

RADIK



steel panel radiators



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The new plant KORADO is the most modern factory for the production of radiators in Europe thanks to its up-to date production facility, technology and organization. Its modern and sophisticated organization 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. obtained the ISO 9001 quality certificate in 1997 and currently already holds the ISO 9001:2008.



The RADIK 02/2017 catalogue replaces all previous issues.



RADIK KLASIK

- with right or left side connection
(see page 20)



RADIK KLASIK - R

- for a quick replacement of an old sectional radiator
(see page 21)



RADIK KLASIK - Z

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



RADIK MM

- with bottom middle connection without insert valve
(see page 25)



RADIK VK

- with bottom right connection
(see page 26)



RADIK VK - Z

- zinc-coated radiator
- with bottom right connection
(see page 27)



RADIK VKU

- enables both right and left bottom connection
(see page 28)



RADIK VKL

- with bottom left connection
(see page 29)



RADIK COMBI VK

- for combined heating
- with bottom right connection
(see page 30)



RADIK MATERNELLE VK

- for nursery schools
- with bottom right connection
(see page 32)



RADIK MATERNELLE VKL

- for nursery schools
- with bottom left connection
(see page 33)



RADIK VKM

- with bottom middle connection
(see page 34)



RADIK VKM - U

- with bottom middle connection
- with regulation valve on the right or left side
(see page 35)



RADIK VKM - L

- enables bottom middle connection
- with regulation valve on the left side
(see page 36)



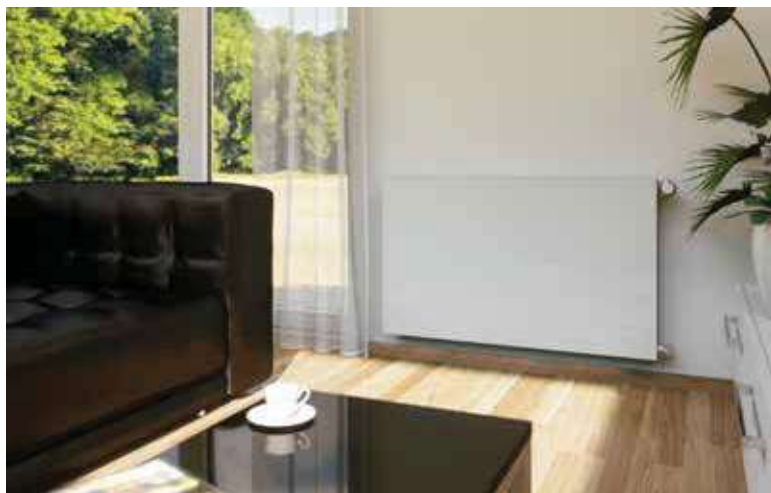
RADIK VKM8

- universal radiator
(see page 37)



RADIK PLAN KLASIK

- with a flat front panel and side connection
(see page 38)



RADIK LINE KLASIK

- with a flat front panel with fine horizontal grooves
(see page 38)



RADIK PLAN KLASIK – R

- with flat front panel
- for replacement of a sectional radiator
(see page 39)



RADIK LINE KLASIK – R

- with flat front panel with fine horizontal grooves
- for replacement of a sectional radiator
(see page 39)



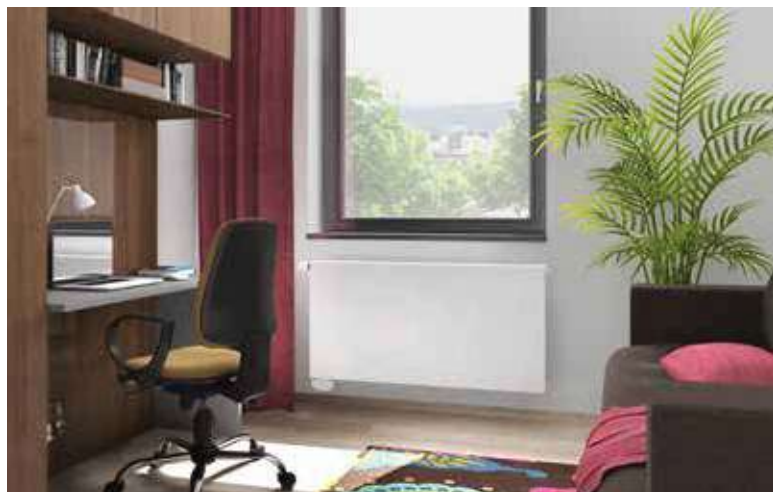
RADIK PLAN VK

- with a flat front panel and bottom right connection
- with bottom right connection
(see page 40)



RADIK LINE VK

- with a flat front panel with fine horizontal grooves
- with bottom right connection
(see page 40)



RADIK PLAN VKL

- with a flat front panel and bottom right connection
- with bottom left connection
(see page 41)



RADIK LINE VKL

- with a flat front panel with fine horizontal grooves
(see page 41)



RADIK PLAN VKM

- with a flat front panel and bottom middle connection
- with bottom middle connection
(see page 42)



RADIK LINE VKM

- with a flat front panel with fine horizontal grooves
- with bottom middle connection
(see page 42)



RADIK PLAN VKM8

- universal radiator
- with flat front panel
(see page 43)



RADIK LINE VKM8

- universal radiator
- with flat front panel with fine horizontal grooves
(see page 43)



RADIK PLAN VERTIKAL - M

- with bottom middle connection and flat front panel
- with bottom middle connection
(see page 44)



RADIK LINE VERTIKAL - M

- with bottom middle connection and grooved front panel
- with bottom middle connection
(see page 45)



RADIK HYGIENE

- enables right or left side connection
(see page 47)



RADIK HYGIENE VK

- with bottom right connection
(see page 48)



RADIK CLEAN

- enables right or left bottom connection
(see page 49)



RADIK CLEAN VK

- with bottom right connection
(see page 50)



RADIK STEEL PANEL RADIATORS IN HEIGHT 200 mm

- for rooms with low window sills
(see page 51)



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ADVANTAGES OF RADIATORS

- made to last
- [extended warranty](#)
- suitable for heating with renewable energy sources
- [suitable for low temperature heating systems](#)
- suitable for natural gas heating
- [suitable for wood, coal, briquette and wood pellets heating](#)
- high resistance to excess pressure
- [excellent finish](#)
- multifunction packaging
- [low water content](#)
- low weight
- [ISO 9001:2008 guarantee of quality of products and services](#)
- recyclable

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 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 1 mmol/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:

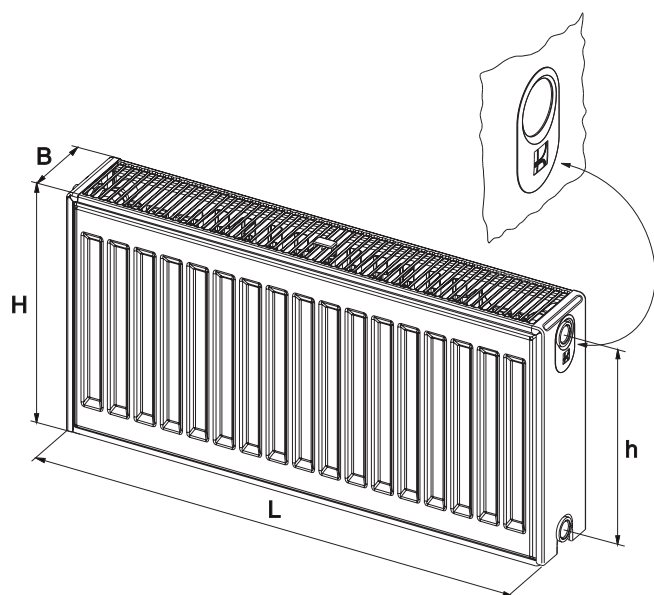
- KLASIK
 - radiators with side connections and a profiled front panel.
- VENTIL KOMPAKT
 - radiators with built-in inside distribution tappings and valve, with bottom connections and profiled front panel.
- MM
 - radiators without valve, with middle connection and profiled front panel
- PLAN
 - radiators 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

- KLASIK version
 - model RADIK KLASIK
 - model RADIK KLASIK - R
 - model RADIK KLASIK - Z
- VENTIL KOMPAKT version
 - model RADIK VK
 - model RADIK VKU
 - model RADIK VKL
 - model RADIK VKM
 - model RADIK VKM - L
 - model RADIK VKM-U
 - model RADIK VKM8
 - model RADIK MATERNELLE VK
 - model RADIK MATERNELLE VKL
 - model RADIK COMBI VK
 - model RADIK VK - Z
- MM version
 - model RADIK MM
- PLAN version
 - model RADIK PLAN KLASIK
 - model RADIK PLAN KLASIK-R
 - model RADIK PLAN VK
 - model RADIK PLAN VKL
 - model RADIK PLAN VKM
 - model RADIK PLAN VKM8
- LINE version
 - model RADIK LINE KLASIK
 - model RADIK LINE KLASIK-R
 - model RADIK LINE VK
 - model RADIK LINE VKL
 - model RADIK LINE VKM
 - model RADIK LINE VKM8
- VERTIKAL version
 - model RADIK PLAN VERTIKAL - M
 - model RADIK LINE VERTIKAL - M
- HYGIENE version
 - model RADIK HYGIENE
 - model RADIK HYGIENE VK
 - model RADIK CLEAN
 - model RADIK CLEAN 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
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:

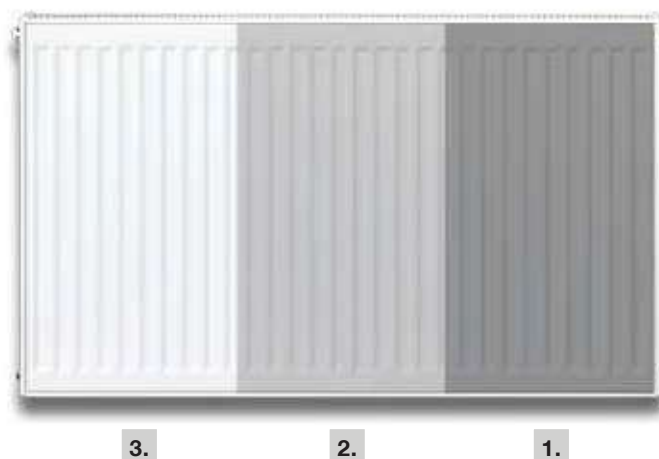
- long-term corrosion resistance and mechanical durability
- fine-quality finish
- hygienic surface

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), BSI (England) - see p. 71

Related norms

ČSN EN 442
DIN EN 442
ČSN 06 1101
ČSN 06 1122
ČSN 06 0310
ČSN 07 7401
DIN 55 900

Packaging

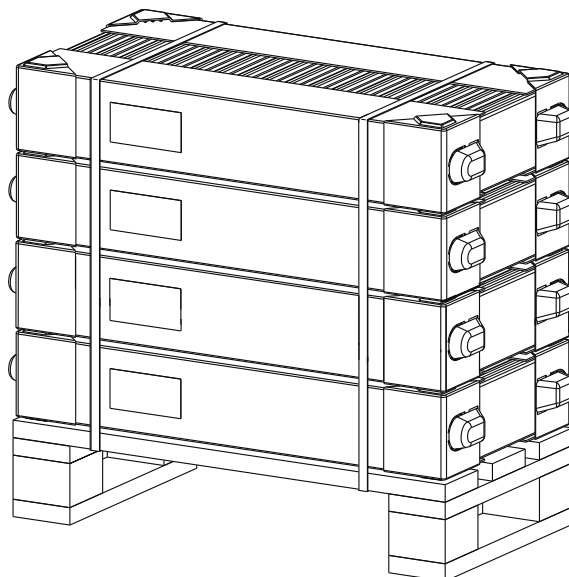
All steel panel radiators are delivered in uniform packaging, which consists of:

- 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), BSI (England) and NF (France) - see p. 71.

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 9001:2008 quality control system guarantees the customer excellent, long-lasting quality of products and services.

Multifunctional package



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 50 mm 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 50 mm 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 VK	only right	on page 26
RADIK VK - Z	only right	on page 27
RADIK VKU	right or left	on page 28
RADIK VKL	only left	on page 29
RADIK VKM	only middle connection	on page 34
RADIK VKM-U	only middle connection	on page 35
RADIK VKM - L	only middle connection	on page 36
RADIK VKM8	middle connection and right/ left	on page 37
RADIK COMBI VK	only right	on page 30
RADIK MATERNELLE VK	only right	on page 32
RADIK MATERNELLE VKL	jen vlevo	on page 33
RADIK PLAN VK	only right	on page 40
RADIK PLAN VKL	only left	on page 41
RADIK PLAN VKM	only middle connection	on page 42
RADIK LINE VK	only right	on page 40
RADIK LINE VKL	only left	on page 41
RADIK LINE VKM	only middle connection	on page 42
RADIK HYGIENE VK	only right	on page 48
RADIK CLEAN VK	only right	on page 50

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 17
- 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
2. Danfoss - Type RAX-K 013G6080
3. Danfoss - *living eco*® 014G0052
4. Eberle - Type TRV 4
5. Eberle - Type RT 414
6. Giacomini - Type R460H
7. Heimeier - Type K
8. Heimeier - Type DX
9. Heimeier - Type WK
10. Herz - Type 1 7260 98

11. Herz - Type 1 9200 38
12. Herz - Type 1 9260 98
13. Honeywell - Type Thera 4
14. Honeywell - Type Thera 4 Design
15. Honeywell - Type Thera 200 Design
16. Ivar - Type T 5000
17. Ivar - Type T 3000
18. Oventrop - Type Uni LH
19. Oventrop - Type Uni SH
20. Siemens - Type RTN 51

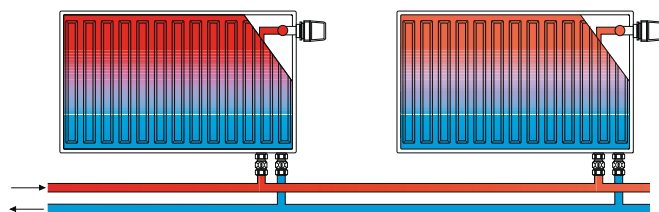


GENERAL INFORMATION - VENTIL KOMPAKT

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

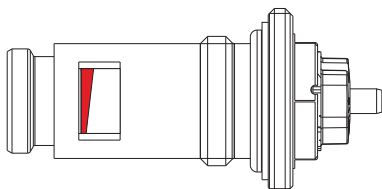
Values known: heat output
cooling of water
pressure loss of radiator with valve
heat capacity of water

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

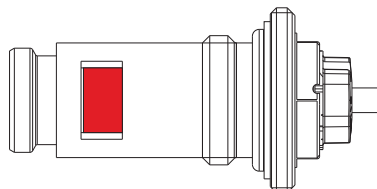
Solution: mass flow

level of presetting (see diagram):

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



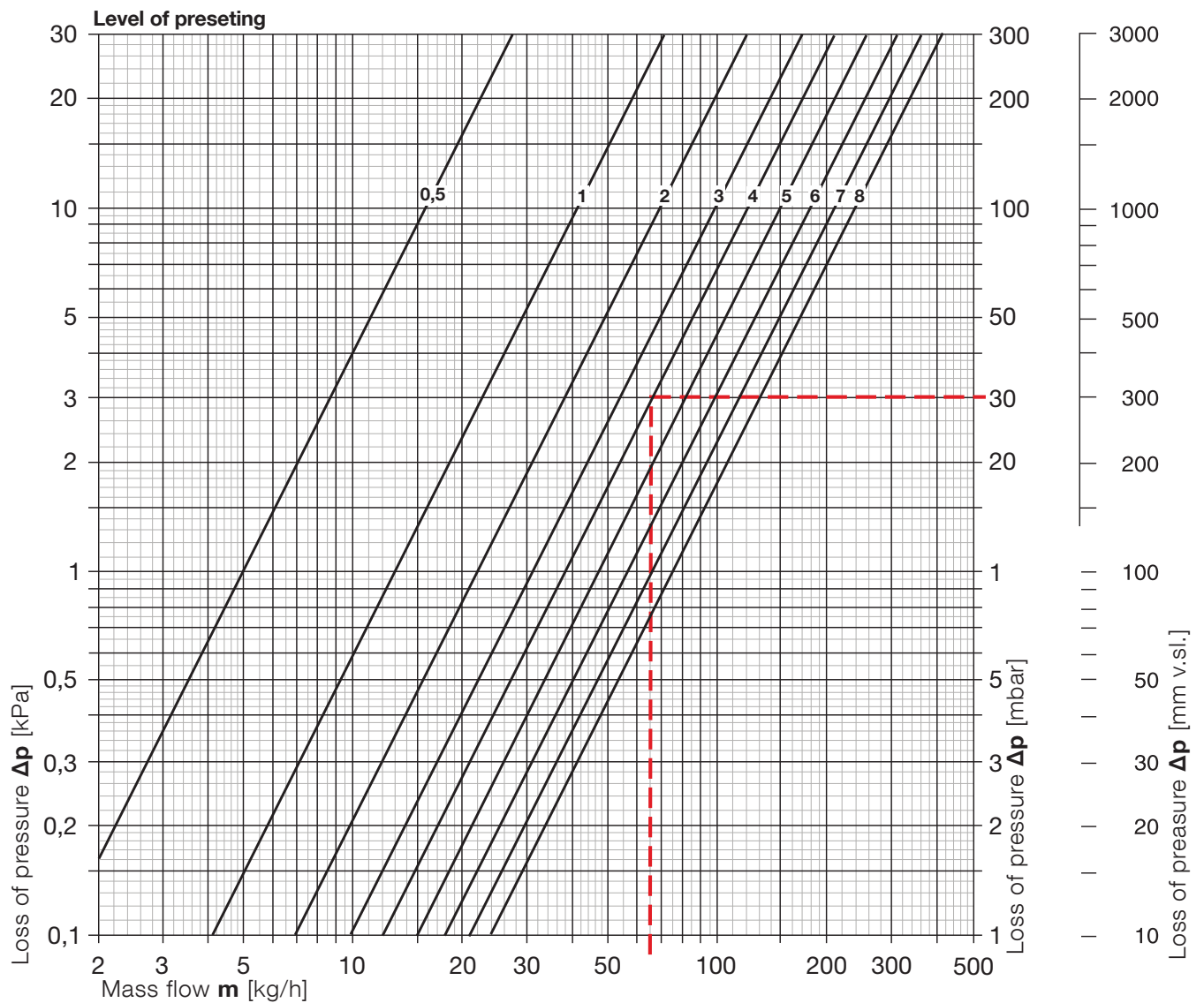
Level 4 presetting



Level 8 presetting



Two-pipe heating system



Table

Radiators in version VENTIL KOMPAKT without connecting fittings		Level of valve setting									Highest allowed working tempera- ture [°C]	Highest allowed working pressure [bar]
		0,5	1	2	3	4	5	6	7	8		
Valve with thermostatic head	k_v [m³/h]	0,05	0,13	0,22	0,31	0,38	0,47	0,57	0,66	0,75	110	10
Valve without thermostatic head	k_{vs} [m³/h]	0,05	0,16	0,27	0,38	0,43	0,65	0,98	1,23	1,43		

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

Conversion table for valve setting

Setting of 8-level valve following a calculation made for a 6-level valve.

	Level of valve setting					
6-level valve	1	2	3	4	5	6
8-level valve	0,5	1	2,5	4,5	6,5	8

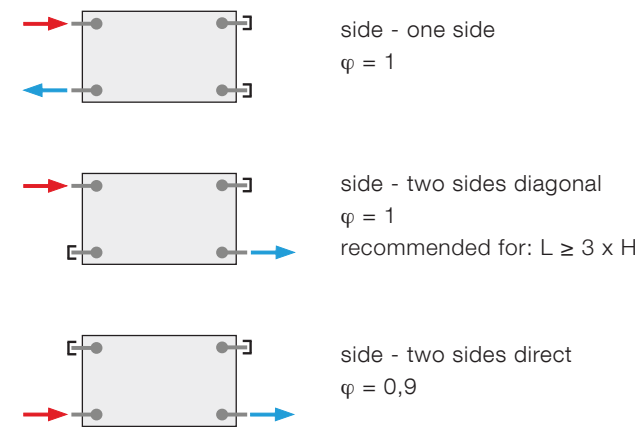
RADIK KLASIK



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	$h = H - 54 \text{ mm}$
Connecting thread	4 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system

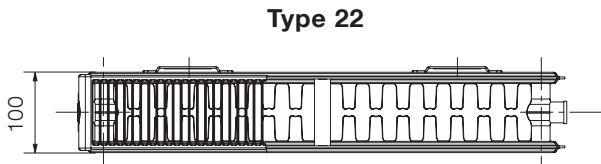
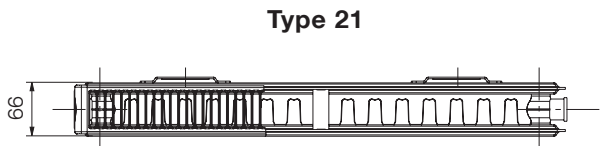
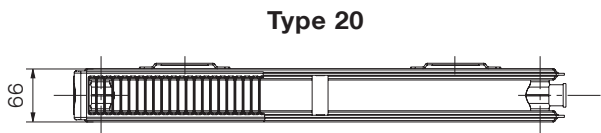
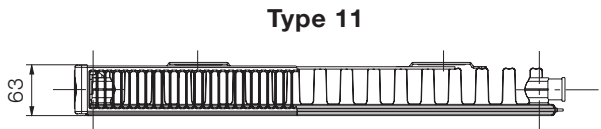
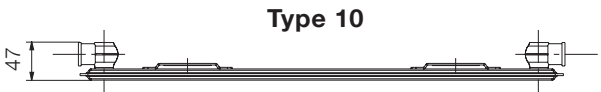
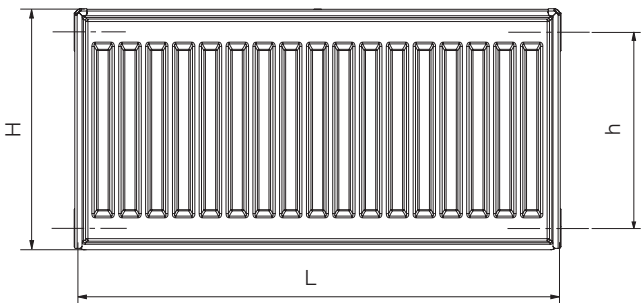


Description

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 1800 mm long and longer have six welded hangers.

Overview of types





Description

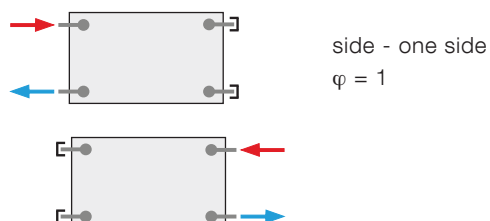
The **RADIK KLASIK - R** model is a steel panel radiator in KLASIK design, modified for swift **replacement of cast-iron or steel sectional radiators with a connecting pitch of 500 mm**.

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.

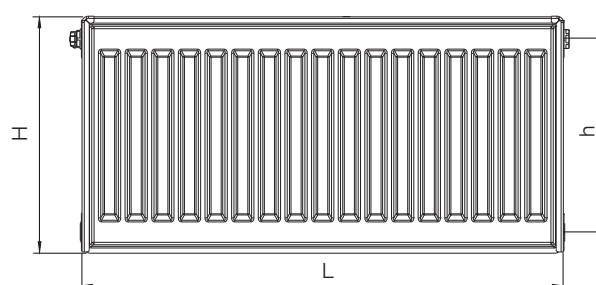
Technical data

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
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system



Overview of types



Type 20 R



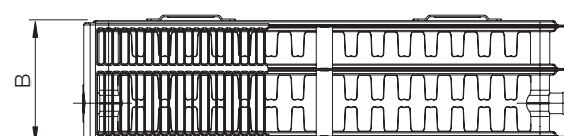
Type 21 R



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

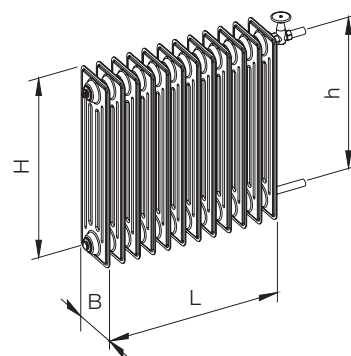
Sectional radiators							[mm]	Steel panel radiator			
1.	cast-iron				steel			RADIK KLASIK - R			
2.	575 ÷ 610				575 ÷ 610		H	554			
3.	500				500		h	500			
4.	110	160	220	200	150	200	B	66	66	100	155
	500/110	500/160	500/220	500/200	500/150	500/200	Type	20 R	21 R	22 R	33 R
	number of sections n [pcs]				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
5.	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			

Identification of the old radiator:

1. Determine material (cast-iron/steel)*
* if the surface of your sectional radiator is rough, you have a cast-iron radiator
2. Measure the height of the radiator **H**
3. Check whether the connecting pitch **h** is 500 mm
4. Measure the depth of the radiator **B**
5. Count the number of sections ("ribs")

Looking for a replacement in the table:

6. According to identification (see above), look in the left part of the table for the appropriate column, corresponding to the type of the old radiator
7. Find the row with the appropriate number of sections **n** (if the precise number is not shown in the table, choose the next highest)
8. Select the most suitable length for the new steel panel radiator **L** in the row with the appropriate number of sections in the right (blue) part of the table (this depends on the type of steel panel radiator).
9. After selecting the type of steel panel radiator, once again check its depth **B**, to see whether it meets your requirements

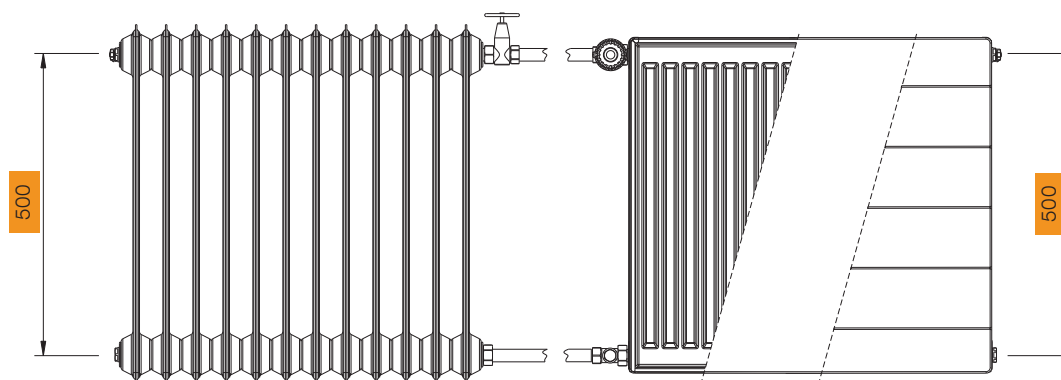


H [mm] - height of the radiator
h [mm] - connecting pitch
L [mm] - length of the radiator
B [mm] - depth of the radiator

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/cast-iron	500	110	92
		150	107
		160	120
		200	134
		220	151
		250	169

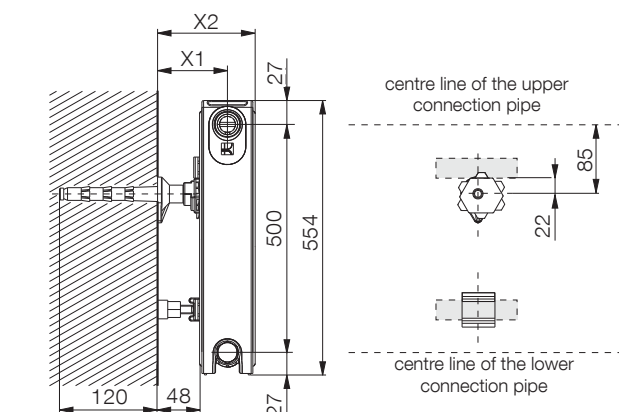
Source of information: Czechoslovak catalogue for construction 14/5 Radiators, basic advice for 1991



Mounting data

The Z-U140 bracket can be used for fixing the radiator at a fixed distance of the radiator from the wall of 48 mm, or the Z-U290 bracket with variable distance of up to 100 mm from the wall.

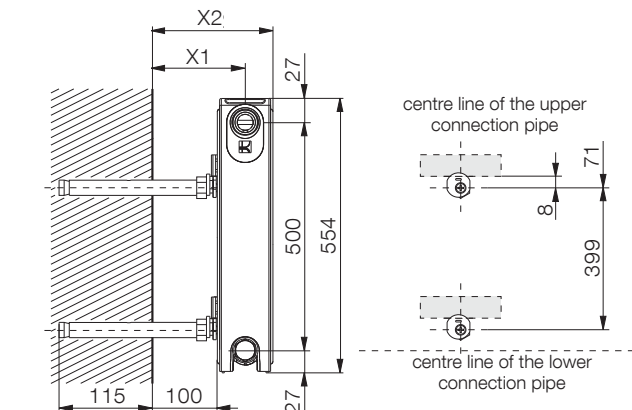
Z-U140 bracket



Type	20 R	21 R	22 R	33 R
X1	81	81	98	153
X2	114	114	148	203

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

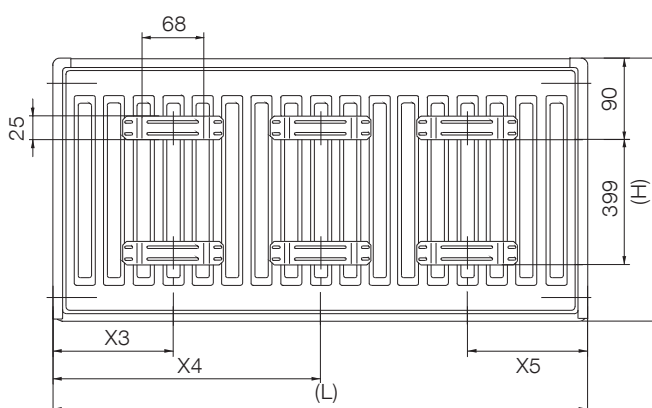
Z-U290 bracket



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.

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

Typ	20 R 20 PLAN R 20 LINE R	21 R 21 PLAN R 21 LINE R	22 R 22 PLAN R 22 LINE R	33 R 33 PLAN 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_f [m²]	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 *

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

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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system



side - one side
 $\varphi = 1$

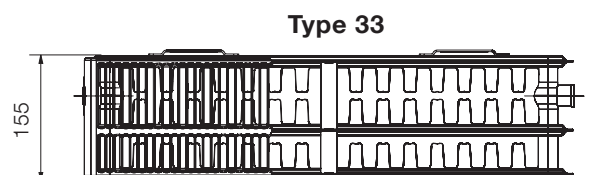
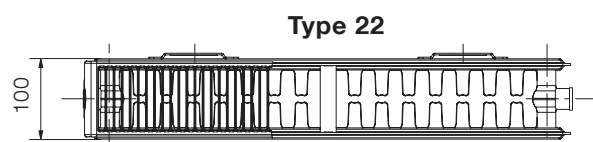
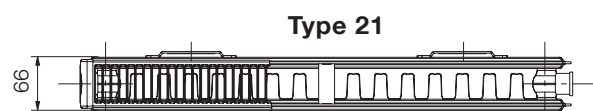
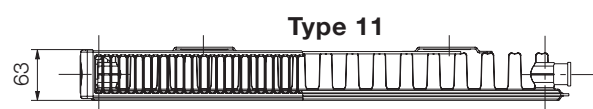
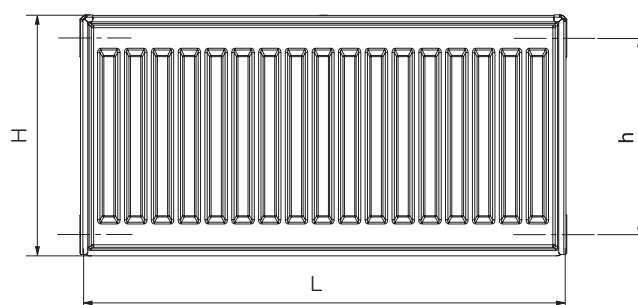


side - two sides diagonal
 $\varphi = 1$
recommended for: $L \geq 3 \times H$



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

Overview of types



Guidelines for ordering are described on page 91.

The company reserves the right to make technical changes.



Description

The **RADIK MM** model is a panel radiator **without a valve** which enables a modern **bottom middle connection** to a heating system with forced circulation. Two upper and lower hangers are welded on the back; radiators 1800 mm and longer have six hangers.

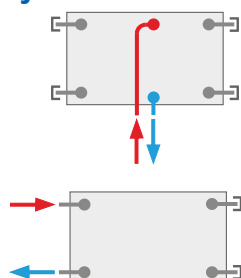
A unique design distinguishes RADIK MM not only from competitors but also from other traditional RADIK models.

The design of the panel radiator RADIK MM is protected under patent.

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 MM	63 mm
Type 21 MM	66 mm
Type 22 MM	100 mm
Type 33 MM	155 mm
Connecting pitch (bottom connection)	50 mm
Connecting pitch (side connection)	$h = H - 54 \text{ mm}$
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	bottom middle, left or right side connection

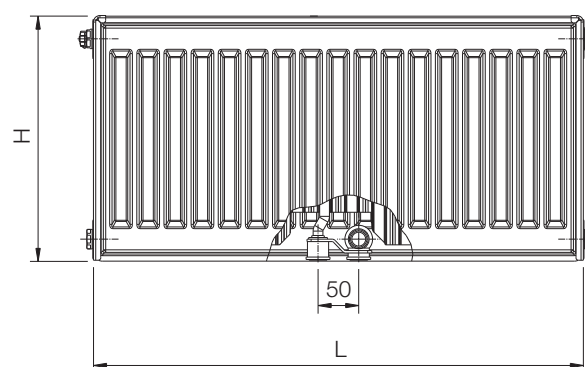
Examples of connection to the heating system



bottom middle
 $\varphi = 1$

bottom one-sided
 $\varphi = 0,96$

Overview of types



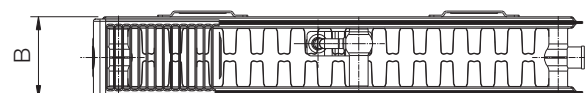
Type 11 MM



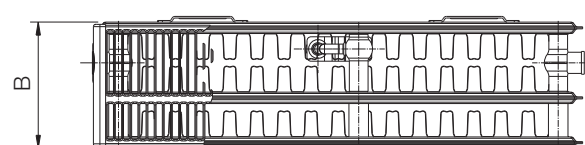
Type 21 MM



Type 22 MM



Type 33 MM



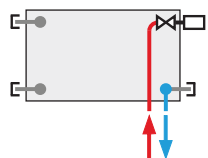
RADIK VK



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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Examples of connection to the heating system

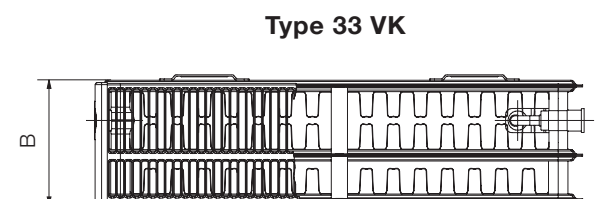
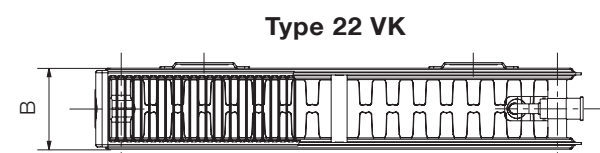
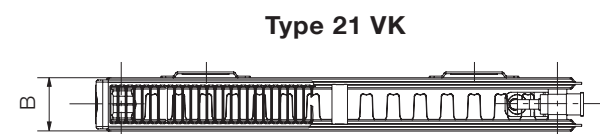
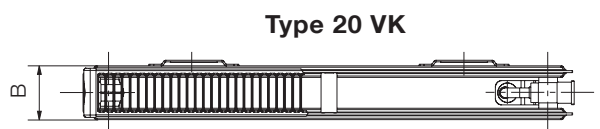
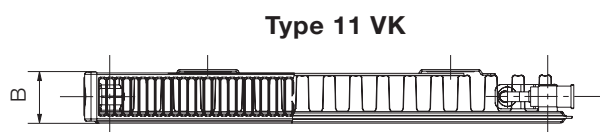
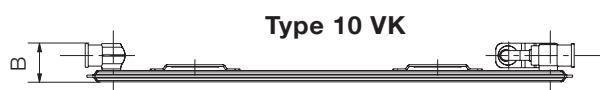
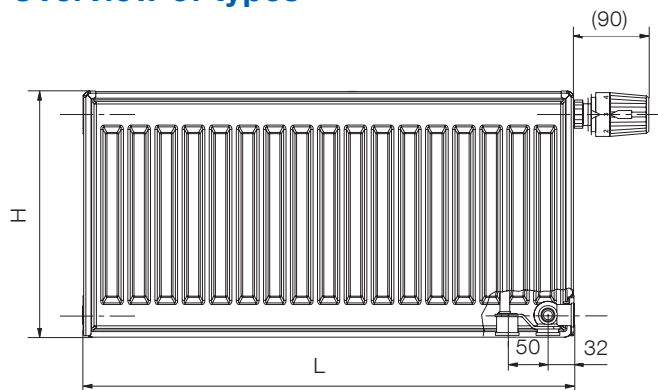


right bottom
 $\varphi = 1$

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



Guidelines for ordering are described on page 91.

The company reserves the right to make technical changes.



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 1800 mm and longer have six hangers.

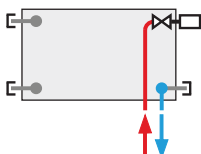
Notice:

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

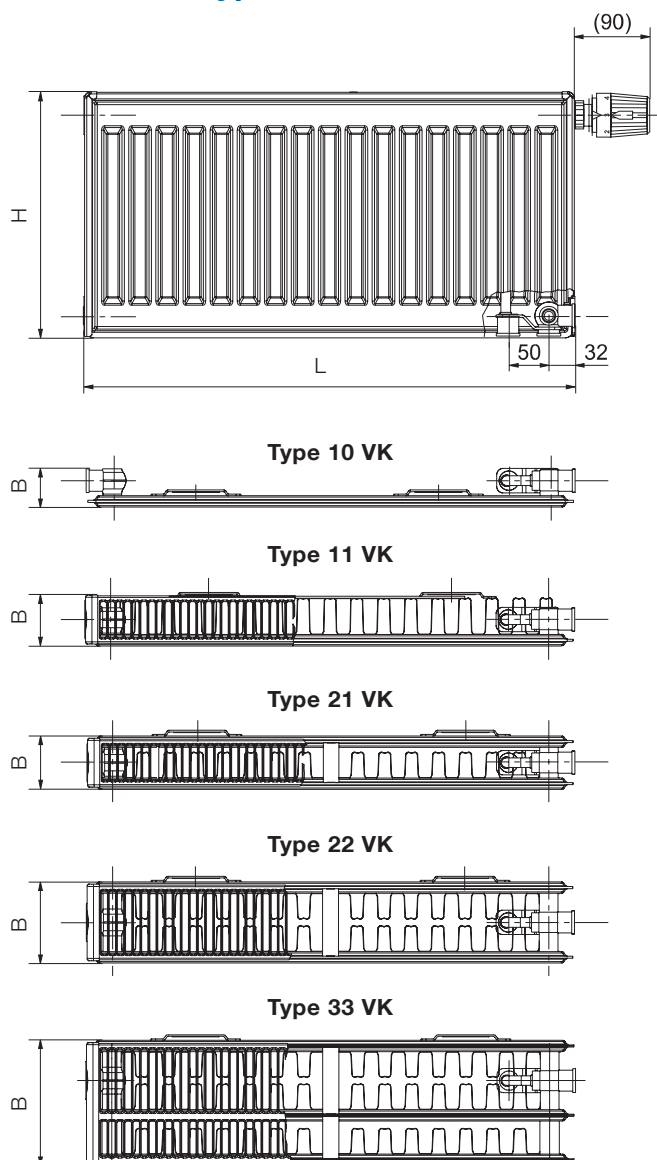
Height H	300, 400, 500, 600, 700, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000 mm
Depth B	
Type 10 VK	47 mm
Type 11 VK	63 mm
Type 21 VK	66 mm
Type 22 VK	100 mm
Type 33 VK	155 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working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

Examples of connection to the heating system



right bottom
 $\varphi = 1$

Overview of types



Guidelines for ordering are described on page 91.

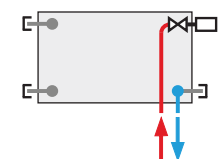
RADIK VKU



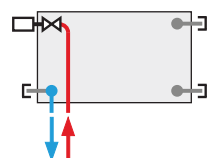
Technical data

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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	right or left bottom

Examples of connection to the heating system



right bottom
 $\varphi = 1$



left bottom
 $\varphi = 1$

Description

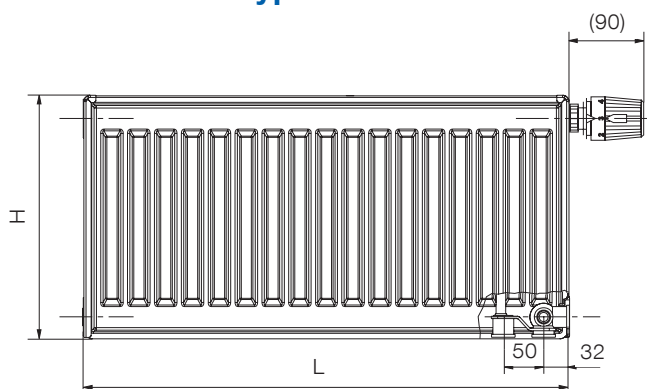
RADIK VKU model is a steel panel radiator in VENTIL KOMPAKT version which allows **left or right bottom connection** to the pressurized heating system. No hangers are welded on the back, so radiator types 21, 22, and 33 can be turned round.

Note:

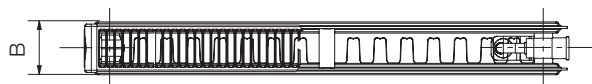
Type 33 VKU does not have symmetrically placed connections with respect to the depth of the radiator.

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

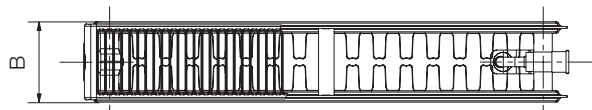
Overview of types



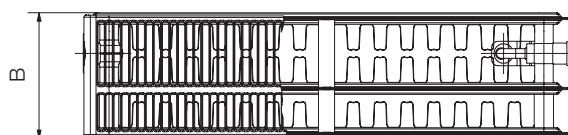
Type 21 VKU



Type 22 VKU



Type 33 VKU

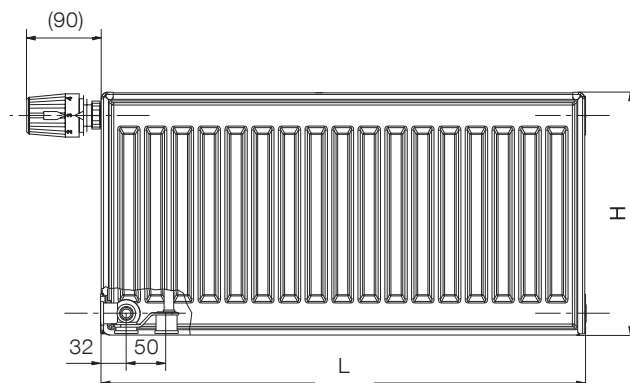




Description

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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	left bottom



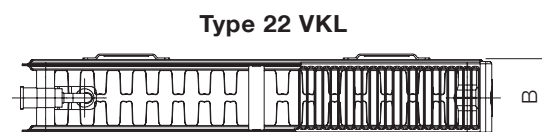
Type 10 VKL



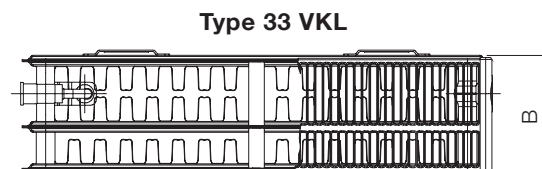
Type 11 VKL



Type 21 VKL

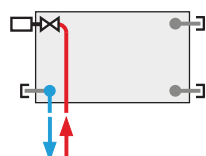


Type 22 VKL



Type 33 VKL

Examples of connection to the heating system



left bottom
 $\varphi = 1$

RADIK COMBI VK



Description

RADIK COMBI VK is a 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.

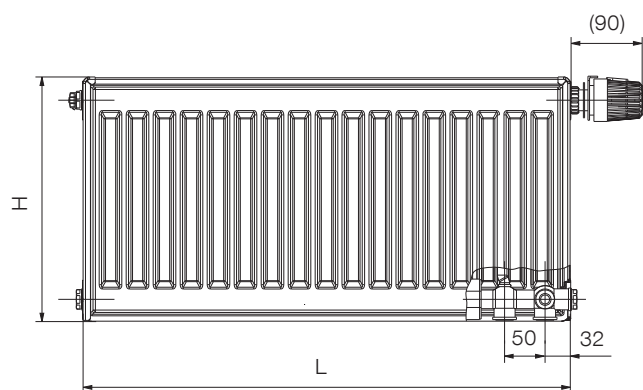
RADIK COMBI VK is designed for a combined installation with the electric heater. This combination creates a panel radiator suitable for combined heating (hot water – electricity) and can be used independently of the operation of the heating system. From the view of the electric installation the electric 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.

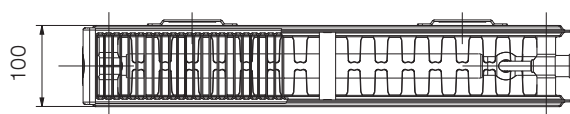
Overview of types

Technical data

Height H	500, 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
Highest allowed working temperature	110 °C
Radiator connection	right bottom

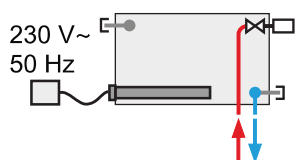


Type 22 COMBI VK



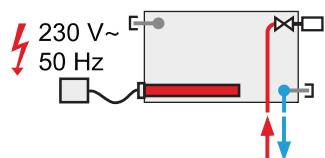
Examples of connection to the heating system

Connection to the water heating system



right bottom
 $\varphi = 1$

Usage as a direct electric radiator



the valve of the
radiator is closed



Guidelines for ordering are described on page 91.

The company reserves the right to make technical changes.



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

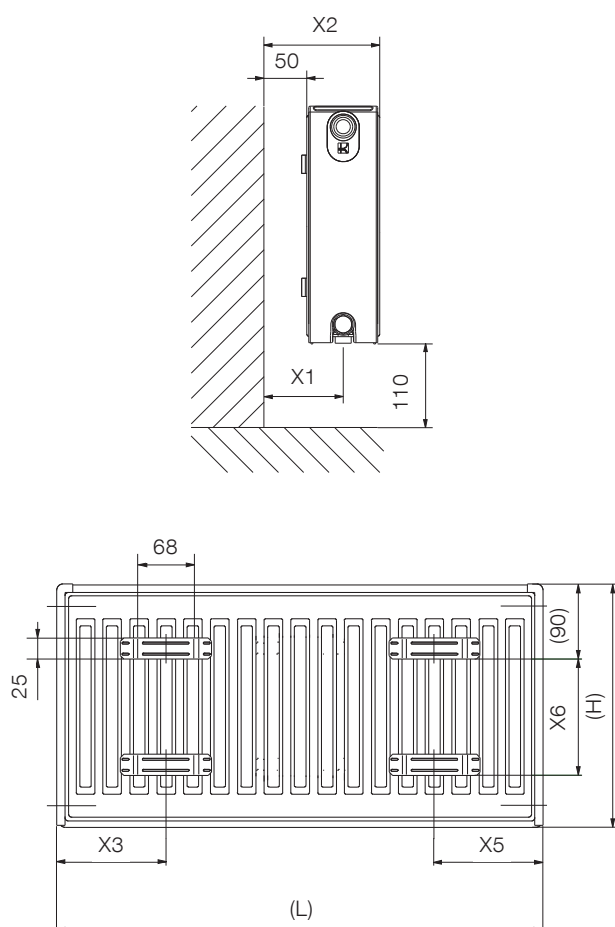


Table of sizes

Length L [mm]	800 ÷ 1600	
X1	100	
X2	150	
X3	133	
X5	133	
Height H [mm]	500	600
X6	345	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	600 ÷ 1350 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 radiator ordering

Output [W]	Ordering code	Length [mm]
600	Z-KTT-0600	550
700	Z-KTT-0700	550
800	Z-KTT-0800	720
900	Z-KTT-0900	720
1000	Z-KTT-1000	720
1200	Z-KTT-1200	875
1350	Z-KTT-1350	875

Table for creation of a code

Z-KTT - XXXX



Notice:

When ordering the RADIK COMBI VK it is necessary to quote the article code of the radiator (see please p. 73) and of the electrical heating element. (see please p. 27)

RADIK MATERNELLE VK



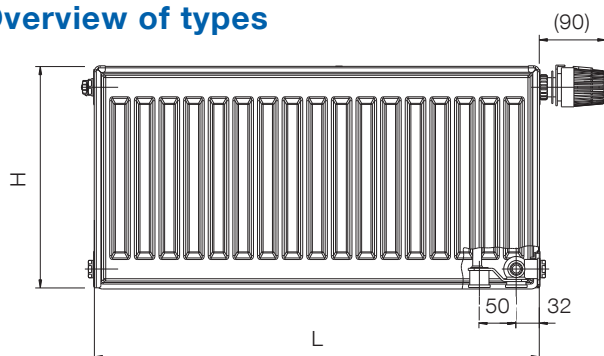
Description

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 1800 mm and longer have six welded hangers.

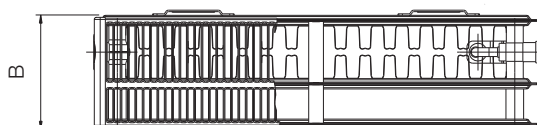
Technical data

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 VK	155 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	right bottom

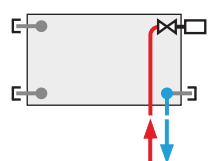
Overview of types



Type 32 VK



Examples of connection to the heating system



right bottom
 $\varphi = 1$



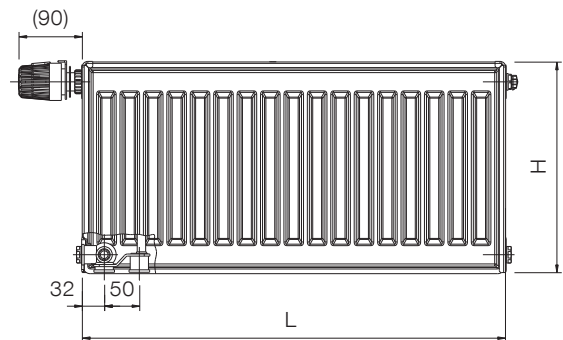
Description

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.

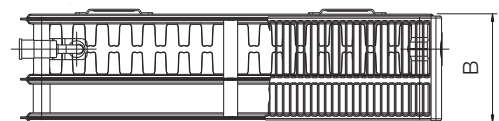
Technical data

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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	left bottom

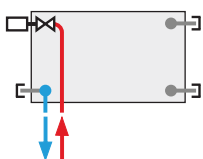
Overview of types



Type 32 VKL



Examples of connection to the heating system



left bottom
 $\varphi = 1$

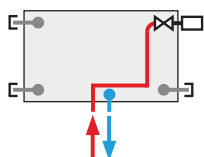
RADIK VKM



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 VKM	47 mm
Type 11 VKM	63 mm
Type 21 VKM	66 mm
Type 22 VKM	100 mm
Type 33 VKM	155 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	middle connection

Examples of connection to the heating system



middle connection
 $\varphi = 1$

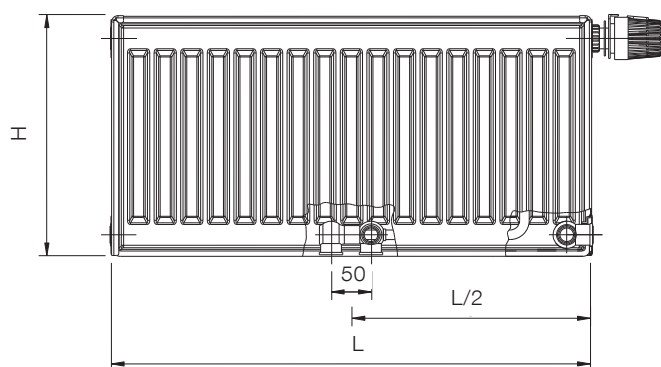
Description

The conception of **RADIK VKM** radiators is based on the VENTIL KOMPAKT design. The original design of the inner distribution allows the **bottom middle connection** of the radiator to the heating system. Two upper and two bottom hangers are welded on the rear side, radiators with length of 1800 mm and longer have six hangers.

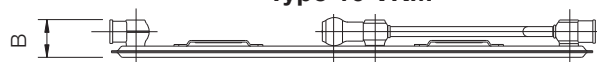
RADIK VKM panel radiators are designed for the use in modern pressurized heating systems with horizontally led distribution pipelines either under the radiator in the floor or in the wall.

The design of the RADIK VKM radiator is protected under patent.

Overview of types



Type 10 VKM



Type 11 VKM



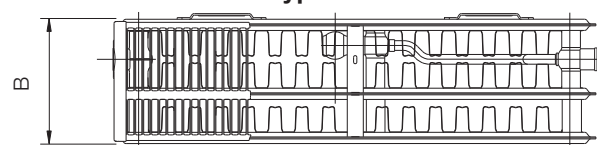
Type 21 VKM



Type 22 VKM



Type 33 VKM



Guidelines for ordering are described on page 91.

The company reserves the right to make technical changes.



Description

The conception of RADIK VKM-U is based on the VENTIL KOMPAKT design. They are fitted with built-in inside distribution tappings and a regulation valve. These radiators are primarily designed for **bottom middle connection with the regulation valve on the right**. There are no hangers welded to the back side and thus it is possible to turn the radiator, in that case the **regulation valve will be on the left**.

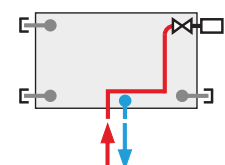
RADIK VKM-U panel radiators are designed for the use in modern pressurized heating systems with horizontally led distribution pipelines either under the radiator in the floor or in the wall covered by a skirting.

The design of the RADIK VKM-U radiator is protected under patent.

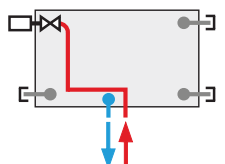
Technical data

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 VKM-U	66 mm
Type 22 VKM-U	100 mm
Type 33 VKM-U	155 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	bottom middle

Examples of connection to the heating system

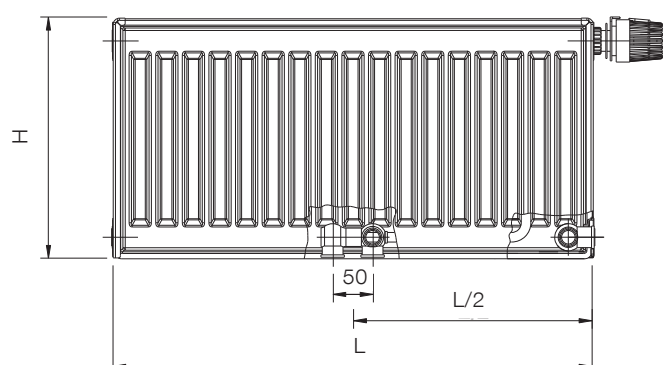


bottom middle connection with regulation valve on the right
 $\varphi = 1$

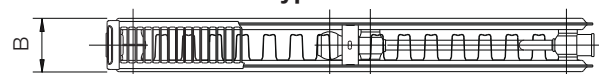


bottom middle connection with regulation valve on the left
 $\varphi = 1$

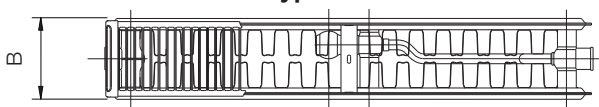
Overview of types



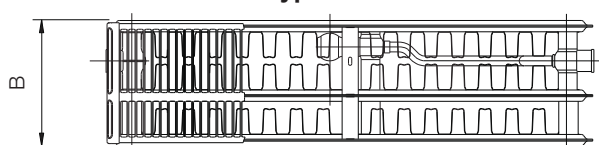
Type 21 VKM-U



Type 22 VKM-U



Type 33 VKM-U



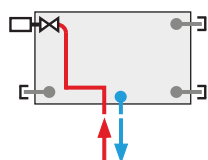
RADIK VKM - L



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 VKM - L	47 mm
Type 11 VKM - L	63 mm
Type 21 VKM - L	66 mm
Type 22 VKM - L	100 mm
Type 33 VKM - L	155 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	middle connection

Examples of connection to the heating system



middle connection
 $\varphi = 1$

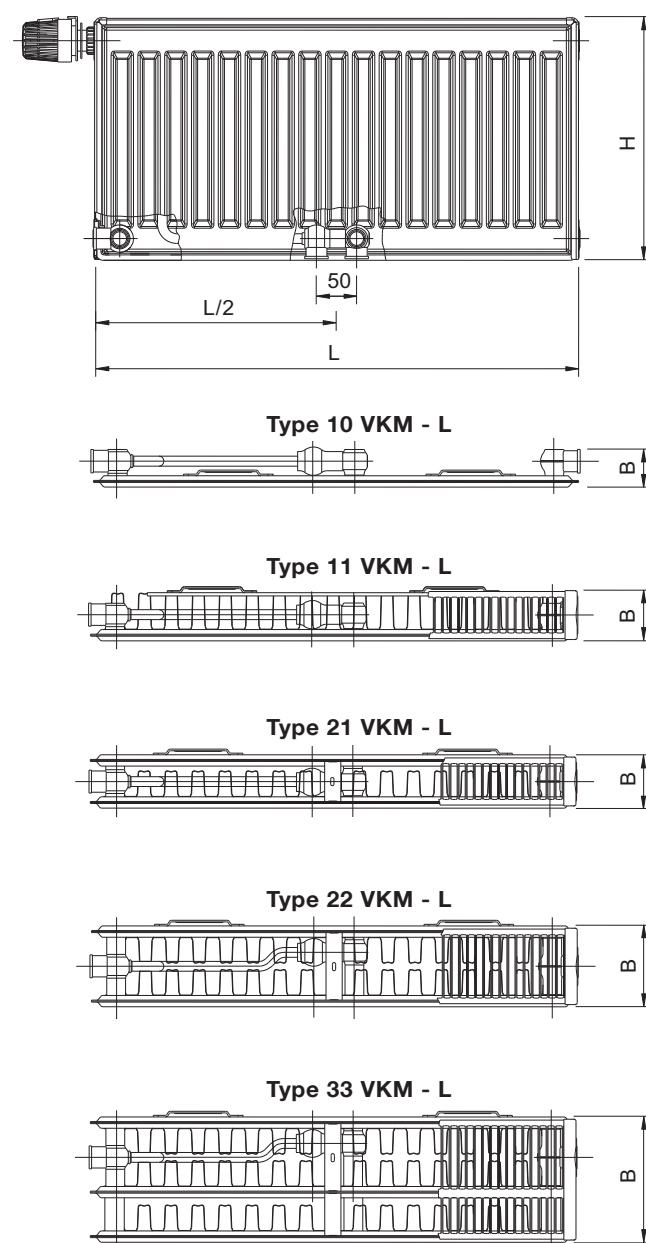
Description

The conception of **RADIK VKM - L** radiators is based on the VENTIL KOMPAKT design. The original design of the inner distribution allows the **bottom middle connection** of the radiator to the heating system. Two upper and two bottom hangers are welded on the rear side, radiators with length of 1800 mm and longer have six hangers.

RADIK VKM - L panel radiators are designed for the use in modern pressurized heating systems with horizontally led distribution pipelines either under the radiator in the floor or in the wall.

The design of the RADIK VKM - L radiator is protected under patent.

Overview of types



Guidelines for ordering are described on page 91.

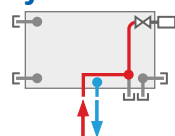
The company reserves the right to make technical changes.



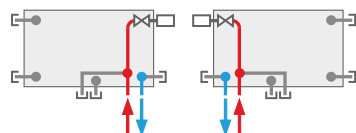
Technical data

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	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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	bottom middle right / left bottom

Examples of connection to the heating system



bottom middle
 $\varphi = 1$



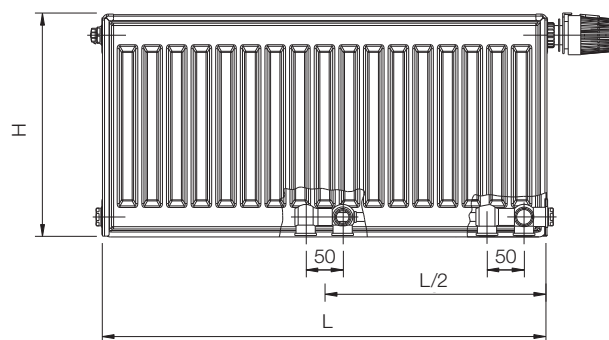
right / left bottom
 $\varphi = 1$

Description

Model **RADIK VKM8** is a panel heating radiator in version VENTIL KOMPAKT which allows **bottom middle or bottom right connection** to the heating system. As for types 20, 21, 22 and 33 there are no hangers welded to the back side and thus it is possible to turn the radiator and to use its **bottom left connection**. As for types 10 and 11 two upper and two lower hangers are fixed to the back side, 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



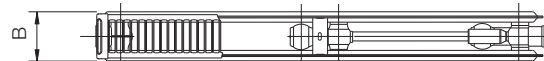
Type 10 VKM8



Type 11 VKM8



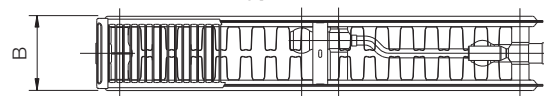
Type 20 VKM8



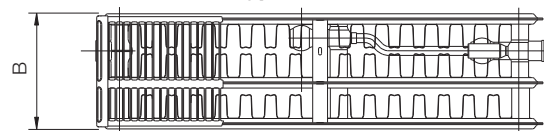
Type 21 VKM8



Type 22 VKM8



Type 33 VKM8



Guidelines for ordering are described on page 91.

RADIK PLAN KLASIK, LINE KLASIK

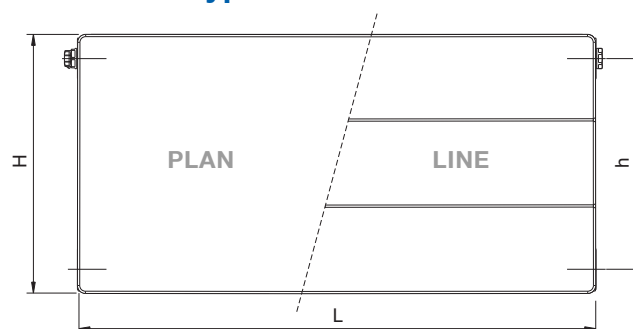


Description

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.

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 mm
Connecting pitch	$h = H - 54$ mm
Connecting thread	4 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	left or right side

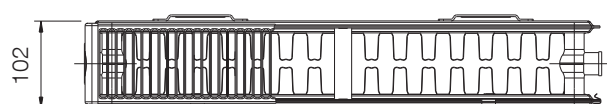
Type 11 PLAN/LINE



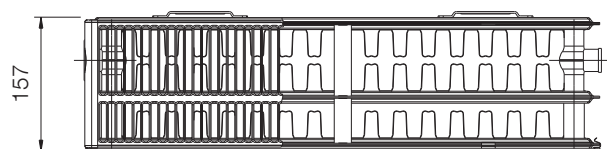
Type 21 PLAN/LINE



Type 22 PLAN/LINE



Type 33 PLAN/LINE



Examples of connection to the heating system



side - one side
 $\varphi = 1$



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

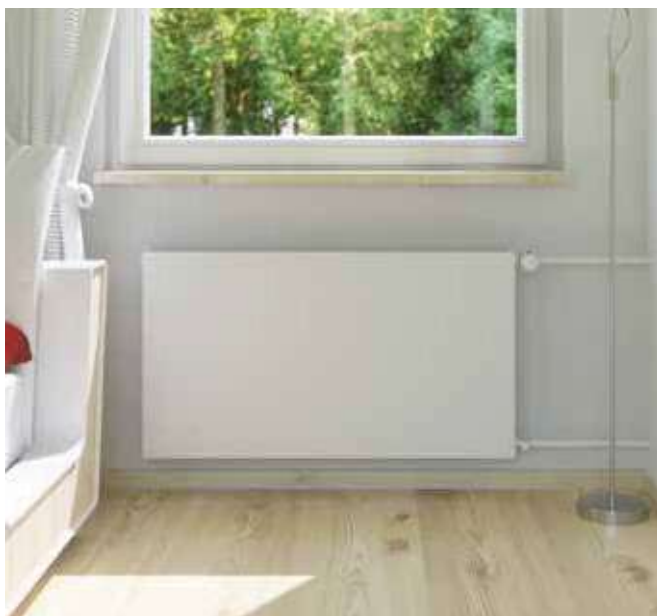


side - two sides direct
 $\varphi = 0,9$

Guidelines for ordering are described on page 92.



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.

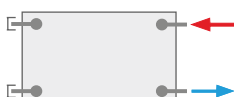
Technical data

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
Highest allowed working temperature	110 °C
Radiator connection	left or right side

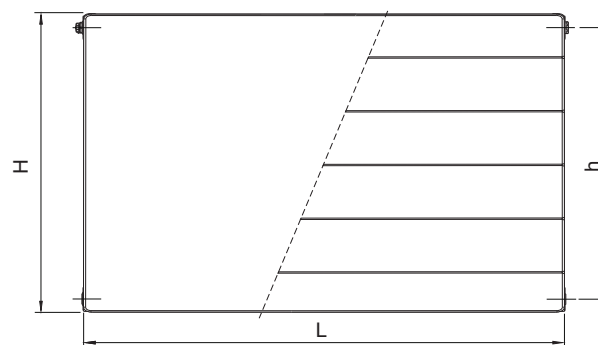
Examples of connection to the heating system



one-sided
 $\varphi = 1$



Overview of types



Type 20 PLAN - R/LINE - R



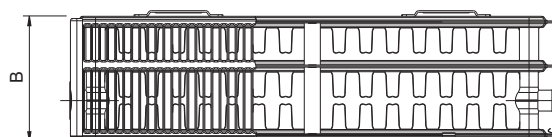
Type 21 PLAN - R/LINE - R



Type 22 PLAN - R/LINE - R



Type 33 PLAN - R/LINE - R



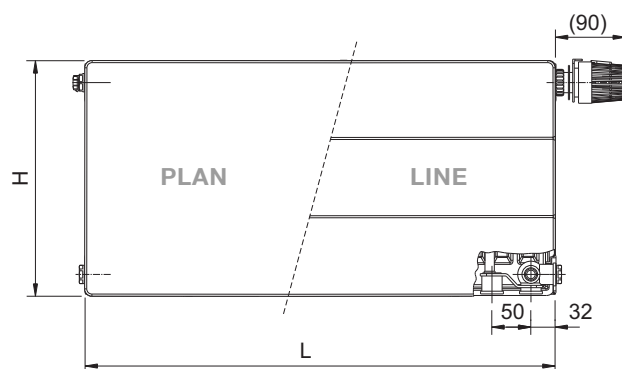
RADIK PLAN VK, LINE VK



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.

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 mm
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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	right bottom

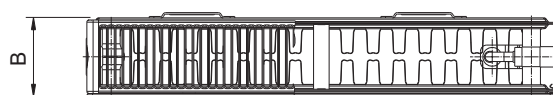
Type 11 PLAN VK/LINE VK



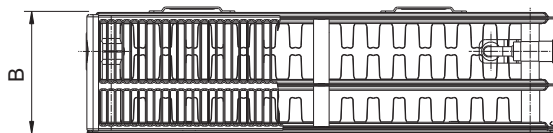
Type 21 PLAN VK/LINE VK



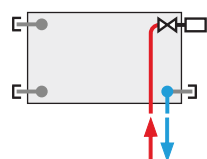
Type 22 PLAN VK/LINE VK



Type 33 PLAN VK/LINE VK



Examples of connection to the heating system



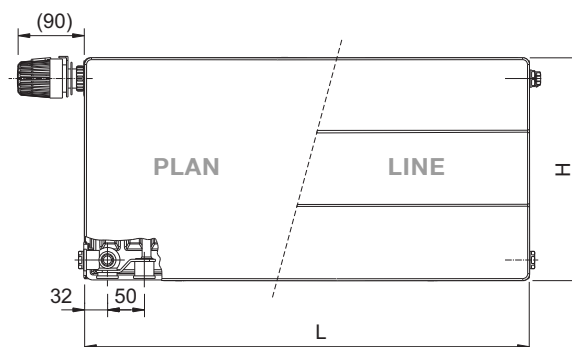
right bottom
 $\varphi = 1$



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.

Overview of types



Type 11 PLAN VKL/LINE VKL



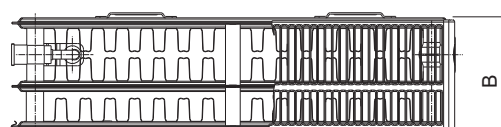
Type 21 PLAN VKL/LINE VKL



Type 22 PLAN VKL/LINE VKL



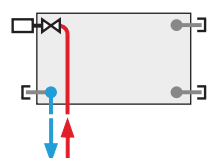
Type 33 PLAN VKL/LINE VKL



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
Highest allowed working temperature	110 °C
Radiator connection	left bottom

Examples of connection to the heating system



left bottom
 $\varphi = 1$

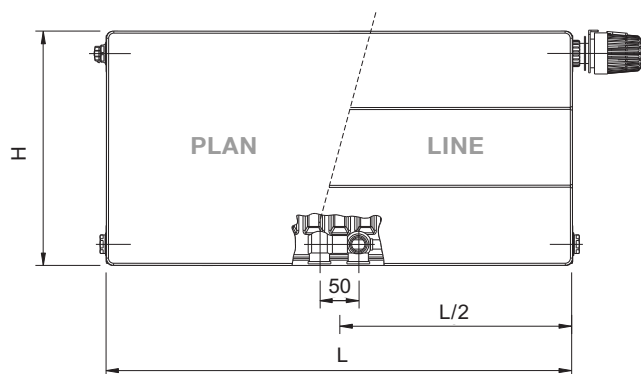
RADIK PLAN VKM, LINE VKM



Description

The type **RADIK PLAN VKM (RADIK LINE VKM)** is a steel panel radiator in VENTIL KOMPAKT version and in PLAN (LINE) version which enables the **bottom middle connection** to the pressurized heating system. There are 2 upper and 2 bottom hangers welded on the back side of the radiator, radiators with length of 1800 mm and more have six hangers.

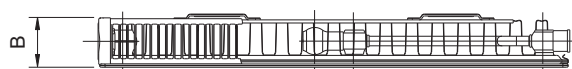
Overview of types



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 mm
Depth B	
Type 11 PLAN VKM/LINE VKM	65 mm
Type 21 PLAN VKM/LINE VKM	68 mm
Type 22 PLAN VKM/LINE VKM	102 mm
Type 33 PLAN VKM/LINE VKM	157 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	middle connection

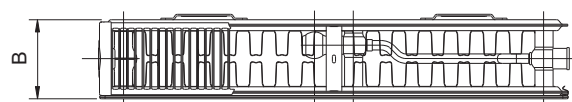
Type 11 PLAN VKM/LINE VKM



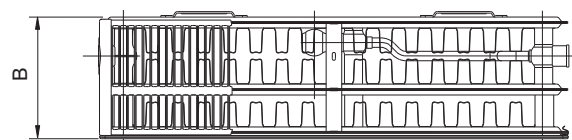
Type 21 PLAN VKM/LINE VKM



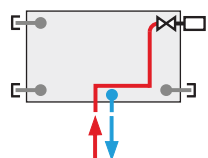
Type 22 PLAN VKM/LINE VKM



Type 33 PLAN VKM/LINE VKM



Examples of connection to the heating system



middle connection
 $\varphi = 1$



RADIK PLAN VKM8, LINE VKM8



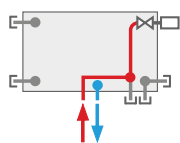
Description

Model **RADIK PLAN VKM8** is a panel radiator with flat front panel (version PLAN) 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. 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.

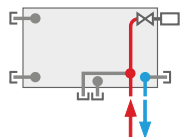
Technical data

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/LINE VKM8	65 mm
Type 20 PLAN VKM8/LINE VKM8	68 mm
Type 21 PLAN VKM8/LINE VKM8	68 mm
Type 22 PLAN VKM8/LINE VKM8	102 mm
Type 33 PLAN VKM8/LINE VKM8	157 mm
Connecting pitch	50 mm
Connecting thread	8 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	bottom middle right bottom

Examples of connection to the heating system

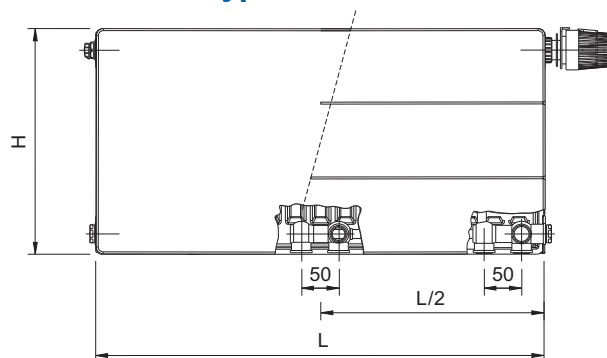


bottom middle
 $\varphi = 1$

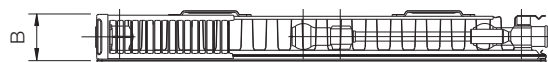


right bottom
 $\varphi = 1$

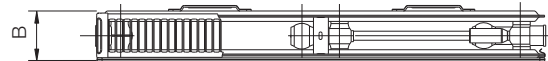
Overview of types



Type 11 PLAN VKM8/LINE VKM8



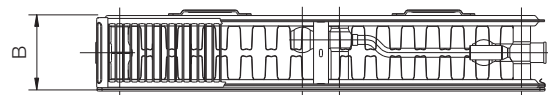
Type 20 PLAN VKM8/LINE VKM8



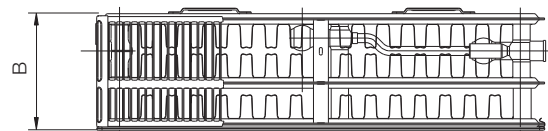
Type 21 PLAN VKM8/LINE VKM8



Type 22 PLAN VKM8/LINE VKM8



Type 33 PLAN VKM8/LINE VKM8



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.

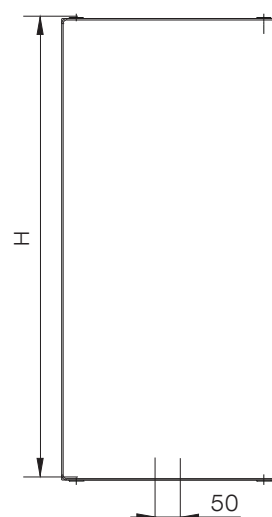


For connecting to the heating system we recommend using the Integrated Fitting HM supplied with a thermostatic head (see page 75)

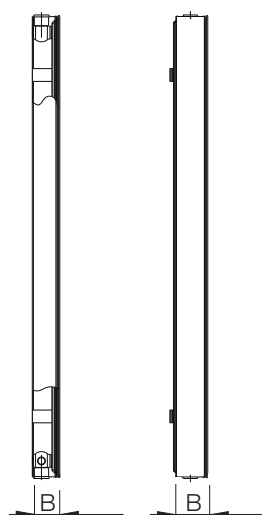
Technical data

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

Overview of types

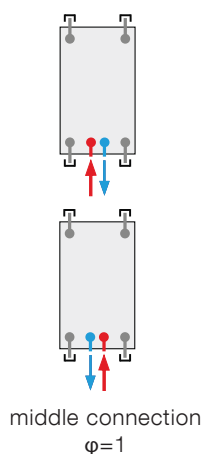


Type 10 Type 20



Guidelines for ordering are described on page 92.

Examples of connection to the heating system





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.

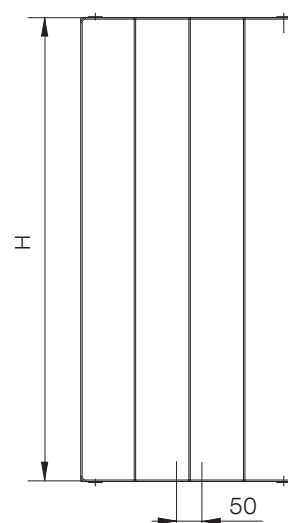


For connecting to the heating system we recommend using the Integrated Fitting HM supplied with a thermostatic head (see page 75)

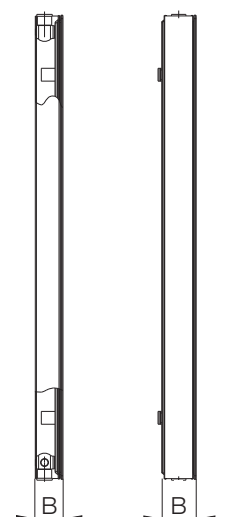
Technical data

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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	middle connection

Overview of types

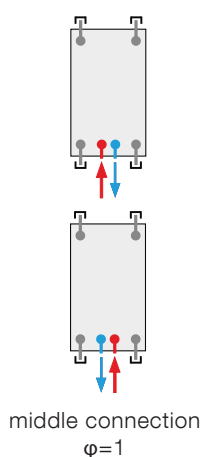


Type 10 Type 20



Guidelines for ordering are described on page 92.

Examples of connection to the heating system



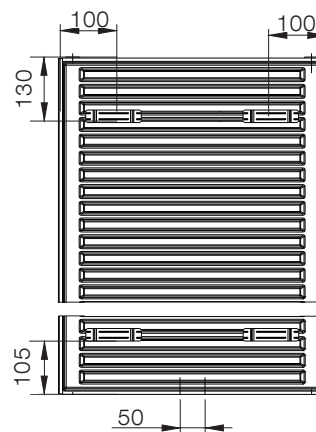
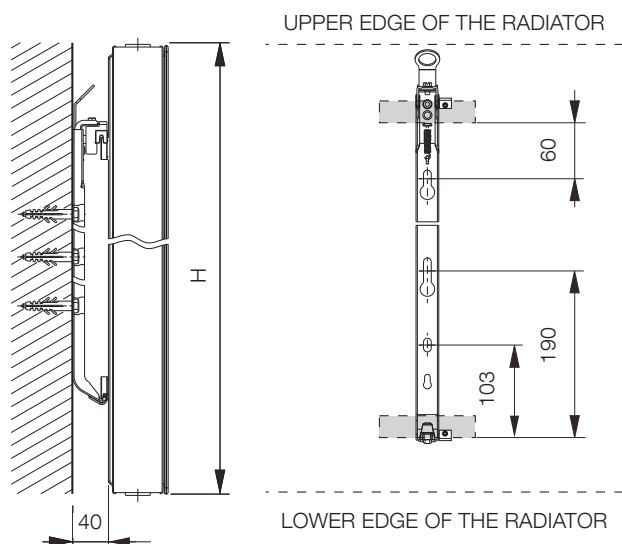
RADIK PLAN VERTIKAL - M, LINE VERTIKAL - M

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] 90/70 [°C]	756	829	898	1077	1177	1274
	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
	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
600	Q [W] 90/70 [°C]	1043	1141	1236	1503	1644	1777
	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
	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
900	Q [W] 90/70 [°C]	1437	1573	1704	2106	2303	2490
	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
	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
Resistance coefficient ξ_r [-]		140,0			82,0		
Flow coefficient A_v [m²]		2,4 x 10 ⁻⁵			3,14 x 10 ⁻⁵		

Characteristic equation: $\Phi = K \cdot L^a \cdot H^b \cdot \Delta T^{(c_0 + c_1 \cdot H)}$

Guidelines for ordering are described on page 92.



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 cleanness. 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 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	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
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: $L \geq 3 \times H$

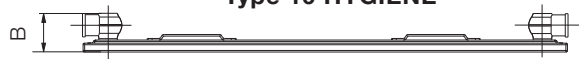


side - two sides direct
 $\varphi = 0,9$

Overview of types



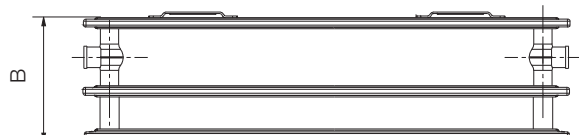
Type 10 HYGIENE



Type 20S HYGIENE



Type 30 HYGIENE



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.

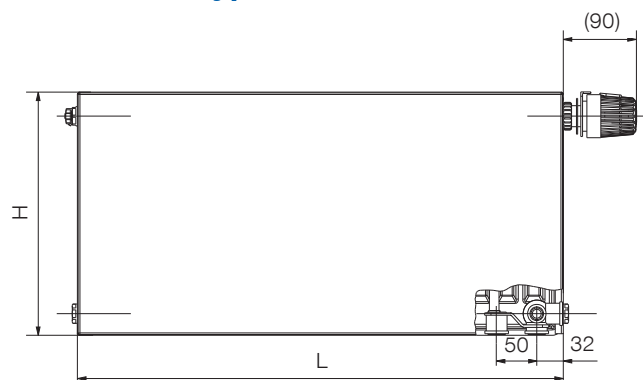
It is suitable for installation and operation in rooms with high demands on hygiene and cleanliness. All types are without convector fins; they have a smooth front panel and the weld seams are covered with a special flat strip. The type 20S is typical for a greater spacing between the panels (radiator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

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 Type 20S HYGIENE VK Type 30 HYGIENE VK
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Overview of types



Type 10 HYGIENE VK

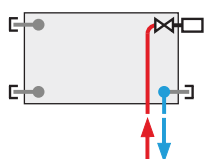


Type 20S HYGIENE VK



Type 30 HYGIENE VK

Examples of connection to the heating system



right bottom
 $\varphi = 1$

Guidelines for ordering are described on page 92.



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 1800 mm in length or longer have six fixing hangers welded to the back. Basic equipment includes an air vent and blanking plug.

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
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system



side - one side
 $\varphi = 1$

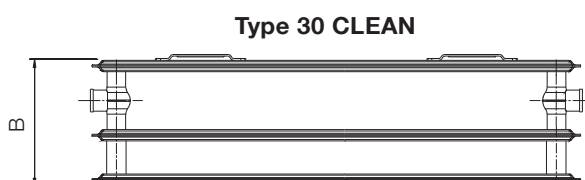
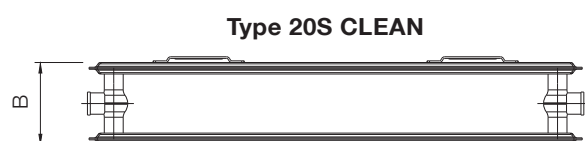
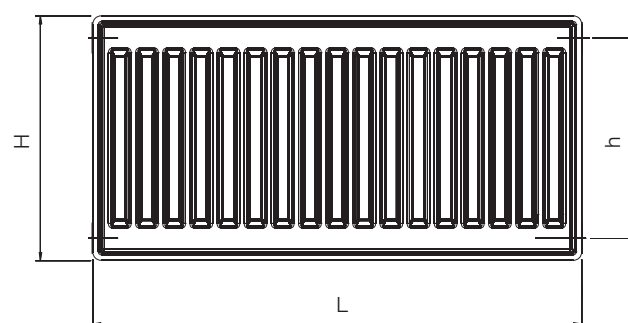


side - two sides diagonal
 $\varphi = 1$
recommended for: $L \geq 3 \times H$



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

Overview of types



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.

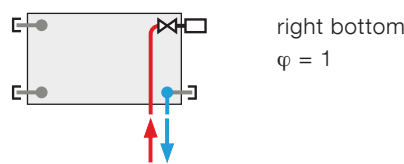
Two upper and two lower fixing hangers are welded to the back, radiators 1800 mm in length or longer have six fixing hangers welded to the back. Basic equipment includes air vent and blanking plug.

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

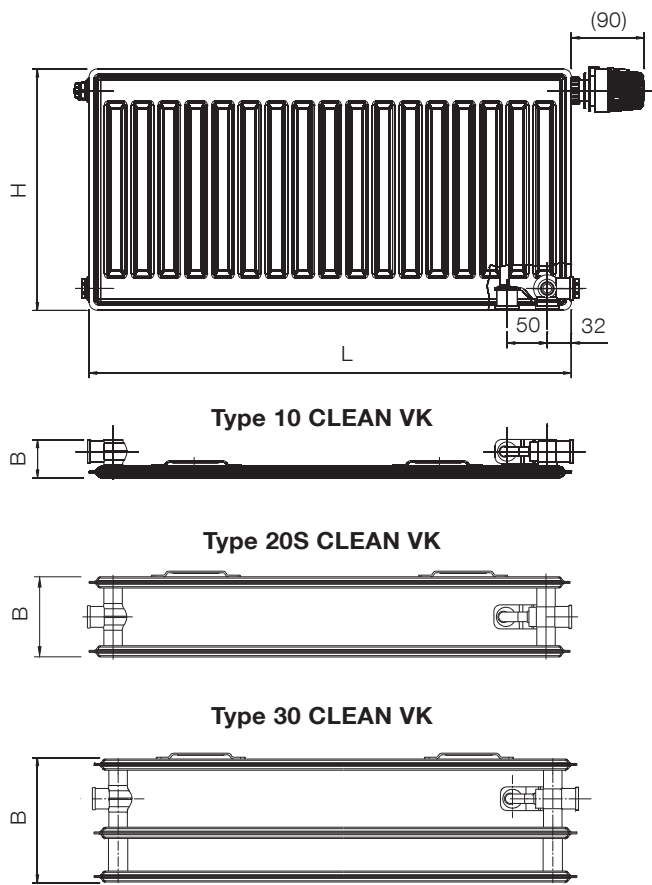
Technical data

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 Type 20S CLEAN VK Type 30 CLEAN VK
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Examples of connection to the heating system



Overview of types





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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system

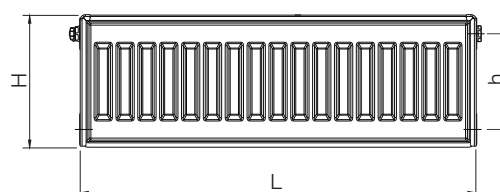


side - one side
 $\varphi = 1$

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

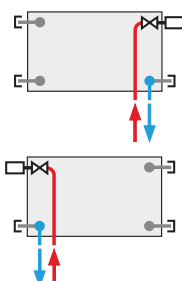


RADIK VKU

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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	left or right bottom

Examples of connection to the heating system



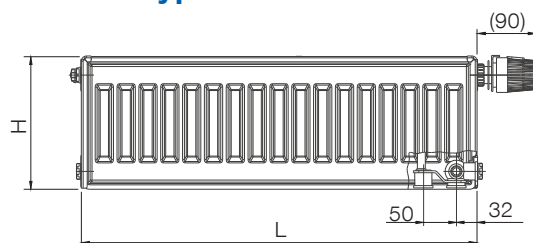
right bottom
 $\varphi = 1$

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 92.

STEEL PANEL RADIATORS IN HEIGHT 200 mm

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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	left or right side

Examples of connection to the heating system

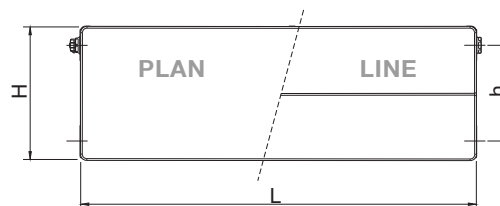


side - one side
 $\varphi = 1$

Description

RADIK 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

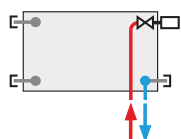


RADIK PLAN VK, LINE VK

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 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Examples of connection to the heating system

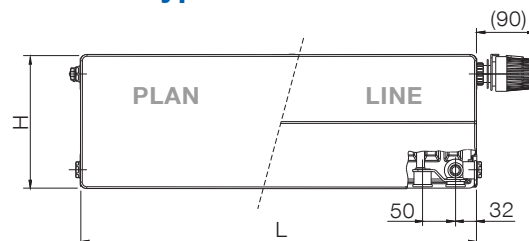


right bottom
 $\varphi = 1$

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.

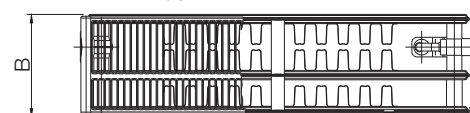
Overview of types



Type 22 PLAN VK/LINE VK



Type 33 PLAN VK/LINE VK



Guidelines for ordering are described on page 92.

MOUNTING OF STEEL PANEL RADIATORS IN HEIGHT 200 mm



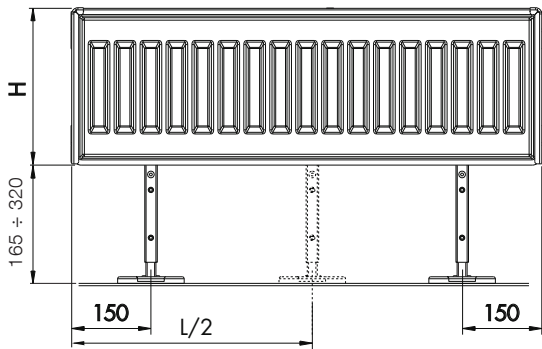
Mounting

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.

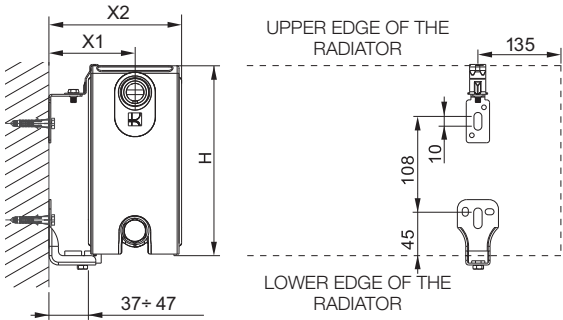
Mounting on the floor can be carried out with special stand brackets Z-U400 which are not delivered as standard, and must be ordered separately.

Radiators in lengths up to 1800 mm are mounted with two brackets, radiators in length 1800 mm 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

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 11 MM					Type 21 MM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]									
		400	500	600	700	900	400	500	600	700	900
500	90/70	459	553	642	728	890	591	708	817	919	1107
	75/65	364	438	509	576	702	466	557	642	721	866
	70/55	296	356	413	467	568	377	450	518	581	695
	55/45	190	228	264	298	361	239	284	326	365	434
600	90/70	551	663	771	873	1068	710	850	981	1103	1329
	75/65	437	526	610	691	842	559	668	770	865	1039
	70/55	355	427	495	560	682	452	540	621	697	834
	55/45	228	274	317	358	433	287	341	392	438	521
700	90/70	642	774	899	1019	1246	828	991	1144	1287	1550
	75/65	510	613	712	806	983	652	780	899	1009	1212
	70/55	415	498	578	654	795	528	630	725	813	973
	55/45	266	320	370	417	506	335	398	457	511	607
800	90/70	734	884	1028	1165	1424	946	1133	1308	1471	1772
	75/65	582	701	814	921	1123	746	891	1027	1154	1385
	70/55	474	570	661	747	909	603	720	828	929	1112
	55/45	305	365	423	477	578	382	455	522	584	694
900	90/70	826	995	1156	1310	1602	1065	1274	1471	1655	1993
	75/65	655	788	915	1036	1264	839	1003	1156	1298	1558
	70/55	533	641	743	840	1023	678	810	932	1045	1251
	55/45	343	411	476	536	650	430	512	587	657	781
1000	90/70	918	1105	1285	1456	1780	1183	1416	1635	1839	2215
	75/65	728	876	1017	1151	1404	932	1114	1284	1442	1731
	70/55	592	712	826	934	1136	754	899	1035	1161	1390
	55/45	381	457	528	596	722	478	569	653	730	868
1100	90/70	1009	1216	1413	1601	1958	1301	1558	1798	2023	2436
	75/65	801	964	1119	1266	1544	1025	1225	1412	1586	1904
	70/55	652	783	908	1027	1250	829	989	1139	1277	1529
	55/45	419	502	581	656	794	526	626	718	803	955
1200	90/70	1101	1326	1542	1747	2136	1419	1699	1962	2207	2658
	75/65	874	1051	1220	1381	1685	1118	1337	1541	1730	2077
	70/55	711	854	991	1120	1364	904	1079	1242	1393	1668
	55/45	457	548	634	715	867	573	682	783	876	1041
1400	90/70	1285	1547	1799	2038		1656	1983	2289	2574	
	75/65	1019	1226	1424	1611		1305	1560	1798	2019	
	70/55	829	997	1156	1307		1055	1259	1449	1625	
	55/45	533	639	740	834		669	796	914	1021	
1600	90/70	1468	1769	2056	2329		1893	2266	2616	2942	
	75/65	1165	1402	1627	1842		1491	1782	2054	2307	
	70/55	948	1139	1321	1494		1206	1439	1657	1858	
	55/45	609	731	846	954		765	910	1044	1167	
1800	90/70	1652	1990	2312	2620		2129	2549	2943	3310	
	75/65	1310	1577	1831	2072		1678	2005	2311	2596	
	70/55	1066	1282	1486	1680		1356	1619	1864	2090	
	55/45	685	822	951	1073		860	1024	1175	1313	
2000	90/70	1835	2211	2569	2911		2366	2832	3269	3678	
	75/65	1456	1752	2034	2302		1864	2228	2568	2884	
	70/55	1185	1424	1652	1867		1507	1799	2071	2322	
	55/45	761	913	1057	1192		956	1137	1305	1459	



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 22 MM						Type 33 MM					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
500	90/70		782	936	1085	1228	1505		1058	1290	1509	1714	2083
	75/65		617	736	851	963	1179		833	1014	1185	1344	1629
	70/55		499	594	685	775	948		673	818	954	1081	1308
	55/45		316	375	431	487	594		426	516	601	679	818
600	90/70		939	1123	1302	1473	1806		1269	1548	1811	2057	2500
	75/65		740	883	1021	1155	1414		999	1217	1421	1612	1955
	70/55		598	713	822	930	1137		807	982	1145	1298	1570
	55/45		379	450	517	584	713		511	620	721	815	982
700	90/70		1095	1311	1519	1719	2107		1481	1806	2113	2400	2916
	75/65		863	1030	1191	1348	1650		1166	1420	1658	1881	2281
	70/55		698	831	959	1085	1327		942	1145	1336	1514	1832
	55/45		443	525	603	681	832		596	723	841	951	1145
800	90/70	995	1252	1498	1736	1964	2408	1298	1692	2064	2415	2742	3333
	75/65	786	986	1178	1362	1540	1886	1023	1332	1622	1895	2150	2606
	70/55	637	798	950	1096	1240	1516	828	1076	1309	1527	1730	2093
	55/45	406	506	600	689	779	951	526	681	826	961	1086	1309
900	90/70	1119	1408	1685	1953	2210	2709	1460	1904	2322	2717	3085	3750
	75/65	884	1110	1325	1532	1733	2121	1151	1499	1825	2132	2418	2932
	70/55	716	897	1069	1234	1395	1706	931	1211	1473	1718	1946	2355
	55/45	456	569	675	776	876	1069	591	767	930	1081	1222	1472
1000	90/70	1243	1565	1872	2170	2456	3010	1622	2115	2580	3019	3428	4166
	75/65	982	1233	1472	1702	1925	2357	1279	1665	2028	2369	2687	3258
	70/55	796	997	1188	1371	1549	1896	1035	1345	1636	1909	2163	2617
	55/45	507	632	750	862	973	1188	657	852	1033	1201	1358	1636
1100	90/70	1368	1721	2060	2387	2701	3311	1784	2327	2838	3321	3771	4583
	75/65	1080	1356	1619	1872	2118	2593	1407	1832	2231	2606	2956	3584
	70/55	875	1097	1307	1508	1704	2085	1138	1480	1800	2100	2379	2878
	55/45	558	696	825	948	1071	1307	723	937	1136	1321	1494	1799
1200	90/70	1492	1878	2247	2604	2947	3612	1947	2538	3096	3623	4114	4999
	75/65	1178	1480	1766	2042	2310	2828	1535	1998	2434	2843	3224	3910
	70/55	955	1196	1425	1645	1859	2275	1242	1614	1963	2290	2595	3140
	55/45	608	759	900	1034	1168	1426	789	1022	1239	1442	1630	1963
1400	90/70	1741	2191	2621	3038	3438		2271	2961	3612	4226	4799	
	75/65	1375	1726	2061	2383	2695		1791	2331	2839	3317	3762	
	70/55	1114	1396	1663	1919	2169		1449	1883	2291	2672	3028	
	55/45	710	885	1050	1206	1362		920	1192	1446	1682	1901	
1600	90/70	1989	2504	2996	3472	3929		2595	3384	4128	4830	5485	
	75/65	1571	1973	2355	2723	3080		2046	2664	3245	3790	4299	
	70/55	1273	1595	1901	2193	2479		1656	2152	2618	3054	3460	
	55/45	811	1012	1200	1379	1557		1051	1363	1653	1922	2173	
1800	90/70	2238	2817	3370	3906	4420		2920	3807	4644	5434	6170	
	75/65	1768	2219	2650	3064	3465		2302	2997	3650	4264	4837	
	70/55	1432	1795	2138	2467	2789		1863	2421	2945	3436	3893	
	55/45	913	1138	1350	1551	1752		1183	1533	1859	2162	2445	
2000	90/70	2487	3130	3745	4340	4911		3244	4230	5160	6038	6856	
	75/65	1964	2466	2944	3404	3850		2558	3330	4056	4738	5374	
	70/55	1591	1994	2376	2741	3099		2070	2690	3272	3817	4325	
	55/45	1014	1265	1500	1723	1946		1314	1703	2066	2403	2716	

RADIK KLASIK, VK

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	90/70			261	306	352	444	279	360	436	509	579	709	425	496	568
	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
500	90/70	210	269	326	382	440	555	349	450	545	636	724	887	531	620	710
	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
600	90/70	252	323	391	459	528	666	419	540	654	763	868	1064	637	744	852
	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
700	90/70			457	535	616	777	488	630	763	891	1013	1241	744	868	995
	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
800	90/70			522	612	704	889	558	720	872	1018	1158	1419	850	992	1137
	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
900	90/70			587	688	791	1000	628	810	981	1145	1303	1596	956	1116	1279
	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
1000	90/70			652	765	879	1111	698	900	1090	1272	1447	1773	1062	1240	1421
	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
1100	90/70			718	841	967	1222	768	990	1199	1400	1592	1951	1168	1364	1563
	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
1200	90/70			783	918	1055	1333	837	1080	1308	1527	1737	2128	1275	1488	1705
	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
1400	90/70			913	1071	1231	1555	977	1260	1526	1781	2026	2483	1487	1736	1989
	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
1600	90/70			1044	1224	1407	1777	1117	1439	1744	2036	2316	2838	1700	1984	2273
	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
1800	90/70			1174	1377	1583		1256	1619	1962	2290	2605		1912	2232	2557
	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
2000	90/70			1305	1529	1759		1396	1799	2180	2545	2895		2124	2480	2841
	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
2300	90/70									2507	2927	3329		2443	2852	3268
	75/65									1973	2305	2620		1927	2249	2569
	70/55									1594	1862	2116		1560	1821	2073
	55/45									1009	1180	1339		992	1157	1310
2600	90/70									2834	3308	3763		2762	3224	3694
	75/65									2231	2605	2961		2179	2543	2904
	70/55									1802	2105	2392		1764	2058	2344
	55/45									1141	1334	1514		1121	1308	1480
3000	90/70									3270	3817	4342		3187	3720	4262
	75/65									2574	3006	3417		2514	2934	3351
	70/55									2080	2429	2760		2035	2375	2704
	55/45									1317	1539	1746		1294	1509	1708



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 Type 21 VK						Type 22 Type 22 VK						Type 33 Type 33 VK							
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]																			
		300	400	500	600	700	900	200*	300	400	500	600	700	900	200*	300	400	500	600	700	900
400	90/70	379	477	569	657	741	899		492	620	741	857	969	1185		699	883	1059	1229	1393	1707
	75/65	298	375	447	515	580	702		386	486	581	672	759	925		552	695	832	962	1089	1331
	70/55	240	302	360	415	466	563		311	392	468	541	610	742		447	562	670	774	875	1067
	55/45	152	191	227	261	292	351		196	246	294	340	382	462		284	356	422	485	547	664
500	90/70	474	596	711	821	926	1123		616	775	926	1071	1212	1481		874	1104	1324	1537	1741	2133
	75/65	373	469	559	644	725	877		483	608	726	840	949	1157		690	869	1040	1203	1362	1664
	70/55	301	378	450	519	583	703		389	490	585	676	763	928		558	702	838	967	1093	1333
	55/45	190	238	283	326	366	438		245	308	367	424	478	578		355	444	527	606	683	830
600	90/70	569	716	854	985	1111	1348		739	930	1111	1285	1454	1777		1048	1325	1589	1844	2090	2560
	75/65	447	562	670	773	870	1052		580	730	871	1007	1138	1388		827	1043	1247	1444	1634	1997
	70/55	361	453	540	622	700	844		467	588	701	811	915	1113		670	842	1005	1160	1312	1600
	55/45	228	286	340	391	439	526		294	370	441	509	573	694		426	533	633	727	820	996
700	90/70	663	835	996	1149	1296	1573		862	1085	1296	1499	1696	2074		1223	1546	1854	2152	2438	2987
	75/65	522	656	782	902	1015	1228		676	851	1016	1175	1328	1619		965	1217	1455	1684	1906	2330
	70/55	421	529	630	726	816	985		545	686	818	946	1068	1299		782	983	1173	1354	1531	1867
	55/45	266	334	397	457	512	614		343	431	514	594	669	809		497	622	738	848	957	1161
800	90/70	758	954	1138	1314	1481	1797	653	985	1240	1481	1713	1939	2370	941	1398	1766	2119	2459	2786	3413
	75/65	596	750	894	1030	1160	1403	519	773	973	1162	1343	1518	1850	747	1103	1390	1663	1925	2178	2662
	70/55	481	604	720	830	933	1125	423	623	783	935	1081	1220	1484	608	893	1123	1340	1547	1749	2134
	55/45	304	381	453	522	585	701	273	392	493	588	679	764	925	391	569	711	844	969	1093	1327
900	90/70	853	1074	1281	1478	1666	2022	734	1108	1395	1666	1928	2181	2666	1059	1572	1987	2384	2766	3135	3840
	75/65	671	843	1005	1159	1305	1579	584	869	1094	1307	1511	1707	2082	841	1241	1564	1871	2165	2451	2995
	70/55	541	680	810	934	1050	1266	476	700	881	1052	1216	1373	1670	684	1005	1264	1508	1741	1968	2400
	55/45	342	429	510	587	658	789	308	441	554	661	764	860	1041	440	640	800	949	1090	1230	1493
1000	90/70	948	1193	1423	1642	1851	2247	816	1231	1550	1852	2142	2423	2962	1177	1747	2208	2649	3074	3483	4267
	75/65	745	937	1117	1288	1450	1754	649	966	1216	1452	1679	1897	2313	934	1379	1738	2079	2406	2723	3328
	70/55	601	756	900	1037	1166	1407	529	778	979	1169	1351	1525	1855	760	1117	1404	1675	1934	2187	2667
	55/45	380	476	567	652	731	877	342	490	616	735	849	955	1156	489	711	889	1055	1211	1366	1659
1100	90/70	1042	1312	1565	1806	2037	2471	898	1354	1705	2037	2356	2665	3259	1294	1922	2429	2914	3381	3831	4693
	75/65	820	1031	1229	1417	1595	1929	714	1063	1338	1597	1847	2087	2544	1027	1517	1912	2287	2647	2995	3661
	70/55	661	831	990	1141	1283	1547	582	856	1077	1286	1487	1678	2041	836	1228	1544	1843	2128	2405	2934
	55/45	418	524	624	718	804	964	376	539	678	808	934	1051	1272	538	782	978	1160	1332	1503	1825
1200	90/70	1137	1431	1708	1970	2222	2696	979	1477	1860	2222	2570	2908	3555	1412	2097	2650	3178	3688	4179	5120
	75/65	894	1124	1340	1546	1740	2105	779	1159	1459	1742	2015	2276	2776	1121	1655	2086	2495	2887	3268	3994
	70/55	721	907	1080	1245	1399	1688	635	934	1175	1403	1622	1830	2226	912	1340	1685	2010	2321	2624	3200
	55/45	456	572	680	783	877	1052	410	588	739	882	1019	1146	1387	587	853	1067	1266	1454	1640	1991
1400	90/70	1327	1670	1992	2299	2592	3145	1142	1723	2170	2592	2999	3392	4147	1647	2446	3091	3708	4303	4876	5973
	75/65	1043	1312	1564	1803	2030	2456	909	1352	1702	2033	2351	2656	3238	1308	1931	2433	2911	3368	3812	4659
	70/55	842	1058	1260	1452	1633	1969	741	1090	1371	1637	1892	2135	2597	1064	1564	1966	2346	2708	3061	3734
	55/45	532	667	794	913	1024	1227	478	686	862	1029	1188	1338	1619	685	995	1244	1477	1696	1913	2323
1600	90/70	1516	1908	2277	2627	2962	3595	1306	1970	2480	2963	3427	3877	4740	1883	2795	3533	4238	4918	5572	6826
	75/65	1192	1499	1787	2061	2320	2806	1038	1546	1946	2323	2686	3035	3701	1494	2206	2781	3326	3850	4357	5325
	70/55	962	1209	1440	1660	1866	2251	847	1245	1567	1871	2162	2440	2968	1216	1787	2246	2681	3095	3499	4267
	55/45	607	762	907	1044	1170	1403	547	784	985	1176	1358	1529	1850	782	1137	1422	1688	1938	2186	2655
1800	90/70	1706	2147	2561	2956	3333	4044	1469	2216	2790	3333	3855	4362	5332	2118	3145	3974	4768	5533	6269	7680
	75/65	1341	1687	2011	2318	2610	3157	1168	1739	2189	2614	3022	3415	4163	1681	2482	3128	3742	4331	4901	5990
	70/55	1082	1360	1620	1867	2099	2532	953	1401	1763	2104	2433	2745	3339	1368	2010	2527	3016	3481	3936	4800
	55/45	683	858	1020	1174	1316	1578	615	882	1109	1323	1528	1720	2081	880	1279	1600	1899	2180	2460	2987
2000	90/70	1895	2386	2846	3284	3703	4493	1632	2462	3100	3703	4284	4846	5925	2353	3494	4416	5297	6147	6966	8533
	75/65	1490	1874	2234	2576	2900	3508	1298	1932	2432	2904	3358	3794	4626	1868	2758	3476	4158	4812	5446	6656
	70/55	1202	1511	1800	2075	2332	2813	1058	1557	1959	2338	2703	3050	3710	1520	2234	2808	3351	3868	4373	5334
	55/45	759	953	1134	1305	1462	1753	683	980	1232	1470	1698	1911	2312	978	1421	1778	2110	2423	2733	3318
2300	90/70			3273	3777	4258		1877	2831	3565	4259	4926	5573		2706	4018	5078	6092	7070	8010	
	75/65			2569	2962	3335		1493	2222	2797	3340	3862	4363		2148	3172	3997	4782	5534	6263	
	70/55			2070	2386	2682		1217	1790	2253	2689	3108	3508		1748	2569	3229	3853	4448	5029	
	55/45			1304	1500	1682		786	1												

RADIK KLASIK - Z, VK - 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	90/70			261	306	352	444	279	360	436	509	579	709
	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
500	90/70	210	269	326	382	440	555	349	450	545	636	724	887
	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
600	90/70	252	323	391	459	528	666	419	540	654	763	868	1064
	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
700	90/70			457	535	616	777	488	630	763	891	1013	1241
	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
800	90/70			522	612	704	889	558	720	872	1018	1158	1419
	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
900	90/70			587	688	791	1000	628	810	981	1145	1303	1596
	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
1000	90/70			652	765	879	1111	698	900	1090	1272	1447	1773
	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
1100	90/70			718	841	967	1222	768	990	1199	1400	1592	1951
	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
1200	90/70			783	918	1055	1333	837	1080	1308	1527	1737	2128
	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
1400	90/70			913	1071	1231	1555	977	1260	1526	1781	2026	2483
	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
1600	90/70			1044	1224	1407	1777	1117	1439	1744	2036	2316	2838
	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
1800	90/70			1174	1377	1583		1256	1619	1962	2290	2605	
	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	
2000	90/70			1305	1529	1759		1396	1799	2180	2545	2895	
	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	



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 Type 21 VK						Type 22 Type 22 VK						Type 33 Type 33 VK							
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]																			
		300	400	500	600	700	900	200*	300	400	500	600	700	900	200*	300	400	500	600	700	900
400	90/70	379	477	569	657	741	899		492	620	741	857	969	1185		699	883	1059	1229	1393	1707
	75/65	298	375	447	515	580	702		386	486	581	672	759	925		552	695	832	962	1089	1331
	70/55	240	302	360	415	466	563		311	392	468	541	610	742		447	562	670	774	875	1067
	55/45	152	191	227	261	292	351		196	246	294	340	382	462		284	356	422	485	547	664
500	90/70	474	596	711	821	926	1123		616	775	926	1071	1212	1481		874	1104	1324	1537	1741	2133
	75/65	373	469	559	644	725	877		483	608	726	840	949	1157		690	869	1040	1203	1362	1664
	70/55	301	378	450	519	583	703		389	490	585	676	763	928		558	702	838	967	1093	1333
	55/45	190	238	283	326	366	438		245	308	367	424	478	578		355	444	527	606	683	830
600	90/70	569	716	854	985	1111	1348		739	930	1111	1285	1454	1777		1048	1325	1589	1844	2090	2560
	75/65	447	562	670	773	870	1052		580	730	871	1007	1138	1388		827	1043	1247	1444	1634	1997
	70/55	361	453	540	622	700	844		467	588	701	811	915	1113		670	842	1005	1160	1312	1600
	55/45	228	286	340	391	439	526		294	370	441	509	573	694		426	533	633	727	820	996
700	90/70	663	835	996	1149	1296	1573		862	1085	1296	1499	1696	2074		1223	1546	1854	2152	2438	2987
	75/65	522	656	782	902	1015	1228		676	851	1016	1175	1328	1619		965	1217	1455	1684	1906	2330
	70/55	421	529	630	726	816	985		545	686	818	946	1068	1299		782	983	1173	1354	1531	1867
	55/45	266	334	397	457	512	614		343	431	514	594	669	809		497	622	738	848	957	1161
800	90/70	758	954	1138	1314	1481	1797	653	985	1240	1481	1713	1939	2370	941	1398	1766	2119	2459	2786	3413
	75/65	596	750	894	1030	1160	1403	519	773	973	1162	1343	1518	1850	747	1103	1390	1663	1925	2178	2662
	70/55	481	604	720	830	933	1125	423	623	783	935	1081	1220	1484	608	893	1123	1340	1547	1749	2134
	55/45	304	381	453	522	585	701	273	392	493	588	679	764	925	391	569	711	844	969	1093	1327
900	90/70	853	1074	1281	1478	1666	2022	734	1108	1395	1666	1928	2181	2666	1059	1572	1987	2384	2766	3135	3840
	75/65	671	843	1005	1159	1305	1579	584	869	1094	1307	1511	1707	2082	841	1241	1564	1871	2165	2451	2995
	70/55	541	680	810	934	1050	1266	476	700	881	1052	1216	1373	1670	684	1005	1264	1508	1741	1968	2400
	55/45	342	429	510	587	658	789	308	441	554	661	764	860	1041	440	640	800	949	1090	1230	1493
1000	90/70	948	1193	1423	1642	1851	2247	816	1231	1550	1852	2142	2423	2962	1177	1747	2208	2649	3074	3483	4267
	75/65	745	937	1117	1288	1450	1754	649	966	1216	1452	1679	1897	2313	934	1379	1738	2079	2406	2723	3328
	70/55	601	756	900	1037	1166	1407	529	778	979	1169	1351	1525	1855	760	1117	1404	1675	1934	2187	2667
	55/45	380	476	567	652	731	877	342	490	616	735	849	955	1156	489	711	889	1055	1211	1366	1659
1100	90/70	1042	1312	1565	1806	2037	2471	898	1354	1705	2037	2356	2665	3259	1294	1922	2429	2914	3381	3831	4693
	75/65	820	1031	1229	1417	1595	1929	714	1063	1338	1597	1847	2087	2544	1027	1517	1912	2287	2647	2995	3661
	70/55	661	831	990	1141	1283	1547	582	856	1077	1286	1487	1678	2041	836	1228	1544	1843	2128	2405	2934
	55/45	418	524	624	718	804	964	376	539	678	808	934	1051	1272	538	782	978	1160	1332	1503	1825
1200	90/70	1137	1431	1708	1970	2222	2696	979	1477	1860	2222	2570	2908	3555	1412	2097	2650	3178	3688	4179	5120
	75/65	894	1124	1340	1546	1740	2105	779	1159	1459	1742	2015	2276	2776	1121	1655	2086	2495	2887	3268	3994
	70/55	721	907	1080	1245	1399	1688	635	934	1175	1403	1622	1830	2226	912	1340	1685	2010	2321	2624	3200
	55/45	456	572	680	783	877	1052	410	588	739	882	1019	1146	1387	587	853	1067	1266	1454	1640	1991
1400	90/70	1327	1670	1992	2299	2592	3145	1142	1723	2170	2592	2999	3392	4147	1647	2446	3091	3708	4303	4876	5973
	75/65	1043	1312	1564	1803	2030	2456	909	1352	1702	2033	2351	2656	3238	1308	1931	2433	2911	3368	3812	4659
	70/55	842	1058	1260	1452	1633	1969	741	1090	1371	1637	1892	2135	2597	1064	1564	1966	2346	2708	3061	3734
	55/45	532	667	794	913	1024	1227	478	686	862	1029	1188	1338	1619	685	995	1244	1477	1696	1913	2323
1600	90/70	1516	1908	2277	2627	2962	3595	1306	1970	2480	2963	3427	3877	4740	1883	2795	3533	4238	4918	5572	6826
	75/65	1192	1499	1787	2061	2320	2806	1038	1546	1946	2323	2686	3035	3701	1494	2206	2781	3326	3850	4357	5325
	70/55	962	1209	1440	1660	1866	2251	847	1245	1567	1871	2162	2440	2968	1216	1787	2246	2681	3095	3499	4267
	55/45	607	762	907	1044	1170	1403	547	784	985	1176	1358	1529	1850	782	1137	1422	1688	1938	2186	2655
1800	90/70	1706	2147	2561	2956	3333	4044	1469	2216	2790	3333	3855	4362	5332	2118	3145	3974	4768	5533	6269	7680
	75/65	1341	1687	2011	2318	2610	3157	1168	1739	2189	2614	3022	3415	4163	1681	2482	3128	3742	4331	4901	5990
	70/55	1082	1360	1620	1867	2099	2532	953	1401	1763	2104	2433	2745	3339	1368	2010	2527	3016	3481	3936	4800
	55/45	683	858	1020	1174	1316	1578	615	882	1109	1323	1528	1720	2081	880	1279	1600	1899	2180	2460	2987
2000	90/70	1895	2386	2846	3284	3703	4493	1632	2462	3100	3703	4284	4846	5925	2353	3494	4416	5297	6147	6966	8533
	75/65	1490	1874	2234	2576	2900	3508	1298	1932	2432	2904	3358	3794	4626	1868	2758	3476	4158	4812	5446	6656
	70/55	1202	1511	1800	2075	2332	2813	1058	1557	1959	2338	2703	3050	3710	1520	2234	2808	3351	3868	4373	5334
	55/45	759	953	1134	1305	1462	1753	683	980	1232	1470	1698	1911	2312	978	1421	1778	2110	2423	2733	3318

* Steel panel radiators in the height 200 mm are supplied only in the version KLASIK.

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	90/70	463	617	804	1152
	75/65	366	484	630	903
	70/55	296	390	507	727
	55/45	188	245	319	456
500	90/70	579	771	1005	1440
	75/65	457	605	788	1129
	70/55	370	487	634	908
	55/45	235	307	399	570
600	90/70	695	925	1206	1728
	75/65	548	726	946	1354
	70/55	444	585	761	1090
	55/45	282	368	478	684
700	90/70	811	1079	1407	2016
	75/65	640	847	1103	1580
	70/55	518	682	888	1271
	55/45	329	429	558	798
800	90/70	927	1234	1608	2304
	75/65	731	968	1261	1806
	70/55	592	780	1015	1453
	55/45	376	491	638	912
900	90/70	1043	1388	1809	2592
	75/65	823	1089	1418	2031
	70/55	666	877	1142	1635
	55/45	423	552	717	1026
1000	90/70	1159	1542	2010	2880
	75/65	914	1210	1576	2257
	70/55	740	975	1269	1816
	55/45	470	613	797	1140
1100	90/70	1275	1696	2211	3168
	75/65	1005	1331	1734	2483
	70/55	814	1072	1396	1998
	55/45	517	675	877	1254
1200	90/70	1390	1850	2412	3456
	75/65	1097	1452	1891	2708
	70/55	888	1170	1522	2180
	55/45	564	736	957	1368
1400	90/70	1622	2159	2814	4032
	75/65	1280	1694	2206	3160
	70/55	1036	1365	1776	2543
	55/45	658	859	1116	1597
1600	90/70	1854	2467	3216	4608
	75/65	1462	1936	2522	3611
	70/55	1184	1560	2030	2906
	55/45	752	981	1275	1825
1800	90/70	2086	2776	3618	5183
	75/65	1645	2178	2837	4063
	70/55	1332	1755	2284	3269
	55/45	846	1104	1435	2053
2000	90/70	2317	3084	4020	5759
	75/65	1828	2420	3152	4514
	70/55	1480	1950	2537	3633
	55/45	940	1227	1594	2281

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	90/70	427	584	780	1117
	75/65	338	459	613	878
	70/55	275	370	494	709
	55/45	176	234	312	448
500	90/70	534	730	975	1397
	75/65	423	574	766	1098
	70/55	344	463	618	886
	55/45	220	292	390	559
600	90/70	641	876	1170	1676
	75/65	508	689	919	1318
	70/55	412	556	741	1063
	55/45	264	351	468	671
700	90/70	748	1023	1365	1956
	75/65	592	804	1072	1537
	70/55	481	648	865	1240
	55/45	308	409	546	783
800	90/70	855	1169	1560	2235
	75/65	677	918	1226	1757
	70/55	550	741	989	1418
	55/45	352	468	624	895
900	90/70	962	1315	1755	2514
	75/65	761	1033	1379	1976
	70/55	618	833	1112	1595
	55/45	396	526	702	1007
1000	90/70	1068	1461	1950	2794
	75/65	846	1148	1532	2196
	70/55	687	926	1236	1772
	55/45	440	584	780	1119
1100	90/70	1175	1607	2145	3073
	75/65	931	1263	1685	2416
	70/55	756	1019	1359	1949
	55/45	484	643	858	1231
1200	90/70	1282	1753	2340	3352
	75/65	1015	1378	1838	2635
	70/55	825	1111	1483	2126
	55/45	528	701	935	1343
1400	90/70	1496	2045	2730	3911
	75/65	1184	1607	2145	3074
	70/55	962	1297	1730	2481
	55/45	616	818	1091	1566
1600	90/70	1709	2337	3120	4470
	75/65	1354	1837	2451	3514
	70/55	1099	1482	1977	2835
	55/45	704	935	1247	1790
1800	90/70	1923	2629	3510	5029
	75/65	1523	2066	2758	3953
	70/55	1237	1667	2224	3190
	55/45	792	1052	1403	2014
2000	90/70	2137	2922	3900	5587
	75/65	1692	2296	3064	4392
	70/55	1374	1852	2471	3544
	55/45	880	1169	1559	2238



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	90/70	503	624	739	851	963	1186
	75/65	397	492	582	670	756	926
	70/55	321	398	471	541	610	743
	55/45	204	252	298	343	384	463
500	90/70	629	780	923	1064	1204	1483
	75/65	496	615	728	838	946	1158
	70/55	401	497	588	677	762	928
	55/45	255	315	373	429	480	579
600	90/70	755	935	1108	1276	1445	1779
	75/65	595	737	873	1005	1135	1389
	70/55	482	596	706	812	915	1114
	55/45	306	379	448	515	576	694
700	90/70	880	1091	1293	1489	1686	2076
	75/65	694	860	1019	1173	1324	1621
	70/55	562	696	823	948	1067	1300
	55/45	357	442	522	600	672	810
800	90/70	1006	1247	1477	1702	1927	2372
	75/65	794	983	1164	1340	1513	1852
	70/55	642	795	941	1083	1219	1485
	55/45	408	505	597	686	768	926
900	90/70	1132	1403	1662	1914	2167	2669
	75/65	893	1106	1310	1508	1702	2084
	70/55	722	895	1059	1218	1372	1671
	55/45	459	568	671	772	864	1041
1000	90/70	1258	1559	1847	2127	2408	2965
	75/65	992	1229	1455	1675	1891	2315
	70/55	803	994	1176	1354	1524	1857
	55/45	510	631	746	858	960	1157
1100	90/70	1384	1715	2032	2340	2649	3262
	75/65	1091	1352	1601	1843	2080	2547
	70/55	883	1094	1294	1489	1677	2042
	55/45	561	694	821	943	1056	1273
1200	90/70	1509	1871	2216	2553	2890	3558
	75/65	1190	1475	1746	2010	2269	2778
	70/55	963	1193	1412	1624	1829	2228
	55/45	612	757	895	1029	1152	1389
1400	90/70	1761	2183	2586	2978	3372	4151
	75/65	1389	1721	2037	2345	2647	3241
	70/55	1124	1392	1647	1895	2134	2599
	55/45	714	883	1044	1201	1345	1620
1600	90/70	2013	2495	2955	3403	3853	4744
	75/65	1587	1966	2328	2680	3026	3704
	70/55	1284	1591	1882	2166	2439	2971
	55/45	816	1010	1194	1372	1537	1852
1800	90/70	2264	2806	3324	3829	4335	5337
	75/65	1786	2212	2619	3015	3404	4167
	70/55	1445	1789	2117	2437	2744	3342
	55/45	918	1136	1343	1544	1729	2083
2000	90/70	2516	3118	3694	4254	4817	5930
	75/65	1984	2458	2910	3350	3782	4630
	70/55	1606	1988	2353	2707	3049	3713
	55/45	1020	1262	1492	1715	1921	2314
2300	90/70	2893	3586	4248	4892	5539	
	75/65	2282	2827	3347	3853	4349	
	70/55	1846	2286	2706	3113	3506	
	55/45	1173	1451	1716	1972	2209	
2600	90/70	3270	4054	4802	5531	6262	
	75/65	2579	3195	3783	4355	4917	
	70/55	2087	2585	3059	3519	3963	
	55/45	1326	1641	1939	2230	2497	
3000	90/70	3774	4677	5540	6381	7225	
	75/65	2976	3687	4365	5025	5673	
	70/55	2408	2982	3529	4061	4573	
	55/45	1530	1893	2238	2573	2881	

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	90/70			261	306	352	444	279	360	436	509	579	709
	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
500	90/70	210	269	326	382	440	555	349	450	545	636	724	887
	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
600	90/70	252	323	391	459	528	666	419	540	654	763	868	1064
	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
700	90/70			457	535	616	777	488	630	763	891	1013	1241
	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
800	90/70			522	612	704	889	558	720	872	1018	1158	1419
	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
900	90/70			587	688	791	1000	628	810	981	1145	1303	1596
	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
1000	90/70			652	765	879	1111	698	900	1090	1272	1447	1773
	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
1100	90/70			718	841	967	1222	768	990	1199	1400	1592	1951
	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
1200	90/70			783	918	1055	1333	837	1080	1308	1527	1737	2128
	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
1400	90/70			913	1071	1231	1555	977	1260	1526	1781	2026	2483
	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
1600	90/70			1044	1224	1407	1777	1117	1439	1744	2036	2316	2838
	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
1800	90/70			1174	1377	1583		1256	1619	1962	2290	2605	
	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	
2000	90/70			1305	1529	1759		1396	1799	2180	2545	2895	
	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	
2300	90/70									2507	2927	3329	
	75/65									1973	2305	2620	
	70/55									1594	1862	2116	
	55/45									1009	1180	1339	
2600	90/70									2834	3308	3763	
	75/65									2231	2605	2961	
	70/55									1802	2105	2392	
	55/45									1141	1334	1514	
3000	90/70									3270	3817	4342	
	75/65									2574	3006	3417	
	70/55									2080	2429	2760	
	55/45									1317	1539	1746	



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 VKL						Type 22 VKL						Type 33 VKL					
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
400	90/70	379	477	569	657	741	899	492	620	741	857	969	1185	699	883	1059	1229	1393	1707
	75/65	298	375	447	515	580	702	386	486	581	672	759	925	552	695	832	962	1089	1331
	70/55	240	302	360	415	466	563	311	392	468	541	610	742	447	562	670	774	875	1067
	55/45	152	191	227	261	292	351	196	246	294	340	382	462	284	356	422	485	547	664
500	90/70	474	596	711	821	926	1123	616	775	926	1071	1212	1481	874	1104	1324	1537	1741	2133
	75/65	373	469	559	644	725	877	483	608	726	840	949	1157	690	869	1040	1203	1362	1664
	70/55	301	378	450	519	583	703	389	490	585	676	763	928	558	702	838	967	1093	1333
	55/45	190	238	283	326	366	438	245	308	367	424	478	578	355	444	527	606	683	830
600	90/70	569	716	854	985	1111	1348	739	930	1111	1285	1454	1777	1048	1325	1589	1844	2090	2560
	75/65	447	562	670	773	870	1052	580	730	871	1007	1138	1388	827	1043	1247	1444	1634	1997
	70/55	361	453	540	622	700	844	467	588	701	811	915	1113	670	842	1005	1160	1312	1600
	55/45	228	286	340	391	439	526	294	370	441	509	573	694	426	533	633	727	820	996
700	90/70	663	835	996	1149	1296	1573	862	1085	1296	1499	1696	2074	1223	1546	1854	2152	2438	2987
	75/65	522	656	782	902	1015	1228	676	851	1016	1175	1328	1619	965	1217	1455	1684	1906	2330
	70/55	421	529	630	726	816	985	545	686	818	946	1068	1299	782	983	1173	1354	1531	1867
	55/45	266	334	397	457	512	614	343	431	514	594	669	809	497	622	738	848	957	1161
800	90/70	758	954	1138	1314	1481	1797	985	1240	1481	1713	1939	2370	1398	1766	2119	2459	2786	3413
	75/65	596	750	894	1030	1160	1403	773	973	1162	1343	1518	1850	1103	1390	1663	1925	2178	2662
	70/55	481	604	720	830	933	1125	623	783	935	1081	1220	1484	893	1123	1340	1547	1749	2134
	55/45	304	381	453	522	585	701	392	493	588	679	764	925	569	711	844	969	1093	1327
900	90/70	853	1074	1281	1478	1666	2022	1108	1395	1666	1928	2181	2666	1572	1987	2384	2766	3135	3840
	75/65	671	843	1005	1159	1305	1579	869	1094	1307	1511	1707	2082	1241	1564	1871	2165	2451	2995
	70/55	541	680	810	934	1050	1266	700	881	1052	1216	1373	1670	1005	1264	1508	1741	1968	2400
	55/45	342	429	510	587	658	789	441	554	661	764	860	1041	640	800	949	1090	1230	1493
1000	90/70	948	1193	1423	1642	1851	2247	1231	1550	1852	2142	2423	2962	1747	2208	2649	3074	3483	4267
	75/65	745	937	1117	1288	1450	1754	966	1216	1452	1679	1897	2313	1379	1738	2079	2406	2723	3328
	70/55	601	756	900	1037	1166	1407	778	979	1169	1351	1525	1855	1117	1404	1675	1934	2187	2667
	55/45	380	476	567	652	731	877	490	616	735	849	955	1156	711	889	1055	1211	1366	1659
1100	90/70	1042	1312	1565	1806	2037	2471	1354	1705	2037	2356	2665	3259	1922	2429	2914	3381	3831	4693
	75/65	820	1031	1229	1417	1595	1929	1063	1338	1597	1847	2087	2544	1517	1912	2287	2647	2995	3661
	70/55	661	831	990	1141	1283	1547	856	1077	1286	1487	1678	2041	1228	1544	1843	2128	2405	2934
	55/45	418	524	624	718	804	964	539	678	808	934	1051	1272	782	978	1160	1332	1503	1825
1200	90/70	1137	1431	1708	1970	2222	2696	1477	1860	2222	2570	2908	3555	2097	2650	3178	3688	4179	5120
	75/65	894	1124	1340	1546	1740	2105	1159	1459	1742	2015	2276	2776	1655	2086	2495	2887	3268	3994
	70/55	721	907	1080	1245	1399	1688	934	1175	1403	1622	1830	2226	1340	1685	2010	2321	2624	3200
	55/45	456	572	680	783	877	1052	588	739	882	1019	1146	1387	853	1067	1266	1454	1640	1991
1400	90/70	1327	1670	1992	2299	2592	3145	1723	2170	2592	2999	3392	4147	2446	3091	3708	4303	4876	5973
	75/65	1043	1312	1564	1803	2030	2456	1352	1702	2033	2351	2656	3238	1931	2433	2911	3368	3812	4659
	70/55	842	1058	1260	1452	1633	1969	1090	1371	1637	1892	2135	2597	1564	1966	2346	2708	3061	3734
	55/45	532	667	794	913	1024	1227	686	862	1029	1188	1338	1619	995	1244	1477	1696	1913	2323
1600	90/70	1516	1908	2277	2627	2962	3595	1970	2480	2963	3427	3877	4740	2795	3533	4238	4918	5572	6826
	75/65	1192	1499	1787	2061	2320	2806	1546	1946	2323	2686	3035	3701	2206	2781	3326	3850	4357	5325
	70/55	962	1209	1440	1660	1866	2251	1245	1567	1871	2162	2440	2968	1787	2246	2681	3095	3499	4267
	55/45	607	762	907	1044	1170	1403	784	985	1176	1358	1529	1850	1137	1422	1688	1938	2186	2655
1800	90/70	1706	2147	2561	2956	3333	4044	2216	2790	3333	3855	4362	5332	3145	3974	4768	5533	6269	7680
	75/65	1341	1687	2011	2318	2610	3157	1739	2189	2614	3022	3415	4163	2482	3128	3742	4331	4901	5990
	70/55	1082	1360	1620	1867	2099	2532	1401	1763	2104	2433	2745	3339	2010	2527	3016	3481	3936	4800
	55/45	683	858	1020	1174	1316	1578	882	1109	1323	1528	1720	2081	1279	1600	1899	2180	2460	2987
2000	90/70	1895	2386	2846	3284	3703	4493	2462	3100	3703	4284	4846	5925	3494	4416	5297	6147	6966	8533
	75/65	1490	1874	2234	2576	2900	3508	1932	2432	2904	3358	3794	4626	2758	3476	4158	4812	5446	6656
	70/55	1202	1511	1800	2075	2332	2813	1557	1959	2338	2703	3050	3710	2234	2808	3351	3868	4373	5334
	55/45	759	953	1134	1305	1462	1753	980	1232	1470	1698	1911	2312	1421	1778	2110	2423	2733	3318
2300	90/70			3273	3777	4258		2831	3565	4259	4926	5573		4018	5078	6092	7070	8010	
	75/65			2569	2962	3335		2222	2797	3340	3862	4363		3172	3997	4782	5534	6263	
	70/55			2070	2386	2682		1790	2253	2689	3108	3508		2569	3229	3853	4448	5029	
	55/45			1304	1500	1682		1126	1417	1690	1952	2197		1635	2044	2426	2786	3143	
2600	90/70			3700	4269	4814		3201	4030	4814	5569	6300		4542	5741	6886	7992	9055	
	75/65			2904	3349	3770		2512	3162	3775	4365	4932		3585	4519	5405	6256	7080	
	70/55			2341	2697	3032		2023	2546	3040	3514	3965		2904	3651	4356	5029	5685	
	55/45			1474	1696	1901		1273	1601	1910	2207	2484		1848	2311	2743	3149	3553	
3000	90/70			4269	4926	5554		3693	4650	5555	6425	7270		5241	6624	7946	9221	10448	
	75/65			3351	3864	4350		2898	3648	4356	5037	5691		4					

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 VKU				Type 22 VKU							Type 33 VKU						
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]																	
		500	600	700	900	200	300	400	500	600	700	900	200	300	400	500	600	700	900
400	90/70	569	657	741	899		492	620	741	857	969	1185				1059	1229	1393	1707
	75/65	447	515	580	702		386	486	581	672	759	925				832	962	1089	1331
	70/55	360	415	466	563		311	392	468	541	610	742				670	774	875	1067
	55/45	227	261	292	351		196	246	294	340	382	462				422	485	547	664
500	90/70	711	821	926	1123		616	775	926	1071	1212	1481				1324	1537	1741	2133
	75/65	559	644	725	877		483	608	726	840	949	1157				1040	1203	1362	1664
	70/55	450	519	583	703		389	490	585	676	763	928				838	967	1093	1333
	55/45	283	326	366	438		245	308	367	424	478	578				527	606	683	830
600	90/70	854	985	1111	1348		739	930	1111	1285	1454	1777				1589	1844	2090	2560
	75/65	670	773	870	1052		580	730	871	1007	1138	1388				1247	1444	1634	1997
	70/55	540	622	700	844		467	588	701	811	915	1113				1005	1160	1312	1600
	55/45	340	391	439	526		294	370	441	509	573	694				633	727	820	996
700	90/70	996	1149	1296	1573		862	1085	1296	1499	1696	2074				1854	2152	2438	2987
	75/65	782	902	1015	1228		676	851	1016	1175	1328	1619				1455	1684	1906	2330
	70/55	630	726	816	985		545	686	818	946	1068	1299				1173	1354	1531	1867
	55/45	397	457	512	614		343	431	514	594	669	809				738	848	957	1161
800	90/70	1138	1314	1481	1797	653	985	1240	1481	1713	1939	2370	941	1398	1766	2119	2459	2786	3413
	75/65	894	1030	1160	1403	519	773	973	1162	1343	1518	1850	747	1103	1390	1663	1925	2178	2662
	70/55	720	830	933	1125	423	623	783	935	1081	1220	1484	608	893	1123	1340	1547	1749	2134
	55/45	453	522	585	701	273	392	493	588	679	764	925	391	569	711	844	969	1093	1327
900	90/70	1281	1478	1666	2022	734	1108	1395	1666	1928	2181	2666	1059	1572	1987	2384	2766	3135	3840
	75/65	1005	1159	1305	1579	584	869	1094	1307	1511	1707	2082	841	1241	1564	1871	2165	2451	2995
	70/55	810	934	1050	1266	476	700	881	1052	1216	1373	1670	684	1005	1264	1508	1741	1968	2400
	55/45	510	587	658	789	308	441	554	661	764	860	1041	440	640	800	949	1090	1230	1493
1000	90/70	1423	1642	1851	2247	816	1231	1550	1852	2142	2423	2962	1177	1747	2208	2649	3074	3483	4267
	75/65	1117	1288	1450	1754	649	966	1216	1452	1679	1897	2313	934	1379	1738	2079	2406	2723	3328
	70/55	900	1037	1166	1407	529	778	979	1169	1351	1525	1855	760	1117	1404	1675	1934	2187	2667
	55/45	567	652	731	877	342	490	616	735	849	955	1156	489	711	889	1055	1211	1366	1659
1100	90/70	1565	1806	2037	2471	898	1354	1705	2037	2356	2665	3259	1294	1922	2429	2914	3381	3831	4693
	75/65	1229	1417	1595	1929	714	1063	1338	1597	1847	2087	2544	1027	1517	1912	2287	2647	2995	3661
	70/55	990	1141	1283	1547	582	856	1077	1286	1487	1678	2041	836	1228	1544	1843	2128	2405	2934
	55/45	624	718	804	964	376	539	678	808	934	1051	1272	538	782	978	1160	1332	1503	1825
1200	90/70	1708	1970	2222	2696	979	1477	1860	2222	2570	2908	3555	1412	2097	2650	3178	3688	4179	5120
	75/65	1340	1546	1740	2105	779	1159	1459	1742	2015	2276	2776	1121	1655	2086	2495	2887	3268	3994
	70/55	1080	1245	1399	1688	635	934	1175	1403	1622	1830	2226	912	1340	1685	2010	2321	2624	3200
	55/45	680	783	877	1052	410	588	739	882	1019	1146	1387	587	853	1067	1266	1454	1640	1991
1400	90/70	1992	2299	2592	3145	1142	1723	2170	2592	2999	3392	4147	1647	2446	3091	3708	4303	4876	5973
	75/65	1564	1803	2030	2456	909	1352	1702	2033	2351	2656	3238	1308	1931	2433	2911	3368	3812	4659
	70/55	1260	1452	1633	1969	741	1090	1371	1637	1892	2135	2597	1064	1564	1966	2346	2708	3061	3734
	55/45	794	913	1024	1227	478	686	862	1029	1188	1338	1619	685	995	1244	1477	1696	1913	2323
1600	90/70	2277	2627	2962	3595	1306	1970	2480	2963	3427	3877	4740	1883	2795	3533	4238	4918	5572	6826
	75/65	1787	2061	2320	2806	1038	1546	1946	2323	2686	3035	3701	1494	2206	2781	3326	3850	4357	5325
	70/55	1440	1660	1866	2251	847	1245	1567	1871	2162	2440	2968	1216	1787	2246	2681	3095	3499	4267
	55/45	907	1044	1170	1403	547	784	985	1176	1358	1529	1850	782	1137	1422	1688	1938	2186	2655
1800	90/70	2561	2956	3333	4044	1469	2216	2790	3333	3855	4362	5332	2118	3145	3974	4768	5533	6269	7680
	75/65	2011	2318	2610	3157	1168	1739	2189	2614	3022	3415	4163	1681	2482	3128	3742	4331	4901	5990
	70/55	1620	1867	2099	2532	953	1401	1763	2104	2433	2745	3339	1368	2010	2527	3016	3481	3936	4800
	55/45	1020	1174	1316	1578	615	882	1109	1323	1528	1720	2081	880	1279	1600	1899	2180	2460	2987
2000	90/70	2846	3284	3703	4493	1632	2462	3100	3703	4284	4846	5925	2353	3494	4416	5297	6147	6966	8533
	75/65	2234	2576	2900	3508	1298	1932	2432	2904	3358	3794	4626	1868	2758	3476	4158	4812	5446	6656
	70/55	1800	2075	2332	2813	1058	1557	1959	2338	2703	3050	3710	1520	2234	2808	3351	3868	4373	5334
	55/45	1134	1305	1462	1753	683	980	1232	1470	1698	1911	2312	978	1421	1778	2110	2423	2733	3318
2300	90/70					1877	2831	3565	4259	4926	5573		2706	4018	5078	6092	7070	8010	
	75/65					1493	2222	2797	3340	3862	4363		2148	3172	3997	4782	5534	6263	
	70/55					1217	1790	2253	2689	3108	3508		1748	2569	3229	3853	4448	5029	
	55/45					786	1126	1417	1690	1952	2197		1125	1635	2044	2426	2786	3143	
2600	90/70					2122	3201	4030	4814	5569	6300		3059	4542	5741	6886	7992	9055	
	75/65					1687	2512	3162	3775	4365	4932		2428	3585	4519	5405	6256	7080	
	70/55					1376	2023	2546	3040	3514	3965		1977	2904	3651	4356	5029	5685	
	55/45					888	1273	1601	1910	2207	2484		1271	1848	2311	2743	3149	3553	
3000	90/70					2448	3693	4650	5555	6425	7270		3530	5241	6624	7946	9221	10448	
	75/65					1947	2898	3648	4356	5037	5691		2802	4137	5214	6237	7218	8169	
	70/55					1588	2335	2938	3507	4054	4575		2281	3350	4212	5026	5802	6560	
	55/45					1025	1469	1848	2204	2546	2866		1467	2132	2666	3165	3634	4099	



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

t _i		Type 22 COMBI VK											
		15 °C		20 °C		22 °C		Radiator weight M _r [kg]		Water volume V _r [l]		Max. output of the el. heating element P [W]	
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		500	600	500	600	500	600	500	600	500	600	500	600
800	90/70	1587	1856	1430	1672	1369	1599	23,0	27,4	4,9	5,7	600	700
	75/65	1277	1492	1129	1317	1071	1248						
	70/55	1056	1231	914	1065	859	999						
	55/45	710	826	582	675	532	617						
1000	90/70	1984	2320	1788	2089	1711	1999	28,6	34,2	6,2	7,1	800	900
	75/65	1597	1865	1411	1646	1338	1560						
	70/55	1320	1539	1143	1331	1073	1249						
	55/45	888	1032	727	844	665	771						
1200	90/70	2380	2784	2145	2507	2053	2399	34,2	40,8	7,4	8,5	900	1000
	75/65	1916	2238	1693	1975	1606	1872						
	70/55	1584	1847	1371	1597	1288	1499						
	55/45	1066	1239	872	1012	798	925						
1400	90/70	2777	3248	2503	2925	2395	2798	39,7	47,5	8,7	9,9	1000	1200
	75/65	2236	2610	1975	2304	1873	2185						
	70/55	1848	2155	1600	1863	1503	1749						
	55/45	1243	1445	1018	1181	931	1079						
1600	90/70	3174	3712	2860	3343	2737	3198	45,1	54,3	9,9	11,4	1200	1350
	75/65	2555	2983	2258	2634	2141	2497						
	70/55	2112	2463	1828	2129	1717	1999						
	55/45	1421	1651	1163	1350	1064	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]		500	600
Nominal heat output [W/m]		1411	1646
Temp. exponent n [-]		1,2981	1,3085
K_T	c_0	15,43760	1,31477
b	c_1	0,87128	-0,01226
Radiator weight [kg/m]		28,6	34,2
Water volume [l/m]		6,2	7,1

RADIK VKM, VKM - L

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 VKM Type 10 VKM - L						Type 11 VKM Type 11 VKM - L					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
400	90/70			290	338	383	470	268	345	421	498	574	730
	75/65			229	266	301	369	213	273	332	392	452	573
	70/55			185	215	243	297	174	222	269	316	364	462
	55/45			117	136	153	187	112	142	171	200	230	290
500	90/70	237	302	363	423	479	588	335	431	526	622	718	912
	75/65	188	238	286	333	377	461	267	342	416	490	565	716
	70/55	152	193	231	269	304	371	217	277	337	395	456	577
	55/45	97	122	147	170	192	233	140	178	214	250	288	363
600	90/70	285	362	436	507	575	705	402	517	632	747	862	1095
	75/65	225	286	343	399	452	553	320	410	499	587	677	859
	70/55	182	231	277	322	365	445	261	333	404	474	547	692
	55/45	116	147	176	204	230	280	168	213	257	300	345	436
700	90/70			508	592	671	823	469	603	737	871	1005	1277
	75/65			400	466	527	645	373	478	582	685	790	1002
	70/55			324	376	425	520	304	388	471	553	638	808
	55/45			205	238	268	327	196	249	300	350	403	508
800	90/70			581	676	766	941	536	690	842	995	1149	1460
	75/65			458	532	602	738	426	546	665	783	903	1146
	70/55			370	430	486	594	348	444	539	632	729	923
	55/45			235	272	307	373	224	285	343	400	460	581
900	90/70			653	761	862	1058	603	776	947	1120	1293	1642
	75/65			515	599	678	830	480	615	748	881	1016	1289
	70/55			416	483	547	668	391	499	606	712	820	1038
	55/45			264	306	345	420	252	320	386	450	518	654
1000	90/70			726	845	958	1176	670	862	1053	1244	1436	1825
	75/65			572	665	753	922	533	683	831	979	1129	1432
	70/55			462	537	608	742	434	555	673	791	911	1154
	55/45			293	340	383	467	280	356	429	500	575	726
1100	90/70			799	930	1054		737	948	1158	1369	1580	2007
	75/65			629	732	828		586	751	914	1077	1242	1575
	70/55			509	591	668		478	610	740	870	1002	1269
	55/45			323	374	422		308	391	471	550	633	799
1200	90/70			871	1014	1150		805	1035	1263	1493	1723	2190
	75/65			686	798	904		640	820	997	1175	1355	1718
	70/55			555	644	729		521	666	808	949	1093	1385
	55/45			352	408	460		336	427	514	600	690	871
1400	90/70			1016	1183	1341		939	1207	1474	1742	2011	2555
	75/65			801	931	1054		746	956	1163	1371	1581	2005
	70/55			647	752	851		608	777	942	1107	1275	1615
	55/45			411	476	537		392	498	600	700	805	1017
1600	90/70			1162	1352	1533		1073	1379	1684	1991	2298	2919
	75/65			915	1064	1205		853	1093	1330	1566	1806	2291
	70/55			740	859	972		695	888	1077	1265	1458	1846
	55/45			469	544	614		448	569	686	800	920	1162
1800	90/70			1307	1521	1725		1207	1552	1895	2240	2585	
	75/65			1030	1197	1355		959	1229	1496	1762	2032	
	70/55			832	967	1094		782	999	1212	1423	1640	
	55/45			528	611	690		504	640	771	900	1036	
2000	90/70			1452	1690	1916		1341	1724	2105	2489	2872	
	75/65			1144	1330	1506		1066	1366	1662	1958	2258	
	70/55			925	1074	1215		869	1110	1346	1581	1822	
	55/45			586	679	767		561	711	857	1000	1151	
2300	90/70									2421	2862	3303	
	75/65									1911	2252	2597	
	70/55									1548	1818	2095	
	55/45									986	1150	1323	

RADIK VKM, VKM - L, VKM-U



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 VKM Type 21 VKM - L Type 21 VKM - U						Type 22 VKM Type 22 VKM - L Type 22 VKM - U						Type 33 VKM Type 33 VKM - L Type 33 VKM - U					
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
400	90/70	380	477	571	662	751	927	482	612	737	858	974	1197						
	75/65	299	375	447	518	586	721	380	482	579	672	762	934						
	70/55	242	302	360	416	470	576	308	389	467	541	612	749						
	55/45	153	190	226	260	293	356	196	246	294	339	383	466						
500	90/70	475	597	713	828	939	1159	602	765	921	1072	1218	1496			1324	1540	1743	2109
	75/65	374	469	559	647	733	901	475	602	724	840	953	1168			1038	1206	1362	1643
	70/55	302	378	450	519	588	720	385	486	583	676	765	936			835	969	1093	1315
	55/45	191	238	282	325	366	445	245	308	368	424	479	583			524	607	682	816
600	90/70	570	716	856	993	1127	1390	722	918	1106	1287	1461	1796			1588	1848	2092	2531
	75/65	449	562	671	776	880	1081	570	722	868	1008	1143	1401			1245	1447	1634	1972
	70/55	363	453	540	623	705	864	462	584	700	811	918	1123			1002	1163	1312	1578
	55/45	229	286	339	389	439	535	294	370	441	508	574	699			629	728	819	979
700	90/70	665	835	999	1159	1315	1622	843	1071	1290	1501	1705	2095			1853	2156	2440	2953
	75/65	524	656	783	906	1026	1261	665	843	1013	1176	1334	1635			1453	1688	1907	2300
	70/55	423	529	630	727	823	1008	538	681	817	946	1071	1310			1169	1357	1530	1841
	55/45	268	333	395	454	512	624	343	431	515	593	670	816			734	849	955	1142
800	90/70	760	955	1142	1324	1503	1854	963	1224	1474	1716	1948	2394	1354	1749	2118	2464	2789	3375
	75/65	598	750	894	1035	1173	1442	760	963	1158	1344	1524	1868	1065	1373	1660	1929	2179	2629
	70/55	483	604	720	831	940	1152	615	778	933	1081	1224	1497	859	1106	1336	1550	1749	2104
	55/45	306	381	451	519	585	713	392	493	588	678	766	932	543	697	839	971	1092	1305
900	90/70	855	1074	1284	1490	1691	2085	1083	1376	1658	1930	2192	2693	1524	1967	2382	2772	3137	3797
	75/65	673	843	1006	1165	1319	1622	855	1084	1302	1512	1715	2102	1198	1544	1868	2170	2452	2957
	70/55	544	680	810	935	1058	1296	692	875	1050	1216	1377	1685	967	1245	1503	1744	1968	2367
	55/45	344	428	508	584	659	802	440	554	662	763	862	1049	611	784	944	1092	1228	1468
1000	90/70	950	1193	1427	1655	1879	2317	1204	1529	1843	2145	2435	2993	1693	2186	2647	3080	3486	4219
	75/65	748	937	1118	1294	1466	1802	950	1204	1447	1680	1905	2335	1331	1716	2075	2411	2724	3286
	70/55	604	755	899	1039	1175	1440	769	973	1166	1351	1531	1872	1074	1383	1670	1938	2186	2630
	55/45	382	476	564	649	732	891	489	616	735	847	957	1165	679	871	1049	1213	1365	1631
1100	90/70	1045	1313	1570	1821	2066	2549	1324	1682	2027	2359	2679	3292	1862	2404	2912	3389	3835	4641
	75/65	823	1031	1230	1423	1613	1982	1045	1324	1592	1848	2096	2569	1464	1888	2283	2652	2996	3615
	70/55	665	831	989	1143	1293	1584	846	1070	1283	1486	1684	2059	1182	1521	1837	2132	2405	2893
	55/45	421	524	621	714	805	980	538	677	809	932	1053	1282	746	958	1154	1335	1501	1795
1200	90/70	1140	1432	1712	1986	2254	2781	1445	1835	2211	2574	2922	3591	2031	2623	3177	3697	4183	5063
	75/65	898	1124	1342	1553	1759	2162	1140	1445	1736	2016	2286	2802	1597	2059	2490	2893	3269	3943
	70/55	725	906	1079	1247	1410	1728	923	1167	1400	1622	1837	2246	1289	1660	2004	2326	2624	3156
	55/45	459	571	677	779	878	1069	587	739	882	1017	1149	1398	814	1045	1259	1456	1638	1958
1400	90/70	1331	1671	1998	2318	2630	3244	1685	2141	2580	3003	3409	4190	2370	3060	3706	4313	4880	5907
	75/65	1047	1312	1565	1812	2052	2523	1330	1686	2026	2352	2667	3269	1863	2402	2905	3375	3814	4600
	70/55	846	1058	1259	1455	1645	2016	1077	1362	1633	1892	2143	2620	1504	1936	2338	2713	3061	3682
	55/45	535	666	790	909	1024	1247	685	862	1029	1186	1340	1631	950	1220	1468	1699	1911	2284
1600	90/70	1521	1909	2283	2649	3006	3707	1926	2447	2948	3432	3896	4788	2709	3497	4235	4929	5578	6750
	75/65	1197	1499	1789	2070	2346	2883	1520	1926	2315	2688	3048	3736	2130	2746	3320	3858	4358	5258
	70/55	967	1209	1439	1662	1880	2304	1231	1556	1866	2162	2449	2995	1719	2213	2672	3101	3498	4208
	55/45	612	762	903	1038	1171	1425	783	985	1176	1356	1532	1864	1086	1394	1678	1942	2184	2610
1800	90/70	1711	2148	2569	2980	3381		2167	2753	3317	3861	4383		3047	3934	4765	5545	6275	
	75/65	1346	1687	2012	2329	2639		1710	2167	2605	3024	3429		2396	3089	3735	4340	4903	
	70/55	1088	1360	1619	1870	2115		1385	1751	2100	2432	2755		1934	2489	3006	3488	3935	
	55/45	688	857	1016	1168	1317		881	1109	1323	1525	1723		1221	1568	1888	2184	2457	
2000	90/70	1901	2386	2854	3311	3757		2408	3059	3685	4290	4870		3386	4372	5294	6161	6972	
	75/65	1496	1874	2236	2588	2932		1900	2408	2894	3360	3810		2662	3432	4150	4822	5448	
	70/55	1208	1511	1799	2078	2350		1539	1946	2333	2703	3061		2148	2766	3340	3876	4373	
	55/45	765	952	1129	1298	1464		979	1232	1470	1695	1915		1357	1742	2098	2427	2730	
2300	90/70			3282	3807	4321		2769	3518	4238	4933	5601		3894	5027				
	75/65			2571	2976	3372		2185	2769	3328	3864	4382		3061	3947				
	70/55			2069	2390	2703		1769	2237	2683	3108	3520		2471	3181				
	55/45			1298	1493	1683		1126	1417	1691	1949	2202		1561	2003				
2600	90/70							3130	3977	4791	5577			4401	5683				
	75/65							2470	3130	3762	4368			3461	4462				
	70/55							2000	2529	3033	3513			2793	3596				
	55/45							1272	1601	1911	2203			1764	2265				
3000	90/70							3611	4588	5528	6434			5079	6557				
	75/65							2850	3612	4341	5040			3993	5148				
	70/55							2308	2918	3499	4054			3223	4149				
	55/45							1468	1848	2205	2542			2036	2613				

RADIK VKM8

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 VKM8						Type 11 VKM8						Type 20 VKM8		
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
500	90/70	237	302	363	423	479	588	335	431	526	622	718	912	593	686	778
	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
600	90/70	285	362	436	507	575	705	402	517	632	747	862	1095	711	824	934
	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
700	90/70			508	592	671	823	469	603	737	871	1005	1277	830	961	1089
	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
800	90/70			581	676	766	941	536	690	842	995	1149	1460	949	1098	1245
	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
900	90/70			653	761	862	1058	603	776	947	1120	1293	1642	1067	1236	1401
	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
1000	90/70			726	845	958	1176	670	862	1053	1244	1436	1825	1186	1373	1556
	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
1100	90/70			799	930	1054		737	948	1158	1369	1580	2007	1304	1510	1712
	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
1200	90/70			871	1014	1150		805	1035	1263	1493	1723	2190	1423	1647	1867
	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
1400	90/70			1016	1183	1341		939	1207	1474	1742	2011	2555	1660	1922	2179
	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
1600	90/70			1162	1352	1533		1073	1379	1684	1991	2298	2919	1897	2197	2490
	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
1800	90/70			1307	1521	1725		1207	1552	1895	2240	2585		2134	2471	2801
	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
2000	90/70			1452	1690	1916		1341	1724	2105	2489	2872		2372	2746	3112
	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
2300	90/70									2421	2862	3303				
	75/65									1911	2252	2597				
	70/55									1548	1818	2095				
	55/45									986	1150	1323				
2600	90/70															
	75/65															
	70/55															
	55/45															
3000	90/70															
	75/65															
	70/55															
	55/45															



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 VKM8						Type 22 VKM8						Type 33 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	90/70	475	597	713	828	939	1159	602	765	921	1072	1218	1496			1324	1540	1743	2109
	75/65	374	469	559	647	733	901	475	602	724	840	953	1168			1038	1206	1362	1643
	70/55	302	378	450	519	588	720	385	486	583	676	765	936			835	969	1093	1315
	55/45	191	238	282	325	366	445	245	308	368	424	479	583			524	607	682	816
600	90/70	570	716	856	993	1127	1390	722	918	1106	1287	1461	1796			1588	1848	2092	2531
	75/65	449	562	671	776	880	1081	570	722	868	1008	1143	1401			1245	1447	1634	1972
	70/55	363	453	540	623	705	864	462	584	700	811	918	1123			1002	1163	1312	1578
	55/45	229	286	339	389	439	535	294	370	441	508	574	699			629	728	819	979
700	90/70	665	835	999	1159	1315	1622	843	1071	1290	1501	1705	2095			1853	2156	2440	2953
	75/65	524	656	783	906	1026	1261	665	843	1013	1176	1334	1635			1453	1688	1907	2300
	70/55	423	529	630	727	823	1008	538	681	817	946	1071	1310			1169	1357	1530	1841
	55/45	268	333	395	454	512	624	343	431	515	593	670	816			734	849	955	1142
800	90/70	760	955	1142	1324	1503	1854	963	1224	1474	1716	1948	2394	1354	1749	2118	2464	2789	3375
	75/65	598	750	894	1035	1173	1442	760	963	1158	1344	1524	1868	1065	1373	1660	1929	2179	2629
	70/55	483	604	720	831	940	1152	615	778	933	1081	1224	1497	859	1106	1336	1550	1749	2104
	55/45	306	381	451	519	585	713	392	493	588	678	766	932	543	697	839	971	1092	1305
900	90/70	855	1074	1284	1490	1691	2085	1083	1376	1658	1930	2192	2693	1524	1967	2382	2772	3137	3797
	75/65	673	843	1006	1165	1319	1622	855	1084	1302	1512	1715	2102	1198	1544	1868	2170	2452	2957
	70/55	544	680	810	935	1058	1296	692	875	1050	1216	1377	1685	967	1245	1503	1744	1968	2367
	55/45	344	428	508	584	659	802	440	554	662	763	862	1049	611	784	944	1092	1228	1468
1000	90/70	950	1193	1427	1655	1879	2317	1204	1529	1843	2145	2435	2993	1693	2186	2647	3080	3486	4219
	75/65	748	937	1118	1294	1466	1802	950	1204	1447	1680	1905	2335	1331	1716	2075	2411	2724	3286
	70/55	604	755	899	1039	1175	1440	769	973	1166	1351	1531	1872	1074	1383	1670	1938	2186	2630
	55/45	382	476	564	649	732	891	489	616	735	847	957	1165	679	871	1049	1213	1365	1631
1100	90/70	1045	1313	1570	1821	2066	2549	1324	1682	2027	2359	2679	3292	1862	2404	2912	3389	3835	4641
	75/65	823	1031	1230	1423	1613	1982	1045	1324	1592	1848	2096	2569	1464	1888	2283	2652	2996	3615
	70/55	665	831	989	1143	1293	1584	846	1070	1283	1486	1684	2059	1182	1521	1837	2132	2405	2893
	55/45	421	524	621	714	805	980	538	677	809	932	1053	1282	746	958	1154	1335	1501	1795
1200	90/70	1140	1432	1712	1986	2254	2781	1445	1835	2211	2574	2922	3591	2031	2623	3177	3697	4183	5063
	75/65	898	1124	1342	1553	1759	2162	1140	1445	1736	2016	2286	2802	1597	2059	2490	2893	3269	3943
	70/55	725	906	1079	1247	1410	1728	923	1167	1400	1622	1837	2246	1289	1660	2004	2326	2624	3156
	55/45	459	571	677	779	878	1069	587	739	882	1017	1149	1398	814	1045	1259	1456	1638	1958
1400	90/70	1331	1671	1998	2318	2630	3244	1685	2141	2580	3003	3409	4190	2370	3060	3706	4313	4880	5907
	75/65	1047	1312	1565	1812	2052	2523	1330	1686	2026	2352	2667	3269	1863	2402	2905	3375	3814	4600
	70/55	846	1058	1259	1455	1645	2016	1077	1362	1633	1892	2143	2620	1504	1936	2338	2713	3061	3682
	55/45	535	666	790	909	1024	1247	685	862	1029	1186	1340	1631	950	1220	1468	1699	1911	2284
1600	90/70	1521	1909	2283	2649	3006	3707	1926	2447	2948	3432	3896	4788	2709	3497	4235	4929	5578	6750
	75/65	1197	1499	1789	2070	2346	2883	1520	1926	2315	2688	3048	3736	2130	2746	3320	3858	4358	5258
	70/55	967	1209	1439	1662	1880	2304	1231	1556	1866	2162	2449	2995	1719	2213	2672	3101	3498	4208
	55/45	612	762	903	1038	1171	1425	783	985	1176	1356	1532	1864	1086	1394	1678	1942	2184	2610
1800	90/70	1711	2148	2569	2980	3381		2167	2753	3317	3861	4383		3047	3934	4765	5545	6275	
	75/65	1346	1687	2012	2329	2639		1710	2167	2605	3024	3429		2396	3089	3735	4340	4903	
	70/55	1088	1360	1619	1870	2115		1385	1751	2100	2432	2755		1934	2489	3006	3488	3935	
	55/45	688	857	1016	1168	1317		881	1109	1323	1525	1723		1221	1568	1888	2184	2457	
2000	90/70	1901	2386	2854	3311	3757		2408	3059	3685	4290	4870		3386	4372	5294	6161	6972	
	75/65	1496	1874	2236	2588	2932		1900	2408	2894	3360	3810		2662	3432	4150	4822	5448	
	70/55	1208	1511	1799	2078	2350		1539	1946	2333	2703	3061		2148	2766	3340	3876	4373	
	55/45	765	952	1129	1298	1464		979	1232	1470	1695	1915		1357	1742	2098	2427	2730	
2300	90/70			3282	3807	4321		2769	3518	4238	4933	5601		3894	5027				
	75/65			2571	2976	3372		2185	2769	3328	3864	4382		3061	3947				
	70/55			2069	2390	2703		1769	2237	2683	3108	3520		2471	3181				
	55/45			1298	1493	1683		1126	1417	1691	1949	2202		1561	2003				
2600	90/70							3130	3977	4791	5577	6332		4401	5683				
	75/65							2470	3130	3762	4368	4953		3461	4462				
	70/55							2000	2529	3033	3513	3979		2793	3596				
	55/45							1272	1601	1911	2203	2489		1764	2265				
3000	90/70							3611	4588	5528	6434	7306		5079	6557				
	75/65							2850	3612	4341	5040	5715		3993	5148				
	70/55							2308	2918	3499	4054	4592		3223	4149				
	55/45							1468	1848	2205	2542	2872		2036	2613				

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	90/70	269	342	412	480	548	678	369	455	539	622	706	875
	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
500	90/70	336	427	515	600	684	848	462	569	674	778	882	1093
	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
600	90/70	403	513	618	721	821	1017	554	683	809	933	1058	1312
	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
700	90/70	470	598	722	841	958	1187	646	797	944	1089	1235	1531
	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
800	90/70	537	684	825	961	1095	1356	738	911	1079	1244	1411	1749
	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
900	90/70	604	769	928	1081	1232	1526	831	1025	1213	1400	1588	1968
	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
1000	90/70	672	854	1031	1201	1369	1695	923	1139	1348	1556	1764	2187
	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
1100	90/70	739	940	1134	1321	1506	1865	1015	1253	1483	1711	1941	2405
	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
1200	90/70	806	1025	1237	1441	1643	2034	1108	1366	1618	1867	2117	2624
	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
1400	90/70	940	1196	1443	1681	1916	2373	1292	1594	1888	2178	2470	3061
	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
1600	90/70	1075	1367	1649	1921	2190	2712	1477	1822	2157	2489	2823	3499
	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
1800	90/70	1209	1538	1855	2162	2464		1662	2050	2427	2800	3175	
	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	
2000	90/70	1343	1709	2062	2402	2738		1846	2277	2696	3111	3528	
	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	



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						
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]													
		200	300	400	500	600	700	900	200	300	400	500	600	700	900
400	90/70		482	604	720	831	938	1144		681	860	1029	1191	1350	1655
	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
500	90/70		602	755	900	1038	1172	1430		852	1075	1287	1489	1688	2069
	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
600	90/70		723	906	1079	1246	1407	1716		1022	1290	1544	1786	2025	2483
	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
700	90/70		843	1056	1259	1453	1641	2001		1192	1505	1801	2084	2363	2896
	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
800	90/70	628	964	1207	1439	1661	1876	2287	924	1363	1720	2058	2382	2700	3310
	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
900	90/70	706	1084	1358	1619	1869	2110	2573	1039	1533	1936	2316	2680	3038	3724
	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
1000	90/70	785	1205	1509	1799	2076	2345	2859	1155	1703	2151	2573	2977	3375	4138
	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
1100	90/70	863	1325	1660	1979	2284	2579	3145	1270	1874	2366	2830	3275	3713	4551
	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
1200	90/70	942	1446	1811	2159	2492	2814	3431	1386	2044	2581	3088	3573	4051	4965
	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
1400	90/70	1099	1687	2113	2519	2907	3283	4003	1617	2385	3011	3602	4168	4726	5793
	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
1600	90/70	1256	1927	2415	2878	3322	3752	4575	1848	2725	3441	4117	4764	5401	6620
	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
1800	90/70	1413	2168	2717	3238	3737	4220		2079	3066	3871	4632	5359	6076	
	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	
2000	90/70	1570	2409	3019	3598	4153	4689		2310	3407	4301	5146	5955	6751	
	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	

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	90/70	269	342	412	480	548	678	369	455	539	622	706	875
	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
500	90/70	336	427	515	600	684	848	462	569	674	778	882	1093
	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
600	90/70	403	513	618	721	821	1017	554	683	809	933	1058	1312
	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
700	90/70	470	598	722	841	958	1187	646	797	944	1089	1235	1531
	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
800	90/70	537	684	825	961	1095	1356	738	911	1079	1244	1411	1749
	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
900	90/70	604	769	928	1081	1232	1526	831	1025	1213	1400	1588	1968
	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
1000	90/70	672	854	1031	1201	1369	1695	923	1139	1348	1556	1764	2187
	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
1100	90/70	739	940	1134	1321	1506	1865	1015	1253	1483	1711	1941	2405
	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
1200	90/70	806	1025	1237	1441	1643	2034	1108	1366	1618	1867	2117	2624
	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
1400	90/70	940	1196	1443	1681	1916	2373	1292	1594	1888	2178	2470	3061
	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
1600	90/70	1075	1367	1649	1921	2190	2712	1477	1822	2157	2489	2823	3499
	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
1800	90/70	1209	1538	1855	2162	2464		1662	2050	2427	2800	3175	
	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	
2000	90/70	1343	1709	2062	2402	2738		1846	2277	2696	3111	3528	
	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	

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	90/70	482	604	720	831	938	1144	681	860	1029	1191	1350	1655
	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
500	90/70	602	755	900	1038	1172	1430	852	1075	1287	1489	1688	2069
	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
600	90/70	723	906	1079	1246	1407	1716	1022	1290	1544	1786	2025	2483
	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
700	90/70	843	1056	1259	1453	1641	2001	1192	1505	1801	2084	2363	2896
	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
800	90/70	964	1207	1439	1661	1876	2287	1363	1720	2058	2382	2700	3310
	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
900	90/70	1084	1358	1619	1869	2110	2573	1533	1936	2316	2680	3038	3724
	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
1000	90/70	1205	1509	1799	2076	2345	2859	1703	2151	2573	2977	3375	4138
	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
1100	90/70	1325	1660	1979	2284	2579	3145	1874	2366	2830	3275	3713	4551
	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
1200	90/70	1446	1811	2159	2492	2814	3431	2044	2581	3088	3573	4051	4965
	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
1400	90/70	1687	2113	2519	2907	3283	4003	2385	3011	3602	4168	4726	5793
	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
1600	90/70	1927	2415	2878	3322	3752	4575	2725	3441	4117	4764	5401	6620
	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
1800	90/70	2168	2717	3238	3737	4220	5066	3066	3871	4632	5359	6076	7351
	75/65	1706	2137	2545	2936	3314	4007	2407	3040	3640	4214	4766	5766
	70/55	1378	1725	2054	2367	2671	3219	1939	2451	2936	3401	3839	4639
	55/45	872	1090	1296	1493	1683	2007	1221	1545	1853	2148	2415	2915
2000	90/70	2409	3019	3598	4153	4689	5547	3407	4301	5146	5955	6751	8151
	75/65	1896	2374	2828	3262	3682	4387	2674	3378	4044	4682	5296	6396
	70/55	1531	1916	2282	2630	2968	3519	2155	2723	3262	3779	4266	5166
	55/45	969	1211	1440	1659	1870	2217	1357	1717	2058	2387	2683	3233

RADIK PLAN VKM, LINE VKM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 11 PLAN VKM Type 11 LINE VKM						Type 21 PLAN VKM Type 21 LINE VKM					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
400	90/70	267	332	394	454	512	627	365	460	546	626	699	828
	75/65	212	263	312	359	404	492	288	362	429	490	547	647
	70/55	173	214	253	291	327	397	233	292	346	394	439	519
	55/45	111	138	162	186	208	250	148	185	218	247	275	324
500	90/70	334	415	492	567	641	784	456	574	683	783	873	1035
	75/65	265	329	390	449	506	616	360	452	536	613	684	809
	70/55	216	268	317	364	409	496	291	365	432	493	549	649
	55/45	139	172	203	233	260	313	185	231	272	309	344	405
600	90/70	400	498	591	680	769	940	548	689	819	939	1048	1242
	75/65	318	395	468	538	607	739	432	542	643	736	820	970
	70/55	259	321	380	437	491	596	350	438	518	592	659	778
	55/45	167	206	244	279	312	375	222	277	327	371	413	486
700	90/70	467	581	689	794	897	1097	639	804	956	1096	1223	1449
	75/65	371	461	546	628	708	862	504	633	750	858	957	1132
	70/55	302	375	444	509	573	695	408	511	605	690	769	908
	55/45	195	241	284	326	364	438	259	323	381	433	481	566
800	90/70	534	664	788	907	1025	1254	730	919	1092	1252	1397	1656
	75/65	424	526	624	718	809	985	576	723	858	981	1094	1294
	70/55	345	428	507	582	655	794	466	584	691	789	879	1038
	55/45	223	275	325	372	417	501	296	370	435	495	550	647
900	90/70	600	746	886	1021	1153	1411	822	1034	1229	1409	1572	1863
	75/65	477	592	702	807	910	1108	648	814	965	1103	1230	1455
	70/55	389	482	570	655	737	893	524	657	778	888	989	1168
	55/45	250	310	365	419	469	563	333	416	490	557	619	728
1000	90/70	667	829	985	1134	1281	1567	913	1149	1365	1565	1747	2070
	75/65	530	658	780	897	1011	1231	720	904	1072	1226	1367	1617
	70/55	432	535	634	728	819	993	583	730	864	986	1099	1297
	55/45	278	344	406	465	521	626	370	462	544	619	688	809
1100	90/70	734	912	1083	1247	1409		1004	1264	1502	1722	1921	2277
	75/65	583	724	858	987	1112		792	994	1179	1349	1504	1779
	70/55	475	589	697	801	900		641	803	950	1085	1209	1427
	55/45	306	378	447	512	573		407	508	599	680	757	890
1200	90/70	800	995	1182	1361	1537		1095	1379	1638	1878	2096	2484
	75/65	636	790	936	1076	1213		864	1085	1286	1471	1640	1940
	70/55	518	642	760	873	982		699	876	1037	1183	1318	1557
	55/45	334	413	487	558	625		444	554	653	742	825	971
1400	90/70	934	1161	1378	1588	1794		1278	1608	1912	2191	2445	2898
	75/65	742	921	1092	1256	1415		1008	1266	1501	1716	1914	2264
	70/55	604	749	887	1019	1146		816	1022	1210	1381	1538	1816
	55/45	389	482	569	651	729		518	647	762	866	963	1133
1600	90/70	1067	1327	1575	1814	2050		1461	1838	2185	2504	2795	3312
	75/65	848	1053	1248	1435	1618		1152	1446	1715	1962	2187	2587
	70/55	691	856	1014	1165	1310		932	1168	1383	1578	1758	2076
	55/45	445	550	650	744	833		592	739	871	990	1101	1295
1800	90/70	1201	1493	1772	2041	2306		1643	2068	2458	2817	3144	
	75/65	954	1184	1404	1615	1820		1296	1627	1930	2207	2461	
	70/55	777	964	1141	1310	1473		1049	1314	1555	1775	1978	
	55/45	501	619	731	837	937		666	831	980	1113	1238	
2000	90/70	1334	1659	1969	2268	2562		1826	2298	2731	3130	3494	
	75/65	1060	1316	1560	1794	2022		1440	1808	2144	2452	2734	
	70/55	863	1071	1267	1456	1637		1165	1460	1728	1972	2197	
	55/45	556	688	812	930	1041		741	924	1089	1237	1376	

RADIK PLAN VKM, LINE VKM



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 22 PLAN VKM Type 22 LINE VKM						Type 33 PLAN VKM Type 33 LINE VKM					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
400	90/70	462	591	711	825	933	1133						
	75/65	366	466	560	648	732	886						
	70/55	297	377	452	523	589	712						
	55/45	190	240	287	330	371	445						
500	90/70	578	738	889	1032	1167	1416			1287	1489	1688	2069
	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
600	90/70	693	886	1067	1238	1400	1700			1544	1786	2025	2483
	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
700	90/70	809	1033	1245	1445	1633	1983			1801	2084	2363	2896
	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
800	90/70	924	1181	1423	1651	1867	2266	1363	1720	2058	2382	2700	3310
	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
900	90/70	1040	1329	1600	1857	2100	2550	1533	1936	2316	2680	3038	3724
	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
1000	90/70	1156	1476	1778	2064	2333	2833	1703	2151	2573	2977	3375	4138
	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
1100	90/70	1271	1624	1956	2270	2567	3116	1874	2366	2830	3275	3713	4551
	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
1200	90/70	1387	1772	2134	2476	2800	3399	2044	2581	3088	3573	4051	4965
	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
1400	90/70	1618	2067	2490	2889	3267	3966	2385	3011	3602	4168	4726	5793
	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
1600	90/70	1849	2362	2845	3302	3733	4532	2725	3441	4117	4764	5401	6620
	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
1800	90/70	2080	2657	3201	3715	4200		3066	3871	4632	5359	6076	
	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	
2000	90/70	2311	2953	3556	4127	4667		3407	4301	5146	5955	6751	
	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	

RADIK PLAN VKM8, LINE VKM8

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 11 PLAN VKM8 Type 11 LINE VKM8						Type 20 PLAN VKM8 Type 20 LINE VKM8			Type 21 PLAN VKM8 Type 21 LINE VKM8					
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
500	90/70	334	415	492	567	641	784	536	613	687	456	574	683	783	873	1035
	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
600	90/70	400	498	591	680	769	940	644	736	825	548	689	819	939	1048	1242
	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
700	90/70	467	581	689	794	897	1097	751	859	962	639	804	956	1096	1223	1449
	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
800	90/70	534	664	788	907	1025	1254	858	981	1100	730	919	1092	1252	1397	1656
	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
900	90/70	600	746	886	1021	1153	1411	965	1104	1237	822	1034	1229	1409	1572	1863
	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
1000	90/70	667	829	985	1134	1281	1567	1073	1226	1375	913	1149	1365	1565	1747	2070
	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
1100	90/70	734	912	1083	1247	1409	1724	1180	1349	1512	1004	1264	1502	1722	1921	2277
	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
1200	90/70	800	995	1182	1361	1537	1881	1287	1472	1650	1095	1379	1638	1878	2096	2484
	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
1400	90/70	934	1161	1378	1588	1794	2194	1502	1717	1925	1278	1608	1912	2191	2445	2898
	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
1600	90/70	1067	1327	1575	1814	2050	2508	1716	1962	2200	1461	1838	2185	2504	2795	3312
	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
1800	90/70	1201	1493	1772	2041	2306		1931	2208	2475	1643	2068	2458	2817	3144	
	75/65	954	1184	1404	1615	1820		1526	1744	1953	1296	1627	1930	2207	2461	
	70/55	777	964	1141	1310	1473		1238	1414	1581	1049	1314	1555	1775	1978	
	55/45	501	619	731	837	937		790	901	1006	666	831	980	1113	1238	
2000	90/70	1334	1659	1969	2268	2562		2146	2453	2750	1826	2298	2731	3130	3494	
	75/65	1060	1316	1560	1794	2022		1696	1938	2170	1440	1808	2144	2452	2734	
	70/55	863	1071	1267	1456	1637		1375	1571	1757	1165	1460	1728	1972	2197	
	55/45	556	688	812	930	1041		878	1001	1118	741	924	1089	1237	1376	

RADIK PLAN VKM8, LINE VKM8



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 22 PLAN VKM8 Type 22 LINE VKM8						Type 33 PLAN VKM8 Type 33 LINE VKM8					
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]											
		300	400	500	600	700	900	300	400	500	600	700	900
500	90/70	578	738	889	1032	1167	1416			1287	1489	1688	2069
	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
600	90/70	693	886	1067	1238	1400	1700			1544	1786	2025	2483
	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
700	90/70	809	1033	1245	1445	1633	1983			1801	2084	2363	2896
	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
800	90/70	924	1181	1423	1651	1867	2266	1363	1720	2058	2382	2700	3310
	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
900	90/70	1040	1329	1600	1857	2100	2550	1533	1936	2316	2680	3038	3724
	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
1000	90/70	1156	1476	1778	2064	2333	2833	1703	2151	2573	2977	3375	4138
	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
1100	90/70	1271	1624	1956	2270	2567	3116	1874	2366	2830	3275	3713	4551
	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
1200	90/70	1387	1772	2134	2476	2800	3399	2044	2581	3088	3573	4051	4965
	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
1400	90/70	1618	2067	2490	2889	3267	3966	2385	3011	3602	4168	4726	5793
	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
1600	90/70	1849	2362	2845	3302	3733	4532	2725	3441	4117	4764	5401	6620
	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
1800	90/70	2080	2657	3201	3715	4200		3066	3871	4632	5359	6076	
	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	
2000	90/70	2311	2953	3556	4127	4667		3407	4301	5146	5955	6751	
	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	

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	90/70	219	253	283	410	478	545	587	679	767
	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
504	90/70	274	315	353	512	596	680	732	847	956
	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
604	90/70	328	378	423	614	714	815	878	1014	1146
	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
704	90/70	382	440	493	715	832	950	1023	1182	1336
	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
804	90/70	436	503	563	817	950	1084	1168	1350	1526
	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
904	90/70	491	565	633	918	1069	1219	1314	1518	1715
	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
1004	90/70	545	628	703	1020	1187	1354	1459	1686	1905
	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
1104	90/70	599	690	773	1122	1305	1489	1604	1854	2095
	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
1204	90/70	654	753	843	1223	1423	1624	1750	2022	2285
	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
1404	90/70	762	878	983	1426	1660	1894	2040	2358	2664
	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
1604	90/70	871	1003	1122	1629	1896	2164	2331	2694	3044
	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
1804	90/70	979	1128	1262	1833	2133	2433	2622	3030	3423
	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
2004	90/70	1088	1253	1402	2036	2369	2703	2912	3366	3803
	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



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	90/70			261	306	352	444	456	531	603	743	651	755	858	1063
	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
500	90/70	210	269	326	382	440	555	570	663	754	928	814	944	1072	1329
	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
600	90/70	252	323	391	459	528	666	684	796	904	1114	976	1133	1287	1595
	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
700	90/70			457	535	616	777	798	928	1055	1299	1139	1322	1501	1861
	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
800	90/70			522	612	704	889	912	1061	1206	1485	1302	1511	1715	2127
	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
900	90/70			587	688	791	1000	1026	1194	1356	1671	1465	1700	1930	2393
	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
1000	90/70			652	765	879	1111	1140	1326	1507	1856	1627	1889	2144	2659
	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
1100	90/70			718	841	967	1222	1254	1459	1658	2042	1790	2078	2359	2924
	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
1200	90/70			783	918	1055	1333	1367	1592	1808	2228	1953	2266	2573	3190
	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
1400	90/70			913	1071	1231	1555	1595	1857	2110	2599	2278	2644	3002	3722
	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
1600	90/70			1044	1224	1407	1777	1823	2122	2411	2970	2604	3022	3431	4254
	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
1800	90/70			1174	1377	1583		2051	2387	2713		2929	3400	3860	
	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	
2000	90/70			1305	1529	1759		2279	2653	3014		3255	3777	4289	
	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	

RADIATORS UNDER DIFFERENT OPERATING CONDITIONS

Conversion of coefficients f for n = 1,3

t ₁ [°C]	t ₂ [°C]	Air temperature in room t _i						
		10 °C	12 °C	15 °C	18 °C	20 °C	22 °C	24 °C
95	80	0,57	0,59	0,62	0,65	0,68	0,70	0,73
	70	0,62	0,65	0,68	0,73	0,76	0,79	0,83
	60	0,69	0,72	0,77	0,83	0,87	0,91	0,96
	50	0,79	0,83	0,89	0,96	1,02	1,08	1,15
90	80	0,59	0,61	0,64	0,68	0,71	0,74	0,77
	75	0,62	0,64	0,68	0,72	0,75	0,78	0,82
	70	0,65	0,67	0,72	0,76	0,80	0,83	0,87
	65	0,68	0,71	0,76	0,81	0,85	0,89	0,93
	60	0,72	0,76	0,81	0,87	0,91	0,96	1,01
	55	0,77	0,81	0,87	0,93	0,98	1,04	1,10
	50	0,83	0,87	0,93	1,01	1,07	1,14	1,21
85	75	0,64	0,67	0,71	0,75	0,79	0,82	0,86
	70	0,68	0,70	0,75	0,80	0,84	0,88	0,92
	65	0,72	0,75	0,80	0,85	0,89	0,94	0,99
	60	0,76	0,79	0,85	0,91	0,96	1,01	1,07
	55	0,81	0,85	0,91	0,98	1,04	1,10	1,16
80	70	0,71	0,74	0,79	0,84	0,88	0,93	0,97
	65	0,75	0,78	0,84	0,90	0,94	0,99	1,05
	60	0,80	0,83	0,89	0,96	1,01	1,07	1,13
	55	0,85	0,89	0,96	1,04	1,10	1,16	1,24
	50	0,91	0,96	1,04	1,13	1,20	1,28	1,37
75	65	0,79	0,82	0,88	0,95	1,00	1,05	1,12
	60	0,84	0,88	0,94	1,02	1,08	1,14	1,21
	55	0,89	0,94	1,01	1,10	1,17	1,24	1,32
	50	0,96	1,01	1,10	1,20	1,28	1,37	1,47
70	60	0,88	0,93	1,00	1,08	1,15	1,22	1,30
	55	0,94	0,99	1,08	1,17	1,25	1,33	1,42
	50	1,01	1,07	1,17	1,28	1,37	1,47	1,58
	45	1,10	1,16	1,28	1,42	1,52	1,64	1,79
65	55	1,00	1,05	1,15	1,26	1,34	1,43	1,54
	50	1,08	1,14	1,25	1,37	1,47	1,59	1,71
	45	1,17	1,24	1,37	1,52	1,64	1,78	1,94
	40	1,28	1,37	1,52	1,71	1,87	2,05	2,27
60	55	1,07	1,13	1,23	1,36	1,45	1,56	1,68
	50	1,15	1,22	1,34	1,48	1,60	1,73	1,87
	45	1,25	1,33	1,47	1,65	1,78	1,94	2,13
	40	1,37	1,47	1,64	1,86	2,03	2,24	2,50
55	50	1,23	1,31	1,45	1,62	1,75	1,90	2,07
	45	1,34	1,43	1,60	1,80	1,96	2,15	2,37
	40	1,47	1,59	1,78	2,03	2,24	2,48	2,78
	35	1,64	1,78	2,03	2,36	2,64	2,99	3,43
50	45	1,45	1,56	1,75	1,98	2,17	2,40	2,67
	40	1,60	1,73	1,96	2,25	2,50	2,79	3,15
	35	1,78	1,94	2,24	2,63	2,96	3,38	3,92
	30	2,03	2,24	2,64	3,20	3,70	4,39	5,39
45	40	1,75	1,90	2,17	2,53	2,83	3,19	3,66
	35	1,96	2,15	2,50	2,96	3,37	3,89	4,58
	30	2,24	2,48	2,96	3,63	4,25	5,11	6,38
40	35	2,17	2,40	2,83	3,41	3,93	4,62	5,54
	30	2,50	2,79	3,37	4,21	5,01	6,14	7,87

Example of calculation

Heat outputs of individual types of RADIK radiators have been measured in nominal operating (temperature) conditions of 75/65/20 °C (t₁ / t₂ / t_i) via EN-442:

- temperature of incoming water t₁ = 75 °C
- temperature of return water t₂ = 65 °C
- relative temperature of air t_i = 20 °C

Corresponding heat outputs for other operating conditions, as listed in this catalogue, were calculated from the established measurements (for the temperature ranges 90/70 °C, 70/55 °C, and 55/45 °C and for room air temperatures of 15, 20 and 22 °C).

If a radiator is intended for use in a heating system with other temperature conditions, it is necessary to make a conversion as follows:

$$Q = Q_c \cdot f$$

When: Q – calculated need for heat output of the radiator at 75/65/20 °C

Q_c – heat loss of the room

f – conversion coefficient from the table (applies to the heat Temperature exponent n = 1,3)

In the table of heat outputs for heating conditions of 75/65/20 °C we find for the calculated value Q the suitable radiator with the appropriate output.

EXAMPLE:

Task:

For a room with a required air temperature of 22 °C and heat loss of 810 W, we want to use a RADIK KLASIK radiator. The heating system will be operated with a temperature range of 60/50 °C.

Given:

- temperature conditions:

temperature of incoming water	t ₁ = 60 °C
temperature of return water	t ₂ = 50 °C
relative temperature of air	t _i = 22 °C
- heat loss of the room Q_c = 810 W

Solution:

For working conditions of 60/50/22°C we find in the table the coefficient value:

$$f = 1,73$$

$$Q = 810 \cdot 1,73 = 1401 \text{ W}$$

For the calculation of value Q we find in the table of heat outputs for 75/65/20 °C (pages 46,47) the right radiator.

From the broad range of types and sizes of RADIK KLASIK one could, for example, choose one of the following radiators:

Type 11 - 600 x 1400.....	1403 W
Type 21 - 600 x 1100	1417 W
Type 22 - 500 x 1000	1452 W

BASIC TECHNICAL PARAMETERS



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

	Type 10 Type 10 VK Type 10 VKL						Type 11 Type 11 VK Type 11 VKL						Type 20 Type 20 VK		
Height H [mm]	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_T c_0	0,01983700			1,29050000			0,01407200			1,34220000			0,05138300		1,28720000
b c_1	0,81190000			0,00003492			0,94200000			-0,00004407			0,73450000		0,00005091
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]	$6,5 \times 10^{-5}$ (DN 15)						$6,5 \times 10^{-5}$ (DN 15)						$1,0 \times 10^{-4}$ (DN 15)		
Resistance coefficient ξ_T [-]	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_T apply only to the model RADIK KLASIK.

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

	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						
Height H [mm]	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 _T c ₀	0,03399300			1,35050000			4,7667	0,05120200			1,34380000			6,5784	0,07428700			1,33630000		
b c ₁	0,83090000			-0,00002395			-	0,80550000			-0,00000514			-	0,80730000			-0,00000262		
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 [m²]	1,0 x 10 ⁻⁴ (DN 15)						1,0 x 10 ⁻⁴ (DN 15)							1,18 x 10 ⁻⁴ (DN 15)						
Resistance coefficient ξ _T [-]	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_T apply only to the model RADIK KLASIK.

RADIK VKM, RADIK VKM - L

	Type 10 VKM Type 10 VKM - L						Type 11 VKM Type 11 VKM - L					
Height H [mm]	300	400	500	600	700	900	300	400	500	600	700	900
Nominal heat output [W/m]	375	476	572	665	753	922	533	683	831	979	1129	1432
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
K_T c_0	0,01616400			1,32460000			0,03737600			1,27140000		
b c_1	0,85720000			-0,00001748			0,79480000			0,00004924		
Radiator weight [kg/m]	6,4	8,2	10,2	12,2	15,0	17,5	10,7	13,1	16,4	19,5	23,4	29,1
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

Characteristic equation: $\Phi = K_T \cdot H^b \cdot \Delta T^{(c_0 + c_1 \cdot H)}$, $\Phi = K_M \cdot \Delta T^n$

RADIK VKM, RADIK VKM - L, RADIK VKM-U

	Type 21 VKM Type 21 VKM - L Type 21 VKM-U						Type 22 VKM Type 22 VKM - L Type 22 VKM-U						Type 33 VKM Type 33 VKM - L Type 33 VKM-U					
Height H [mm]	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_T c_0	0,05250800			1,33530000			0,04268400			1,33820000			0,02273700			1,39030000		
b c_1	0,75670000			0,00002048			0,83910000			-0,00000944			0,98690000			-0,00007695		
Radiator weight [kg/m]	14,9	19,4	22,8	27,1	31,3	41,0	17,6	23,3	26,4	31,8	36,9	47,9	26,1	34,6	39,6	47,5	55,1	71,7
Water volume [l/m]	3,7	4,5	5,3	6,2	7,0	8,7	3,7	4,5	5,3	6,2	7,0	8,9	5,4	6,7	8,0	9,3	10,5	13,0

BASIC TECHNICAL PARAMETERS

RADIK MATERNELLE VK, RADIK MATERNELLE VKL

	Type 32 VK Type 32 VKL					
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_T c_0	0,111002			1,30209		
b c_1	0,694734			0,00003569		
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 MM

	Type 11 MM					Type 21 MM				
Height H [mm]	400	500	600	700	900	400	500	600	700	900
Nominal heat output [W/m]	728	876	1017	1151	1404	932	1114	1284	1442	1731
Temp. exponent n [-]	1,2693	1,2754	1,2816	1,2882	1,3014	1,3075	1,3161	1,3246	1,3336	1,3517
K_T c_0	0,02394200			1,30032000		0,02336240			1,35811000	
b c_1	0,88171000			-0,00002999		0,89572800			-0,00005488	
Radiator weight [kg/m]	12,5	15,7	18,8	22,7	28,3	18,8	22,1	26,4	30,6	40,2
Water volume [l/m]	2,3	2,7	3,1	3,5	4,3	4,4	5,1	5,8	6,6	8,3
Flow coefficient A_r [m²]	3,399 x 10 ⁻⁵ (DN 15)					3,906 x 10 ⁻⁵ (DN 15)				
Resistance coefficient ξ_r [-]	70 (DN 15)					53 (DN 15)				

RADIK MM

	Type 22 MM						Type 33 MM					
Height H [mm]	300	400	500	600	700	900	300	400	500	600	700	900
Nominal heat output [W/m]	982	1233	1472	1702	1925	2357	1279	1665	2028	2369	2687	3258
Temp. exponent n [-]	1,2941	1,3069	1,3197	1,3325	1,3353	1,3408	1,3036	1,3122	1,3208	1,3294	1,3358	1,3487
K_T c_0	0,06657990			1,31712000			0,01766570			1,37772000		
b c_1	0,77778600			0,00000880			1,03453000			-0,00008574		
Radiator weight [kg/m]	17,0	22,7	25,7	31,1	36,2	47,1	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	8,4	5,3	6,4	7,6	8,7	10,0	12,6
Flow coefficient A_r [m²]	3,906 x 10 ⁻⁵ (DN 15)						3,906 x 10 ⁻⁵ (DN 15)					
Resistance coefficient ξ_r [-]	53 (DN 15)						53 (DN 15)					

BASIC TECHNICAL PARAMETERS



RADIK VKM8

	Type 10						Type 11						Type 20		
Height H [mm]	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_T c_0	0,01616400			1,32460000			0,03737600			1,27140000			0,05474000		1,30360000
b c_1	0,85720000			-0,00001748			0,79480000			0,00004924			0,73930000		0,00002583
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

RADIK VKM8

	Type 21						Type 22						Type 33					
Height H [mm]	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_T c_0	0,05250800			1,33530000			0,04268400			1,33820000			0,02273700			1,39030000		
b c_1	0,75670000			0,00002048			0,83910000			-0,00000944			0,98690000			-0,00007695		
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 PLAN VKM8, LINE VKM8

	Type 11						Type 20			Type 21					
Height H [mm]	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_T c_0	0,05473850			1,27950000			0,06835010		1,28816000	0,02292700			1,37408000		
b c_1	0,72786000			0,00001831			0,70185000		0,00001277	0,88738300			-0,00007040		
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

RADIK PLAN VKM8, LINE VKM8

	Type 22						Type 33					
Height H [mm]	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_T c_0	0,02809110			1,34778000			0,06322600			1,34170000		
b c_1	0,90711100			-0,00004768			0,82820000			-0,00001160		
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

BASIC TECHNICAL PARAMETERS

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		
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_T c_0	0,02916400			1,28020000			0,11665000			1,28640000		
b c_1	0,84290000			-0,00000253			0,63580000			0,00006698		
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 ⁻⁵ (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 VKM, RADIK LINE VKM

	Type 11 PLAN VKM Type 11 LINE VKM						Type 21 PLAN VKM Type 21 LINE VKM					
Height H [mm]	300	400	500	600	700	900	300	400	500	600	700	900
Nominal heat output [W/m]	530	658	780	897	1011	1231	720	904	1072	1226	1367	1617
Temp. exponent n [-]	1,2617	1,2698	1,2778	1,2859	1,2989	1,3249	1,3019	1,3144	1,3268	1,3393	1,3446	1,3553
K_T c_0	0,05473850			1,27950000			0,02292700			1,37408000		
b c_1	0,72786000			0,00001831			0,88738300			-0,00007040		
Radiator weight [kg/m]	13,2	16,4	20,4	24,2	28,9	36,8	17,4	22,7	26,8	31,8	36,8	48,6
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	8,7

RADIK CLEAN, RADIK CLEAN VK

	Type 10 CLEAN Type 10 CLEAN VK						Type 20S CLEAN Type 20S CLEAN VK				Type 30 CLEAN Type 30 CLEAN VK			
Height H [mm]	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_T c_0	0,019955			1,290019			0,035729		1,30306		0,085878		1,2971	
b c_1	0,810955			0,000035419			0,806975		0,0000939054		0,715990		0,000043069	
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_T [-]	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_T apply only to the model RADIK CLEAN.

Characteristic equation: $\Phi = K_T \cdot H^b \cdot \Delta T^{(c_0 + c_1 \cdot H)}$, $\Phi = K_M \cdot \Delta T^n$

BASIC TECHNICAL PARAMETERS



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		
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 _T c ₀	4,8934	0,06239700				1,32230000		6,6671	0,06322600			1,34170000		
b c _i	-	0,78080000				0,00000157		-	0,82820000			-0,00001160		
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 [m²]	1,0 x 10 ⁻⁴ (DN 15)							1,18 x 10 ⁻⁴ (DN 15)						
Resistance coefficient ξ [-]	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.

RADIK PLAN VKM, RADIK LINE VKM

	Type 22 PLAN VKM Type 22 LINE VKM						Type 33 PLAN VKM Type 33 LINE VKM					
Height H [mm]	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_T c_0	0,02809110			1,34778000			0,06322600			1,34170000		
b c_1	0,90711100			-0,00004768			0,82820000			-0,00001160		
Radiator weight [kg/m]	20,2	26,5	30,4	36,4	42,4	55,6	28,8	38,0	43,6	52,2	60,6	79,5
Water volume [l/m]	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

	Type 10 HYGIENE Type 10 HYGIENE VK			Type 20S HYGIENE Type 20S HYGIENE VK			Type 30 HYGIENE Type 30 HYGIENE VK		
Height H [mm]	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_T c_0	5,66770		1,29117	10,00560		1,25240	13,78020		1,29919
b c_1	0,88776		-0,05518	0,79639		0,02021	0,86461		-0,03112
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_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_T [-]	19,0 (DN 15)			8,5 (DN 15)			5,8 (DN 15)		

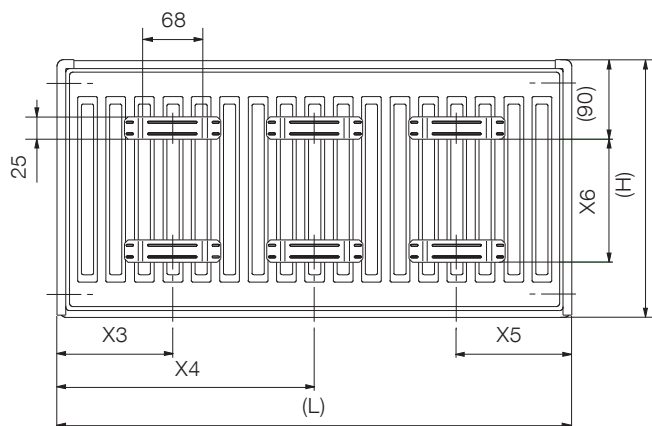
Stated values for the flow coefficient A_T and the coefficient of resistance ξ_T apply only to the model RADIK HYGIENE.

Characteristic equation: $\Phi = K_T \cdot H^b \cdot \Delta T^{(c_0 + c_1 \cdot H)}$, $\Phi = K_M \cdot \Delta T^n$

The company reserves the right to make technical changes.

DATA FOR MOUNTING

Location of hangers



Position of radiator

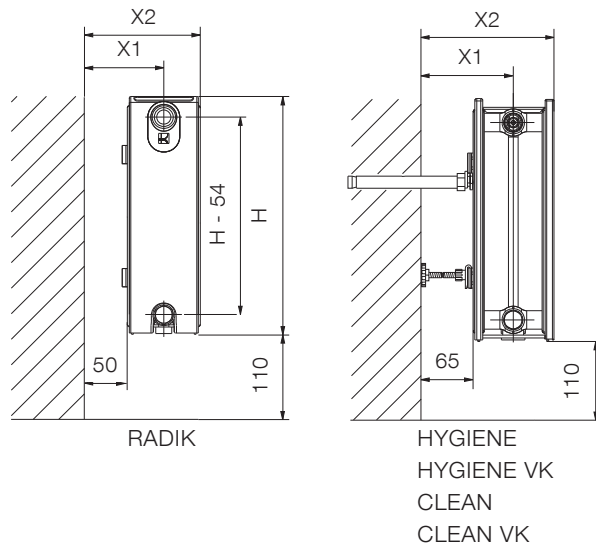


Table of sizes

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, 22 COMBI VK, 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, 10 VKM8

C - for Types 11, 11 VK, 11 VKL, 11 VKM - L, 11 VKM8, 11 MM

D - for Types 10 VKL, 10 VKM - L

PLAN KLASIK = LINE KLASIK = HYGIENE = CLEAN = KLASIK

PLAN VK = PLAN VKM = PLAN VKM8 = LINE VKM = LINE VKM8

= LINE VK = HYGIENE VK = CLEAN VK = VKM = VK = MM

PLAN VKL = LINE VKL = VKM - L = VKL

Table of sizes

Type	10 10 VK 10 VKL 10 VKM 10 VKM - L	11 11 VK 11 VKL 11 VKM 11 VKM - L	20 20 R 20 VK	21 21 R 21 VK 21 VKL 21 VKM 21 VKM - L	22 22 R 22 VK 22 VKL 22 VKM ²⁾ 22 VKM - L ²⁾ 22 COMBI VK 22 VKM8 ²⁾ 22 MM	32 32 VK 32 VKL	33 33 R ¹⁾ 33 VK 33 VKL 33 VKM ²⁾ 33 VKM - L ²⁾
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.

²⁾ Value **X1** for the model RADIK VKM and RADIK VKM - L Type 22, 33 = 83 mm.

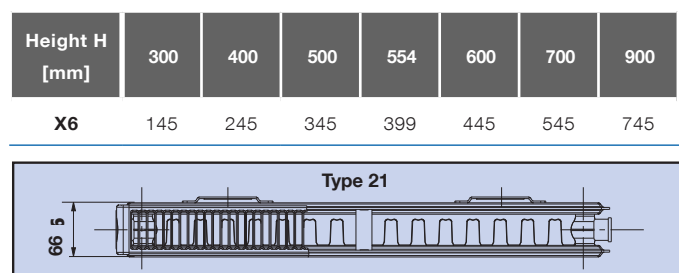
Table of sizes HYGIENE, HYGIENE VK, CLEAN, CLEAN VK

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





(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 uncleanness, e.g. office premises, schools, museums, flats, hotels, shops, etc.
C-2	Low	Unsuitably heated spaces with changeable temperature and with relative humidity exceeding 70 %. Rare occurrence of condensation and minor uncleanness, e.g. warehouses, corridors, gym halls, etc.
C-3	Average	Spaces with average occurrence of condensation and with average uncleanness 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 uncleanness 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 uncleanness 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 unsufficiently 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 unsufficiently air-ventilated rooms.

Using radiators complying with the surface finish according to DIN 55 900 inside bathrooms, toilets and launderettes (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, launderettes) 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 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.

The well-established quality management system according to ISO 9001:2008 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 9001:2008



• Quality mark for the English market

- it has been granted for the following product range of the steel panel radiators RADIK



No. BSI	Model	
licence KM 51 646	RADIK KLASIK, RADIK VK Type 10	except for the height 700 mm
	RADIK KLASIK, RADIK VK Type 11	
	RADIK KLASIK, RADIK VK Type 20	
	RADIK KLASIK, RADIK VK Type 21	
	RADIK KLASIK Type 22	except for the height 200, 700 mm
	RADIK VK Type 22	except for the height 700 mm
	RADIK KLASIK Type 33	except for the height 200, 700 mm
	RADIK VK Type 33	except for the height 700 mm
	RADIK PLAN KLASIK, RADIK PLAN VK Type 11	Height 500, 600 mm Length 400 ÷ 2000 mm
	RADIK PLAN KLASIK, RADIK PLAN VK Type 21	
	RADIK PLAN KLASIK, RADIK PLAN VK Type 22	
	RADIK PLAN KLASIK, RADIK PLAN VK Type 33	

• Quality mark NF for the French market

- it is valid for the following range of the steel panel radiators RADIK



No. CERTITA	Model
5240	RADIK KLASIK, RADIK VK Type 10
5241	RADIK KLASIK, RADIK VK Type 11
5242	RADIK KLASIK, RADIK VK Type 20
5243	RADIK KLASIK, RADIK VK Type 21
5244	RADIK KLASIK, RADIK VK, RADIK VKU Type 22
5245	RADIK KLASIK, RADIK VK, RADIK VKU Type 33

No. CERTITA	Model
5538	RADIK CLEAN, RADIK CLEAN VK Type 10
5539	RADIK CLEAN, RADIK CLEAN VK Type 20
5540	RADIK CLEAN, RADIK CLEAN VK Type 30
5541	RADIK VKM, RADIK VKM - L Type 10
5542	RADIK VKM, RADIK VKM - L Type 11
5544	RADIK VKM, RADIK VKM - L Type 21
5545	RADIK VKM, RADIK VKM - L Type 22
5546	RADIK VKM, RADIK VKM - L Type 33

QUALITY AND SAFETY

• Quality mark for the German market

it has been granted for the following product range of the steel 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
0458	RADIK COMBI VK	Type 33
0565	RADIK VKM	Type 10
	RADIK VKM8	Type 10
	RADIK VKM - L	Type 10
0566	RADIK VKM	Type 11
	RADIK VKM8	Type 11
	RADIK VKM - L	Type 11
0567	RADIK VKM8	Type 20
	RADIK VKM	Type 21
0568	RADIK VKM8	Type 21
	RADIK VKM - L	Type 21
0569	RADIK VKM	Type 22
	RADIK VKM8	Type 22
	RADIK VKM - L	Type 22
0570	RADIK VKM	Type 33
	RADIK VKM8	Type 33
	RADIK VKM - L	Type 33
0571	RADIK KLASIK	Type 10
	RADIK VK	Type 10
	RADIK VKL	Type 10
	RADIK CLEAN	Type 10
0572	RADIK CLEAN VK	Type 10
	RADIK KLASIK	Type 20
0573	RADIK VK	Type 20
	RADIK CLEAN	Type 20S
	RADIK CLEAN VK	Type 20S
0574	RADIK CLEAN	Type 30
	RADIK CLEAN VK	Type 30
	RADIK PLAN KLASIK	Type 11
0578	RADIK LINE KLASIK	Type 11
	RADIK PLAN VK	Type 11
	RADIK LINE VK	Type 11
	RADIK PLAN VKL	Type 11
0580	RADIK LINE VKL	Type 11
	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

Reg. No. GZ	Model	Type
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
0583	RADIK PLAN VKM8	Type 33
	RADIK LINE VKM8	Type 33
	RADIK PLAN VKM	Type 33
	RADIK LINE VKM	Type 33
	RADIK PLAN VKM8	Type 11
	RADIK LINE VKM8	Type 11
0584	RADIK PLAN VKM	Type 11
	RADIK LINE VKM	Type 11
0585	RADIK PLAN VKM8	Type 20
	RADIK LINE VKM8	Type 20
0586	RADIK PLAN VKM8	Type 21
	RADIK LINE VKM8	Type 21
	RADIK PLAN VKM	Type 21
	RADIK LINE VKM	Type 21
618	RADIK MM	Type 11
620	RADIK MM	Type 21
621	RADIK MM	Type 22
622	RADIK MM	Type 33
1120	RADIK KLASIK	Type 11
	RADIK VK	Type 11
	RADIK VKL	Type 11
1121	RADIK KLASIK	Type 21
	RADIK VK	Type 21
	RADIK VKU	Type 21
	RADIK VKL	Type 21
1122	RADIK KLASIK	Type 22
	RADIK VK	Type 22
	RADIK VKU	Type 22
	RADIK VKL	Type 22
1123	RADIK KLASIK	Type 33
	RADIK VK	Type 33
	RADIK VKU	Type 33
	RADIK VKL	Type 33
1182	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, Strojírenský zkušební ústav, s.p. Brno.



DATA FOR PLACING ORDER



Steel panel radiators	Version	Model	Type	Code for ordering until 31.12.2016	Code for ordering from 1.1.2017
RADIK	KLASIK	RADIK KLASIK	10	10-HHHLLL-50-1 0	10HHHLLL-50-0010
			11	11-HHHLLL-50-1 0	11HHHLLL-50-0010
			20	20-HHHLLL-50-1 0	20HHHLLL-50-0010
			21	21-HHHLLL-50-1 0	21HHHLLL-50-0010
			22	22-HHHLLL-50-1 0	22HHHLLL-50-0010
			33	33-HHHLLL-50-1 0	33HHHLLL-50-0010
		RADIK KLASIK - R	20 R	20-HHHLLL-R0-1 0	20HHHLLL-R0-0010
			21 R	21-HHHLLL-R0-1 0	21HHHLLL-R0-0010
			22 R	22-HHHLLL-R0-1 0	22HHHLLL-R0-0010
			33 R	33-HHHLLL-R0-1 0	33HHHLLL-R0-0010
		RADIK KLASIK - Z	10	10-HHHLLL-50Z1 0	10HHHLLL-50Z0010
			11	11-HHHLLL-50Z1 0	11HHHLLL-50Z0010
			21	21-HHHLLL-50Z1 0	21HHHLLL-50Z0010
			22	22-HHHLLL-50Z1 0	22HHHLLL-50Z0010
			33	33-HHHLLL-50Z1 0	33HHHLLL-50Z0010
	MM	RADIK MM	11 MM	11-HHHLLL-M0-1 0	11HHHLLL-M0-0010
			21 MM	21-HHHLLL-M0-1 0	21HHHLLL-M0-0010
			22 MM	22-HHHLLL-M0-1 0	22HHHLLL-M0-0010
			33 MM	33-HHHLLL-M0-1 0	33HHHLLL-M0-0010
	VENTIL KOMPAKT	RADIK VK	10 VK	10-HHHLLL-60-1 0	10HHHLLL-60-0010
			11 VK	11-HHHLLL-60-1 0	11HHHLLL-60-0010
			20 VK	20-HHHLLL-60-1 0	20HHHLLL-60-0010
			21 VK	21-HHHLLL-60-1 0	21HHHLLL-60-0010
			22 VK	22-HHHLLL-60-1 0	22HHHLLL-60-0010
			33 VK	33-HHHLLL-60-1 0	33HHHLLL-60-0010
		RADIK VK - Z	10 VK	10-HHHLLL-60Z1 0	10HHHLLL-60Z0010
			11 VK	11-HHHLLL-60Z1 0	11HHHLLL-60Z0010
			21 VK	21-HHHLLL-60Z1 0	21HHHLLL-60Z0010
			22 VK	22-HHHLLL-60Z1 0	22HHHLLL-60Z0010
			33 VK	33-HHHLLL-60Z1 0	33HHHLLL-60Z0010
		RADIK VKU	21 VKU	21-HHHLLL-C0-1 0	21HHHLLL-6U-0010
			22 VKU	22-HHHLLL-C0-1 0	22HHHLLL-6U-0010
			33 VKU	33-HHHLLL-C0-1 0	33HHHLLL-6U-0010
		RADIK VKL	10 VKL	10-HHHLLL-E0-1 0	10HHHLLL-E0-0010
			11 VKL	11-HHHLLL-E0-1 0	11HHHLLL-E0-0010
			21 VKL	21-HHHLLL-E0-1 0	21HHHLLL-E0-0010
			22 VKL	22-HHHLLL-E0-1 0	22HHHLLL-E0-0010
			33 VKL	33-HHHLLL-E0-1 0	33HHHLLL-E0-0010
		RADIK COMBI VK	22 COMBI VK	22-HHHLLL-N0-1 0	22HHHLLL-N0-0010
		RADIK MATERNELLE VK	32 VK	32-HHHLLL-60M1 0	32HHHLLL-6S-0010
		RADIK MATERNELLE VKL	32 VKL	32-HHHLLL-E0M1 0	32HHHLLL-ES-0010
		RADIK VKM	10 VKM	10-HHHLLL-G0-1 0	10HHHLLL-G0-0010
			11 VKM	11-HHHLLL-G0-1 0	11HHHLLL-G0-0010
			21 VKM	21-HHHLLL-G0-1 0	21HHHLLL-G0-0010
			22 VKM	22-HHHLLL-G0-1 0	22HHHLLL-G0-0010
			33 VKM	33-HHHLLL-G0-1 0	33HHHLLL-G0-0010
		RADIK VKM-U	21 VKM-U	21-HHHLLL-G0U10	21HHHLLL-GU-0010
			22 VKM-U	22-HHHLLL-G0U10	22HHHLLL-GU-0010
			33 VKM-U	33-HHHLLL-G0U10	33HHHLLL-GU-0010
		RADIK VKM - L	10 VKM - L	10-HHHLLL-G0L1 0	10HHHLLL-L0-0010
			11 VKM - L	11-HHHLLL-G0L1 0	11HHHLLL-L0-0010
			21 VKM - L	21-HHHLLL-G0L1 0	21HHHLLL-L0-0010
			22 VKM - L	22-HHHLLL-G0L1 0	22HHHLLL-L0-0010
		RADIK VKM8	33 VKM - L	33-HHHLLL-G0L1 0	33HHHLLL-L0-0010
			10 VKM8	10-HHHLLL-S0-1 0	10HHHLLL-SP-0010
			11 VKM8	11-HHHLLL-S0-1 0	11HHHLLL-SP-0010
			20 VKM8	20-HHHLLL-S0-1 0	20HHHLLL-SP-0010
			21 VKM8	21-HHHLLL-S0-1 0	21HHHLLL-SP-0010
			22 VKM8	22-HHHLLL-S0-1 0	22HHHLLL-SP-0010
			33 VKM8	33-HHHLLL-S0-1 0	33HHHLLL-SP-0010

Note: For information how to create the order code see p. 93

DATA FOR PLACING ORDER

Steel panel radiators	Version	Model	Type	Code for ordering until 31.12.2016	Code for ordering from 1.1.2017
RADIK	PLAN	RADIK PLAN KLASIK	11 PLAN	11-HHHLLL-80-1 0	11HHHLLL-50P0010
			21 PLAN	21-HHHLLL-80-1 0	21HHHLLL-50P0010
			22 PLAN	22-HHHLLL-80-1 0	22HHHLLL-50P0010
			33 PLAN	33-HHHLLL-80-1 0	33HHHLLL-50P0010
		RADIK PLAN KLASIK-R	20 PLAN R	20-HHHLLL-R0H1 0	20HHHLLL-R0P0010
			21 PLAN R	21-HHHLLL-R0H1 0	21HHHLLL-R0P0010
			22 PLAN R	22-HHHLLL-R0H1 0	22HHHLLL-R0P0010
			33 PLAN R	33-HHHLLL-R0H1 0	33HHHLLL-R0P0010
		RADIK PLAN VK	11 PLAN VK	11-HHHLLL-70-1 0	11HHHLLL-60P0010
			21 PLAN VK	21-HHHLLL-70-1 0	21HHHLLL-60P0010
			22 PLAN VK	22-HHHLLL-70-1 0	22HHHLLL-60P0010
			33 PLAN VK	33-HHHLLL-70-1 0	33HHHLLL-60P0010
		RADIK PLAN VKL	11 PLAN VKL	11-HHHLLL-I0-1 0	11HHHLLL-E0P0010
			21 PLAN VKL	21-HHHLLL-I0-1 0	21HHHLLL-E0P0010
			22 PLAN VKL	22-HHHLLL-I0-1 0	22HHHLLL-E0P0010
			33 PLAN VKL	33-HHHLLL-I0-1 0	33HHHLLL-E0P0010
		RADIK PLAN VKM	11 PLAN VKM	11-HHHLLL-H0-1 0	11HHHLLL-G0P0010
			21 PLAN VKM	21-HHHLLL-H0-1 0	21HHHLLL-G0P0010
			22 PLAN VKM	22-HHHLLL-H0-1 0	22HHHLLL-G0P0010
			33 PLAN VKM	33-HHHLLL-H0-1 0	33HHHLLL-G0P0010
		RADIK PLAN VKM8	11 PLAN VKM8	11-HHHLLL-S0H1 0	11HHHLLL-S0P0010
			20 PLAN VKM8	20-HHHLLL-S0H1 0	20HHHLLL-S0P0010
			21 PLAN VKM8	21-HHHLLL-S0H1 0	21HHHLLL-S0P0010
			22 PLAN VKM8	22-HHHLLL-S0H1 0	22HHHLLL-S0P0010
			33 PLAN VKM8	33-HHHLLL-S0H1 0	33HHHLLL-S0P0010
	LINE	RADIK LINE KLASIK	11 LINE KLASIK	11-HHHLLL-8011 0	11HHHLLL-50L0010
			21 LINE KLASIK	21-HHHLLL-8011 0	21HHHLLL-50L0010
			22 LINE KLASIK	22-HHHLLL-8011 0	22HHHLLL-50L0010
			33 LINE KLASIK	33-HHHLLL-8011 0	33HHHLLL-50L0010
		RADIK LINE KLASIK-R	20 LINE R	20-HHHLLL-R011 0	20HHHLLL-R0L0010
			21 LINE R	21-HHHLLL-R011 0	21HHHLLL-R0L0010
			22 LINE R	22-HHHLLL-R011 0	22HHHLLL-R0L0010
			33 LINE R	33-HHHLLL-R011 0	33HHHLLL-R0L0010
		RADIK LINE VK	11 LINE VK	11-HHHLLL-7011 0	11HHHLLL-60L0010
			21 LINE VK	21-HHHLLL-7011 0	21HHHLLL-60L0010
			22 LINE VK	22-HHHLLL-7011 0	22HHHLLL-60L0010
			33 LINE VK	33-HHHLLL-7011 0	33HHHLLL-60L0010
		RADIK LINE VKL	11 LINE VKL	11-HHHLLL-I011 0	11HHHLLL-E0L0010
			21 LINE VKL	21-HHHLLL-I011 0	21HHHLLL-E0L0010
			22 LINE VKL	22-HHHLLL-I011 0	22HHHLLL-E0L0010
			33 LINE VKL	33-HHHLLL-I011 0	33HHHLLL-E0L0010
		RADIK LINE VKM	11 LINE VKM	11-HHHLLL-H011 0	11HHHLLL-G0L0010
			21 LINE VKM	21-HHHLLL-H011 0	21HHHLLL-G0L0010
			22 LINE VKM	22-HHHLLL-H011 0	22HHHLLL-G0L0010
			33 LINE VKM	33-HHHLLL-H011 0	33HHHLLL-G0L0010
		RADIK LINE VKM8	11 LINE VKM8	11-HHHLLL-S011 0	11HHHLLL-S0L0010
			20 LINE VKM8	20-HHHLLL-S011 0	20HHHLLL-S0L0010
			21 LINE VKM8	21-HHHLLL-S011 0	21HHHLLL-S0L0010
			22 LINE VKM8	22-HHHLLL-S011 0	22HHHLLL-S0L0010
			33 LINE VKM8	33-HHHLLL-S011 0	33HHHLLL-S0L0010
	VERTIKAL	RADIK PLAN VERTIKAL - M	10	10-HHHLLL-V0-1 0	10HHHLLL-V0P0010
			20	20-HHHLLL-V0-1 0	20HHHLLL-V0P0010
	HYGIENE	RADIK LINE VERTIKAL - M	10	10-HHHLLL-U0-1 0	10HHHLLL-V0L0010
			20	20-HHHLLL-U0-1 0	20HHHLLL-V0L0010
		RADIK HYGIENE	10	10-HHHLLL-K0-1 0	10HHHLLL-5CH0010
			20S	20-HHHLLL-K0-1 0	20HHHLLL-5CH0010
			30	30-HHHLLL-K0-1 0	30HHHLLL-5CH0010
		RADIK HYGIENE VK	10 VK	10-HHHLLL-P0-1 0	10HHHLLL-6CH0010
			20S VK	20-HHHLLL-P0-1 0	20HHHLLL-6CH0010
			30 VK	30-HHHLLL-P0-1 0	30HHHLLL-6CH0010
		RADIK CLEAN	10 CLEAN	10-HHHLLL-50-1 0	10HHHLLL-50-0010
			20S CLEAN	20-HHHLLL-A0-1 0	20HHHLLL-5C-0010
			30 CLEAN	30-HHHLLL-A0-1 0	30HHHLLL-5C-0010
		RADIK CLEAN VK	10 CLEAN VK	10-HHHLLL-60-1 0	10HHHLLL-60-0010
			20S CLEAN VK	20-HHHLLL-B0-1 0	20HHHLLL-6C-0010
			30 CLEAN VK	30-HHHLLL-B0-1 0	30HHHLLL-6C-0010

ORDER CODE



Table for creation of a code

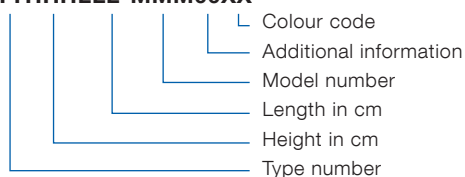
Valid until 31.12.2016

TT-HHHLLL-MM-XX



Valid from 1.1.2017

TTHHHLLL-MMM00XX



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

Correct code until 31. 12. 2016

22-050180-60-10

Correct code from 1. 1. 2017

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

HM FITTINGS

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:

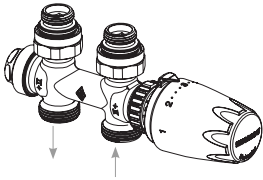
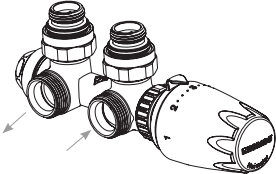
- integrated fittings in straight or angular design
- thermostatic head in white or chrome
- 2x reduction G 1/2 to G 3/4 with sealing "O" ring
- 2x flat sealing pieces from EPDM rubber
- assembly and operating instructions

Subject to special request, the following can be supplied:

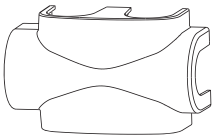
- universal cover for the fittings in white
- universal cover for the fittings in chrome

How to order

HM Fitting

	Design	Colour of the thermostatic head	Order number
	straight	white	Z-D023
		chrome	Z-D024
	angular	white	Z-D025
		chrome	Z-D026

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 MM
	RADIK PREMIUM
	RADIK PLAN PREMIUM
KORALUX	RADIK LINE PREMIUM
	KORALUX LINEAR MAX - M
	KORALUX LINEAR COMFORT - M
	KORALUX LINEAR CLASSIC - M
KORATHERM	KORALUX LINEAR EXCLUSIVE - M
	KORALUX RONDO MAX - M
	KORALUX RONDO COMFORT - M
	KORALUX RONDO CLASSIC - M
	KORALUX RONDO EXCLUSIVE - M
KORATHERM	KORATHERM HORIZONTAL - M
	KORATHERM VERTIKAL - M

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.

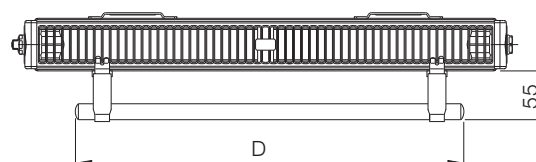
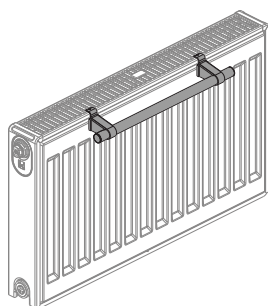


Towel dryer for RADIK



- designed to be used for all types of the following models of panel radiators RADIK:
 - RADIK KLASIK
 - RADIK KLASIK - R
 - RADIK VK
 - RADIK VKL
 - RADIK VKU
 - RADIK VKM
 - RADIK VKM-U
 - RADIK VKM - L
 - RADIK VKM8
 - RADIK COMBI VK
 - RADIK MM
 - RADIK CLEAN
 - RADIK CLEAN 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



Type	Order number
Radiator brush	Z-D029

COLOUR CARD



code 10
White RAL 9016



code 40
Alloy Black



code 45
Pearl Brown



code 35
Silber RAL 9006



code 42
Gold



code 32
Anthrazit Metallic



code 14
Jasmine



code 26
Pergamon



code 16
Bahama



code 22
Manhattan



code 37
Red RAL 3001



code 39
Black RAL 9005

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

The models RADIK KLASIK, VK, VKU, VKL, VKM, VKM - L, VKM-U, VKM8, MM, COMBI VK, KLASIK - R 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.



LINE SET



PLAN SET



PLAN SET with print

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 %.

GUARANTEE



KORADO®



05

The quality marks are valid for the range listed on pages 71 and 72.

RADIK

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