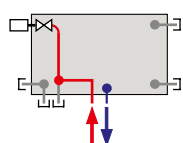
Type 22 PLAN VKM8 - L



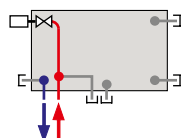
Type 33 PLAN VKM8 - L



Examples of connection to the heating system



middle connection
 $\varphi = 1$



left bottom
 $\varphi = 1$

RADIK PLAN VK, LINE VK



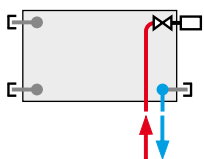
Description

RADIK PLAN VK (RADIK LINE VK) model is a steel panel radiator in VENTIL KOMPAKT version and in PLAN (LINE) version which allows **right bottom connection** to a pressure fed heating system. Two upper and lower hangers are welded onto the back. Radiators 1800 mm and longer have six hangers.

Technical data

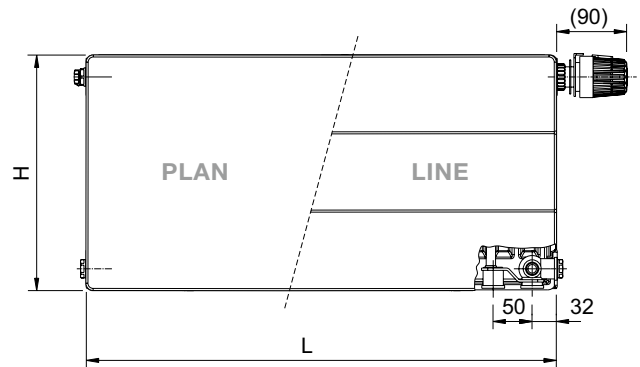
Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000mm
Depth B	
Type 11 PLAN VK/LINE VK	65 mm
Type 21 PLAN VK/LINE VK	68 mm
Type 22 PLAN VK/LINE VK	102 mm
Type 33 PLAN VK/LINE VK	157 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Examples of connection to the heating system



right bottom
 $\varphi = 1$

Overview of types



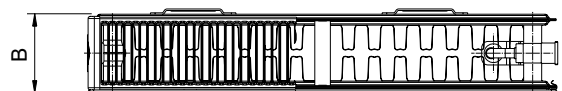
Type 11 PLAN VK/LINE VK



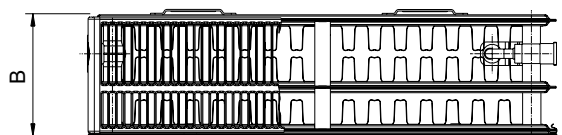
Type 21 PLAN VK/LINE VK



Type 22 PLAN VK/LINE VK



Type 33 PLAN VK/LINE VK



RADIK PLAN VKL, LINE VKL



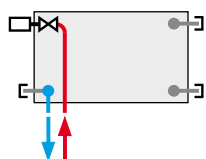
Description

RADIK PLAN VKL (RADIK LINE VKL) model is a steel panel radiator in VENTIL KOMPAKT version and in PLAN (LINE) version which allows **left bottom connection** to a pressure fed heating system. Two upper and lower hangers are welded onto the back. Radiators 1800 mm and longer have six hangers.

Technical data

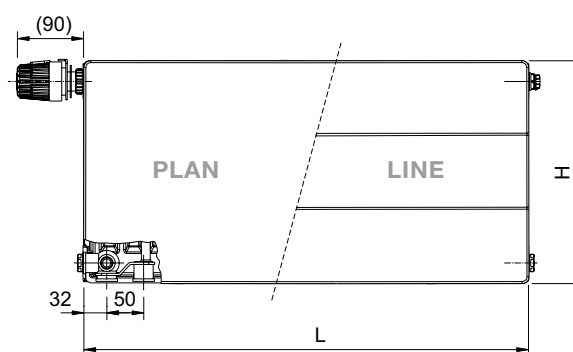
Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 11 PLAN VKL/LINE VKL	65 mm
Type 21 PLAN VKL/LINE VKL	68 mm
Type 22 PLAN VKL/LINE VKL	102 mm
Type 33 PLAN VKL/LINE VKL	157 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left bottom

Examples of connection to the heating system



left bottom
 $\varphi = 1$

Overview of types



Type 11 PLAN VKL/LINE VKL



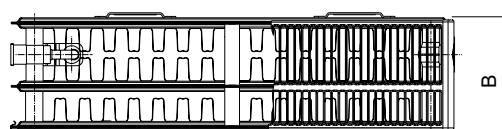
Type 21 PLAN VKL/LINE VKL



Type 22 PLAN VKL/LINE VKL



Type 33 PLAN VKL/LINE VKL



RADIK PLAN KLASIK, LINE KLASIK



Description

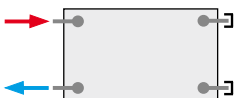
RADIK PLAN KLASIK (RADIK LINE KLASIK) is a steel panel radiator in KLASIK version and in PLAN (LINE) version which allows **left or right side connection** to the heating system circuit. It is intended for heating systems which are gravity or pressure fed.

Two upper and lower hangers are welded at the back of the radiator. Radiators 1800 mm long and longer have six welded hangers.

Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Connecting pitch	$h = H - 54$ mm
Connecting thread	4 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system



side - one side
 $\varphi = 1$

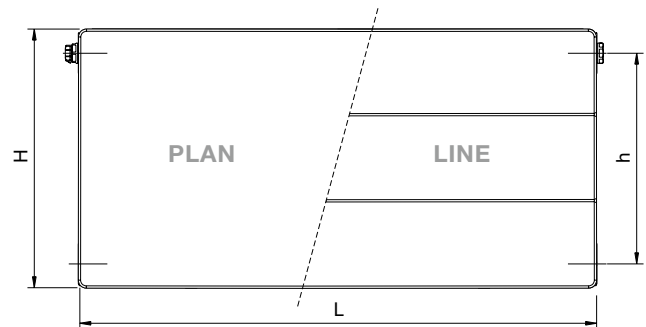


side - two sides diagonal
 $\varphi = 1$
recommended for: $L \geq 3 \times H$



side - two sides direct
 $\varphi = 0,9$

Overview of types



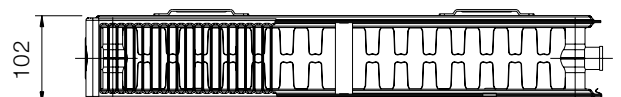
Type 11 PLAN/LINE



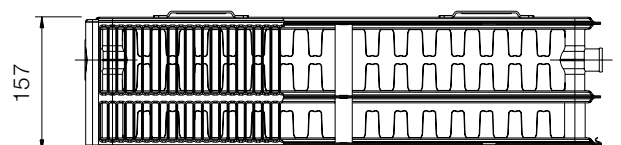
Type 21 PLAN/LINE



Type 22 PLAN/LINE



Type 33 PLAN/LINE



RADIK PLAN KLASIK - R, LINE KLASIK - R



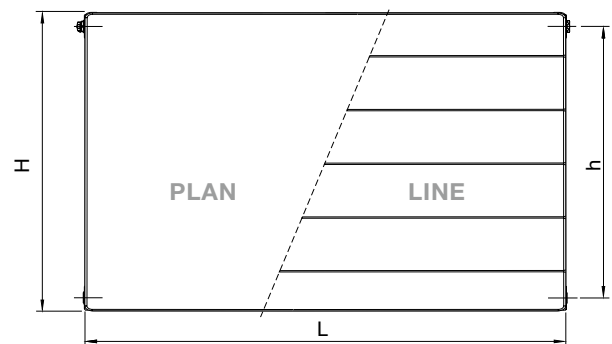
Description

RADIK PLAN KLASIK - R (RADIK LINE KLASIK-R) model is a PLAN (LINE) panel radiator with flat front panel modified for swift **replacement of cast-iron or steel sectional radiators with a connection pitch of 500 mm**. Height H = 554 mm guarantees its problem-free fitting in place of the old radiator. It allows for left or right side connection to the heating system distribution mains and is designed for heating systems with forced or gravity circulation. Two upper and lower fixing hangers are welded onto the back, radiators 1800 mm in length or longer have six welded hangers.

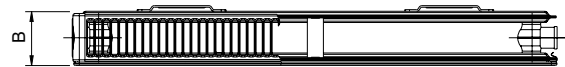
Technical data

Height H	554 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 20 PLAN - R /LINE KLASIK-R	68 mm
Type 21 PLAN - R /LINE KLASIK-R	68 mm
Type 22 PLAN - R /LINE KLASIK-R	102 mm
Type 33 PLAN - R /LINE KLASIK-R	157 mm
Connecting pitch	500 mm
Connecting thread	4 x G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Overview of types



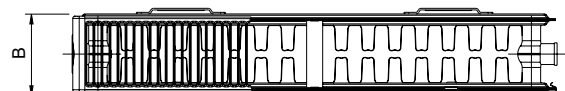
Type 20 PLAN - R/LINE - R



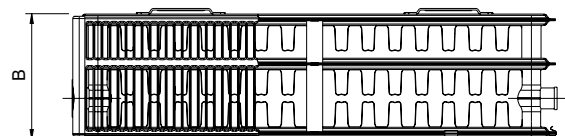
Type 21 PLAN - R/LINE - R



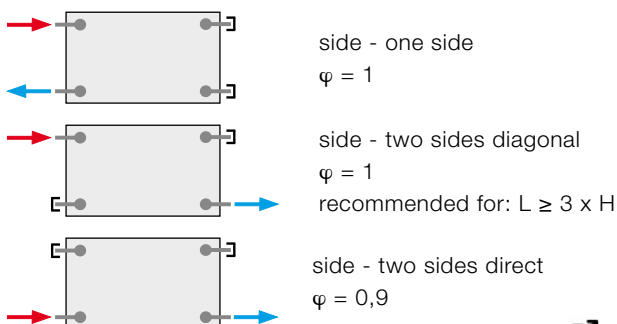
Type 22 PLAN - R/LINE - R



Type 33 PLAN - R/LINE - R



Examples of connection to the heating system



Thermal performances

Guidelines for ordering are described on page 87.

RADIK PLAN VERTIKAL - M



Description

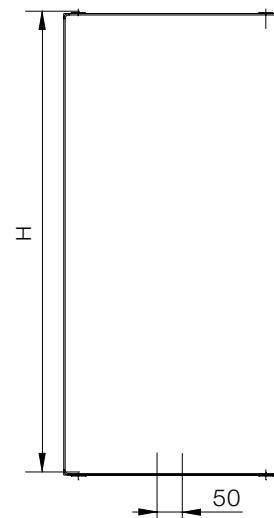
The **RADIK PLAN VERTIKAL - M** model is a vertically aligned panel radiator with a flat front panel. Its design allows for **bottom middle connection** to a pressurised heating system. It is equipped with a total of 6 outlets with a G1/2" internal thread. Two upper and two lower fixing hangers are welded to the back. Type 20 radiators in lengths of 600 and 900 mm have one extra fixing hanger at the top.

For connecting to the heating system we recommend using the Integrated Fitting HM supplied with a thermostatic head (see page 89)

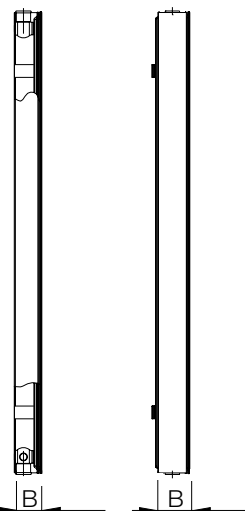
Technical data

Height H	1600, 1800, 2000 mm
Length L	400, 600, 900 mm
Depth B	
Type 10	52 mm
Type 20	68 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	middle connection

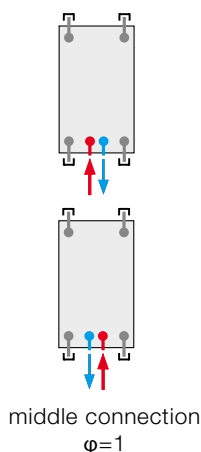
Overview of types





Type 10 **Type 20**



Examples of connection to the heating system



 Thermal performances

 Guidelines for ordering are described on page 87.

RADIK LINE VERTIKAL - M



Description

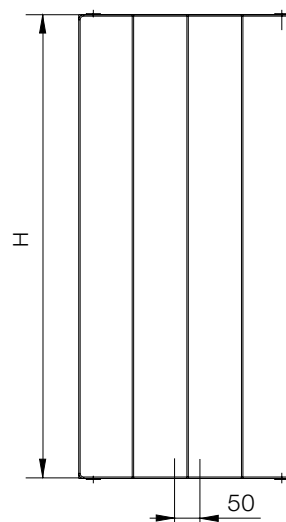
The **RADIK LINE VERTIKAL - M** model is a vertically aligned panel radiator with moulded front panel. Its design allows for **bottom middle connection** to a pressurised heating system. It is equipped with a total of 6 outlets with a G1/2" internal thread. Two upper and two lower fixing hangers are welded to the back. Type 20 radiators in lengths of 600 and 900 mm have one extra fixing hanger at the top.

For connecting to the heating system we recommend using the Integrated Fitting HM supplied with a thermostatic head (see page 89)

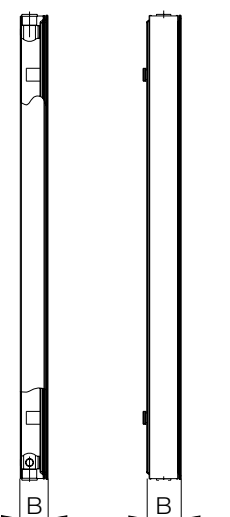
Technical data

Height H	1600, 1800, 2000 mm
Length L	400, 600, 900 mm
Depth B	
Type 10	52 mm
Type 20	68 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	middle connection

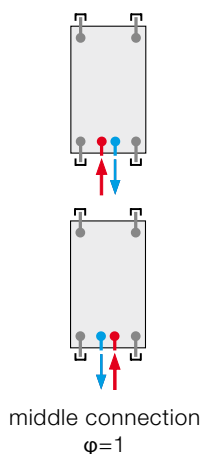
Overview of types



Type 10 Type 20



Examples of connection to the heating system



Thermal performances

Guidelines for ordering are described on page 87.

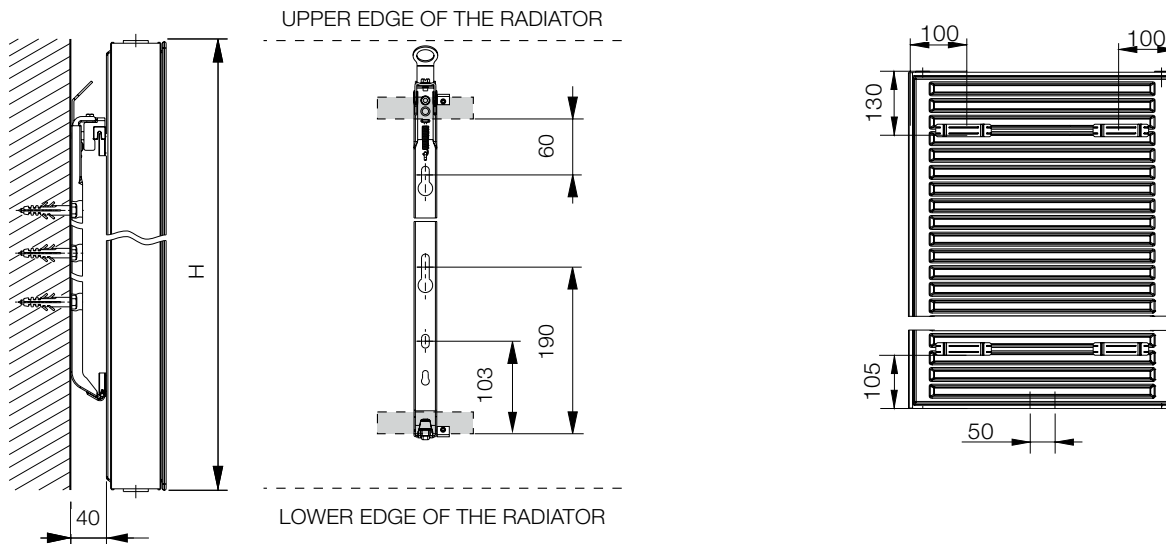
RADIK PLAN VERTIKAL - M, LINE VERTIKAL - M

Fixation

For fixing to the wall use the Split Bracket VERTIKAL (Z-U558) which is included in the radiator packaging.

Fixation

Type of bracket	Code for ordering	Type 10	Type 20
Split Bracket VERTIKAL	Z-U558	X	X



Heat output and basic technical parameters

20°C		Type 10			Type 20		
Length L [mm]		Height H [mm]					
		1600	1800	2000	1600	1800	2000
400	Q [W] 75/65 [°C]	602	661	717	847	927	1004
	Q [W] 70/55 [°C]	491	540	587	684	749	812
	Q [W] 55/45 [°C]	318	351	382	432	474	515
	Q [W] 45/40 [°C]	222	246	268	296	325	354
	Water volume [l]	3,7	4,1	4,6	7,0	7,9	8,8
	Radiator weight [kg]	19,0	21,3	23,6	31,7	35,7	39,6
	Temp. exponent n [-]	1,2512	1,2400	1,2334	1,3160	1,3115	1,3056
K_M	4,5066	5,1699	5,7545	4,9208	5,4813	6,0752	
600	Q [W] 75/65 [°C]	829	909	986	1185	1297	1404
	Q [W] 70/55 [°C]	676	742	806	959	1050	1138
	Q [W] 55/45 [°C]	436	480	523	609	668	725
	Q [W] 45/40 [°C]	303	336	366	418	460	500
	Water volume [l]	5,0	5,6	6,2	9,3	10,4	11,6
	Radiator weight [kg]	27,6	31,2	34,4	46,2	51,7	57,7
	Temp. exponent n [-]	1,2595	1,2482	1,2415	1,3036	1,2991	1,2932
K_M	6,0076	6,8851	7,6667	7,2267	8,0502	8,9178	
900	Q [W] 75/65 [°C]	1141	1252	1358	1659	1815	1965
	Q [W] 70/55 [°C]	929	1021	1109	1341	1468	1591
	Q [W] 55/45 [°C]	598	660	719	850	932	1012
	Q [W] 45/40 [°C]	416	461	502	583	640	696
	Water volume [l]	6,9	7,7	8,6	13,3	15,0	16,6
	Radiator weight [kg]	41,4	46,5	51,6	70,3	79,0	87,8
	Temp. exponent n [-]	1,2637	1,2524	1,2457	1,3097	1,3052	1,2993
K_M	8,1339	9,3286	10,3871	9,8788	10,9997	12,1868	
Resistance coefficient ξ_r [-]		140,0			82,0		
Flow coefficient A_r [m²]		$2,4 \times 10^{-5}$			$3,14 \times 10^{-5}$		

$$\text{Characteristic equation: } \phi = K_M \cdot \Delta T^n \left[\frac{W}{m} \right], \quad \Delta T = \frac{t_1 + t_2}{2} - t_r [K]$$

t_1 – temperature water-in, t_2 – temperature water-out, t_r – relative air temperature

Guidelines for ordering are described on page 87.



Description

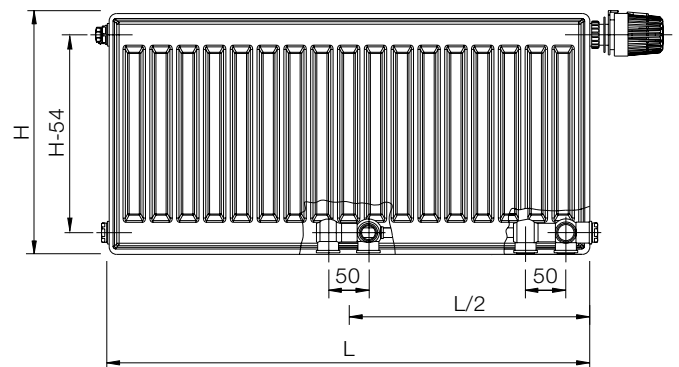
Model **RADIK VKM8** is a steel panel radiator in version VENTIL KOMPAKT which allows **bottom middle or bottom right connection** to the heating system. The types 20, 21, 22 and 33 have the same distance of the bottom middle connection from the wall. There are two upper and two lower hangers welded to the back side of the radiator, the radiators with length of 1800mm and more are equipped with six welded hangers.

The panel radiators RADIK VKM8 are designed as modern components of the heating systems with forced circulation of the heating me-dia and with horizontal distribution pipes located below the radiators in the floor, in the wall or along the wall and covered with decorative strips.

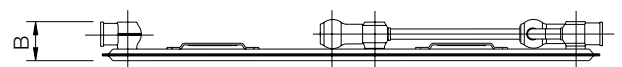
Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 10 CLEAN VKM8	47 mm
Type 20S CLEAN VKM8	100 mm
Type 30 CLEAN VKM8	155 mm
Connecting pitch	50 mm
Connecting thread	8 x G1/2 inside
Highest allowed working pressure	1,0 MPa
Highest allowed working temperature	110 °C
Radiator connection	middle connection right bottom

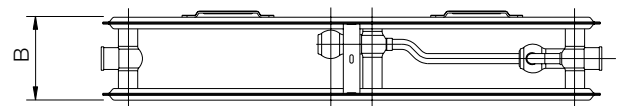
Overview of types



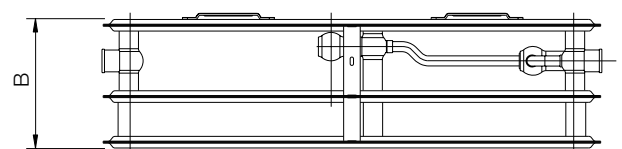
Type 10



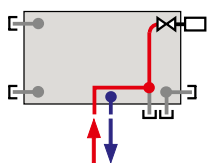
Type 20S



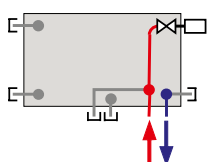
Type 30



Examples of connection to the heating system



middle connection
 $\varphi = 1$



middle connection
 $\varphi = 1$

RADIK CLEAN VK



Description

The **RADIK CLEAN VK** model is a steel panel radiator in the VENTIL KOMPAKT version, which allows for **bottom right connection** to the heating system. It is designed for pressurised heating systems.

It is intended for installation and operation in rooms with high demands on hygiene and cleanliness. All types are supplied without convector fins, grilles and side covers.

Two upper and two lower fixing hangers are welded to the back, radiators 1800mm in length or longer have six fixing hangers welded to the back. Basic equipment includes air vent and blanking plug.

Notice:

If a distance from the wall $65 \div 80$ mm is required, the same type of bracket can be used, but the bracket must also be used on the lower pair of fixing hangers (not just the plastic support). In this case it is necessary to order the additional brackets separately, they are not part of delivery.

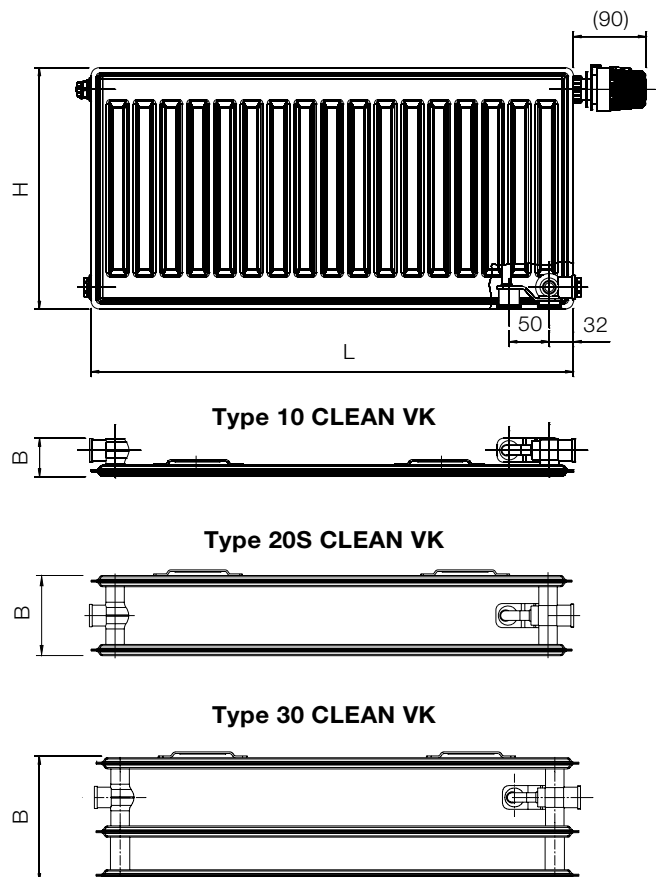
Note:

The RADIK CLEAN VK type 10 and RADIK VK type 10 radiators are identical.

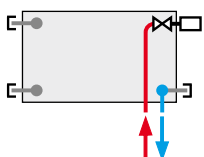
Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 10 CLEAN VK	47 mm
Type 20S CLEAN VK	100 mm
Type 30 CLEAN VK	155 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Overview of types



Examples of connection to the heating system



right bottom
 $\varphi = 1$



Description

The **RADIK CLEAN** model is a steel panel radiator in the **KLASIK** version, which allows for **left or right side connection** to the heating system. It is designed for pressurised heating systems or those with gravity circulation. It is intended for installation and operation in rooms with high demands on hygiene and cleanliness. All types are supplied without convector fins, grilles and side covers.

Two upper and two lower fixing hangers are welded to the back, radiators 1800mm in length or longer have six fixing hangers welded to the back. Basic equipment includes an air vent and blanking plug.

Notice:

If a distance from the wall $65 \div 80$ mm is required, the same type of bracket can be used, but the bracket must also be used on the lower pair of fixing hangers (not just the plastic support). In this case it is necessary to order the additional brackets separately, they are not part of delivery.

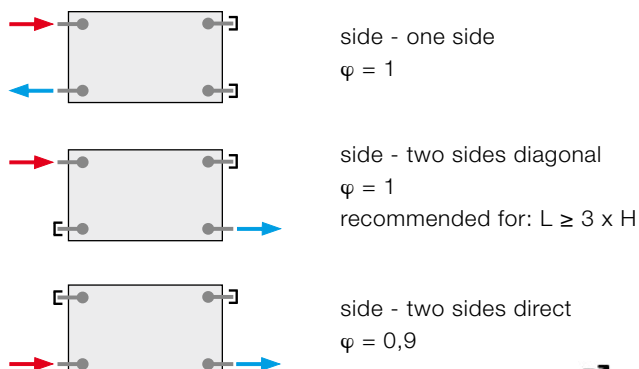
Note:

The RADIK CLEAN type 10 and RADIK KLASIK type 10 radiators are identical.

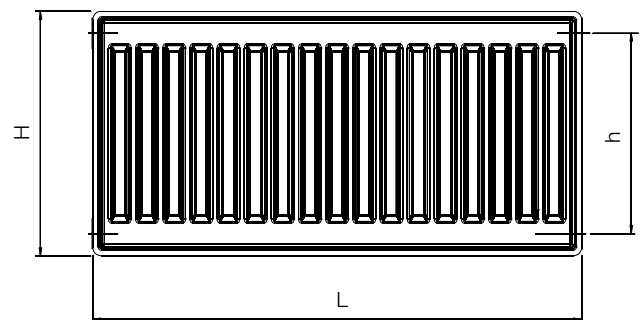
Technical data

Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 10 CLEAN	47 mm
Type 20S CLEAN	100 mm
Type 30 CLEAN	155 mm
Connecting pitch	$h = H - 54$ mm
Connecting thread	4 x G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right side

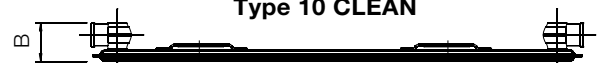
Examples of connection to the heating system



Overview of types



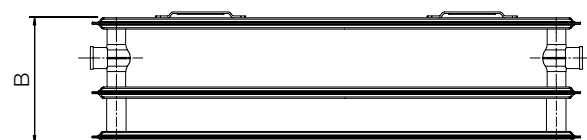
Type 10 CLEAN



Type 20S CLEAN



Type 30 CLEAN



RADIK HYGIENE VK



Description

RADIK HYGIENE VK is a panel radiator, in design VENTIL KOMPAKT, which enables the **right bottom connection** to the heating system. It is designed for pressurized heating systems.

It is suitable for installation and operation in rooms with high demands on hygiene and cleanliness. All types are without convector fins; they have a smooth front panel and the weld seams are covered with a special flat strip. The type 20S is typical for a greater spacing between the panels (radiator depth B = 102 mm) compared with the traditional design of type 20 (B = 66 mm).

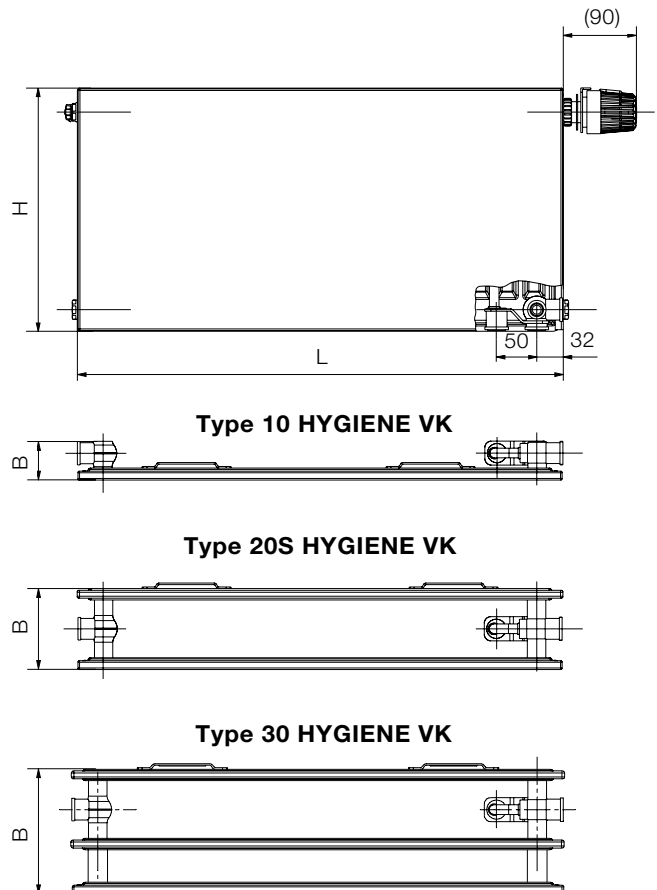
Notice:

On the rear side, two upper and two lower hangers are welded. Radiators with the length of 1800 mm and longer have six welded hangers. The standard product equipment includes an air-vent and a blanking plug.

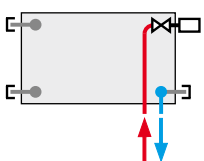
Technical data

Height H	503, 603, 703 mm
Length L	404, 504, 604, 704, 804, 904, 1004, 1104, 1204, 1404, 1604, 1804, 2004 mm
Depth B	
Type 10 HYGIENE VK	49 mm
Type 20S HYGIENE VK	102 mm
Type 30 HYGIENE VK	157 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Overview of types



Examples of connection to the heating system



right bottom
 $\varphi = 1$



Description

RADIK HYGIENE is a panel radiator, in design KLASIK, which can be connected to the heating system either from the **left or from the right side**. It is designed to be used in the pressurized or gravity fed heating systems.

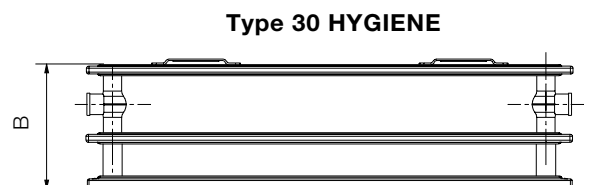
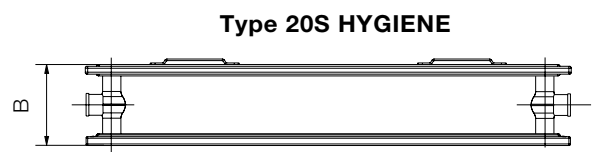
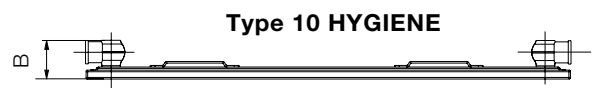
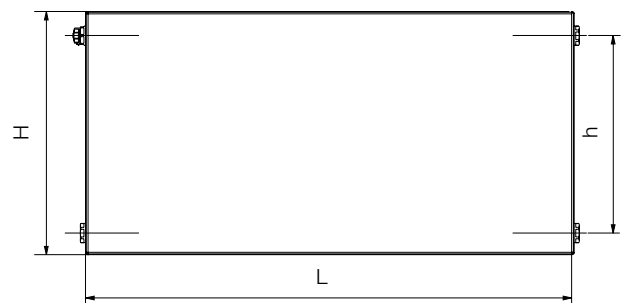
It is suitable for installation and operation in rooms with high demands on hygiene and cleanliness. All types are without convector fins; they have a smooth front panel and the weld seams are covered with a special flat strip. The type 20S is typical for a greater spacing between the panels (radiator depth B = 102 mm) compared with the traditional design of type 20 (B = 66 mm).

On the rear side, two upper and two lower hangers are welded. Radiators with the length of 1800mm and longer have six welded hangers. The standard product equipment includes an air-vent and a blanking plug.

Technical data

Height H	503, 603, 703 mm
Length L	404, 504, 604, 704, 804, 904, 1004, 1104, 1204, 1404, 1604, 1804, 2004 mm
Depth B	
Type 10 HYGIENE	49 mm
Type 20S HYGIENE	102 mm
Type 30 HYGIENE	157 mm
Connecting pitch	$h = H - 57$ mm
Connecting thread	4 x G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Overview of types



Examples of connection to the heating system



side - one side
 $\varphi = 1$



side - two sides diagonal
 $\varphi = 1$
recommended for: $L \geq 3 \times H$



side - two sides direct
 $\varphi = 0,9$

RADIK COMBI VK



Description

RADIK COMBI VK is a steel panel radiator in a VENTIL KOMPAKT design allowing a **right bottom connection** to the heating system distribution. It is designed for the pressurized heating systems.

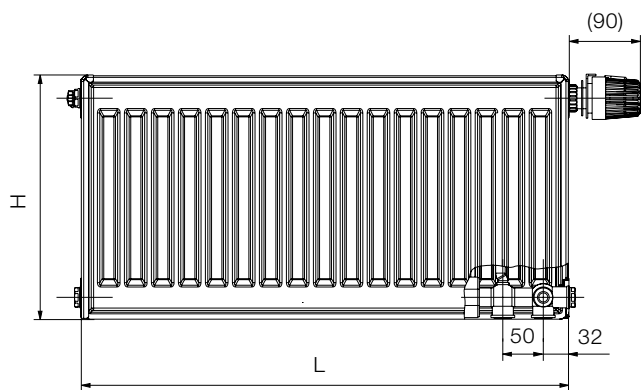
RADIK COMBI VK is designed for a combined installation with the electric heater. This combination creates a panel radiator suitable for combined heating (hot water – electricity) and can be used independently of the operation of the heating system. From the view of the electric installation the electric heater does not require any special arrangements in the heated room. It is recommended to install it together with the installation of the radiator.

There are two upper and two bottom hangers welded on the rear side. The standard set contains an air vent, 2 pieces of blanking plugs, a valve with a pre-set flow rate covered by a plastic cap..

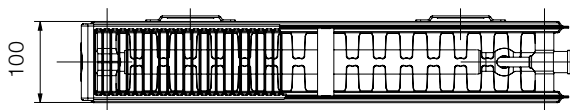
Overview of types

Technical data

Height H	600 mm
Length L	800, 1000, 1200, 1400, 1600 mm
Connecting pitch	50 mm
Connecting thread	5 x G1/2 inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	right bottom

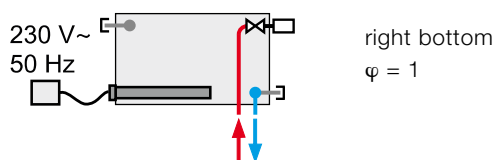


Typ 22 COMBI VK

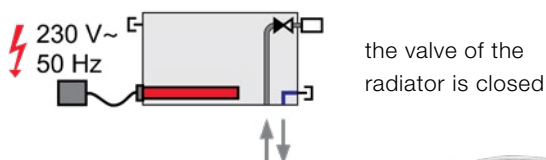


Examples of connection to the heating system

Connection to the water heating system



Usage as a direct electric radiator



Thermal performances

Guidelines for ordering are described on page 86.

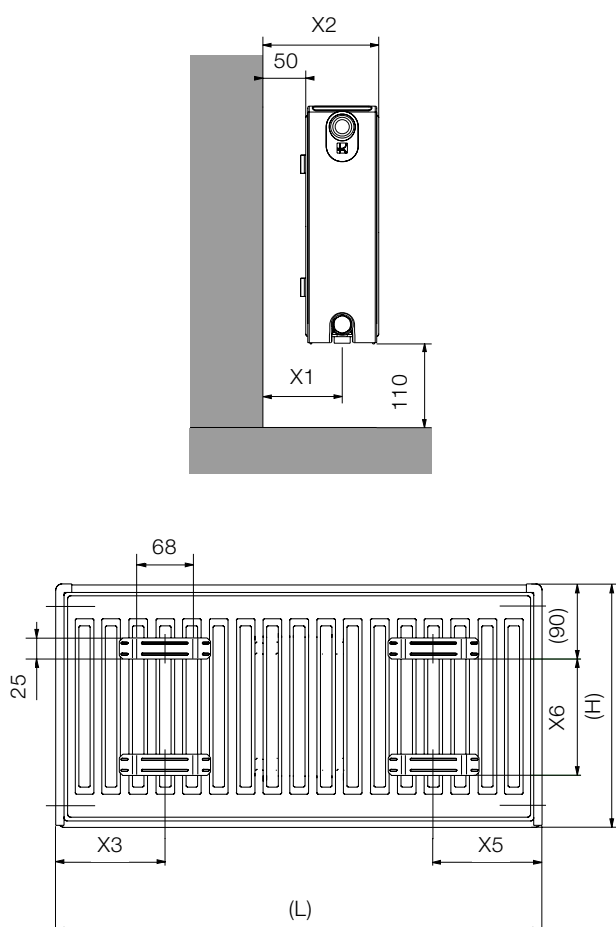


Direct electric heating

Before the radiator is set in electric operation we recommend to close the regulation valve and check whether the radiator is properly vented.

Elements for the electric operation, operation signalling and regulation based on temperature or time are not a part of delivery.

Position of radiator



Size chart

Length L [mm]	800 ÷ 1600
X1	100
X2	150
X3	133
X5	133
Height H [mm]	600
X6	445

Notice:

The values X1 and X2 are dependent on the type of the actually used mounting bracket.

Electric heating element



Technical data	Electric heating element
Temperature limiter	yes
Output range	700 ÷ 1200 W
Working voltage	230 V / 50 Hz
Coverage	IP 44
Consumer class	1
Connecting cable	1,5 m
Connecting thread	G 1/2
Working position	horizontal

Description of the heating element ordering

Output [W]	Ordering code	Length [mm]
700	Z-KT7-0700-10	570
900	Z-KT7-0900-10	740
1000	Z-KT7-1000-10	740
1200	Z-KT7-1200-10	895

Table for creation of a code

Z-KT7 - XXXX - 10



Notice:

When ordering the RADIK COMBI VK it is necessary to quote the article code of the radiator (see please p. 86) and of the electrical heating element. (see please p. 43).

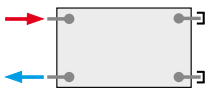
STEEL PANEL RADIATORS IN HEIGHT 200 mm

RADIK KLASIK

Technical data

Height H	200 mm
Length L	800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 22	100 mm
Type 33	155 mm
Connecting pitch	$h = H - 54$ mm
Connecting thread	4 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system

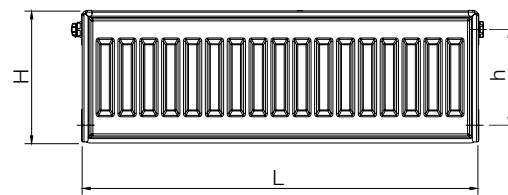


side - one side
 $\varphi = 1$

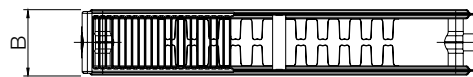
Description

RADIK KLASIK model is a steel panel radiator in KLASIK version which allows **left or right side connection** to the heating system. It is intended for heating systems which are gravity or pressure fed. No hangers are welded on the back of the radiator.

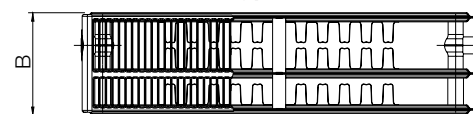
Overview of types



Type 22



Type 33

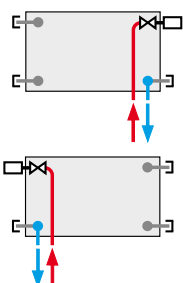


RADIK VKU

Technical data

Height H	200 mm
Length L	800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 22 VKU	100 mm
Type 33 VKU	155 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right bottom

Examples of connection to the heating system



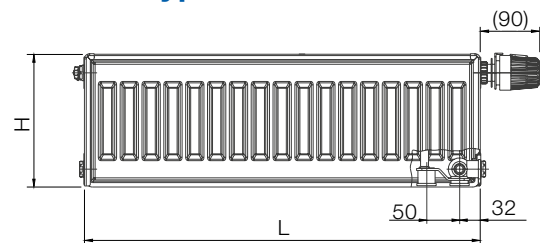
right bottom
 $\varphi = 1$

left bottom
 $\varphi = 1$

Description

RADIK VKU model is a steel panel radiator in VENTIL KOMPAKT version which allows **left or right bottom connection** to a pressurized heating system. No hangers are welded on the back of the radiator.

Overview of types




Type 22 VKU



Type 33 VKU



 Guidelines for ordering are described on page 87.

The company reserves the right to make technical changes.



RADIK PLAN KLASIK, LINE KLASIK

Technical data

Height H	200 mm
Length L	800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 22 PLAN	102 mm
Type 33 PLAN	157 mm
Connecting pitch	$h = H - 54$ mm
Connecting thread	4 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system



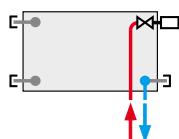
side - one side
 $\psi = 1$

RADIK PLAN VK, LINE VK

Technical data

Height H	200 mm
Length L	800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 22 PLAN VK	102 mm
Type 33 PLAN VK	157 mm
Connecting pitch	50 mm
Connecting thread	6 × G1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Examples of connection to the heating system

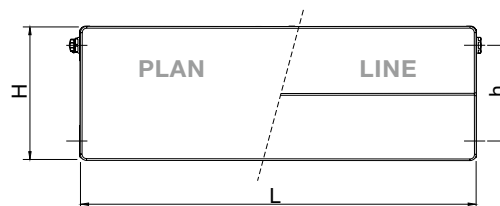


right bottom
 $\psi = 1$

Description

RADIK PLAN KLASIK (RADIK LINE KLASIK) model is a steel panel radiator in KLASIK version and PLAN (LINE) version which allows **left or right side connection** to the heating system. It is intended for heating systems which are gravity or pressure fed. No hangers are welded on the back of the radiator.

Overview of types



Type 22 PLAN/LINE



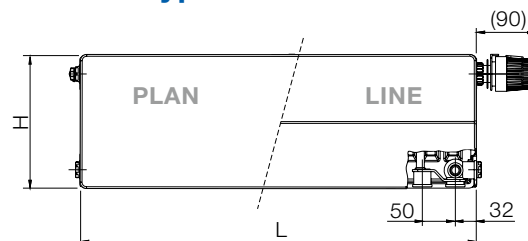
Type 33 PLAN/LINE



Description

RADIK PLAN VK (RADIK LINE VK) model is a steel panel radiator in VENTIL KOMPAKT version and PLAN (LINE) version which allows **right bottom connection** to a pressurized heating system. No hangers are welded on the back of the radiator.

Overview of types



Type 22 PLAN VK/LINE VK



Type 33 PLAN VK/LINE VK



MOUNTING OF STEEL PANEL RADIATORS IN HEIGHT 200 mm

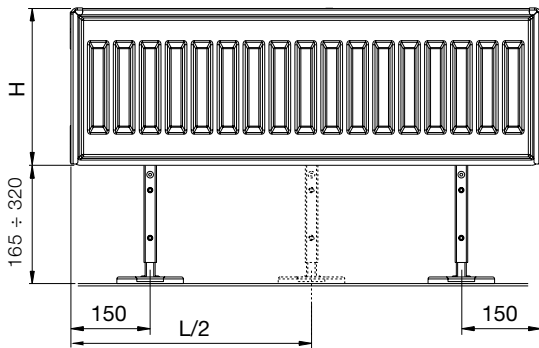
Mounting

Steel panel radiators RADIK in height 200mm can be mounted on the wall as well as on the floor. Radiators are delivered with the necessary number of „Split brackets Plus“ designed for wall mounting as standard.

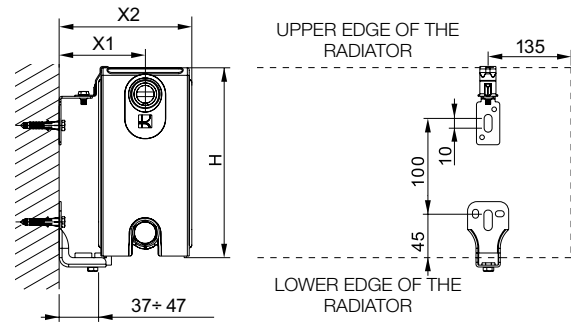
Mounting on the floor can be carried out with special stand brackets Z-U400 which are not delivered as standard, and must be ordered separately.

Radiators in lengths up to 1800mm are mounted with two brackets, radiators in length 1800mm and longer are mounted with three brackets.

Mounting on the floor



Mounting on the wall



Type	22	33
X1	87÷97	87÷97
X2	137÷147	192÷202

The X2 figure is increased by 2 mm for PLAN (LINE) radiators.

Ordering brackets

Type	Code for ordering
Split bracket Plus – set 2 pcs	Z-U556
Split bracket Plus – set 3 pcs	Z-U557
Stand bracket for types 22, 33	Z-U400

NEW RADIATOR DESIGN



Description

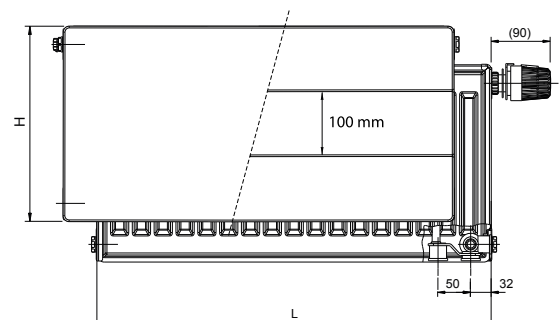
If you want to facelift the design of your radiator you can install an additional front panel. The front panel is available in flat design PLAN, or with fine horizontal grooves LINE. To make a complete facelift you can also replace all other visible parts, such as top grill and side panels. The standard colour of front panel is white but you can choose from 18 KORADO colours or from 200 RAL colours.

Front panels are suitable for the following RADIK models: VKM8, VKM8-L, VKM8-U, VKL, VKM, VKM-L, VK, VKU, VKL, MM, KLASIK, KLASIK-R, COMBI VK.

Note: By using the additional front panel you can cause a reduction of the heat output of your radiator by up to 7%..

Order code: PLAN: **Z-DCP-HHHLLL-10K**
LINE: **Z-DCL-HHHLLL-10K**

Front panel length in cm
Front panel height in cm



The company reserves the right to make technical changes.



RADIK VKM8, VKM8 - L, VKM8 - U

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 VKM8 Type 10 VKM8 - L						Type 11 VKM8 Type 11 VKM8 - L						Type 20 VKM8 Type 20 VKM8 - L Type 20 VKM8 - U		
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	700	900	300	400	500	600	700	900	500	600	700
400	75/65			229	266	301	369	213	273	332	392	452	573	374	432	489
	70/55			185	215	243	297	174	222	269	316	364	462	302	349	394
	55/45			117	136	153	187	112	142	171	200	230	290	191	221	248
	45/40			81	93	105	127	78	99	118	137	157	198	131	151	170
500	75/65	188	238	286	333	377	461	267	342	416	490	565	716	467	540	611
	70/55	152	193	231	269	304	371	217	277	337	395	456	577	377	436	493
	55/45	97	122	147	170	192	233	140	178	214	250	288	363	239	276	310
	45/40	67	84	101	116	131	159	98	123	148	171	197	248	164	189	212
600	75/65	225	286	343	399	452	553	320	410	499	587	677	859	560	648	733
	70/55	182	231	277	322	365	445	261	333	404	474	547	692	453	523	591
	55/45	116	147	176	204	230	280	168	213	257	300	345	436	287	331	372
	45/40	80	101	121	140	157	191	117	148	177	206	236	297	197	227	254
700	75/65			400	466	527	645	373	478	582	685	790	1002	654	756	855
	70/55			324	376	425	520	304	388	471	553	638	808	528	610	690
	55/45			205	238	268	327	196	249	300	350	403	508	335	386	435
	45/40			141	163	184	223	137	172	207	240	275	347	230	264	297
800	75/65			458	532	602	738	426	546	665	783	903	1146	747	864	978
	70/55			370	430	486	594	348	444	539	632	729	923	604	698	788
	55/45			235	272	307	373	224	285	343	400	460	581	383	441	497
	45/40			161	186	210	254	156	197	236	274	315	396	263	302	339
900	75/65			515	599	678	830	480	615	748	881	1016	1289	841	972	1100
	70/55			416	483	547	668	391	499	606	712	820	1038	679	785	887
	55/45			264	306	345	420	252	320	386	450	518	654	431	496	559
	45/40			181	209	236	286	176	222	266	308	354	446	295	340	382
1000	75/65			572	665	753	922	533	683	831	979	1129	1432	934	1080	1222
	70/55			462	537	608	742	434	555	673	791	911	1154	755	872	985
	55/45			293	340	383	467	280	356	429	500	575	726	478	551	621
	45/40			201	233	262	318	195	246	295	343	394	495	328	378	424
1100	75/65			629	732	828		586	751	914	1077	1242	1575	1027	1188	1344
	70/55			509	591	668		478	610	740	870	1002	1269	830	959	1084
	55/45			323	374	422		308	391	471	550	633	799	526	607	683
	45/40			221	256	288		215	271	325	377	433	545	361	415	466
1200	75/65			686	798	904		640	820	997	1175	1355	1718	1121	1296	1466
	70/55			555	644	729		521	666	808	949	1093	1385	906	1046	1182
	55/45			352	408	460		336	427	514	600	690	871	574	662	745
	45/40			242	279	315		234	296	354	411	472	595	394	453	509
1400	75/65			801	931	1054		746	956	1163	1371	1581	2005	1308	1512	1711
	70/55			647	752	851		608	777	942	1107	1275	1615	1057	1221	1379
	55/45			411	476	537		392	498	600	700	805	1017	670	772	869
	45/40			282	326	367		273	345	413	480	551	694	460	529	593
1600	75/65			915	1064	1205		853	1093	1330	1566	1806	2291	1494	1728	1955
	70/55			740	859	972		695	888	1077	1265	1458	1846	1208	1395	1576
	55/45			469	544	614		448	569	686	800	920	1162	766	882	993
	45/40			322	372	420		312	394	472	548	630	793	525	604	678
1800	75/65			1030	1197	1355		959	1229	1496	1762	2032		1681	1944	2200
	70/55			832	967	1094		782	999	1212	1423	1640		1359	1570	1773
	55/45			528	611	690		504	640	771	900	1036		861	993	1117
	45/40			362	419	472		351	443	531	617	708		591	680	763
2000	75/65			1144	1330	1506		1066	1366	1662	1958	2258		1868	2160	2444
	70/55			925	1074	1215		869	1110	1346	1581	1822		1510	1744	1970
	55/45			586	679	767		561	711	857	1000	1151		957	1103	1242
	45/40			403	465	524		390	493	590	685	787		657	755	848
2300	75/65								1911	2252	2597			2148	2484	2811
	70/55								1548	1818	2095			1736	2006	2266
	55/45								986	1150	1323			1101	1268	1428
	45/40								679	788	905			755	869	975
2600	75/65															
	70/55															
	55/45															
	45/40															
3000	75/65															
	70/55															
	55/45															
	45/40															

Model VKM8-L cannot be supplied in length L = 400 mm.

Heat output: RADIK VKM8, RADIK VKM8-L, RADIK VKM8-U



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 Type 10 VK						Type 11 Type 11 VK						Type 20 Type 20 VK		
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	700	900	300	400	500	600	700	900	500	600	700
400	75/65			206	242	278	350	220	283	343	401	456	558	335	391	447
	70/55			166	196	225	283	177	229	277	324	368	450	271	317	361
	55/45			105	125	143	179	112	145	176	205	233	284	173	201	228
	45/40			72	86	98	123	77	99	120	141	160	194	119	138	156
500	75/65	165	212	257	302	347	438	275	354	429	501	570	697	419	489	559
	70/55	133	171	208	245	281	354	222	286	347	405	460	562	339	396	451
	55/45	84	108	132	156	179	224	140	181	219	256	291	355	216	252	285
	45/40	57	74	91	107	123	154	96	124	150	176	199	243	148	173	195
600	75/65	198	254	308	362	416	525	329	425	515	601	683	836	503	587	670
	70/55	159	205	249	294	337	424	266	343	416	486	552	675	407	475	541
	55/45	100	129	158	187	214	269	168	217	263	308	349	426	259	302	342
	45/40	68	89	109	129	148	185	115	149	181	211	239	291	178	208	234
700	75/65			360	423	486	613	384	496	601	701	797	976	587	685	782
	70/55			291	343	393	495	310	400	485	567	644	787	475	554	631
	55/45			185	218	250	314	196	253	307	359	407	497	302	352	399
	45/40			127	150	172	215	134	174	211	246	279	340	208	242	273
800	75/65			411	483	555	700	439	566	686	802	911	1115	670	782	894
	70/55			333	392	450	566	355	457	555	648	736	900	543	633	721
	55/45			211	249	286	359	224	289	351	410	466	568	345	402	455
	45/40			145	172	197	246	154	198	241	281	319	388	237	277	312
900	75/65			463	544	625	788	494	637	772	902	1025	1255	754	880	1005
	70/55			374	440	506	637	399	515	624	729	828	1012	611	712	811
	55/45			237	281	322	404	252	326	395	462	524	639	388	453	512
	45/40			163	193	221	277	173	223	271	317	359	437	267	311	351
1000	75/65			514	604	694	875	549	708	858	1002	1139	1394	838	978	1117
	70/55			416	489	562	707	443	572	693	810	920	1125	678	792	901
	55/45			264	312	357	449	280	362	439	513	582	710	431	503	569
	45/40			181	215	246	308	192	248	301	352	399	486	297	346	390
1100	75/65			565	664	763	963	604	779	944	1102	1253	1533	922	1076	1229
	70/55			457	538	618	778	488	629	763	891	1012	1237	746	871	992
	55/45			290	343	393	493	308	398	483	564	640	781	474	553	626
	45/40			199	236	271	339	211	273	331	387	439	534	326	381	429
1200	75/65			617	725	833	1050	659	850	1030	1202	1367	1673	1006	1174	1340
	70/55			499	587	674	849	532	686	832	972	1104	1350	814	950	1082
	55/45			316	374	429	538	336	434	527	616	699	852	518	604	683
	45/40			217	258	295	369	230	298	361	422	479	583	356	415	467
1400	75/65			720	846	972	1225	769	991	1201	1403	1595	1952	1173	1369	1564
	70/55			582	685	787	990	621	801	970	1134	1288	1575	950	1108	1262
	55/45			369	437	500	628	392	507	614	718	815	994	604	704	797
	45/40			253	301	344	431	269	347	421	493	558	680	415	484	545
1600	75/65			822	966	1110	1400	878	1133	1373	1603	1822	2230	1341	1565	1787
	70/55			665	783	899	1132	709	915	1109	1296	1472	1800	1085	1266	1442
	55/45			422	499	572	718	449	579	702	821	931	1136	690	805	911
	45/40			290	344	394	493	307	397	481	563	638	777	475	554	623
1800	75/65			925	1087	1249		988	1274	1544	1804	2050		1508	1760	2011
	70/55			748	881	1011		798	1029	1248	1458	1656		1221	1425	1623
	55/45			475	561	643		505	651	790	923	1048		776	906	1025
	45/40			326	387	443		346	446	542	633	718		534	623	701
2000	75/65			1028	1208	1388		1098	1416	1716	2004	2278		1676	1956	2234
	70/55			831	979	1124		887	1144	1386	1620	1840		1357	1583	1803
	55/45			527	624	715		561	724	878	1026	1164		863	1006	1139
	45/40			362	430	492		384	496	602	704	798		593	692	779
2300	75/65									1973	2305	2620		1927	2249	2569
	70/55									1594	1862	2116		1560	1821	2073
	55/45									1009	1180	1339		992	1157	1310
	45/40									692	809	917		682	796	896
2600	75/65									2231	2605	2961		2179	2543	2904
	70/55									1802	2105	2392		1764	2058	2344
	55/45									1141	1334	1514		1121	1308	1480
	45/40									782	915	1037		771	900	1013
3000	75/65									2574	3006	3417		2514	2934	3351
	70/55									2080	2429	2760		2035	2375	2704
	55/45									1317	1539	1746		1294	1509	1708
	45/40									903	1055	1197		890	1038	1169

Heat output: RADIK VK, RADIK KLASIK

RADIK VK - Z, KLASIK - Z,



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 Type 10 VK					Type 11 Type 11 VK						
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
400	75/65			206	242	278	350	220	283	343	401	456	558
	70/55			166	196	225	283	177	229	277	324	368	450
	55/45			105	125	143	179	112	145	176	205	233	284
	45/40			72	86	98	123	77	99	120	141	160	194
500	75/65	165	212	257	302	347	438	275	354	429	501	570	697
	70/55	133	171	208	245	281	354	222	286	347	405	460	562
	55/45	84	108	132	156	179	224	140	181	219	256	291	355
	45/40	57	74	91	107	123	154	96	124	150	176	199	243
600	75/65	198	254	308	362	416	525	329	425	515	601	683	836
	70/55	159	205	249	294	337	424	266	343	416	486	552	675
	55/45	100	129	158	187	214	269	168	217	263	308	349	426
	45/40	68	89	109	129	148	185	115	149	181	211	239	291
700	75/65			360	423	486	613	384	496	601	701	797	976
	70/55			291	343	393	495	310	400	485	567	644	787
	55/45			185	218	250	314	196	253	307	359	407	497
	45/40			127	150	172	215	134	174	211	246	279	340
800	75/65			411	483	555	700	439	566	686	802	911	1115
	70/55			333	392	450	566	355	457	555	648	736	900
	55/45			211	249	286	359	224	289	351	410	466	568
	45/40			145	172	197	246	154	198	241	281	319	388
900	75/65			463	544	625	788	494	637	772	902	1025	1255
	70/55			374	440	506	637	399	515	624	729	828	1012
	55/45			237	281	322	404	252	326	395	462	524	639
	45/40			163	193	221	277	173	223	271	317	359	437
1000	75/65			514	604	694	875	549	708	858	1002	1139	1394
	70/55			416	489	562	707	443	572	693	810	920	1125
	55/45			264	312	357	449	280	362	439	513	582	710
	45/40			181	215	246	308	192	248	301	352	399	486
1100	75/65			565	664	763	963	604	779	944	1102	1253	1533
	70/55			457	538	618	778	488	629	763	891	1012	1237
	55/45			290	343	393	493	308	398	483	564	640	781
	45/40			199	236	271	339	211	273	331	387	439	534
1200	75/65			617	725	833	1050	659	850	1030	1202	1367	1673
	70/55			499	587	674	849	532	686	832	972	1104	1350
	55/45			316	374	429	538	336	434	527	616	699	852
	45/40			217	258	295	369	230	298	361	422	479	583
1400	75/65			720	846	972	1225	769	991	1201	1403	1595	1952
	70/55			582	685	787	990	621	801	970	1134	1288	1575
	55/45			369	437	500	628	392	507	614	718	815	994
	45/40			253	301	344	431	269	347	421	493	558	680
1600	75/65			822	966	1110	1400	878	1133	1373	1603	1822	2230
	70/55			665	783	899	1132	709	915	1109	1296	1472	1800
	55/45			422	499	572	718	449	579	702	821	931	1136
	45/40			290	344	394	493	307	397	481	563	638	777
1800	75/65			925	1087	1249		988	1274	1544	1804	2050	
	70/55			748	881	1011		798	1029	1248	1458	1656	
	55/45			475	561	643		505	651	790	923	1048	
	45/40			326	387	443		346	446	542	633	718	
2000	75/65			1028	1208	1388		1098	1416	1716	2004	2278	
	70/55			831	979	1124		887	1144	1386	1620	1840	
	55/45			527	624	715		561	724	878	1026	1164	
	45/40			362	430	492		384	496	602	704	798	

Heat output: RADIK KLASIK-Z, RADIK VK-Z

The company reserves the right to make technical changes.



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 VKL						Type 11 VKL					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
400	75/65			206	242	278	350	220	283	343	401	456	558
	70/55			166	196	225	283	177	229	277	324	368	450
	55/45			105	125	143	179	112	145	176	205	233	284
	45/40			72	86	98	123	77	99	120	141	160	194
500	75/65	165	212	257	302	347	438	275	354	429	501	570	697
	70/55	133	171	208	245	281	354	222	286	347	405	460	562
	55/45	84	108	132	156	179	224	140	181	219	256	291	355
	45/40	57	74	91	107	123	154	96	124	150	176	199	243
600	75/65	198	254	308	362	416	525	329	425	515	601	683	836
	70/55	159	205	249	294	337	424	266	343	416	486	552	675
	55/45	100	129	158	187	214	269	168	217	263	308	349	426
	45/40	68	89	109	129	148	185	115	149	181	211	239	291
700	75/65			360	423	486	613	384	496	601	701	797	976
	70/55			291	343	393	495	310	400	485	567	644	787
	55/45			185	218	250	314	196	253	307	359	407	497
	45/40			127	150	172	215	134	174	211	246	279	340
800	75/65			411	483	555	700	439	566	686	802	911	1115
	70/55			333	392	450	566	355	457	555	648	736	900
	55/45			211	249	286	359	224	289	351	410	466	568
	45/40			145	172	197	246	154	198	241	281	319	388
900	75/65			463	544	625	788	494	637	772	902	1025	1255
	70/55			374	440	506	637	399	515	624	729	828	1012
	55/45			237	281	322	404	252	326	395	462	524	639
	45/40			163	193	221	277	173	223	271	317	359	437
1000	75/65			514	604	694	875	549	708	858	1002	1139	1394
	70/55			416	489	562	707	443	572	693	810	920	1125
	55/45			264	312	357	449	280	362	439	513	582	710
	45/40			181	215	246	308	192	248	301	352	399	486
1100	75/65			565	664	763	963	604	779	944	1102	1253	1533
	70/55			457	538	618	778	488	629	763	891	1012	1237
	55/45			290	343	393	493	308	398	483	564	640	781
	45/40			199	236	271	339	211	273	331	387	439	534
1200	75/65			617	725	833	1050	659	850	1030	1202	1367	1673
	70/55			499	587	674	849	532	686	832	972	1104	1350
	55/45			316	374	429	538	336	434	527	616	699	852
	45/40			217	258	295	369	230	298	361	422	479	583
1400	75/65			720	846	972	1225	769	991	1201	1403	1595	1952
	70/55			582	685	787	990	621	801	970	1134	1288	1575
	55/45			369	437	500	628	392	507	614	718	815	994
	45/40			253	301	344	431	269	347	421	493	558	680
1600	75/65			822	966	1110	1400	878	1133	1373	1603	1822	2230
	70/55			665	783	899	1132	709	915	1109	1296	1472	1800
	55/45			422	499	572	718	449	579	702	821	931	1136
	45/40			290	344	394	493	307	397	481	563	638	777
1800	75/65			925	1087	1249		988	1274	1544	1804	2050	
	70/55			748	881	1011		798	1029	1248	1458	1656	
	55/45			475	561	643		505	651	790	923	1048	
	45/40			326	387	443		346	446	542	633	718	
2000	75/65			1028	1208	1388		1098	1416	1716	2004	2278	
	70/55			831	979	1124		887	1144	1386	1620	1840	
	55/45			527	624	715		561	724	878	1026	1164	
	45/40			362	430	492		384	496	602	704	798	
2300	75/65								1973	2305	2620		
	70/55								1594	1862	2116		
	55/45								1009	1180	1339		
	45/40								692	809	917		
2600	75/65								2231	2605	2961		
	70/55								1802	2105	2392		
	55/45								1141	1334	1514		
	45/40								782	915	1037		
3000	75/65								2574	3006	3417		
	70/55								2080	2429	2760		
	55/45								1317	1539	1746		
	45/40								903	1055	1197		



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 VKU				Type 22 VKU							Type 33 VKU									
Length L [mm]	t₁/t₂ [°C]	Height H [mm]																				
		500	600	700	900	200	300	400	500	600	700	900	200	300	400	500	600	700	900			
400	75/65	447	515	580	702																	
	70/55	360	415	466	563																	
	55/45	227	261	292	351																	
	45/40	155	178	199	237																	
500	75/65	559	644	725	877																	
	70/55	450	519	583	703																	
	55/45	283	326	366	438																	
	45/40	193	222	249	297																	
600	75/65	670	773	870	1052																	
	70/55	540	622	700	844																	
	55/45	340	391	439	526																	
	45/40	232	267	298	356																	
700	75/65	782	902	1015	1228																	
	70/55	630	726	816	985																	
	55/45	397	457	512	614																	
	45/40	271	311	348	415																	
800	75/65	894	1030	1160	1403																	
	70/55	720	830	933	1125																	
	55/45	453	522	585	701																	
	45/40	310	356	398	475																	
900	75/65	1005	1159	1305	1579																	
	70/55	810	934	1050	1266																	
	55/45	510	587	658	789																	
	45/40	348	400	447	534																	
1000	75/65	1117	1288	1450	1754																	
	70/55	900	1037	1166	1407																	
	55/45	567	652	731	877																	
	45/40	387	445	497	593																	
1100	75/65	1229	1417	1595	1929																	
	70/55	990	1141	1283	1547																	
	55/45	624	718	804	964																	
	45/40	426	489	547	652																	
1200	75/65	1340	1546	1740	2105																	
	70/55	1080	1245	1399	1688																	
	55/45	680	783	877	1052																	
	45/40	464	534	597	712																	
1400	75/65	1564	1803	2030	2456																	
	70/55	1260	1452	1633	1969																	
	55/45	794	913	1024	1227																	
	45/40	542	623	696	830																	
1600	75/65	1787	2061	2320	2806																	
	70/55	1440	1660	1866	2251																	
	55/45	907	1044	1170	1403																	
	45/40	619	711	795	949																	
1800	75/65	2011	2318	2610	3157																	
	70/55	1620	1867	2099	2532																	
	55/45	1020	1174	1316	1578																	
	45/40	696	800	895	1068																	
2000	75/65	2234	2576	2900	3508																	
	70/55	1800	2075	2332	2813																	
	55/45	1134	1305	1462	1753																	
	45/40	774	889	994	1186																	
2300	75/65					1493	2222	2797	3340	3862	4363											
	70/55					1217	1790	2253	2689	3108	3508											
	55/45					786	1126	1417	1690	1952	2197											
	45/40					548	768	966	1152	1330	1493											
2600	75/65					1687	2512	3162	3775	4365	4932											
	70/55					1376	2023	2546	3040	3514	3965											
	55/45					888	1273	1601	1910	2207	2484											
	45/40					619	869	1092	1302	1503	1688											
3000	75/65					1947	2898	3648	4356	5037	5691											
	70/55					1588	2335	2938	3507	4054	4575											
	55/45					1025	1469	1848	2204	2546	2866											
	45/40					714	1002	1260	1502	1734	1948											

Heat output: RADIK VKU

The company reserves the right to make technical changes.

RADIK MATERNELLE VK, MATERNELLE VKL

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		32 VK 32 VKL					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]					
		300	400	500	600	700	900
400	75/65	397	492	582	670	756	926
	70/55	321	398	471	541	610	743
	55/45	204	252	298	343	384	463
	45/40	140	173	205	235	262	313
500	75/65	496	615	728	838	946	1158
	70/55	401	497	588	677	762	928
	55/45	255	315	373	429	480	579
	45/40	175	217	256	294	328	392
600	75/65	595	737	873	1005	1135	1389
	70/55	482	596	706	812	915	1114
	55/45	306	379	448	515	576	694
	45/40	210	260	307	353	393	470
700	75/65	694	860	1019	1173	1324	1621
	70/55	562	696	823	948	1067	1300
	55/45	357	442	522	600	672	810
	45/40	245	303	358	412	459	548
800	75/65	794	983	1164	1340	1513	1852
	70/55	642	795	941	1083	1219	1485
	55/45	408	505	597	686	768	926
	45/40	281	347	410	471	525	626
900	75/65	893	1106	1310	1508	1702	2084
	70/55	722	895	1059	1218	1372	1671
	55/45	459	568	671	772	864	1041
	45/40	316	390	461	529	590	705
1000	75/65	992	1229	1455	1675	1891	2315
	70/55	803	994	1176	1354	1524	1857
	55/45	510	631	746	858	960	1157
	45/40	351	433	512	588	656	783
1100	75/65	1091	1352	1601	1843	2080	2547
	70/55	883	1094	1294	1489	1677	2042
	55/45	561	694	821	943	1056	1273
	45/40	386	477	563	647	721	861
1200	75/65	1190	1475	1746	2010	2269	2778
	70/55	963	1193	1412	1624	1829	2228
	55/45	612	757	895	1029	1152	1389
	45/40	421	520	614	706	787	940
1400	75/65	1389	1721	2037	2345	2647	3241
	70/55	1124	1392	1647	1895	2134	2599
	55/45	714	883	1044	1201	1345	1620
	45/40	491	607	717	823	918	1096
1600	75/65	1587	1966	2328	2680	3026	3704
	70/55	1284	1591	1882	2166	2439	2971
	55/45	816	1010	1194	1372	1537	1852
	45/40	561	694	819	941	1049	1253
1800	75/65	1786	2212	2619	3015	3404	4167
	70/55	1445	1789	2117	2437	2744	3342
	55/45	918	1136	1343	1544	1729	2083
	45/40	631	780	922	1059	1180	1410
2000	75/65	1984	2458	2910	3350	3782	4630
	70/55	1606	1988	2353	2707	3049	3713
	55/45	1020	1262	1492	1715	1921	2314
	45/40	701	867	1024	1176	1312	1566
2300	75/65	2282	2827	3347	3853	4349	5306
	70/55	1846	2286	2706	3113	3506	4289
	55/45	1173	1451	1716	1972	2209	2709
	45/40	807	997	1178	1353	1508	1810
2600	75/65	2579	3195	3783	4355	4917	5963
	70/55	2087	2585	3059	3519	3963	4813
	55/45	1326	1641	1939	2230	2497	3014
	45/40	912	1127	1331	1529	1705	2066
3000	75/65	2976	3687	4365	5025	5673	6873
	70/55	2408	2982	3529	4061	4573	5513
	55/45	1530	1893	2238	2573	2881	3473
	45/40	1052	1300	1536	1764	1967	2373

Heat output:  MATERNELLE VK,  MATERNELLE VKL

The company reserves the right to make technical changes.

RADIK KLASIK - R, PLAN KLASIK - R, LINE KLASIK - R



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

RADIK KLASIK - R

20 °C		Type 20	Type 21	Type 22	Type 33
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]			
		554	554	554	554
400	75/65	366	484	630	903
	70/55	296	390	507	727
	55/45	188	245	319	456
	45/40	129	167	217	311
500	75/65	457	605	788	1129
	70/55	370	487	634	908
	55/45	235	307	399	570
	45/40	162	209	272	388
600	75/65	548	726	946	1354
	70/55	444	585	761	1090
	55/45	282	368	478	684
	45/40	194	251	326	466
700	75/65	640	847	1103	1580
	70/55	518	682	888	1271
	55/45	329	429	558	798
	45/40	226	293	380	543
800	75/65	731	968	1261	1806
	70/55	592	780	1015	1453
	55/45	376	491	638	912
	45/40	259	335	434	621
900	75/65	823	1089	1418	2031
	70/55	666	877	1142	1635
	55/45	423	552	717	1026
	45/40	291	377	489	699
1000	75/65	914	1210	1576	2257
	70/55	740	975	1269	1816
	55/45	470	613	797	1140
	45/40	323	418	543	776
1100	75/65	1005	1331	1734	2483
	70/55	814	1072	1396	1998
	55/45	517	675	877	1254
	45/40	356	460	597	854
1200	75/65	1097	1452	1891	2708
	70/55	888	1170	1522	2180
	55/45	564	736	957	1368
	45/40	388	502	652	932
1400	75/65	1280	1694	2206	3160
	70/55	1036	1365	1776	2543
	55/45	658	859	1116	1597
	45/40	453	586	760	1087
1600	75/65	1462	1936	2522	3611
	70/55	1184	1560	2030	2906
	55/45	752	981	1275	1825
	45/40	517	669	869	1242
1800	75/65	1645	2178	2837	4063
	70/55	1332	1755	2284	3269
	55/45	846	1104	1435	2053
	45/40	582	753	977	1398
2000	75/65	1828	2420	3152	4514
	70/55	1480	1950	2537	3633
	55/45	940	1227	1594	2281
	45/40	647	837	1086	1553

RADIK PLAN/LINE KLASIK - R

20 °C		Type 20	Type 21	Type 22	Type 33
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]			
		554	554	554	554
400	75/65	338	459	613	878
	70/55	275	370	494	709
	55/45	176	234	312	448
	45/40	122	160	213	306
500	75/65	423	574	766	1098
	70/55	344	463	618	886
	55/45	220	292	390	559
	45/40	152	200	266	383
600	75/65	508	689	919	1318
	70/55	412	556	741	1063
	55/45	264	351	468	671
	45/40	183	240	320	459
700	75/65	592	804	1072	1537
	70/55	481	648	865	1240
	55/45	308	409	546	783
	45/40	213	280	373	536
800	75/65	677	918	1226	1757
	70/55	550	741	989	1418
	55/45	352	468	624	895
	45/40	244	320	426	612
900	75/65	761	1033	1379	1976
	70/55	618	833	1112	1595
	55/45	396	526	702	1007
	45/40	274	360	480	689
1000	75/65	846	1148	1532	2196
	70/55	687	926	1236	1772
	55/45	440	584	780	1119
	45/40	304	400	533	765
1100	75/65	931	1263	1685	2416
	70/55	756	1019	1359	1949
	55/45	484	643	858	1231
	45/40	335	440	586	842
1200	75/65	1015	1378	1838	2635
	70/55	825	1111	1483	2126
	55/45	528	701	935	1343
	45/40	365	479	639	918
1400	75/65	1184	1607	2145	3074
	70/55	962	1297	1730	2481
	55/45	616	818	1091	1566
	45/40	426	559	746	1071
1600	75/65	1354	1837	2451	3514
	70/55	1099	1482	1977	2835
	55/45	704	935	1247	1790
	45/40	487	639	853	1224
1800	75/65	1523	2066	2758	3953
	70/55	1237	1667	2224	3190
	55/45	792	1052	1403	2014
	45/40	548	719	959	1377
2000	75/65	1692	2296	3064	4392
	70/55	1374	1852	2471	3544
	55/45	880	1169	1559	2238
	45/40	609	799	1066	1531

Heat output: RADIK KLASIK-R, RADIK PLAN KLASIK-R, RADIK LINE KLASIK-R

The company reserves the right to make technical changes.

RADIK PLAN VKM8, PLAN VKM8 - L, LINE VKM8, LINE VKM8 - L

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 11 PLAN VKM8 Type 11 PLAN VKM8 - L Type 11 LINE VKM8 Type 11 LINE VKM8 - L						Type 20 PLAN VKM8 Type 20 PLAN VKM8 - L Type 20 LINE VKM8 Type 20 LINE VKM8 - L			Type 21 PLAN VKM8 Type 21 PLAN VKM8 - L Type 21 LINE VKM8 Type 21 LINE VKM8 - L					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	700	900	500	600	700	300	400	500	600	700	900
400	75/65	212	263	312	359	404	492	339	388	434	288	362	429	490	547	647
	70/55	173	214	253	291	327	397	275	314	351	233	292	346	394	439	519
	55/45	111	138	162	186	208	250	176	200	224	148	185	218	247	275	324
	45/40	77	95	112	129	143	171	121	138	154	102	127	149	168	187	219
500	75/65	265	329	390	449	506	616	424	485	543	360	452	536	613	684	809
	70/55	216	268	317	364	409	496	344	393	439	291	365	432	493	549	649
	55/45	139	172	203	233	260	313	219	250	279	185	231	272	309	344	405
	45/40	97	119	141	161	179	214	151	173	192	127	158	186	210	234	274
600	75/65	318	395	468	538	607	739	509	581	651	432	542	643	736	820	970
	70/55	259	321	380	437	491	596	413	471	527	350	438	518	592	659	778
	55/45	167	206	244	279	312	375	263	300	335	222	277	327	371	413	486
	45/40	116	143	169	193	215	256	182	207	231	153	190	223	252	280	329
700	75/65	371	461	546	628	708	862	594	678	760	504	633	750	858	957	1132
	70/55	302	375	444	509	573	695	481	550	615	408	511	605	690	769	908
	55/45	195	241	284	326	364	438	307	351	391	259	323	381	433	481	566
	45/40	135	167	197	225	251	299	212	242	269	178	222	260	295	327	384
800	75/65	424	526	624	718	809	985	678	775	868	576	723	858	981	1094	1294
	70/55	345	428	507	582	655	794	550	628	703	466	584	691	789	879	1038
	55/45	223	275	325	372	417	501	351	401	447	296	370	435	495	550	647
	45/40	155	191	225	257	287	342	242	276	308	204	253	297	337	374	438
900	75/65	477	592	702	807	910	1108	763	872	977	648	814	965	1103	1230	1455
	70/55	389	482	570	655	737	893	619	707	791	524	657	778	888	989	1168
	55/45	250	310	365	419	469	563	395	451	503	333	416	490	557	619	728
	45/40	174	215	253	289	323	385	273	311	346	229	285	334	379	420	493
1000	75/65	530	658	780	897	1011	1231	848	969	1085	720	904	1072	1226	1367	1617
	70/55	432	535	634	728	819	993	688	785	879	583	730	864	986	1099	1297
	55/45	278	344	406	465	521	626	439	501	559	370	462	544	619	688	809
	45/40	194	239	281	321	358	427	303	345	385	255	316	372	421	467	548
1100	75/65	583	724	858	987	1112	1354	933	1066	1194	792	994	1179	1349	1504	1779
	70/55	475	589	697	801	900	1092	756	864	966	641	803	950	1085	1209	1427
	55/45	306	378	447	512	573	688	483	551	615	407	508	599	680	757	890
	45/40	213	263	309	353	394	470	333	380	423	280	348	409	463	514	603
1200	75/65	636	790	936	1076	1213	1477	1018	1163	1302	864	1085	1286	1471	1640	1940
	70/55	518	642	760	873	982	1191	825	943	1054	699	876	1037	1183	1318	1557
	55/45	334	413	487	558	625	751	527	601	671	444	554	653	742	825	971
	45/40	232	286	337	386	430	513	363	414	462	306	380	446	505	561	657
1400	75/65	742	921	1092	1256	1415	1723	1187	1357	1519	1008	1266	1501	1716	1914	2264
	70/55	604	749	887	1019	1146	1390	963	1100	1230	816	1022	1210	1381	1538	1816
	55/45	389	482	569	651	729	876	614	701	782	518	647	762	866	963	1133
	45/40	271	334	394	450	502	598	424	483	538	356	443	520	589	654	767
1600	75/65	848	1053	1248	1435	1618	1970	1357	1550	1736	1152	1446	1715	1962	2187	2587
	70/55	691	856	1014	1165	1310	1588	1100	1257	1406	932	1168	1383	1578	1758	2076
	55/45	445	550	650	744	833	1001	702	801	894	592	739	871	990	1101	1295
	45/40	310	382	450	514	573	684	485	552	615	407	506	595	673	747	877
1800	75/65	954	1184	1404	1615	1820	2222	1526	1744	1953	1296	1627	1930	2207	2461	2934
	70/55	777	964	1141	1310	1473	1807	1238	1414	1581	1049	1314	1555	1775	1978	2341
	55/45	501	619	731	837	937	1119	790	901	1006	666	831	980	1113	1238	1461
	45/40	348	430	506	578	645	783	545	621	692	458	570	669	757	841	994
2000	75/65	1060	1316	1560	1794	2022	2472	1696	1938	2170	1440	1808	2144	2452	2734	3276
	70/55	863	1071	1267	1456	1637	1987	1375	1571	1757	1165	1460	1728	1972	2197	2641
	55/45	556	688	812	930	1041	1241	878	1001	1118	741	924	1089	1237	1376	1621
	45/40	387	477	562	643	717	867	606	691	769	509	633	743	842	934	1101

Models PLAN VKM8-L and LINE VKM8-L cannot be supplied in length L = 400 mm.

RADIK PLAN VKM8, PLAN VKM8 - L, LINE VKM8, LINE VKM8 - L



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 22 PLAN VKM8 Type 22 PLAN VKM8 - L Type 22 LINE VKM8 Type 22 LINE VKM8 - L						Type 33 PLAN VKM8 Type 33 PLAN VKM8 - L Type 33 LINE VKM8 Type 33 LINE VKM8 - L					
		Height H [mm]											
Length L [mm]	t ₁ /t ₂ [°C]	300	400	500	600	700	900	300	400	500	600	700	900
		400	75/65	366	466	560	648	732	886			809	936
70/55	297		377	452	523	589	712			652	756	853	1037
55/45	190		240	287	330	371	445			412	477	537	646
45/40	131		165	196	225	253	302			281	327	366	438
500	75/65	457	583	700	811	915	1108			1011	1171	1324	1616
	70/55	371	472	566	654	737	889			816	945	1066	1296
	55/45	237	300	358	412	463	556			515	597	671	808
	45/40	164	206	246	281	316	377			352	408	457	547
600	75/65	548	699	840	973	1098	1329			1213	1405	1589	1939
	70/55	445	566	679	784	884	1067			979	1134	1280	1555
	55/45	284	360	430	494	556	667			618	716	805	970
	45/40	196	248	295	338	379	452			422	490	549	656
700	75/65	640	816	980	1135	1281	1551			1415	1639	1854	2262
	70/55	519	660	792	915	1032	1245			1142	1323	1493	1814
	55/45	332	420	501	577	648	778			720	836	939	1131
	45/40	229	289	344	394	442	528			493	572	640	766
800	75/65	731	932	1120	1297	1464	1772	1070	1351	1618	1873	2118	2585
	70/55	593	755	905	1046	1179	1423	862	1089	1305	1512	1706	2073
	55/45	379	480	573	659	741	889	543	687	823	955	1073	1293
	45/40	262	330	393	450	505	603	370	469	563	653	732	875
900	75/65	823	1049	1260	1459	1647	1994	1203	1520	1820	2107	2383	2908
	70/55	667	849	1018	1176	1326	1601	970	1226	1468	1700	1920	2333
	55/45	426	540	645	742	834	1001	610	772	926	1074	1207	1454
	45/40	295	372	442	507	568	679	417	528	633	735	823	984
1000	75/65	914	1165	1400	1621	1830	2215	1337	1689	2022	2341	2648	3231
	70/55	742	943	1131	1307	1474	1779	1077	1362	1631	1889	2133	2592
	55/45	474	600	716	824	926	1112	678	858	1029	1194	1341	1616
	45/40	327	413	491	563	631	754	463	586	704	817	915	1094
1100	75/65	1005	1282	1540	1783	2013	2437	1471	1858	2224	2575	2913	3554
	70/55	816	1038	1244	1438	1621	1957	1185	1498	1794	2078	2346	2851
	55/45	521	660	788	906	1019	1223	746	944	1132	1313	1476	1777
	45/40	360	454	540	619	695	830	509	645	774	898	1006	1203
1200	75/65	1097	1398	1680	1945	2196	2658	1604	2027	2426	2809	3178	3877
	70/55	890	1132	1357	1569	1768	2135	1293	1634	1957	2267	2559	3110
	55/45	569	720	860	989	1112	1334	814	1030	1235	1432	1610	1939
	45/40	393	495	589	676	758	905	555	703	844	980	1098	1313
1400	75/65	1280	1631	1960	2269	2562	3101	1872	2365	2831	3277	3707	4523
	70/55	1038	1321	1584	1830	2063	2490	1508	1906	2284	2645	2986	3628
	55/45	663	840	1003	1154	1297	1557	950	1202	1441	1671	1878	2262
	45/40	458	578	688	788	884	1056	648	821	985	1143	1280	1531
1600	75/65	1462	1864	2240	2594	2928	3544	2139	2702	3235	3746	4237	5170
	70/55	1187	1509	1810	2091	2358	2846	1724	2179	2610	3023	3413	4147
	55/45	758	960	1146	1319	1482	1779	1085	1373	1647	1910	2146	2585
	45/40	524	661	786	901	1010	1207	741	938	1126	1307	1463	1750
1800	75/65	1645	2097	2520	2918	3294		2407	3040	3640	4214	4766	
	70/55	1335	1698	2036	2353	2653		1939	2451	2936	3401	3839	
	55/45	853	1080	1289	1483	1667		1221	1545	1853	2148	2415	
	45/40	589	743	884	1013	1136		833	1055	1267	1470	1646	
2000	75/65	1828	2330	2800	3242	3660		2674	3378	4044	4682	5296	
	70/55	1483	1887	2262	2614	2947		2155	2723	3262	3779	4266	
	55/45	948	1200	1433	1648	1853		1357	1717	2058	2387	2683	
	45/40	654	826	982	1126	1263		926	1172	1407	1634	1829	

Models PLAN VKM8-L and LINE VKM8-L cannot be supplied in length L = 400 mm.

RADIK PLAN KLASIK, PLAN VK, LINE KLASIK, LINE VK

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 11 PLAN Type 11 PLAN VK Type 11 LINE Type 11 LINE VK						Type 21 PLAN Type 21 PLAN VK Type 21 LINE Type 21 LINE VK					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
400	75/65	213	271	327	381	434	535	291	358	424	489	554	684
	70/55	173	221	266	310	352	433	235	289	342	394	446	550
	55/45	112	142	171	199	226	275	149	183	216	249	280	344
	45/40	77	99	119	138	156	189	102	125	148	170	191	234
500	75/65	267	339	409	477	542	669	364	448	530	611	692	856
	70/55	217	276	333	388	440	541	294	362	428	493	557	687
	55/45	139	177	214	249	282	344	186	229	270	311	351	430
	45/40	97	123	149	173	195	236	128	157	185	212	239	292
600	75/65	320	407	491	572	650	802	436	538	636	733	830	1027
	70/55	260	331	399	465	528	649	353	434	513	591	669	825
	55/45	167	213	257	299	338	413	223	275	324	373	421	516
	45/40	116	148	178	208	234	284	153	188	222	255	287	351
700	75/65	373	475	573	667	759	936	509	627	742	855	969	1198
	70/55	304	386	466	543	616	757	411	507	599	690	780	962
	55/45	195	248	300	349	395	481	261	320	378	435	491	602
	45/40	136	172	208	242	273	331	179	220	259	297	335	409
800	75/65	426	542	654	762	867	1070	582	717	848	978	1107	1369
	70/55	347	441	533	620	704	866	470	579	684	788	892	1100
	55/45	223	284	342	399	451	550	298	366	432	497	561	688
	45/40	155	197	238	277	312	378	204	251	296	340	382	467
900	75/65	480	610	736	858	976	1203	654	806	954	1100	1246	1540
	70/55	390	497	599	698	792	974	529	651	770	887	1003	1237
	55/45	251	319	385	449	508	619	335	412	486	559	631	774
	45/40	174	222	267	312	351	426	230	282	333	382	430	526
1000	75/65	533	678	818	953	1084	1337	727	896	1060	1222	1384	1711
	70/55	434	552	666	776	881	1082	588	724	855	985	1115	1375
	55/45	279	355	428	499	564	688	372	458	540	621	701	861
	45/40	194	246	297	346	390	473	255	314	370	425	478	584
1100	75/65	586	746	900	1048	1192	1471	800	986	1166	1344	1522	1882
	70/55	477	607	732	853	969	1190	646	796	941	1084	1226	1512
	55/45	307	390	471	548	620	756	410	504	594	684	771	947
	45/40	213	271	327	381	429	520	281	345	407	467	526	643
1200	75/65	640	814	982	1144	1301	1604	872	1075	1272	1466	1661	2053
	70/55	520	662	799	931	1057	1299	705	868	1027	1183	1338	1650
	55/45	335	426	514	598	677	825	447	549	648	746	841	1033
	45/40	232	296	357	415	468	568	307	376	444	509	574	701
1400	75/65	746	949	1145	1334	1518	1872	1018	1254	1484	1711	1938	2395
	70/55	607	772	932	1086	1233	1515	823	1013	1198	1380	1561	1925
	55/45	390	497	599	698	789	963	521	641	756	870	982	1205
	45/40	271	345	416	485	546	662	358	439	518	594	669	818
1600	75/65	853	1085	1309	1525	1734	2139	1163	1434	1696	1955	2214	2738
	70/55	694	883	1065	1241	1409	1731	940	1158	1369	1577	1784	2200
	55/45	446	568	685	798	902	1100	596	733	864	994	1122	1377
	45/40	310	394	475	554	624	757	409	502	591	679	765	935
1800	75/65	959	1220	1472	1715	1951		1309	1613	1908	2200	2491	
	70/55	781	993	1198	1396	1585		1058	1303	1540	1774	2007	
	55/45	502	638	770	897	1015		670	824	973	1119	1262	
	45/40	348	443	535	623	703		460	565	665	764	861	
2000	75/65	1066	1356	1636	1906	2168		1454	1792	2120	2444	2768	
	70/55	867	1103	1331	1551	1761		1175	1447	1711	1971	2230	
	55/45	558	709	856	997	1128		745	916	1081	1243	1402	
	45/40	387	493	594	692	781		511	627	739	849	956	

RADIK PLAN KLASIK, PLAN VK, LINE KLASIK, LINE VK



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 22 PLAN Type 22 PLAN VK Type 22 LINE Type 22 LINE VK							Type 33 PLAN Type 33 PLAN VK Type 33 LINE Type 33 LINE VK							
		Height H [mm]														
Length L [mm]	t ₁ /t ₂ [°C]	200	300	400	500	600	700	900	200	300	400	500	600	700	900	
		400	75/65		379	475	566	652	736	897		535	676	809	936	1059
70/55			306	383	456	526	594	723		431	545	652	756	853	1037	
55/45			194	242	288	332	374	454		271	343	412	477	537	646	
45/40			133	166	197	227	255	310		185	234	281	327	366	438	
500	75/65		474	594	707	816	921	1122		669	845	1011	1171	1324	1616	
	70/55		383	479	570	658	742	903		539	681	816	945	1066	1296	
	55/45		242	303	360	415	467	568		339	429	515	597	671	808	
	45/40		166	207	246	283	319	387		231	293	352	408	457	547	
600	75/65		569	712	848	979	1105	1346		802	1013	1213	1405	1589	1939	
	70/55		459	575	685	789	890	1084		646	817	979	1134	1280	1555	
	55/45		291	363	432	498	561	682		407	515	618	716	805	970	
	45/40		199	249	296	340	383	465		278	352	422	490	549	656	
700	75/65		664	831	990	1142	1289	1570		936	1182	1415	1639	1854	2262	
	70/55		536	671	799	921	1039	1265		754	953	1142	1323	1493	1814	
	55/45		339	424	504	580	654	795		475	601	720	836	939	1131	
	45/40		232	290	345	397	447	542		324	410	493	572	640	766	
800	75/65		501	758	950	1131	1305	1473	1794	734	1070	1351	1618	1873	2118	2585
	70/55		409	613	767	913	1052	1187	1445	599	862	1089	1305	1512	1706	2073
	55/45		266	388	484	576	663	748	909	386	543	687	823	955	1073	1293
	45/40		186	266	332	394	453	511	620	269	370	469	563	653	732	875
900	75/65		563	853	1068	1273	1468	1657	2019	826	1203	1520	1820	2107	2383	2908
	70/55		461	689	862	1027	1184	1336	1626	673	970	1226	1468	1700	1920	2333
	55/45		299	436	545	648	746	841	1023	434	610	772	926	1074	1207	1454
	45/40		209	299	373	443	510	574	697	302	417	528	633	735	823	984
1000	75/65		626	948	1187	1414	1631	1841	2243	918	1337	1689	2022	2341	2648	3231
	70/55		512	766	958	1141	1315	1484	1807	748	1077	1362	1631	1889	2133	2592
	55/45		332	484	606	720	829	935	1136	483	678	858	1029	1194	1341	1616
	45/40		233	332	415	493	567	638	775	336	463	586	704	817	915	1094
1100	75/65		689	1043	1306	1555	1794	2025	2467	1010	1471	1858	2224	2575	2913	3554
	70/55		563	842	1054	1255	1447	1632	1987	823	1185	1498	1794	2078	2346	2851
	55/45		365	533	666	792	912	1028	1250	531	746	944	1132	1313	1476	1777
	45/40		256	365	456	542	623	702	852	370	509	645	774	898	1006	1203
1200	75/65		751	1138	1424	1697	1957	2209	2692	1102	1604	2027	2426	2809	3178	3877
	70/55		614	919	1150	1369	1578	1781	2168	898	1293	1634	1957	2267	2559	3110
	55/45		399	581	727	864	995	1122	1363	579	814	1030	1235	1432	1610	1939
	45/40		279	398	497	591	680	766	930	403	555	703	844	980	1098	1313
1400	75/65		876	1327	1662	1980	2283	2577	3140	1285	1872	2365	2831	3277	3707	4523
	70/55		716	1072	1342	1597	1841	2078	2529	1047	1508	1906	2284	2645	2986	3628
	55/45		465	678	848	1008	1161	1309	1591	676	950	1202	1441	1671	1878	2262
	45/40		326	465	580	690	793	894	1085	470	648	821	985	1143	1280	1531
1600	75/65		1002	1517	1899	2262	2610	2946	3589	1469	2139	2702	3235	3746	4237	5170
	70/55		819	1225	1533	1825	2104	2374	2891	1197	1724	2179	2610	3023	3413	4147
	55/45		532	775	969	1152	1327	1496	1818	772	1085	1373	1647	1910	2146	2585
	45/40		372	531	663	788	907	1021	1239	537	741	938	1126	1307	1463	1750
1800	75/65		1127	1706	2137	2545	2936	3314		1652	2407	3040	3640	4214	4766	
	70/55		921	1378	1725	2054	2367	2671		1347	1939	2451	2936	3401	3839	
	55/45		598	872	1090	1296	1493	1683		869	1221	1545	1853	2148	2415	
	45/40		419	598	746	887	1020	1149		605	833	1055	1267	1470	1646	
2000	75/65		1252	1896	2374	2828	3262	3682		1836	2674	3378	4044	4682	5296	
	70/55		1023	1531	1916	2282	2630	2968		1496	2155	2723	3262	3779	4266	
	55/45		664	969	1211	1440	1659	1870		965	1357	1717	2058	2387	2683	
	45/40		465	664	829	985	1133	1277		672	926	1172	1407	1634	1829	

Heat output: RADIK PLAN KLASIK, RADIK PLAN VK, RADIK LINE KLASIK, RADIK LINE VK

The company reserves the right to make technical changes.

RADIK PLAN VKL, LINE VKL

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 11 PLAN VKL Type 11 LINE VKL						Type 21 PLAN VKL Type 21 LINE VKL					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
400	75/65	213	271	327	381	434	535	291	358	424	489	554	684
	70/55	173	221	266	310	352	433	235	289	342	394	446	550
	55/45	112	142	171	199	226	275	149	183	216	249	280	344
	45/40	77	99	119	138	156	189	102	125	148	170	191	234
500	75/65	267	339	409	477	542	669	364	448	530	611	692	856
	70/55	217	276	333	388	440	541	294	362	428	493	557	687
	55/45	139	177	214	249	282	344	186	229	270	311	351	430
	45/40	97	123	149	173	195	236	128	157	185	212	239	292
600	75/65	320	407	491	572	650	802	436	538	636	733	830	1027
	70/55	260	331	399	465	528	649	353	434	513	591	669	825
	55/45	167	213	257	299	338	413	223	275	324	373	421	516
	45/40	116	148	178	208	234	284	153	188	222	255	287	351
700	75/65	373	475	573	667	759	936	509	627	742	855	969	1198
	70/55	304	386	466	543	616	757	411	507	599	690	780	962
	55/45	195	248	300	349	395	481	261	320	378	435	491	602
	45/40	136	172	208	242	273	331	179	220	259	297	335	409
800	75/65	426	542	654	762	867	1070	582	717	848	978	1107	1369
	70/55	347	441	533	620	704	866	470	579	684	788	892	1100
	55/45	223	284	342	399	451	550	298	366	432	497	561	688
	45/40	155	197	238	277	312	378	204	251	296	340	382	467
900	75/65	480	610	736	858	976	1203	654	806	954	1100	1246	1540
	70/55	390	497	599	698	792	974	529	651	770	887	1003	1237
	55/45	251	319	385	449	508	619	335	412	486	559	631	774
	45/40	174	222	267	312	351	426	230	282	333	382	430	526
1000	75/65	533	678	818	953	1084	1337	727	896	1060	1222	1384	1711
	70/55	434	552	666	776	881	1082	588	724	855	985	1115	1375
	55/45	279	355	428	499	564	688	372	458	540	621	701	861
	45/40	194	246	297	346	390	473	255	314	370	425	478	584
1100	75/65	586	746	900	1048	1192	1471	800	986	1166	1344	1522	1882
	70/55	477	607	732	853	969	1190	646	796	941	1084	1226	1512
	55/45	307	390	471	548	620	756	410	504	594	684	771	947
	45/40	213	271	327	381	429	520	281	345	407	467	526	643
1200	75/65	640	814	982	1144	1301	1604	872	1075	1272	1466	1661	2053
	70/55	520	662	799	931	1057	1299	705	868	1027	1183	1338	1650
	55/45	335	426	514	598	677	825	447	549	648	746	841	1033
	45/40	232	296	357	415	468	568	307	376	444	509	574	701
1400	75/65	746	949	1145	1334	1518	1872	1018	1254	1484	1711	1938	2395
	70/55	607	772	932	1086	1233	1515	823	1013	1198	1380	1561	1925
	55/45	390	497	599	698	789	963	521	641	756	870	982	1205
	45/40	271	345	416	485	546	662	358	439	518	594	669	818
1600	75/65	853	1085	1309	1525	1734	2139	1163	1434	1696	1955	2214	2738
	70/55	694	883	1065	1241	1409	1731	940	1158	1369	1577	1784	2200
	55/45	446	568	685	798	902	1100	596	733	864	994	1122	1377
	45/40	310	394	475	554	624	757	409	502	591	679	765	935
1800	75/65	959	1220	1472	1715	1951		1309	1613	1908	2200	2491	
	70/55	781	993	1198	1396	1585		1058	1303	1540	1774	2007	
	55/45	502	638	770	897	1015		670	824	973	1119	1262	
	45/40	348	443	535	623	703		460	565	665	764	861	
2000	75/65	1066	1356	1636	1906	2168		1454	1792	2120	2444	2768	
	70/55	867	1103	1331	1551	1761		1175	1447	1711	1971	2230	
	55/45	558	709	856	997	1128		745	916	1081	1243	1402	
	45/40	387	493	594	692	781		511	627	739	849	956	

Heat output:  RADIK PLAN VKL,  RADIK LINE VKL

RADIK PLAN VKL, LINE VKL



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 22 PLAN VKL Type 22 LINE VKL						Type 33 PLAN VKL Type 33 LINE VKL					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
400	75/65	379	475	566	652	736	897	535	676	809	936	1059	1292
	70/55	306	383	456	526	594	723	431	545	652	756	853	1037
	55/45	194	242	288	332	374	454	271	343	412	477	537	646
	45/40	133	166	197	227	255	310	185	234	281	327	366	438
500	75/65	474	594	707	816	921	1122	669	845	1011	1171	1324	1616
	70/55	383	479	570	658	742	903	539	681	816	945	1066	1296
	55/45	242	303	360	415	467	568	339	429	515	597	671	808
	45/40	166	207	246	283	319	387	231	293	352	408	457	547
600	75/65	569	712	848	979	1105	1346	802	1013	1213	1405	1589	1939
	70/55	459	575	685	789	890	1084	646	817	979	1134	1280	1555
	55/45	291	363	432	498	561	682	407	515	618	716	805	970
	45/40	199	249	296	340	383	465	278	352	422	490	549	656
700	75/65	664	831	990	1142	1289	1570	936	1182	1415	1639	1854	2262
	70/55	536	671	799	921	1039	1265	754	953	1142	1323	1493	1814
	55/45	339	424	504	580	654	795	475	601	720	836	939	1131
	45/40	232	290	345	397	447	542	324	410	493	572	640	766
800	75/65	758	950	1131	1305	1473	1794	1070	1351	1618	1873	2118	2585
	70/55	613	767	913	1052	1187	1445	862	1089	1305	1512	1706	2073
	55/45	388	484	576	663	748	909	543	687	823	955	1073	1293
	45/40	266	332	394	453	511	620	370	469	563	653	732	875
900	75/65	853	1068	1273	1468	1657	2019	1203	1520	1820	2107	2383	2908
	70/55	689	862	1027	1184	1336	1626	970	1226	1468	1700	1920	2333
	55/45	436	545	648	746	841	1023	610	772	926	1074	1207	1454
	45/40	299	373	443	510	574	697	417	528	633	735	823	984
1000	75/65	948	1187	1414	1631	1841	2243	1337	1689	2022	2341	2648	3231
	70/55	766	958	1141	1315	1484	1807	1077	1362	1631	1889	2133	2592
	55/45	484	606	720	829	935	1136	678	858	1029	1194	1341	1616
	45/40	332	415	493	567	638	775	463	586	704	817	915	1094
1100	75/65	1043	1306	1555	1794	2025	2467	1471	1858	2224	2575	2913	3554
	70/55	842	1054	1255	1447	1632	1987	1185	1498	1794	2078	2346	2851
	55/45	533	666	792	912	1028	1250	746	944	1132	1313	1476	1777
	45/40	365	456	542	623	702	852	509	645	774	898	1006	1203
1200	75/65	1138	1424	1697	1957	2209	2692	1604	2027	2426	2809	3178	3877
	70/55	919	1150	1369	1578	1781	2168	1293	1634	1957	2267	2559	3110
	55/45	581	727	864	995	1122	1363	814	1030	1235	1432	1610	1939
	45/40	398	497	591	680	766	930	555	703	844	980	1098	1313
1400	75/65	1327	1662	1980	2283	2577	3140	1872	2365	2831	3277	3707	4523
	70/55	1072	1342	1597	1841	2078	2529	1508	1906	2284	2645	2986	3628
	55/45	678	848	1008	1161	1309	1591	950	1202	1441	1671	1878	2262
	45/40	465	580	690	793	894	1085	648	821	985	1143	1280	1531
1600	75/65	1517	1899	2262	2610	2946	3589	2139	2702	3235	3746	4237	5170
	70/55	1225	1533	1825	2104	2374	2891	1724	2179	2610	3023	3413	4147
	55/45	775	969	1152	1327	1496	1818	1085	1373	1647	1910	2146	2585
	45/40	531	663	788	907	1021	1239	741	938	1126	1307	1463	1750
1800	75/65	1706	2137	2545	2936	3314	4077	2407	3040	3640	4214	4766	5839
	70/55	1378	1725	2054	2367	2671	3291	1939	2451	2936	3401	3839	4713
	55/45	872	1090	1296	1493	1683	2031	1221	1545	1853	2148	2415	2967
	45/40	598	746	887	1020	1149	1391	833	1055	1267	1470	1646	2007
2000	75/65	1896	2374	2828	3262	3682	4547	2674	3378	4044	4682	5296	6513
	70/55	1531	1916	2282	2630	2968	3668	2155	2723	3262	3779	4266	5189
	55/45	969	1211	1440	1659	1870	2268	1357	1717	2058	2387	2683	3285
	45/40	664	829	985	1133	1277	1551	926	1172	1407	1634	1829	2231

Heat output: RADIK PLAN VKL, RADIK LINE VKL

The company reserves the right to make technical changes.

RADIK HYGIENE, HYGIENE VK

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 HYGIENE Type 10 HYGIENE VK			Type 20S HYGIENE Type 20S HYGIENE VK			Type 30 HYGIENE Type 30 HYGIENE VK		
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]								
		503	603	703	503	603	703	503	603	703
404	75/65	174	200	225	326	380	433	466	539	607
	70/55	142	163	183	266	310	353	379	438	493
	55/45	91	105	118	172	201	228	244	282	316
	45/40	63	73	82	120	140	158	169	196	219
504	75/65	217	250	280	407	474	540	581	672	758
	70/55	177	203	228	332	387	440	473	547	615
	55/45	114	131	147	214	250	284	304	352	394
	45/40	79	91	102	149	175	198	211	244	273
604	75/65	260	300	336	488	568	647	696	805	908
	70/55	212	244	274	398	464	528	567	655	737
	55/45	136	157	176	257	300	340	364	421	472
	45/40	95	109	123	179	209	237	253	293	327
704	75/65	303	349	391	569	662	755	812	938	1058
	70/55	247	284	319	464	541	615	660	764	860
	55/45	159	183	205	300	350	396	424	491	551
	45/40	110	127	143	209	244	276	295	341	381
804	75/65	347	399	447	650	757	862	927	1072	1208
	70/55	282	324	364	530	617	702	754	872	982
	55/45	182	208	235	342	399	453	485	561	629
	45/40	126	145	163	238	279	315	336	389	435
904	75/65	390	448	503	730	851	969	1042	1205	1359
	70/55	317	365	409	596	694	790	848	981	1104
	55/45	204	234	264	385	449	509	545	631	707
	45/40	142	163	184	268	313	354	378	438	490
1004	75/65	433	498	558	811	945	1076	1158	1338	1509
	70/55	352	405	455	661	771	877	942	1089	1226
	55/45	227	260	293	427	499	565	605	700	785
	45/40	158	181	204	298	348	394	420	486	544
1104	75/65	476	548	614	892	1039	1183	1273	1472	1659
	70/55	387	446	500	727	848	964	1036	1198	1348
	55/45	249	286	322	470	548	622	665	770	864
	45/40	173	199	224	327	383	433	462	535	598
1204	75/65	519	597	669	973	1133	1291	1388	1605	1810
	70/55	422	486	545	793	924	1052	1129	1306	1470
	55/45	272	312	351	512	598	678	726	840	942
	45/40	189	217	244	357	417	472	504	583	652
1404	75/65	605	696	781	1134	1321	1505	1619	1872	2110
	70/55	493	567	636	925	1078	1226	1317	1523	1714
	55/45	317	364	410	597	697	791	846	979	1098
	45/40	220	253	285	416	486	550	587	680	760
1604	75/65	691	796	892	1296	1509	1719	1849	2138	2411
	70/55	563	647	726	1057	1232	1401	1505	1740	1959
	55/45	362	416	468	682	797	903	967	1119	1255
	45/40	252	289	326	476	556	629	671	777	869
1804	75/65	778	895	1003	1458	1698	1934	2080	2405	2711
	70/55	633	728	817	1189	1385	1576	1692	1957	2203
	55/45	407	468	527	767	896	1016	1087	1258	1411
	45/40	283	325	366	535	625	707	755	874	977
2004	75/65	864	994	1114	1619	1886	2148	2311	2671	3012
	70/55	703	809	908	1320	1539	1750	1880	2174	2447
	55/45	452	520	585	853	995	1129	1208	1398	1568
	45/40	314	361	407	594	694	785	838	971	1085



RADIK CLEAN VKM8

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 CLEAN VKM8						Type 20S CLEAN VKM8						Type 30 CLEAN VKM8					
Length L [mm]	t_1/t_2 [°C]	Height H [mm]																	
		300	400	500	600	700	900	300	400	500	600	700	900	300	400	500	600	700	900
500	75/65	165	212	257	302	347	438	295	373	449	522	593	732			640	741	841	1042
	70/55	133	171	208	245	281	354	239	302	362	421	479	592			516	597	677	839
	55/45	84	108	132	156	179	224	152	191	229	266	303	375			326	376	426	527
	45/40	57	74	91	107	123	154	104	131	157	182	208	258			223	256	290	359
600	75/65	198	254	308	362	416	525	354	448	538	626	712	878			767	889	1009	1250
	70/55	159	205	249	294	337	424	286	362	435	505	575	710			619	716	813	1006
	55/45	100	129	158	187	214	269	182	230	275	319	364	451			391	451	511	632
	45/40	68	89	109	129	148	185	125	158	189	218	249	309			267	307	348	430
700	75/65	296	360	423	486	613	787	413	522	628	730	830	1024			895	1037	1177	1459
	70/55	239	291	343	393	495	637	334	422	507	589	671	828			722	836	948	1174
	55/45	151	185	218	250	314	411	212	268	321	372	424	526			456	526	596	737
	45/40	103	127	150	172	215	284	146	184	220	255	291	361			312	359	407	502
800	75/65	338	411	483	555	700	903	472	597	718	834	949	1170	686	858	1023	1186	1346	1667
	70/55	273	333	392	450	566	737	382	483	580	674	766	947	555	693	825	955	1084	1342
	55/45	172	211	249	286	359	471	243	306	367	426	485	601	353	439	521	601	681	843
	45/40	118	145	172	197	246	328	167	210	252	291	332	413	242	301	356	410	465	574
900	75/65	381	463	544	625	788	1028	531	671	807	939	1067	1317	772	965	1151	1334	1514	1876
	70/55	307	374	440	506	637	841	430	543	652	758	862	1065	625	779	929	1075	1219	1510
	55/45	194	237	281	322	404	531	273	344	413	479	546	676	397	493	586	676	767	948
	45/40	133	163	193	221	277	368	188	236	283	328	374	464	273	338	401	461	523	646
1000	75/65	423	514	604	694	875	1138	590	746	897	1043	1186	1463	858	1072	1279	1482	1682	2084
	70/55	341	416	489	562	707	922	477	603	725	842	958	1183	694	866	1032	1194	1355	1677
	55/45	216	264	312	357	449	591	303	383	459	532	606	751	441	548	651	751	852	1053
	45/40	148	181	215	246	308	410	209	263	314	364	415	516	303	376	445	512	581	717
1100	75/65	465	565	664	763	972	1262	649	821	987	1147	1305	1609	944	1179	1407	1630	1850	2292
	70/55	376	457	538	618	787	1036	525	664	797	926	1054	1302	764	953	1135	1313	1490	1845
	55/45	237	290	343	393	503	657	334	421	505	585	667	826	485	603	716	826	937	1159
	45/40	162	199	236	271	346	460	230	289	346	400	457	567	333	413	490	564	639	789
1200	75/65	508	617	725	833	1072	1390	708	895	1076	1252	1423	1756	1030	1286	1535	1778	2018	2501
	70/55	410	499	587	674	874	1144	573	724	870	1010	1150	1420	833	1039	1238	1433	1626	2013
	55/45	259	316	374	429	562	736	364	459	550	638	727	901	529	658	782	902	1022	1264
	45/40	177	217	258	295	381	508	250	315	377	437	498	619	364	451	534	615	697	861
1400	75/65	592	720	846	972	1262	1624	826	1044	1256	1460	1660	2048	1201	1501	1791	2075	2355	2918
	70/55	478	582	685	787	1032	1344	668	845	1015	1179	1341	1657	972	1213	1445	1672	1897	2348
	55/45	302	369	437	500	658	866	425	536	642	745	849	1051	617	768	912	1052	1193	1475
	45/40	207	253	301	344	453	605	292	368	440	510	581	722	424	526	623	717	813	1004
1600	75/65	677	822	966	1110	1432	1812	944	1194	1435	1669	1898	2341	1373	1715	2046	2371	2691	3334
	70/55	546	665	783	899	1192	1544	764	965	1159	1347	1533	1893	1111	1386	1651	1910	2167	2684
	55/45	345	422	499	572	766	1016	485	612	734	851	970	1201	705	877	1042	1202	1363	1686
	45/40	236	290	344	394	525	704	334	420	503	583	665	825	485	601	713	820	929	1148
1800	75/65	761	925	1087	1249	1624	2048	1062	1343	1615	1877	2135		1544	1930	2302	2668	3028	
	70/55	614	748	881	1011	1336	1712	859	1086	1304	1515	1724		1250	1559	1857	2149	2438	
	55/45	388	475	561	643	876	1164	546	689	826	957	1091		793	987	1172	1352	1533	
	45/40	266	326	387	443	611	816	376	473	566	655	748		545	677	802	922	1045	
2000	75/65	846	1028	1208	1388	1812	2304	1180	1492	1794	2086	2372		1716	2144	2558	2964	3364	
	70/55	683	831	979	1124	1496	1944	955	1206	1449	1684	1916		1388	1732	2064	2388	2709	
	55/45	431	527	624	715	988	1312	607	765	917	1064	1212		882	1097	1303	1503	1704	
	45/40	295	362	430	492	681	912	417	525	629	728	831		606	752	891	1025	1161	
2300	75/65							1357	1716	2063	2399	2728		1973	2466				
	70/55							1098	1387	1667	1936	2203		1597	1992				
	55/45							698	880	1055	1223	1394		1014	1261				
	45/40							480	604	723	837	955		697	865				
2600	75/65							1534	1940	2332	2712	3084		2231	2787				
	70/55							1241	1568	1884	2189	2491		1805	2252				
	55/45							789	995	1193	1383	1576		1146	1426				
	45/40							542	683	818	947	1080		788	977				
3000	75/65							1770	2238	2691	3129	3558		2574	3216				
	70/55							1432	1810	2174	2526	2874		2083	2598				
	55/45							910	1148	1376	1596	1818		1322	1645				
	45/40							626	788	943	1092	1246		909	1128				

RADIK CLEAN, CLEAN VK

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 CLEAN Type 10 CLEAN VK						Type 20S CLEAN Type 20S CLEAN VK				Type 30 CLEAN Type 30 CLEAN VK			
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]													
		300	400	500	600	700	900	500	600	700	900	500	600	700	900
400	75/65			206	242	278	350	359	417	474	585	512	593	673	834
	70/55			166	196	225	283	290	337	383	473	413	478	542	671
	55/45			105	125	143	179	183	213	242	300	261	301	341	421
	45/40			72	86	98	123	126	146	166	206	178	205	232	287
500	75/65	165	212	257	302	347	438	449	522	593	732	640	741	841	1042
	70/55	133	171	208	245	281	354	362	421	479	592	516	597	677	839
	55/45	84	108	132	156	179	224	229	266	303	375	326	376	426	527
	45/40	57	74	91	107	123	154	157	182	208	258	223	256	290	359
600	75/65	198	254	308	362	416	525	538	626	712	878	767	889	1009	1250
	70/55	159	205	249	294	337	424	435	505	575	710	619	716	813	1006
	55/45	100	129	158	187	214	269	275	319	364	451	391	451	511	632
	45/40	68	89	109	129	148	185	189	218	249	309	267	307	348	430
700	75/65			360	423	486	613	628	730	830	1024	895	1037	1177	1459
	70/55			291	343	393	495	507	589	671	828	722	836	948	1174
	55/45			185	218	250	314	321	372	424	526	456	526	596	737
	45/40			127	150	172	215	220	255	291	361	312	359	407	502
800	75/65			411	483	555	700	718	834	949	1170	1023	1186	1346	1667
	70/55			333	392	450	566	580	674	766	947	825	955	1084	1342
	55/45			211	249	286	359	367	426	485	601	521	601	681	843
	45/40			145	172	197	246	252	291	332	413	356	410	465	574
900	75/65			463	544	625	788	807	939	1067	1317	1151	1334	1514	1876
	70/55			374	440	506	637	652	758	862	1065	929	1075	1219	1510
	55/45			237	281	322	404	413	479	546	676	586	676	767	948
	45/40			163	193	221	277	283	328	374	464	401	461	523	646
1000	75/65			514	604	694	875	897	1043	1186	1463	1279	1482	1682	2084
	70/55			416	489	562	707	725	842	958	1183	1032	1194	1355	1677
	55/45			264	312	357	449	459	532	606	751	651	751	852	1053
	45/40			181	215	246	308	314	364	415	516	445	512	581	717
1100	75/65			565	664	763	963	987	1147	1305	1609	1407	1630	1850	2292
	70/55			457	538	618	778	797	926	1054	1302	1135	1313	1490	1845
	55/45			290	343	393	493	505	585	667	826	716	826	937	1159
	45/40			199	236	271	339	346	400	457	567	490	564	639	789
1200	75/65			617	725	833	1050	1076	1252	1423	1756	1535	1778	2018	2501
	70/55			499	587	674	849	870	1010	1150	1420	1238	1433	1626	2013
	55/45			316	374	429	538	550	638	727	901	782	902	1022	1264
	45/40			217	258	295	369	377	437	498	619	534	615	697	861
1400	75/65			720	846	972	1225	1256	1460	1660	2048	1791	2075	2355	2918
	70/55			582	685	787	990	1015	1179	1341	1657	1445	1672	1897	2348
	55/45			369	437	500	628	642	745	849	1051	912	1052	1193	1475
	45/40			253	301	344	431	440	510	581	722	623	717	813	1004
1600	75/65			822	966	1110	1400	1435	1669	1898	2341	2046	2371	2691	3334
	70/55			665	783	899	1132	1159	1347	1533	1893	1651	1910	2167	2684
	55/45			422	499	572	718	734	851	970	1201	1042	1202	1363	1686
	45/40			290	344	394	493	503	583	665	825	713	820	929	1148
1800	75/65			925	1087	1249		1615	1877	2135		2302	2668	3028	
	70/55			748	881	1011		1304	1515	1724		1857	2149	2438	
	55/45			475	561	643		826	957	1091		1172	1352	1533	
	45/40			326	387	443		566	655	748		802	922	1045	
2000	75/65			1028	1208	1388		1794	2086	2372		2558	2964	3364	
	70/55			831	979	1124		1449	1684	1916		2064	2388	2709	
	55/45			527	624	715		917	1064	1212		1303	1503	1704	
	45/40			362	430	492		629	728	831		891	1025	1161	



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

		15 °C	20 °C	22 °C	Radiator weight M_T [kg]	Water volume V_T [l]	Max. output of the el. heating element P [W]
Length L [mm]	t_1/t_2 [°C]	Height H [mm]					
		600			600		
800	90/70	1856	1672	1599	27,4	5,7	700
	75/65	1492	1317	1248			
	70/55	1231	1065	999			
	55/45	826	675	617			
1000	90/70	2320	2089	1999	34,2	7,1	900
	75/65	1865	1646	1560			
	70/55	1539	1331	1249			
	55/45	1032	844	771			
1200	90/70	2784	2507	2399	40,8	8,5	1000
	75/65	2238	1975	1872			
	70/55	1847	1597	1499			
	55/45	1239	1012	925			
1400	90/70	3248	2925	2798	47,5	9,9	1200
	75/65	2610	2304	2185			
	70/55	2155	1863	1749			
	55/45	1445	1181	1079			
1600	90/70	3712	3343	3198	54,3	11,4	1200
	75/65	2983	2634	2497			
	70/55	2463	2129	1999			
	55/45	1651	1350	1233			

Notice:

The maximum output of the electrical heating element P [W] is dependent on the particular type and size of the radiator and must not be exceeded in any case.

Type 22 COMBI VK	
Height H [mm]	600
Nominal heat output [W/m]	1646
Temp. exponent n [-]	1,3085
K_M	9,8475
Radiator weight [kg/m]	34,2
Water volume [l/m]	7,1

BASIC TECHNICAL PARAMETERS

RADIK VKM8, VKM8 - L, VKM8 - U

Height H [mm]	Type 10						Type 11						Type 20		
	300	400	500	600	700	900	300	400	500	600	700	900	500	600	700
Nominal heat output [W/m]	375	476	572	665	753	922	533	683	831	979	1129	1432	934	1080	1222
Temp. exponent n [-]	1,2945	1,3013	1,3081	1,3149	1,3210	1,3331	1,2583	1,2772	1,2962	1,3151	1,3198	1,3291	1,3093	1,3160	1,3259
K_M	2,3698	2,9291	3,4275	3,8801	4,2900	5,0100	3,8807	4,6184	5,2167	5,7078	6,4624	7,9039	5,5704	6,2745	6,8298
Radiator weight [kg/m]	6,6	8,4	10,4	12,4	15,2	17,7	10,9	13,3	16,6	19,7	23,6	29,3	21,2	25,3	29,5
Water volume [l/m]	1,9	2,3	2,7	3,1	3,5	4,5	1,9	2,3	2,7	3,1	3,5	4,5	5,3	6,2	7,0

Height H [mm]	Type 21						Type 22						Type 33					
	300	400	500	600	700	900	300	400	500	600	700	900	300	400	500	600	700	900
Nominal heat output [W/m]	748	937	1118	1294	1466	1802	950	1204	1447	1680	1905	2335	1331	1716	2075	2411	2724	3286
Temp. exponent n [-]	1,3135	1,3259	1,3384	1,3508	1,3602	1,3791	1,2985	1,3122	1,3260	1,3397	1,3468	1,3609	1,3190	1,3273	1,3357	1,3440	1,3529	1,3708
K_M	4,3884	5,2369	5,9503	6,5609	7,1646	8,1791	5,9103	7,0997	8,0841	8,8961	9,8112	11,3804	7,6425	9,5384	11,1610	12,5540	13,6984	15,4070
Radiator weight [kg/m]	15,1	19,6	23,0	27,3	31,5	41,2	17,8	23,5	26,6	32,0	37,1	48,1	26,3	34,8	39,8	47,7	55,3	71,9
Water volume [l/m]	3,7	4,5	5,3	6,2	7,0	8,7	3,7	4,5	5,3	6,2	7,1	8,9	5,4	6,7	8,0	9,3	10,5	13,0

RADIK KLASIK, RADIK KLASIK - Z, RADIK VK, RADIK VK - Z, RADIK VKU, RADIK VKL

Height H [mm]	Type 10 Type 10 VK Type 10 VKL						Type 11 Type 11 VK Type 11 VKL						Type 20 Type 20 VK		
	300	400	500	600	700	900	300	400	500	600	700	900	500	600	700
Nominal heat output [W/m]	330	423	514	604	694	875	549	708	858	1002	1139	1394	838	978	1117
Temp. exponent n [-]	1,3319	1,3193	1,3068	1,2942	1,2989	1,3083	1,3156	1,3140	1,3123	1,3107	1,3140	1,3206	1,3005	1,3014	1,3192
K_M	1,8016	2,4260	3,0956	3,8215	4,3109	5,2390	3,1945	4,1456	5,0574	5,9433	6,6693	7,9543	5,1729	6,0159	6,4087
Radiator weight [kg/m]	5,8	7,6	9,5	11,5	14,3	16,7	10,1	12,5	15,7	18,8	22,7	28,3	20,4	24,4	29,3
Water volume [l/m]	1,9	2,3	2,7	3,1	3,5	4,3	1,9	2,3	2,7	3,1	3,5	4,3	5,1	5,8	6,6
Flow coefficient A_T [m ²]	6,5 x 10 ⁻⁶ (DN 15)						6,5 x 10 ⁻⁶ (DN 15)						1,0 x 10 ⁻⁴ (DN 15)		
Resistance coefficient ξ_r [-]	19,0 (DN 15)						19,0 (DN 15)						8,5 (DN 15)		

Stated values for the flow coefficient A_T and the coefficient of resistance ξ_r apply only to the model RADIK KLASIK.

RADIK KLASIK, RADIK KLASIK - Z, RADIK VK, RADIK VK - Z, RADIK VKU, RADIK VKL

Height H [mm]	Type 21 Type 21 VK Type 21 VKL Type 21 VKU						Type 22 Type 22 VK Type 22 VKL Type 22 VKU						Type 33 Type 33 VK Type 33 VKL Type 33 VKU							
	300	400	500	600	700	900	200	300	400	500	600	700	900	200	300	400	500	600	700	900
Nominal heat output [W/m]	745	937	1117	1288	1450	1754	649	966	1216	1452	1679	1897	2313	934	1379	1738	2079	2406	2723	3328
Temp. exponent n [-]	1,3197	1,3238	1,3278	1,3319	1,3405	1,3578	1,2560	1,3297	1,3316	1,3334	1,3353	1,3427	1,3574	1,2668	1,2977	1,3129	1,3282	1,3434	1,3498	1,3626
K_M	4,2660	5,2801	6,1967	7,0317	7,6542	8,6530	4,7680	5,3193	6,6464	7,8806	9,0452	9,9280	11,4286	6,5780	8,6062	10,2205	11,5155	12,5574	13,8605	16,1126
Radiator weight [kg/m]	14,3	18,8	22,1	26,4	30,6	40,2	10,2	17,0	22,7	25,7	31,1	36,2	47,1	15,1	25,5	34,0	38,9	46,8	54,4	70,9
Water volume [l/m]	3,7	4,4	5,1	5,8	6,6	8,3	3,1	3,7	4,4	5,1	5,8	6,6	8,4	4,6	5,3	6,4	7,6	8,7	10,0	12,6
Flow coefficient A_T [m ²]	1,0 x 10 ⁻⁴ (DN 15)						1,0 x 10 ⁻⁴ (DN 15)						1,18 x 10 ⁻⁴ (DN 15)							
Resistance coefficient ξ_r [-]	8,5 (DN 15)						8,5 (DN 15)						5,8 (DN 15)							

Stated values for the flow coefficient A_T and the coefficient of resistance ξ_r apply only to the model RADIK KLASIK.

$$\text{Characteristic equation: } \phi = K_M \cdot \Delta T^n \left[\frac{W}{m} \right], \quad \Delta T = \frac{t_1 + t_2}{2} - t_r \text{ [K]}$$

t_1 – temperature water-in, t_2 – temperature water-out, t_r – relative air temperature

BASIC TECHNICAL PARAMETERS



RADIK MATERNELLE VK, RADIK MATERNELLE VKL

	Type 32 VK Type 32 VKL					
	300	400	500	600	700	900
Height H [mm]	300	400	500	600	700	900
Nominal heat output [W/m]	992	1229	1455	1675	1891	2315
Temp. exponent n [-]	1,3023	1,3051	1,3079	1,3107	1,3263	1,3574
K_M	6,0806	7,4512	8,7253	9,9352	10,5523	11,4385
Radiator weight [kg/m]	23,4	31,0	34,4	41,4	48,4	62,3
Water volume [l/m]	3,7	4,4	5,1	5,8	6,6	8,3

RADIK PLAN KLASIK, RADIK PLAN VK, RADIK PLAN VKL, RADIK LINE KLASIK, RADIK LINE VK, RADIK LINE VKL

	Type 11 PLAN Type 11 PLAN VK Type 11 PLAN VKL			Type 11 LINE Type 11 LINE VK Type 11 LINE VKL			Type 21 PLAN Type 21 PLAN VK Type 21 PLAN VKL			Type 21 LINE Type 21 LINE VK Type 21 LINE VKL		
	300	400	500	600	700	900	300	400	500	600	700	900
Height H [mm]	300	400	500	600	700	900	300	400	500	600	700	900
Nominal heat output [W/m]	533	678	818	953	1084	1337	727	896	1060	1222	1384	1711
Temp. exponent n [-]	1,2683	1,2683	1,2682	1,2682	1,2793	1,3015	1,3098	1,3145	1,3192	1,3239	1,3311	1,3455
K_M	3,7318	4,7471	5,7295	6,6751	7,2700	8,2209	4,3274	5,2361	6,0817	6,8834	7,5794	8,8570
Radiator weight [kg/m]	12,6	15,8	19,7	23,5	28,2	36,0	16,8	22,1	26,1	31,1	36,1	47,8
Water volume [l/m]	1,9	2,3	2,7	3,1	3,5	4,3	3,7	4,4	5,1	5,8	6,6	8,3
Flow coefficient A_T [m ²]	6,5 x 10 ⁻⁶ (DN 15)						1,0 x 10 ⁻⁴ (DN 15)					
Resistance coefficient ξ_T [-]	19,0 (DN 15)						8,5 (DN 15)					

Stated values for the flow coefficient A_T and the coefficient of resistance ξ_T apply only to the model RADIK PLAN KLASIK.

RADIK PLAN KLASIK, RADIK PLAN VK, RADIK PLAN VKL, RADIK LINE KLASIK, RADIK LINE VK, RADIK LINE VKL

	Type 22 PLAN Type 22 PLAN VK Type 22 PLAN VKL				Type 22 LINE Type 22 LINE VK Type 22 LINE VKL				Type 33 PLAN Type 33 PLAN VK Type 33 PLAN VKL				Type 33 LINE Type 33 LINE VK Type 33 LINE VKL			
	200	300	400	500	600	700	900	200	300	400	500	600	700	900		
Height H [mm]	200	300	400	500	600	700	900	200	300	400	500	600	700	900		
Nominal heat output [W/m]	626	948	1187	1414	1631	1841	2243	918	1337	1689	2022	2341	2648	3231		
Temp. exponent n [-]	1,2401	1,3141	1,3174	1,3208	1,3241	1,3265	1,3314	1,2590	1,3284	1,3252	1,3219	1,3187	1,3313	1,3565		
K_M	4,8942	5,5487	6,8585	8,0621	9,1801	10,2653	12,2693	6,6656	7,3998	9,4657	11,4792	13,4577	14,4904	16,0208		
Radiator weight [kg/m]	12,1	19,6	25,9	29,7	35,7	41,7	54,8	17,1	28,2	37,4	42,9	51,5	59,9	78,7		
Water volume [l/m]	3,1	3,7	4,4	5,1	5,8	6,6	8,4	4,6	5,3	6,4	7,6	8,7	10,0	12,6		
Flow coefficient A_T [m ²]	1,0 x 10 ⁻⁴ (DN 15)							1,18 x 10 ⁻⁴ (DN 15)								
Resistance coefficient ξ_T [-]	8,5 (DN 15)							5,8 (DN 15)								

Stated values for the flow coefficient A_T and the coefficient of resistance ξ_T apply only to the model RADIK PLAN KLASIK.

$$\text{Characteristic equation: } \phi = K_M \cdot \Delta T^n \left[\frac{W}{m} \right], \quad \Delta T = \frac{t_1 + t_2}{2} - t_r \text{ [K]}$$

t_1 – temperature water-in, t_2 – temperature water-out, t_r – relative air temperature

BASIC TECHNICAL PARAMETERS

RADIK PLAN VKM8, PLAN VKM8 - L, LINE VKM8, LINE VKM8 - L

Height H [mm]	Type 11						Type 20			Type 21					
	300	400	500	600	700	900	500	600	700	300	400	500	600	700	900
Nominal heat output [W/m]	530	658	780	897	1011	1231	848	969	1085	720	904	1072	1226	1367	1617
Temp. exponent n [-]	1,2617	1,2698	1,2778	1,2859	1,2989	1,3249	1,2895	1,2924	1,2988	1,3019	1,3144	1,3268	1,3393	1,3446	1,3553
K_M	3,8079	4,5801	5,2620	5,8626	6,2800	6,9071	5,4648	6,1741	6,7423	4,4202	5,2850	5,9704	6,5022	7,1012	8,0556
Radiator weight [kg/m]	13,4	16,6	20,6	24,4	29,1	37,0	25,2	30	35	17,6	22,9	27,0	32,0	37	48,8
Water volume [l/m]	1,9	2,3	2,7	3,1	3,5	4,5	5,3	6,2	7,0	3,7	4,5	5,3	6,2	7,0	8,7

Height H [mm]	Type 22						Type 33					
	300	400	500	600	700	900	300	400	500	600	700	900
Nominal heat output [W/m]	914	1165	1400	1621	1830	2215	1337	1689	2022	2341	2648	3231
Temp. exponent n [-]	1,2863	1,2990	1,3117	1,3244	1,3327	1,3493	1,3284	1,3252	1,3219	1,3187	1,3313	1,3565
K_M	5,9643	7,2338	8,2716	9,1131	9,9594	11,2967	7,3998	9,4657	11,4792	13,4577	14,4904	16,0208
Radiator weight [kg/m]	20,4	26,7	30,6	36,6	42,6	55,8	29,0	38,2	43,8	52,4	60,8	79,7
Water volume [l/m]	3,7	4,5	5,3	6,2	7,1	8,9	5,4	6,7	8,0	9,3	10,5	13,0

RADIK CLEAN, RADIK CLEAN VK

Height H [mm]	Type 10 CLEAN Type 10 CLEAN VK						Type 20S CLEAN Type 20S CLEAN VK				Type 30 CLEAN Type 30 CLEAN VK			
	300	400	500	600	700	900	500	600	700	900	500	600	700	900
Nominal heat output [W/m]	330	423	514	604	694	875	897	1043	1186	1463	1279	1482	1682	2084
Temp. exponent n [-]	1,3319	1,3193	1,3068	1,2942	1,2989	1,3083	1,3127	1,3181	1,3140	1,3058	1,3212	1,3299	1,3318	1,3355
K_M	1,8016	2,4260	3,0956	3,8215	4,3109	5,2390	5,2790	6,0100	6,9445	8,8456	7,2810	8,1543	9,1862	11,2182
Radiator weight [kg/m]	5,8	7,6	9,5	11,5	14,3	16,7	20,1	23,9	27,6	35,5	28,8	34,4	40,0	51,2
Water volume [l/m]	1,9	2,3	2,7	3,1	3,5	4,3	5,1	5,8	6,6	8,3	7,6	8,7	10,0	12,6
Flow coefficient A_T [m ²]	6,5 x 10 ⁻⁵ (DN 15)						1,0 x 10 ⁻⁴ (DN 15)				1,18 x 10 ⁻⁴ (DN 15)			
Resistance coefficient ξ_r [-]	19,0 (DN 15)						8,5 (DN 15)				5,8 (DN 15)			

Stated values for the flow coefficient A_T and the coefficient of resistance ξ_r apply only to the model RADIK CLEAN.

$$\text{Characteristic equation: } \phi = K_M \cdot \Delta T^n \left[\frac{W}{m} \right], \quad \Delta T = \frac{t_1 + t_2}{2} - t_r \text{ [K]}$$

t_1 – temperature water-in, t_2 – temperature water-out, t_r – relative air temperature

BASIC TECHNICAL PARAMETERS



RADIK CLEAN VKM8

Height H [mm]	Type 10 CLEAN VKM8						Type 20S CLEAN VKM8						Type 30 CLEAN VKM8					
	300	400	500	600	700	900	300	400	500	600	700	900	300	400	500	600	700	900
Q_N [W/m]	330	423	514	604	694	875	590	746	897	1043	1186	1463	858	1072	1279	1482	1682	2084
n [-]	1,3319	1,3193	1,3068	1,2942	1,2989	1,3083	1,3018	1,3072	1,3127	1,3181	1,3140	1,3058	1,3037	1,3124	1,3212	1,3299	1,3318	1,3355
K_M	1,8016	2,4260	3,0956	3,8215	4,3109	5,2390	3,6235	4,4859	5,2790	6,0100	6,9445	8,8456	5,2305	6,3164	7,2810	8,1543	9,1862	11,2182
Radiator weight [kg/m]	6,5	8,3	10,1	11,8	13,6	17,1	12,1	15,5	19,1	22,6	26,0	33,2	17,6	22,5	27,6	32,6	37,7	50,9
Water volume [l/m]	1,9	2,3	2,7	3,1	3,5	4,5	3,7	4,5	5,3	6,2	7,0	8,9	5,4	6,7	8,0	9,3	10,5	13,0

RADIK HYGIENE, RADIK HYGIENE VK

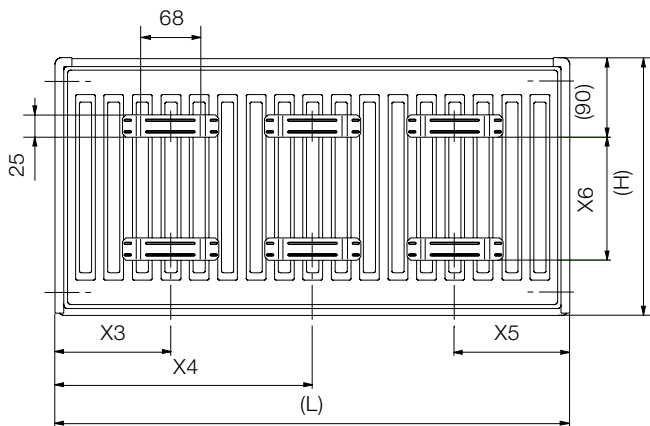
Height H [mm]	Type 10 HYGIENE Type 10 HYGIENE VK			Type 20S HYGIENE Type 20S HYGIENE VK			Type 30 HYGIENE Type 30 HYGIENE VK		
	503	603	703	503	603	703	503	603	703
Nominal heat output [W/m]	431	496	556	808	941	1072	1153	1333	1503
Temp. exponent n [-]	1,2656	1,2695	1,2617	1,2557	1,2512	1,2600	1,2697	1,2677	1,2785
K_M	3,0497	3,4565	3,9947	5,9431	7,0443	7,7534	8,0287	9,3550	10,1117
Radiator weight [kg/m]	13,4	16,0	20,4	23,3	27,8	33,1	34,6	40,6	45,5
Water volume [l/m]	2,7	3,1	3,5	5,1	5,8	6,6	7,6	8,7	10
Flow coefficient A_r [m²]	6,5 x 10 ⁻⁵ (DN 15)			1,0 x 10 ⁻⁴ (DN 15)			1,18 x 10 ⁻⁴ (DN 15)		
Resistance coefficient ξ_r [-]	19,0 (DN 15)			8,5 (DN 15)			5,8 (DN 15)		

Characteristic equation: $\phi = K_M \cdot \Delta T^n \left[\frac{W}{m} \right]$, $\Delta T = \frac{t_1 + t_2}{2} - t_r$ [K]

t₁ – temperature water-in, t₂ – temperature water-out, t_r – relative air temperature

DATA FOR MOUNTING

Location of hangers



Position of radiator

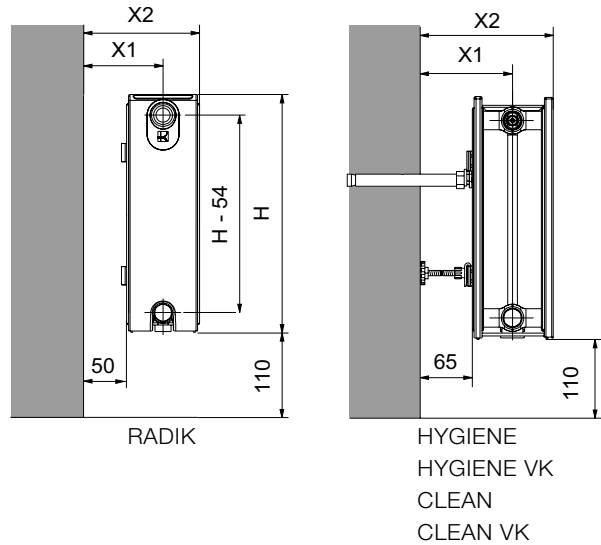


Table of sizes

Length L [mm]	400	500 - 1600	1800	2000	2300	2600	3000
X3	A	133	133	133	133	133	133
	B	167	167	167	167	167	167
	C	117	150	150	150	150	150
	D	100	133	133	133	133	133
X4	A	-	-	900	1000	1133	1300
	B	-	-	900	1000	1133	1300
	C	-	-	883	983	1150	1283
	D	-	-	900	1000	1133	1300
X5	A	133	133	133	133	133	133
	B	100	133	133	133	133	133
	C	117	150	150	150	150	150
	D	167	167	167	167	167	167

A - for Types 10, 20, 20S, 21, 22, 30, 33, 20 VK, 20S VK, 21 VK, 21 VKL, 22 VK, 22 VKL, 30 VK, 32 VK, 32 VKL, 33 VK, 33 VKL

B - for Types 10 VK

C - for Types 11, 11 VK, 11 VKL

D - for Types 10 VKL

PLAN KLASIK = LINE KLASIK = HYGIENE = CLEAN = KLASIK

PLAN VK = LINE VK = HYGIENE VK = CLEAN VK = VK

PLAN VKL = LINE VKL = VKL

Height H [mm]	300	400	500	554	600	700	900
X6	145	245	345	399	445	545	745

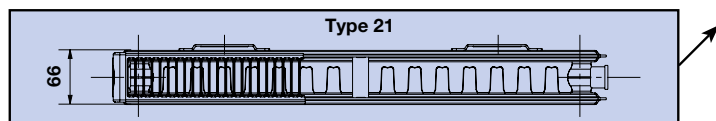


Table of sizes

Type	10 10 VK 10 VKL	11 11 VK 11 VKL	20 20 R 20 VK	21 21 R 21 VK 21 VKL	22 22 R 22 VK 22 VKL	32 VK 32 VKL	33 33 R ¹⁾ 33 VK 33 VKL
X1	32	75	83	83	100	100	100
X2	64	107	116	116	150	205	205

The values of parameters **X1** and **X2** depend on Type of brackets applied.

The **X2** figure is increased by 2 mm for PLAN and LINE radiators.

¹⁾ Value **X1** for the model RADIK KLASIK – R Type 33 = 155 mm.

Table of sizes HYGIENE, HYGIENE VK, CLEAN, CLEAN VK

Type	10 10 VK	20 S 20 S VK	30 30 VK
X1	47	115	115
X2	79	165	220

The **X2** figure is increased by 2 mm for models HYGIENE, HYGIENE VK.

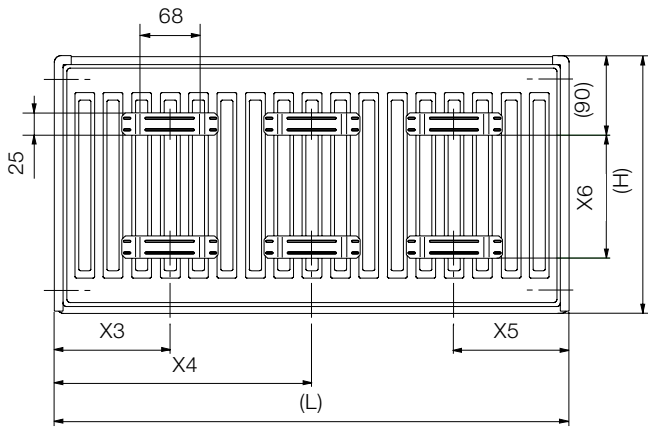
Overview of Types

Type	Number of panels	Number of convector plates
Type 10	1	0
Type 11	1	1
Type 20	2	0
Type 21	2	1
Type 22	2	2
Type 30	3	0
Type 32	3	2
Type 33	3	3

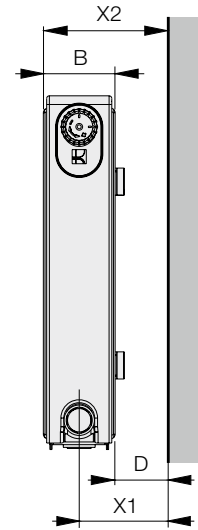
DATA FOR MOUNTING - Type VKM8



Location of hangers



Position of radiator



Tables of sizes

Type	L [mm]							
	400	500 - 1600	1800	2000	2300	2600	3000	
X3 [mm]	A	167	167	167	167	167	167	167
	B	100	133	133	133	133	133	133
	C	117	150	150	150	150	150	150
	D	133	133	133	133	133	133	133
X4 [mm]	A	-	-	900	1000	1133	1300	1500
	B	-	-	900	1000	1133	1300	1500
	C	-	-	900	1000	1133	1300	1500
	D	-	-	900	1000	1133	1300	1500
X5 [mm]	A	100	133	133	133	133	133	133
	B	167	167	167	167	167	167	167
	C	117	150	150	150	150	150	150
	D	133	133	133	133	133	133	133

- A** - for types: 10 VKM8
- B** - for types: 10 VKM8 - L
- C** - for types: 11 VKM8, 11 VKM8 - L, 11 PLAN VKM8, 11 PLAN VKM8 - L, 11 LINE VKM8, 11 LINE VKM8 - L
- D** - for types: 20 VKM8, 20 VKM8 - L, 20 PLAN VKM8, 20 PLAN VKM8 - L, 20 LINE VKM8, 20 LINE VKM8 - L, 21 VKM8, 21 VKM8 - L, 21 PLAN VKM8, 21 PLAN VKM8 - L, 21 LINE VKM8, 21 LINE VKM8 - L, 22 VKM8, 22 VKM8 - L, 22 PLAN VKM8, 22 PLAN VKM8 - L, 22 LINE VKM8, 22 LINE VKM8 - L, 33 VKM8, 33 VKM8 - L, 33 PLAN VKM8, 33 PLAN VKM8 - L, 33 LINE VKM8, 33 LINE VKM8 - L

Height H [mm]	300	400	500	600	700	900
X6	145	245	345	445	545	745

	Type	10 VKM8	11 VKM8 11 PLAN VKM8 11 LINE VKM8	20 VKM8 20 PLAN VKM8 20 LINE VKM8 20 VKM8 - U	21 VKM8 21 PLAN VKM8 21 LINE VKM8 21 VKM8 - U	22 VKM8 22 PLAN VKM8 22 LINE VKM8 22 VKM8 - U	33 VKM8 33 PLAN VKM8 33 LINE VKM8 33 VKM8 - U
Bottom middle	X1 [mm]	D - 18	D + 25	D + 33	D + 33	D + 33	D + 33
Right bottom connection		D - 18	D + 25	D + 33	D + 33	D + 50	D + 50
	X2 [mm]	D + 14	D + 57	D + 66	D + 66	D + 100	D + 155

	Type	10 VKM8 - L	11 VKM8 - L 11 PLAN VKM8 - L 11 LINE VKM8 - L	20 VKM8 - L 20 PLAN VKM8 - L 20 LINE VKM8 - L 20 VKM8 - U*	21 VKM8 - L 21 PLAN VKM8 - L 21 LINE VKM8 - L 21 VKM8 - U*	22 VKM8 - L 22 PLAN VKM8 - L 22 LINE VKM8 - L	22 VKM8 - U*	33 VKM8 - L 33 PLAN VKM8 - L 33 LINE VKM8 - L	33 VKM8 - U*
Bottom middle	X1 [mm]	D - 18	D + 25	D + 33	D + 33	D + 33	D + 67	D + 33	D + 122
Left bottom connection		D - 18	D + 25	D + 33	D + 33	D + 50	D + 50	D + 50	D + 105
	X2 [mm]	D + 14	D + 57	D + 66	D + 66	D + 100	D + 100	D + 155	D + 155

Notice: * VKM8-U connected with the valve on the left side.

Values **X2** related to the radiators in versions PLAN and LINE are by 2 mm larger.

GENERAL INFORMATION

Description

RADIK are steel panel radiators with a natural air convection around their heat-transfer surface. They are produced in single, double or triple panel version. The basic heat-transfer surface is created by a profiled panel with horizontally and vertically aligned channels. For an increase of heat output there is an additional convector fin welded on the inside of the panel of some of the radiator types.

The panel is made from two moulded steel shells which are spot-welded in vertical profiles and seam-welded on all four sides of the panel. A cold-rolled low-carbon content steel is used.

Use

RADIK steel panel radiators are designed for central heating systems in buildings with the highest allowed working pressure of 10 bar (1,0 MPa) where water or water solutions are used as the heating medium. The highest allowed working temperature is 110 °C. RADIK radiators are designed for single-pipe or twin-pipe systems with pressurized or gravity-fed circulation. Radiators must be installed in a professional way in hot water systems which are carried out professionally according to VDI 2035 with regard to the protection against damage caused by corrosion and scale.

The following main water quality attributes must be adhered to:

- pH range 8.5 - 9.5 (this applies for systems which do not contain aluminium)
- overall water hardness (content of Ca + Mg ions) up to 1mmol/l
- salinity within the range 300 - 500 µS/cm
- oxygen content max. 0.1 mg/l.

Low water content in the radiator enables a flexible reaction of the heating system to the required room temperature and an effective thermoregulation.

RADIK steel panel radiators in the PLAN and VERTIKAL version have a special design which will fit in with every room interior and will satisfy even the most demanding customer and home designer.

RADIK steel panel radiators in the version HYGIENE are designed for rooms with high demands on hygiene and cleanness. These radiators have been tested in an accredited laboratory and obtained the hygiene certificate for usage in health service and similar services.

Identification

Our products are identified by:

- a printed label on the radiator packaging
- a label with bar code on the radiator packaging
- a company logo stamped on the end panels
- an inkjet print with the manufacturing date and time on the rear side of the plate of the radiator

Type number	Number of panels	Number of convector plates
Type 10	1	0
Type 11	1	1
Type 20	2	0
Type 21	2	1
Type 22	2	2
Type 30	3	0
Type 32	3	2
Type 33	3	3

Versions

RADIK steel panel radiators are manufactured in 6 basic versions which come in individual models.

Basic versions of RADIK steel panel radiators:

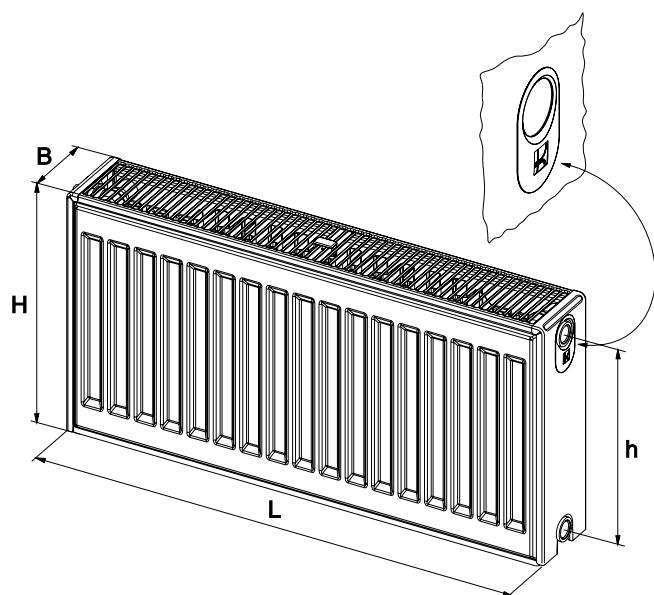
- **KLASIK**
 - radiators with side connections and a profiled front panel.
- **VENTIL KOMPAKT**
 - radiators with built-in inside distribution tappings and valve, with bottom connections and profiled front panel.
- **PLAN**
 - radiators with side connections (KLASIK version) or bottom connections (VENTIL KOMPAKT version) with a flat front panel.
- **LINE**
 - radiators with side connections (KLASIK version) or with bottom connection (VENTIL KOMPAKT version) and a flat front panel with fine horizontal grooves
- **VERTIKAL**
 - vertically aligned radiators without valve with bottom middle connection and a flat or grooved front panel
- **HYGIENE**
 - radiators without convector fins, side panels and top grill, with side or bottom connections and with a flat front panel

Overview of RADIK models

- **VENTIL KOMPAKT**
 - model RADIK VKM8
 - model RADIK VKM8 - L
 - model RADIK VKM8 - U
 - model RADIK VK
 - model RADIK VKU
 - model RADIK VKL
 - model RADIK COMBI VK
 - model RADIK MATERNELLE VK
 - model RADIK MATERNELLE VKL
 - model RADIK VK - Z
- **KLASIK**
 - model RADIK KLASIK
 - model RADIK KLASIK - R
 - model RADIK KLASIK - Z
- **PLAN**
 - model RADIK PLAN VKM8
 - model RADIK PLAN VKM8 - L
 - model RADIK PLAN VK
 - model RADIK PLAN VKL
 - model RADIK PLAN KLASIK
 - model RADIK PLAN KLASIK - R
- **LINE**
 - model RADIK LINE VKM8
 - model RADIK LINE VKM8 - L
 - model RADIK LINE VK
 - model RADIK LINE VKL
 - model RADIK LINE KLASIK
 - model RADIK LINE KLASIK - R
- **VERTIKAL**
 - model RADIK PLAN VERTIKAL - M
 - model RADIK LINE VERTIKAL - M
- **Provedení HYGIENE**
 - model RADIK CLEAN VKM8
 - model RADIK CLEAN VK
 - model RADIK CLEAN
 - model RADIK HYGIENE
 - model RADIK HYGIENE VK



Technical data



Height	H = 200 ÷ 900 mm
Length	L = 400 ÷ 3000 mm
Depth	B = 47 ÷ 155 mm (differs according to the type)
Connecting pitch	h = H – 54 mm
Connecting thread	G 1/2" inside
Highest allowed working pressure	10 bar (1,0 MPa)
Test pressure	13 bar
Highest allowed working temperature	110 °C
Axial distance of the vertical stampings	33,33 mm
Basic paint	cataphoretic paint (KTL)
Surface finish	white RAL 9016
LGA	for types 11, 20, 21, 22, 33
Guarantee period	10 years

Finish

The technology used guarantees the achievement of three basic goals:

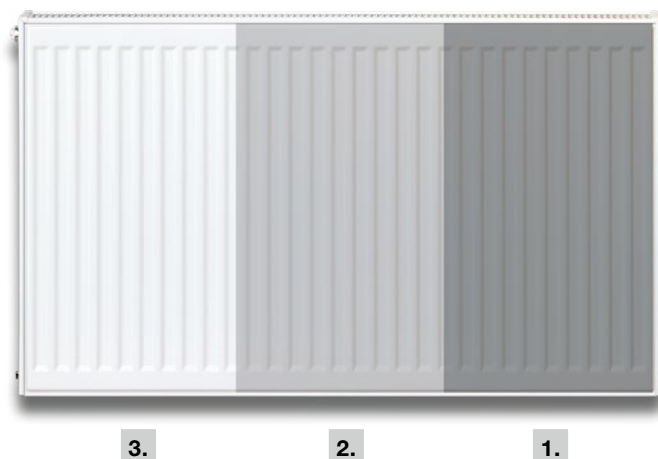
- long-term corrosion resistance and mechanical durability
- fine-quality finish
- hygienic surface

The surface finish is done in three basic phases:

- 1) Preparation of the steel surface – includes degreasing, phosphating, and rinsing in three stages.
- 2) Putting on the first layer of paint using the cataphoretic method (KTL). The layer of paint is evenly spread over the whole radiator. The KTL paint gains its final anticorrosion, adhesive, and mechanical and chemical characteristics in a drying oven. This phase of surface finishing is of decisive importance for the long life span of the radiator.
- 3) Putting on the final layer of paint – epoxy-polyester powder is applied using automatic dusting pistols in an electrostatic field of a dusting compartment. After it is oven dried and cooled, the finish of the radiator is completed.

The surface finishing of the radiators is done with a maximum effort to protect the environment, during production and use.

Radiators are delivered in white powder coat (RAL 9016) as standard, on request we also offer in other colours. For more information on the colours available please see the colour card RADIK.



1. Degreasing and phosphating
2. Cataphoretic paint
3. Epoxy-polyester powder

GENERAL INFORMATION

Basic Equipment

All RADIK steel panel radiators except the model RADIK VKU and all radiators in height 200 mm have two upper and lower hangers welded on the back. Radiators with length 1800 mm and longer have six welded hangers.

All radiators are equipped with an air vent and a respective number of blanking plugs. All connections of RADIK steel panel radiators have the same diameter with a G 1/2 internal thread.

Except the types 10 and the models RADIK HYGIENE, RADIK HYGIENE VK, RADIK CLEAN, RADIK CLEAN VK all other models are delivered with end panels and top grills fitted.

The radiators in height 200 mm are delivered with the necessary number of "Split Brackets Plus" designed for mounting on the wall. Stand brackets Z-U400 can be delivered on special order.

Transport and storage

The radiators are stored on pallets according to the manufacturer's internal guidelines. Pallets with radiators should only be transported in covered transport. Radiators which are transported unprofessionally and incorrectly can be deformed or otherwise damaged. It is especially dangerous to transport long radiators on smaller pallets or on top of radiators of a different size.

Radiators must be stored where they are protected from the effects of the weather. They are not to be stored in open, uncovered areas. If they are stored on a flat floor, a maximum of two pallets of the same size may be put on top of each other. Pallets with radiators of type 10 and 11 and all types of the PLAN version may be stored only in one layer.

Heat output and registration

Heat outputs of the steel panel radiators RADIK were measured according to EN 442 in an accredited laboratory.

Conformity with valid European regulations and standards was certified by Strojírenský zkušební ústav (Engineering Testing Institute) in Brno, notified body No. 1015.

Certified registration for using national quality marks RAL (Germany) - see p. 85.

Related norms

ČSN EN 442

DIN EN 442

ČSN 06 1101

ČSN 06 1122

ČSN 06 0310

ČSN 07 7401

DIN 55 900

Packaging

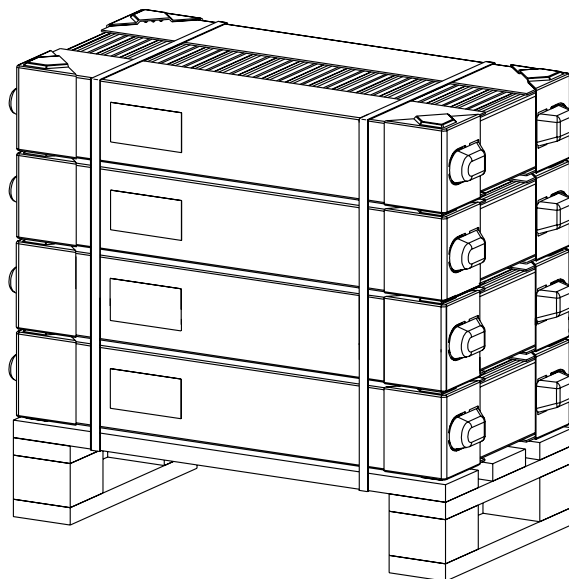
All steel panel radiators are delivered in uniform packaging, which consists of:

- corrugated cardboard
- plastic reinforcing corner covers
- polyethylene shrinking foil
- strip band
- inserted information sheet

The packaging protects the radiator during transportation, handling, assembly and after assembly. It should not be removed before the installation and other work is completed.



Packaging - pallet





Guidelines for mounting

Basic guidelines for the installation of steel panel radiators:

- centre below a window
- centre of radiator and of window at the same place
- air movement around the radiator should not be restricted

We offer an assortment of brackets for RADIK steel panel radiators. That assortment is shown in the KORAMONT catalogue and covers most installers needs and all main construction materials. Its construction allows mounting of the radiator with minimum damage of its packaging (at the place of mounting and connection of necessary parts) and the packaging can be removed after the completion of all construction and other work.

We recommend using such fittings for the connection of steel panel radiators as will secure:

- regulation of water flow through the radiator
- closing off radiator at the inlet and outlet of water flow
- emptying and filling of the radiator
- disconnecting of radiator without interruption of the heating system operation

For mounting of RADIK steel panel radiators of VENTIL KOMPAKT version, we recommend to use KORADO pre-fixing template, which will supply, in every respect, radiators presence at a construction site (see KORAMONT catalogue).

Guarantees and Quality

The manufacturer guarantees that the product is leak proof and guarantees stated heat output of RADIK steel panel radiators connected to the hot-water systems for 10 years from the date of sale. The manufacturer accepts no responsibility for deformation or damage of the radiators caused during their transport, handling, or storage. The guarantee does not apply to mechanical or other damages caused by unqualified installation of the radiators.

RADIK products guarantee the quality, as is documented by certificates issued by LGA Nürnberg (certificate on suitability of radiators for installation in schools and kindergartens) and Engineering Testing Laboratory, SZ no. 202 Brno and registration of national quality marks RAL (Germany), NF (France) - see p. 82.

The company KORADO, a.s. has held a quality certificate under the norm ISO 9001 since 1997. That quality control system describes in advance all conditions, requirements, and parameters with respect to technical, manufacturing, commercial, transport, and service issues. The customer is the main goal of the entire system and his satisfaction influences the goals and plans of the company KORADO. The ISO 9001 quality control system guarantees the customer excellent, long-lasting quality of products and services.



Multifunctional package

The company reserves the right to make technical changes.

GENERAL INFORMATION - VENTIL KOMPAKT

Description

Models in VENTIL KOMPAKT version are equipped with a built-in distribution pipeline and valve. This construction allows **connection of the radiator from the bottom** to the heating system. The axial distance of the bottom outlet is always 50mm and has a G 1/2" internal thread. Its construction is intended for modern heating systems with pressurized circulation of the heating medium and horizontal piping below the radiator in the floor, in the wall, or on the wall covered with a strip.

Installation to the heating system

Modern heating systems require the use of fittings, which will enable the installer to close off the radiator so that it can be changed without interrupting the operating system. The choice of fittings depend on the requirements and the material of the pipes:

1. copper, thin-wall steel, plastic or a plastic-metal-plastic combination
 - use a compact connecting fitting with a pitch of 50mm and with reduction of G 1/2" to G 3/4" by setting appropriate clamping screws according to the material and size of connecting pipes
2. black steel pipes with tubular threading
 - use 2 closing screws



Models

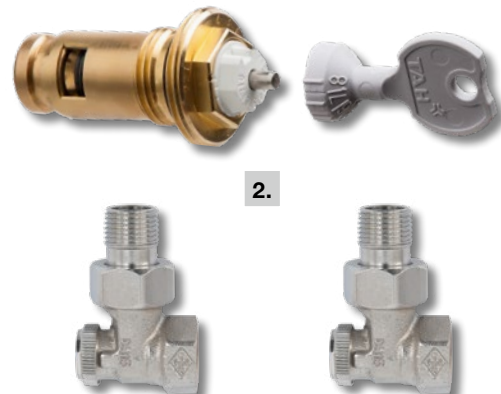
VENTIL KOMPAKT version of steel panel radiators is manufactured in several models. The construction of the models varies particularly with respect to the location of the connections and position of the connection pipes.

Model	Position of connection	Description
RADIK VKM8	middle connection and right	14
RADIK VKM8 - L	middle connection and left	15
RADIK VKM8 - U	middle connection and right / left	16
RADIK VK	only right	17
RADIK VK - Z	only right	18
RADIK VKU	right or left	19
RADIK VKL	only left	20
RADIK MATERNELLE VK	only right	21
RADIK MATERNELLE VKL	only left	22
RADIK PLAN VKM8	middle connection and right	28
RADIK PLAN VKM8 - L	middle connection and left	29
RADIK PLAN VK	only right	30
RADIK PLAN VKL	only left	31
RADIK LINE VKM8	middle connection and right	28
RADIK LINE VKM8 - L	middle connection and left	29
RADIK LINE VK	only right	30
RADIK LINE VKL	only left	31
RADIK CLEAN VKM8	middle connection and right	37
RADIK CLEAN VK	only right	38
RADIK HYGIENE VK	only right	41
RADIK COMBI VK	only right	42

Valve

At the time of assembly of the radiator a valve Heimeier n. 4360 is fitted into the built-in distribution pipeline. It is characterized by the following data:

- value of coefficient kv - see page 81
- allows presetting of water flow at 8 levels -factory preset for position eight
- to preset to another position a special key is required
- if any other preset position is needed, the installer should do it after flushing the installation but before the system is turned on
- the valve is tightened at the factory to their norm
- outside connecting thread M 30 x 1.5
- the connecting thread of the valve has a white plastic cover, which gives it protection during transportation and assembly of the radiator and at the same time can be used for setting the valve in the off or on position during assembly





Thermostatic heads

To set and regulate the temperature in a room it is necessary to fit a thermostatic head on the VENTIL KOMPAKT radiators. For direct fitting only thermostatic heads can be used with connecting thread M 30 x 1.5. Below is an overview with connecting thread M 30 x 1.5.

with connecting thread M 30 x 1.5. Below is an overview of the basic types made by different manufactures for the Czech market. For information about other makes, please, contact the manufacturer or their representative on the market concerned.

- | | | | |
|-----|-------------------------------------|-----|-----------------------------------|
| 1. | Danfoss - Type RAE-K 5034, 013G5034 | 11. | Herz - Type 1 9200 38 |
| 2. | Danfoss - Type RAX-K 013G6080 | 12. | Herz - Type 1 9260 98 |
| 3. | Danfoss - living eco® 014G0052 | 13. | Honeywell - Type Thera 4 |
| 4. | Eberle - Type TRV 4 | 14. | Honeywell - Type Thera 4 Design |
| 5. | Eberle - Type RT 414 | 15. | Honeywell - Type Thera 200 Design |
| 6. | Giacomini - Type R460H | 16. | Ivar - Type T 5000 |
| 7. | Heimeier - Type K | 17. | Ivar - Type T 3000 |
| 8. | Heimeier - Type DX | 18. | Oventrop - Type Uni LH |
| 9. | Heimeier - Type WK | 19. | Oventrop - Type Uni SH |
| 10. | Herz - Type 1 7260 98 | 20. | Siemens - Type RTN 51 |

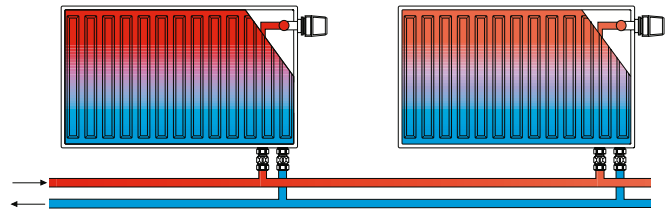


GENERAL INFORMATION - VENTIL KOMPAKT

Two-pipe heating system

When installing VENTIL KOMPAKT steel panel radiators, it is necessary to preset the valve to such a position that the radiator will perform as calculated. It is the responsibility of the installer to make sure this has been done.

At the factory the valve is preset at level 8 and after rinsing and before the start of the heating test it must be set by a special key to the desired position.



Example of calculation

Target value: level of valve setting

Values known: heat output
cooling of water
pressure loss of radiator with valve
heat capacity of water

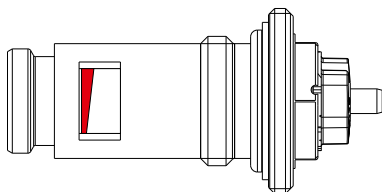
$Q = 1135 \text{ W}$
 $t_1 - t_2 = 15 \text{ K (65/50 } ^\circ\text{C)}$
 $\Delta p = 30 \text{ mbar}$
 $c = 1,163 \text{ Wh/kg.K}$

Solution: mass flow

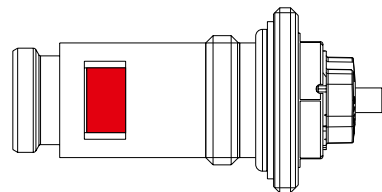
$$m = \frac{Q}{c \cdot (t_1 - t_2)} = \frac{1135}{1,163 \cdot 15} = 65 \text{ kg/h}$$

level of presetting (see diagram):

4



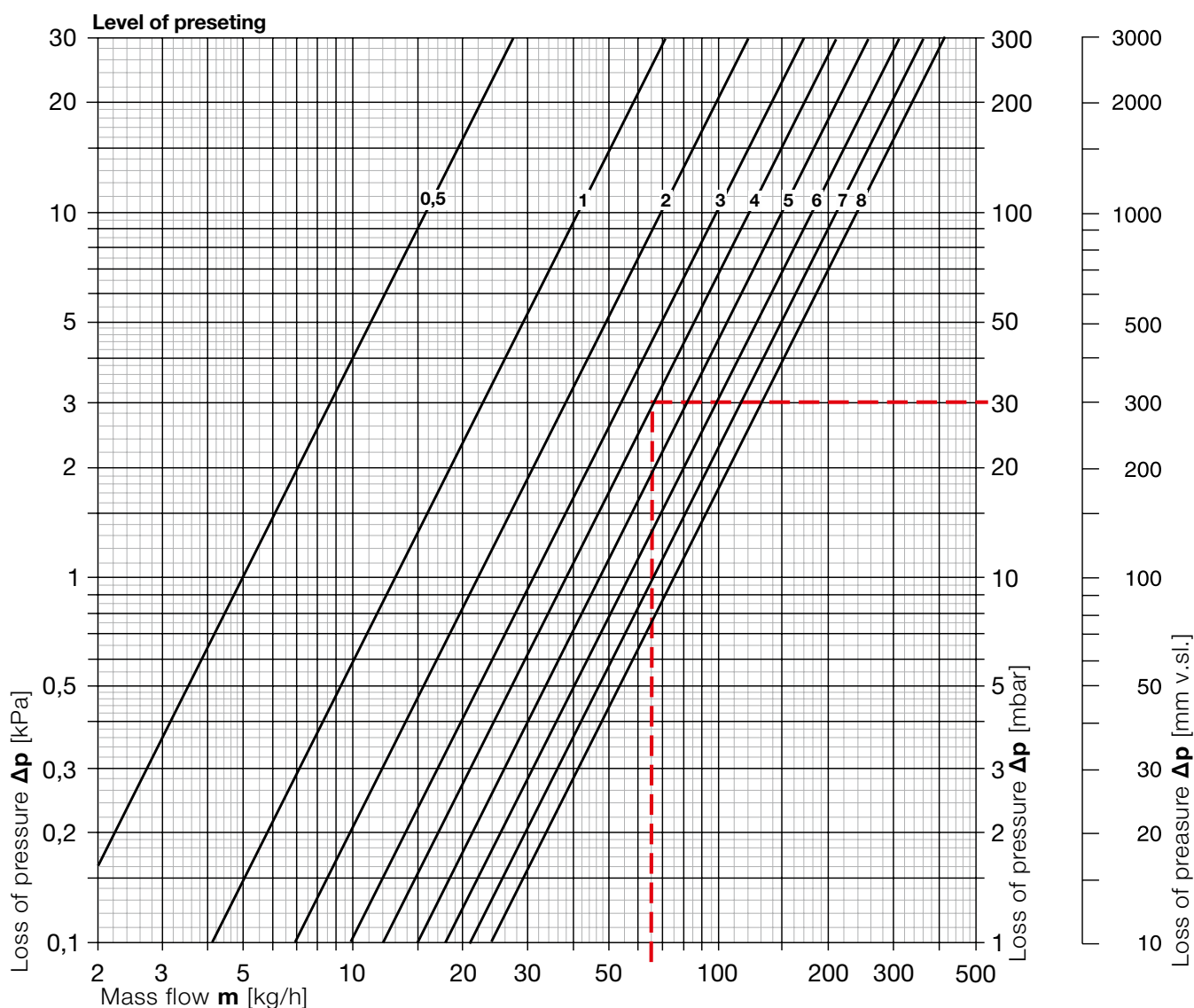
Level 4 presetting



Level 8 presetting



Two-pipe heating system



Table

Valve with thermostatic head

Level of valve setting	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
k_v [m ³ /h]	0,05	0,13	0,18	0,22	0,27	0,31	0,35	0,38	0,42	0,47	0,52	0,57	0,62	0,66	0,71	0,75

Valve without thermostatic head

Level of valve setting	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
k_{vs} [m ³ /h]	0,05	0,16	0,22	0,27	0,33	0,38	0,41	0,43	0,54	0,65	0,82	0,98	1,11	1,23	1,33	1,43

Highest allowed working temperature: 110 °C

Highest allowed working pressure: 10 bar (1,0 MPa)

The indicated values of k_v comply with proportionality interval of 2K.

SVUOM PRAHA – INFORMATION

(I.E. STATE RESEARCH INSTITUTE FOR PROTECTION OF MATERIALS)

The below given information defines conditions for appropriate using steel radiators which are protected with final surface finish in accordance with DIN 55 900 standard. It also specifies critical locations, spaces and environment limiting their applications. KORADO, a.s. (joint-stock co.) recommends the below given advice to be strictly respected at all practical applications because this will be taken into consideration in case of judgement and evaluation of any future claims and/or complaints.

POSSIBILITIES AND LIMITATIONS FOR USING STEEL RADIATORS WITH SURFACE FINISH ACCORDING TO DIN 55 900 STANDARD:

(Explicit comment from the Prague State Research Institute for Protection of Materials)

1. REQUIREMENTS FOR SURFACE FINISH OF RADIATORS

1.1 General

The requirements concerning the surface finish of radiators are defined in German standard DIN 55 900 which bears the following title: "Surface finish of radiators. Terminology, requirements, tests. Surface finish made industrially." The said standard relates to materials which are used for surface finish of radiators and it is binding for industrially made surface finish of radiators for hot water heating and low pressure steam heating (temperature of the heat-carrying medium up to 120 °C). The object of the said standard is not surface finish of radiators operating with temperatures exceeding 120 °C or which are to be used in spaces with aggressive and/or humid environment air. Kitchens, bathrooms etc. and places outside the reach of water shower spraying and toilets are not considered to be spaces with aggressive and/or humid environment air.

The DIN 55 900 standard is divided into 2 parts: DIN 55 900-1 defines the base paint layer for radiators, DIN 55 900-2 defines the final surface finish of radiators. The said standard specifies requirements on paint coating materials applicable for surface finish, i.e. both their physical-mechanical properties (adhesion, impact resistance) and corrosion resistance (resistance against condensating water).

In general terms, the said standard also requires that radiators with final paint coating must be protected appropriately for and during: transportation, storage, and mounting, and it must be possible to clean the radiators surface with common detergents (non abrasive).

The said standard is the basis for definition and assessment of the surface finish quality and for compliance with all principles therein stipulated, all of which is binding both for manufacturers and users of radiators. Beyond the scope of the standard DIN 55 900 by the user may be the cause of extinction of the producer's guarantees.

2. QUALITATIVE DESCRIPTION OF TYPICAL ENVIRONMENTS

The qualitative description of typical environments with relevant grades of corrosivity is given in the table under the following title: Qualitative description of typical environments for judgement of corrosivity grades:

Corrosivity grade	Corrosivity	Examples of typical interior environments
C-1	Very low	Heated spaces with relative low humidity (30 – 65 %) and with negligible uncleanliness, e.g. office premises, schools, museums, flats, hotels, shops, etc.
C-2	Low	Unsufficiently heated spaces with changeable temperature and with relative humidity exceeding 70%. Rare occurrence of condensation and minor uncleanliness, e.g. warehouses, corridors, gym halls, etc.
C-3	Average	Spaces with average occurrence of condensation and with average uncleanliness caused by technological or other processes, e.g. food production premises, laundry plants, breweries, dairy houses, meat packing factories, etc.
C-4	High	Spaces with high occurrence of condensation and with average uncleanliness caused by technological or other processes, e.g. industrial manufacturing premises, swimming pools, bath houses, car-washing facilities, public WCs, stables, etc..
C-5	Very High	Spaces with nearly constant occurrence of condensation and/or with high uncleanliness caused by technological processes, e.g. mining premises, underground technological spaces/rooms/halls, unaired shelters in tropical humid areas.

The radiators with surface finish complying with the DIN 55 900 standard are applicable in spaces/premises with C 1 interior air environment without limitation for a long period of service.

However, pursuant to the DIN 55 900-2 standard, the radiators must not be placed in spaces with aggressive or humid environment air (C2 – C5). Any placement of such radiators in the lower defined spaces must be considered as critical.

3. POSSIBILITIES AND LIMITATIONS FOR USING STEEL RADIATORS WITH SURFACE FINISH COMPLYING WITH DIN 55 900 STANDARD:

3.1 Spaces with possible water spray or water solutions spray

In spaces/premises with the C1 interior environment air, e.g. in flats, offices, schools and other public buildings, there are also some rooms (kitchens, bathrooms, toilets) wherein some places with corrosion activity of C2 – C5 can be found.

These are places within a direct reach of water spray or water solutions spray (e.g. places under kitchen sinks, under wash-basins, under showers, and some other places which are regularly sprayed with water). Such places are considered as spaces with humid or aggressive environment air and they are not suitable for placing radiators there even though the whole rooms in question (i.e. kitchens, bathrooms, toilets) are not considered to have aggressive or humid environment air.



(I.E. STATE RESEARCH INSTITUTE FOR PROTECTION OF MATERIALS)

That is why the guaranty claims resulting from the title of corrosion or from a change of the surface appearance cannot be applied on those radiators which are placed within reach of water spray or within reach of aggressive solutions (C2 – C5 spaces). In case it is necessary to place radiators within such a reach or in the middle of such an area, special protective measures must be applied (e.g. using zinc-coated or corrosion more resistant sheets, appropriate encasing etc.) which prevent corrosion damage of the surface finish of the radiators in question.

Radiators with surface finish complying with the DIN 55 900 standard can thus be installed in kitchens, bathrooms and toilets, provided they are located in the suitable place of the room.

3.2 Spaces which are insufficiently air-ventilated

These are rooms (spaces with C2 interior environment air and higher) with windows which are never opened or rooms without windows where no sufficient air exchange can be achieved and maintained. In such spaces, humidity from air can often condensate on turned-off and therefore cold radiators. This condensated humidity can damage the protective coating due to corrosion or blistering.

Regular air-ventilation of the heated rooms/premises is the necessary protection of the surface finish of radiators against humidity and condensated water. It is not recommended, as a kind of protection against condensated humidity, to turn off radiators which are placed in insufficiently air-ventilated rooms.

Using radiators complying with the surface finish according to DIN 55 900 inside bathrooms, toilets and laundrettes (without windows) is possible only if air-ventilation is maintained in accordance with DIN 18 017 standard, Part 1 and Part 3, wherein hour exchanges of air volumes are defined. Analogically, requirements re. temperature-humidity microclimate are given in ČSN EN ISO 7730 standard.

If no regular air-ventilation is possible, or if no permanent air exchange can be achieved, radiators must be in continuous operation so that cooling down of such surfaces is prevented where air humidity would condensate.

Users of such unaired and humid rooms (e.g bathrooms, laundrettes) must respect this fact. Closed rooms with installed radiators must be heated or air-ventilated regularly. Requirements defining air-ventilation of flats or houses are given in the following table:

Room	Air exchange rate
Kitchen	50 l/s – during operation
	12 l/s – with permanent air-ventilation or with opened windows
Bathroom, toilet	25 l/s – when being used
	10 l/s – with permanent air-ventilation or with opened windows
Garage a) separate b) shared	50 l/s – separate
	7,5 l/s car – shared

3.3 Spaces with permanent increased humidity or aggressivity of environment air

This relates to critical rooms and premises (C2 – C5), i.e. swimming pools, saunas, public toilets, car-washing facilities, laundry plants, battery recharging workshops, various premises in chemical and food processing industries, and rooms and spaces where wet cleaning is carried out by means of low or high pressure equipment etc. The radiators complying with DIN 55 900 are not suitable for application in such premises.

If the said radiators are still to be installed into such difficult conditions, it is necessary to consult the manufacturer for the best possible placement of the radiators and to set limitations for usage of these radiators with standard surface finish. Inside the above mentioned critical premises there are usually also places with the corrosion impact of grade C1, such as offices, changing rooms, workshops, dining halls etc. wherein the radiators complying with DIN 55 900 can be applied without limitations.

4. STORING OF RADIATORS AND MOUNTING OF RADIATORS

The DIN 55 900 standard requires that radiators provided with the final surface coating must be appropriately protected for and during transportation and for storage and mounting and that it must be possible to clean the radiators surface with common detergents.

The following advice is to be respected.

4.1 Transportation

During transportation but also during storage and final mounting of radiators, it is necessary to prevent any damage of the radiator coating and/or of all covering elements. No damage caused by rain or by any aggressive impurities may occur.

4.2 Storage

Radiators provided with final surface finish must be stored at the user's in dry and well air-ventilated spaces so that no corrosion damage of the radiators surface finish occurs.

4.3 Protection of the surface finish during mounting

Mounting of the radiators is to be carried out in such a manner that the protective wrapping is removed only after all building construction jobs (e.g. floor tiling, concrete works, wall painting/ decorating and cleaning) has been finished in order to prevent any damage of radiators, especially any damage of their surface finish. The radiators can be mounted and put into operation without removing the protective wrapping.

4.4 Cleaning

Radiators with final surface finish can be cleaned with such suitable water-borne detergents which are commonly used in households without any adverse impact on the painted surface. Such detergents must neither be abrasive (they would abrade the surface) nor strongly alkaline or acidic (i.e. chemically aggressive).

QUALITY AND SAFETY

Quality of steel panel radiators RADIK

The high quality of radiators has been confirmed by acquiring the right to use the national quality marks for the European markets. This marks declares that the stipulated requirements on quality of material, technology, production process and tests of radiators RADIK are strictly followed.

Our company is a proud holder of ISO 14001:2015 certification which testifies that we meet the international environmental standards. The well-established quality management system according to ISO 9001 in combination with the national quality marks guarantees the highest degree in achieving a permanent quality of products and all activities of KORADO company on European as well as world-wide markets.

• Quality management system according to ISO 9001



• Environmental management system in accordance with ISO 14001



• Quality mark RAL for the German market

is granted for the following range of panel radiators RADIK



Reg. No. GZ	Model	Type
0320	RADIK HYGIENE	Type 10
	RADIK HYGIENE VK	Type 10
0321	RADIK HYGIENE	Type 20S
	RADIK HYGIENE VK	Type 20S
0322	RADIK HYGIENE	Type 30
	RADIK HYGIENE VK	Type 30
0457	RADIK COMBI VK	Type 22
	RADIK VKM8	Type 10
0565	RADIK VKM8 - L	Type 10
	RADIK VKM8	Type 11
0566	RADIK VKM8 - L	Type 11
	RADIK VKM8	Type 20
0567	RADIK VKM8 - L	Type 20
	RADIK VKM8 - U	Type 20
0568	RADIK VKM8	Type 21
	RADIK VKM8 - L	Type 21
0569	RADIK VKM8 - U	Type 21
	RADIK VKM8	Type 22
0570	RADIK VKM8 - L	Type 22
	RADIK VKM8 - U	Type 22
0571	RADIK VKM8	Type 33
	RADIK VKM8 - L	Type 33
0572	RADIK VKM8 - U	Type 33
	RADIK KLASIK	Type 10
0573	RADIK VK	Type 10
	RADIK VKL	Type 10
0574	RADIK CLEAN	Type 10
	RADIK CLEAN VK	Type 10
0575	RADIK KLASIK	Type 20
	RADIK VK	Type 20
0576	RADIK CLEAN	Type 20S
	RADIK CLEAN VK	Type 20S
0577	RADIK CLEAN	Type 30
	RADIK CLEAN VK	Type 30



Reg. No. GZ	Model	Type
0578	RADIK PLAN KLASIK	Type 11
	RADIK LINE KLASIK	Type 11
	RADIK PLAN VK	Type 11
	RADIK LINE VK	Type 11
	RADIK PLAN VKL	Type 11
	RADIK LINE VKL	Type 11
0580	RADIK PLAN KLASIK	Type 21
	RADIK LINE KLASIK	Type 21
	RADIK PLAN VK	Type 21
	RADIK LINE VK	Type 21
	RADIK PLAN VKL	Type 21
	RADIK LINE VKL	Type 21
0581	RADIK PLAN KLASIK	Type 22
	RADIK LINE KLASIK	Type 22
	RADIK PLAN VK	Type 22
	RADIK LINE VK	Type 22
	RADIK PLAN VKL	Type 22
	RADIK LINE VKL	Type 22
0582	RADIK PLAN KLASIK	Type 33
	RADIK LINE KLASIK	Type 33
	RADIK PLAN VK	Type 33
	RADIK LINE VK	Type 33
	RADIK PLAN VKL	Type 33
	RADIK LINE VKL	Type 33
	RADIK PLAN VKM8	Type 33
	RADIK PLAN VKM8 - L	Type 33
	RADIK LINE VKM8	Type 33
	RADIK LINE VKM8 - L	Type 33
0583	RADIK PLAN VKM8	Type 11
	RADIK PLAN VKM8 - L	Type 11
	RADIK LINE VKM8	Type 11
	RADIK LINE VKM8 - L	Type 11
0584	RADIK PLAN VKM8	Type 20
	RADIK PLAN VKM8 - L	Type 20
	RADIK LINE VKM8	Type 20
0585	RADIK LINE VKM8 - L	Type 20
	RADIK PLAN VKM8	Type 21
	RADIK PLAN VKM8 - L	Type 21
	RADIK LINE VKM8	Type 21
0586	RADIK LINE VKM8 - L	Type 21
	RADIK PLAN VKM8	Type 22
	RADIK PLAN VKM8 - L	Type 22
	RADIK LINE VKM8	Type 22
1120	RADIK LINE VKM8 - L	Type 22
	RADIK PLAN VKM8	Type 22
	RADIK PLAN VKM8 - L	Type 22
	RADIK LINE VKM8	Type 22
1121	RADIK KLASIK	Type 11
	RADIK VK	Type 11
	RADIK VKL	Type 11
	RADIK KLASIK	Type 21
	RADIK VK	Type 21
1122	RADIK VKU	Type 21
	RADIK VKL	Type 21
	RADIK KLASIK	Type 22
	RADIK VK	Type 22
	RADIK VKU	Type 22
1123	RADIK VKL	Type 22
	RADIK KLASIK	Type 33
	RADIK VK	Type 33
	RADIK VKU	Type 33
	RADIK VKL	Type 33
1182	RADIK KLASIK	Type 33
	RADIK MATERNELLE VK	Type 32
	RADIK MATERNELLE VKL	Type 32

Steel panel radiators RADIK - safety and conformity with the European directives and standards

- **European standard EN 442 for radiators**
- by using **CE mark** the producer confirms that the steel panel radiators **RADIK** are in conformity with the characteristics stated in the Declaration of Performance issued in conformity with the directive of EP and the Council (EU) No. 305/2011. This conformity was approved by the notified body No.1015, Strojářenský zkušební ústav, s.p. Brno.



DATA FOR PLACING ORDER

Steel panel radiators	Version	Model	Type	Code for ordering
RADIK	VENTIL KOMPAKT	☞ RADIK VKM8	10 VKM8	10HHHLLL-S0-0010
			11 VKM8	11HHHLLL-S0-0010
			20 VKM8	20HHHLLL-S0-0010
			21 VKM8	21HHHLLL-S0-0010
			22 VKM8	22HHHLLL-S0-0010
			33 VKM8	33HHHLLL-S0-0010
		☞ RADIK VKM8 - L	10 VKM8-L	10HHHLLL-T0-0010
			11 VKM8-L	11HHHLLL-T0-0010
			20 VKM8-L	20HHHLLL-T0-0010
			21 VKM8-L	21HHHLLL-T0-0010
			22 VKM8-L	22HHHLLL-T0-0010
			33 VKM8-L	33HHHLLL-T0-0010
		☞ RADIK VKM8 - U	20 VKM8-U	20HHHLLL-SU-0010
			21 VKM8-U	21HHHLLL-SU-0010
			22 VKM8-U	22HHHLLL-SU-0010
			33 VKM8-U	33HHHLLL-SU-0010
		☞ RADIK VK	10 VK	10HHHLLL-60-0010
			11 VK	11HHHLLL-60-0010
	20 VK		20HHHLLL-60-0010	
	21 VK		21HHHLLL-60-0010	
	22 VK		22HHHLLL-60-0010	
	33 VK		33HHHLLL-60-0010	
	☞ RADIK VK - Z	10 VK	10HHHLLL-60Z0010	
		11 VK	11HHHLLL-60Z0010	
		21 VK	21HHHLLL-60Z0010	
		22 VK	22HHHLLL-60Z0010	
	☞ RADIK VKL	10 VKL	10HHHLLL-E0-0010	
		11 VKL	11HHHLLL-E0-0010	
		21 VKL	21HHHLLL-E0-0010	
		22 VKL	22HHHLLL-E0-0010	
	☞ RADIK VKU	33 VKL	33HHHLLL-E0-0010	
		21 VKU	21HHHLLL-6U-0010	
		22 VKU	22HHHLLL-6U-0010	
	☞ RADIK MATERNELLE VK	33 VKU	33HHHLLL-6U-0010	
		32 VK	32HHHLLL-6S-0010	
		☞ RADIK MATERNELLE VKL	32 VKL	32HHHLLL-ES-0010
	☞ RADIK COMBI VK	22 COMBI VK	22HHHLLL-N0-0010	
	KLASIK	☞ RADIK KLASIK	10	10HHHLLL-50-0010
			11	11HHHLLL-50-0010
			20	20HHHLLL-50-0010
			21	21HHHLLL-50-0010
			22	22HHHLLL-50-0010
			33	33HHHLLL-50-0010
		☞ RADIK KLASIK - R	20 R	20HHHLLL-R0-0010
			21 R	21HHHLLL-R0-0010
22 R			22HHHLLL-R0-0010	
33 R			33HHHLLL-R0-0010	
☞ RADIK KLASIK - Z		10	10HHHLLL-50Z0010	
		11	11HHHLLL-50Z0010	
		21	21HHHLLL-50Z0010	
		22	22HHHLLL-50Z0010	
		33	33HHHLLL-50Z0010	

☞ Note: for the scheme of the order code see please page 88

DATA FOR PLACING ORDER



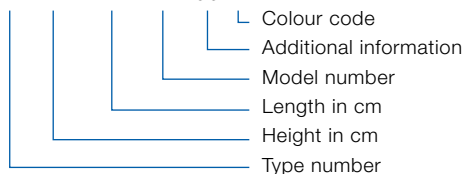
Steel panel radiators	Version	Model	Type	Code for ordering
RADIK	PLAN	☞ RADIK PLAN VKM8	11 PLAN VKM8	11HHHLLL-SOP0010
			20 PLAN VKM8	20HHHLLL-SOP0010
			21 PLAN VKM8	21HHHLLL-SOP0010
			22 PLAN VKM8	22HHHLLL-SOP0010
			33 PLAN VKM8	33HHHLLL-SOP0010
		☞ RADIK PLAN VKM8 - L	11 PLAN VKM8 - L	11HHHLLL-TOP0010
			20 PLAN VKM8 - L	20HHHLLL-TOP0010
			21 PLAN VKM8 - L	21HHHLLL-TOP0010
			22 PLAN VKM8 - L	22HHHLLL-TOP0010
			33 PLAN VKM8 - L	33HHHLLL-TOP0010
		☞ RADIK PLAN VK	11 PLAN VK	11HHHLLL-60P0010
			21 PLAN VK	21HHHLLL-60P0010
			22 PLAN VK	22HHHLLL-60P0010
		☞ RADIK PLAN VKL	11 PLAN VKL	11HHHLLL-E0P0010
			21 PLAN VKL	21HHHLLL-E0P0010
			22 PLAN VKL	22HHHLLL-E0P0010
		☞ RADIK PLAN KLASIK	11 PLAN	11HHHLLL-50P0010
			21 PLAN	21HHHLLL-50P0010
	22 PLAN		22HHHLLL-50P0010	
	☞ RADIK PLAN KLASIK-R	20 PLAN R	20HHHLLL-R0P0010	
		21 PLAN R	21HHHLLL-R0P0010	
		22 PLAN R	22HHHLLL-R0P0010	
		33 PLAN R	33HHHLLL-R0P0010	
	LINE	☞ LINE VKM8	11 LINE VKM8	11HHHLLL-SOL0010
			20 LINE VKM8	20HHHLLL-SOL0010
			21 LINE VKM8	21HHHLLL-SOL0010
			22 LINE VKM8	22HHHLLL-SOL0010
			33 LINE VKM8	33HHHLLL-SOL0010
		☞ LINE VKM8 - L	11 LINE VKM8	11HHHLLL-TOL0010
			20 LINE VKM8	20HHHLLL-TOL0010
			21 LINE VKM8	21HHHLLL-TOL0010
			22 LINE VKM8	22HHHLLL-TOL0010
			33 LINE VKM8	33HHHLLL-TOL0010
		☞ RADIK LINE VK	11 LINE VK	11HHHLLL-60L0010
			21 LINE VK	21HHHLLL-60L0010
			22 LINE VK	22HHHLLL-60L0010
			33 LINE VK	33HHHLLL-60L0010
		☞ RADIK LINE VKL	11 LINE VKL	11HHHLLL-E0L0010
			21 LINE VKL	21HHHLLL-E0L0010
			22 LINE VKL	22HHHLLL-E0L0010
			33 LINE VKL	33HHHLLL-E0L0010
	☞ RADIK LINE KLASIK	11 LINE KLASIK	11HHHLLL-50L0010	
21 LINE KLASIK		21HHHLLL-50L0010		
22 LINE KLASIK		22HHHLLL-50L0010		
33 LINE KLASIK		33HHHLLL-50L0010		
☞ RADIK LINE KLASIK - R	20 LINE R	20HHHLLL-R0L0010		
	21 LINE R	21HHHLLL-R0L0010		
	22 LINE R	22HHHLLL-R0L0010		
	33 LINE R	33HHHLLL-R0L0010		
VERTIKAL	☞ RADIK PLAN VERTIKAL - M	10	10HHHLLL-V0P0010	
	20	20HHHLLL-V0P0010		
HYGIENE	☞ RADIK LINE VERTIKAL - M	10	10HHHLLL-V0L0010	
		20	20HHHLLL-V0L0010	
		30	30HHHLLL-V0L0010	
	☞ RADIK HYGIENE VK	10 VK	10HHHLLL-6CH0010	
		20S VK	20HHHLLL-6CH0010	
		30 VK	30HHHLLL-6CH0010	
	☞ RADIK HYGIENE	10	10HHHLLL-5CH0010	
		20S	20HHHLLL-5CH0010	
		30	30HHHLLL-5CH0010	
	☞ RADIK CLEAN VKM8	10 CLEAN VKM8	10HHHLLL-S0-0010	
		20SCLEAN VKM8	20HHHLLL-SC-0010	
		30 CLEAN VKM8	30HHHLLL-SC-0010	
☞ RADIK CLEAN VK		10 CLEAN VK	10HHHLLL-60-0010	
		20SCLEAN VK	20HHHLLL-6C-0010	
		30 CLEAN VK	30HHHLLL-6C-0010	
☞ RADIK CLEAN	10 CLEAN	10HHHLLL-50-0010		
	20SCLEAN	20HHHLLL-5C-0010		
	30 CLEAN	30HHHLLL-5C-0010		

☞ Note: for the scheme of the order code see please page 88

ORDER CODE

Table for creation of a code

TTHHLL-MMM00XX



- Colour code
- Additional information
- Model number
- Length in cm
- Height in cm
- Type number

Example for creation of a code

RADIK VK steel panel radiator.

type 22, height H = 500 mm, length L = 1800 mm, Colour White RAL 9016

General structure
Correct code until

TTHHLL-MMM00XX
22050180-60-0010

SERVICE

Service for business partners and customers

An expert for every situation – that is one of the basic ideas of the philosophy of the company KORADO with regard to service. The company KORADO pays great attention to communication with its partners on the market. It offers designers, merchants, and installers of heating systems broad support and complete technical documentation and information for daily work. The goal is clear and comprehensible – to create conditions allowing individual professional groups to design, sell, and fit RADIK, KORALUX and KORATHERM radiators so that the final customer can take advantage of their features to a full extent. To fulfill this philosophy, the company KORADO offers:

- technical catalogues for RADIK steel panel radiators, KORALUX towel rail radiators, KORATHERM flat panel radiators, KORAMONT mounting technology catalogue
- range of brochures and information leaflets for individual models of radiators, supplements and accessories
- Internet web page <http://www.korado.com>
- e-mail info@korado.cz
- professional lectures at the company training center
- professional consulting at specialized exhibitions in the Czech Republic and abroad
- The up-to-date offer is available and regularly updated on www.korado.com



Description

Connection fittings HM have been specially developed for steel panel radiators RADIK MM and RADIK PLAN (LINE) VERTIKAL - M, i.e. radiators without valve and with bottom connection with a Connecting pitch of 50 mm. They can also be used for all other KORALUX and KORATHERM radiators with the same type of connection to the heating system.

It is the integrated fittings, i.e. the body of the fittings has an integrated valve and an adjustable screw connection so it is possible to disconnect the radiator from the heating system without interrupting operation. **Due to its special fittings design, the outlets for connection of inlet and return piping may be chosen freely.**

The fittings enable to preset the flow rate of the radiator, its closure at the inlet and outlet and thanks to the thermostatic head also regulation of the heat output of the radiator in relation to the temperature in the heated room. The presetting level is given by the number of turns on the plug of the adjustment screw connection from the "closed" position. Presetting of the regulation level is reproducible, i.e. when the flow is closed and then opened again, there is no change in the set regulation level.

Delivery equipment

The following parts of HM fittings are delivered as standard:

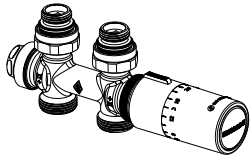
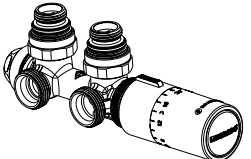
- integrated fittings in straight or angular design
- thermostatic head in white or chrome
- 2x reduction G 1/2" to G 3/4" with sealing "O" ring
- 2x flat sealing pieces from EPDM rubber
- assembly and operating instructions

Subject to special request, the following can be supplied:

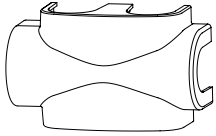
- universal cover for the fittings in white
- universal cover for the fittings in chrome

How to order

HM Fitting

	Design	Colour of the thermostatic head	Order number
	straight	white	Z-D040
		chrome	Z-D041
	angular	white	Z-D042
		chrome	Z-D043

HM Fitting Cover

	universal	white	Z-D027
		chrome	Z-D028

Use

The fittings are designed for two-pipe pressurized heating systems. They can be used for the following range of KORADO radiators:

Product range	Radiator model
RADIK	RADIK PLAN VERTIKAL - M
	RADIK LINE VERTIKAL - M
	RADIK PREMIUM (for bottom connection only)
	RADIK PLAN PREMIUM (for bottom connection only)
	RADIK LINE PREMIUM (for bottom connection only)
KORALUX	KORALUX LINEAR MAX - M
	KORALUX LINEAR COMFORT - M
	KORALUX LINEAR CLASSIC - M
	KORALUX LINEAR EXCLUSIVE - M
	KORALUX RONDO MAX - M
KORATHERM	KORALUX RONDO COMFORT - M
	KORALUX RONDO CLASSIC - M
	KORALUX RONDO EXCLUSIVE - M
	KORALUX NEO
	KORATHERM HORIZONTAL - M
KORATHERM	KORATHERM VERTIKAL - M
	KORATHERM REFLEX - M
	KORATHERM AQUAPANEL

Note:

When using the stand brackets Z-U580, Z-U581 with radiator model KORATHERM HORIZONTAL - M it is possible to use the HM Connection Fittings from the length L = 700 mm.

Way of connection

Connection to the heating system is accomplished using a G 3/4" external thread and a clamp connection can be used for copper, plastic, precision steel or multilayer pipes.

Connection of the fittings to the radiator is accomplished with the aid of a self-sealing double nipple (reduction) G 1/2" to G 3/4", which is delivered as standard.

The valve on the fittings is equipped with M 30 x 1.5 external connection threading for mounting of the thermostatic head, which is delivered as standard with the HM Connection fitting.

ACCESSORIES

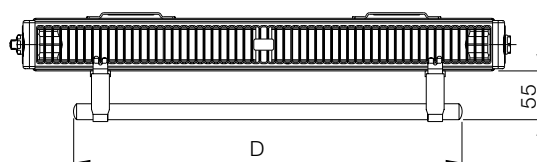
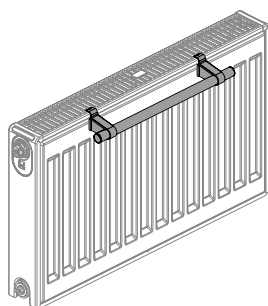
Towel dryer for RADIK



- designed to be used for all types of the following models of panel radiators RADIK:

RADIK VKM8	RADIK KLASIK
RADIK VKM8 - L	RADIK KLASIK - R
RADIK VKM8 - U	RADIK CLEAN VKM8
RADIK VK	RADIK CLEAN VK
RADIK VKL	RADIK CLEAN
RADIK VKU	RADIK COMBI VK

- easy mounting and demounting
- no need to remove the top grill
- metal parts painted in white
- the towel dryer length **D** is not dependent on the radiator length **L**
- max. vertical load of the towel dryer is **50 N** up to 5 kg



Type	Towel dryer length D [mm]	Order number
Towel dryer for RADIK 600	600	Z-D030
Towel dryer for RADIK 900	900	Z-D031
Towel dryer for RADIK 1200	1200	Z-D032

Radiator brush



- intended for cleaning all radiators KORADO
- easy and quick cleaning
- no need to remove the top grill
- bristle material – goat hair



Type	Order number
Radiator brush	Z-D029

COLOUR CARD



SATIN GLOSS

code 10
White RAL 9016*



code 14
Jasmine



code 35
Silber RAL 9006



HIGH GLOSS

code 16
Bahama



code 22
Manhattan



code 26
Pergamon



code 32
Anthrazit Metallic



code 37
Red RAL 3001



code 39
Black RAL 9005



code 45
Pearl Brown



MATTE

code 47
RAL 9007



code 48
RAL 9006



code 49
RAL 7024



code 51
RAL 7016



code 54
RAL 7015



code 57
RAL 7040



DEEP MATTE

code 40
Alloy Black



code 42
Gold



code 58
Black Matt



PLAN SET / LINE SET - available versions of detachable front panels

The models RADIK can be complemented with a new front panel in the version PLAN or LINE in basic white RAL 9016. Front panels are available also in other colours from RAL colour range with an extra charge. For more information see please www.korado.com or our technical brochure



PLAN SET



LINE SET

Notice:

The colour of the radiator may vary in comparison with the colour shown in the colour card. The standard paint finish is RAL 9016, other colours from KORADO colour range with an extra charge 30 %. Radiators can be ordered also in other colours from RAL colour range with an extra charge 40 %.

NOTES



NOTES



www.korado.com



The quality marks are valid for the range listed on pages 84 and 85.



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