



RADIK[®]
... heat for you

Steel panel radiators

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.





RADIK® KLASIK



RADIK® KLASIK - R



RADIK® KLASIK - Z



RADIK® VK





RADIK® VKU

RADIK® VKL

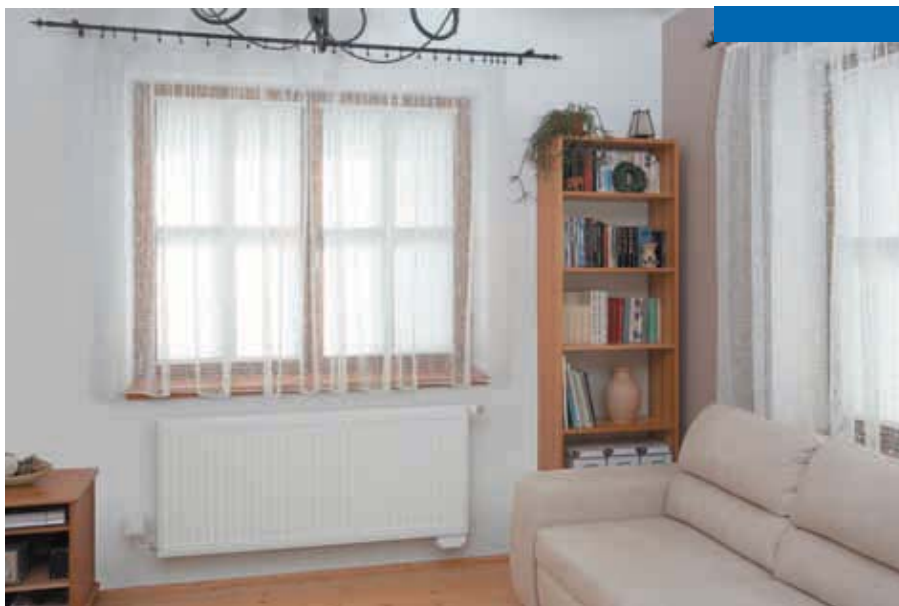


RADIK® VK - Z





RADIK® COMBI VK



RADIK® VKM

RADIK® PLAN KLASIK





RADIK® PLAN VK

RADIK® PLAN VKL



RADIK® PLAN VKM





RADIK® PLAN VERTIKAL - M



RADIK® LINE VERTIKAL - M

RADIK® MM





RADIK® HYGIENE



RADIK® HYGIENE VK

RADIK® CLEAN



RADIK® CLEAN VK



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ADVANTAGES OF RADIATORS

- low water content •
 - low weight •
- 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 •
 - made to last •
 - extended warranty •
- ISO 9001:2008 guarantee of quality of products and services •



RADIK® GENERAL INFORMATION

Description

RADIK radiators are steel panel radiators with a natural circulation of air around their panel. They are produced in single, double or triple panel form. The outer panel is made of a shaped plate with horizontal and vertical depressions. To increase heating performance some types of radiators are provided with a convector plate, welded to the vertical waterways of the panel.

The panel is made of two pressed steel sheets welded together with a seam weld on the perimeter and with a spot weld where the depressions are. The cold-rolled steel sheet used has a low content of carbon, corresponding to class FePO1 in accordance with EN 10130 and EN 10131.

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. The properties of the heating medium must be in compliance with the norm ČSN 07 7401. 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 cleanliness. 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

Overview of types

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 33	3	3

Versions

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

Basic versions of RADIK steel panel radiators:

- **KLASIK**
 - radiators with side connections and a corrugated front panel.
- **VENTIL KOMPAKT**
 - radiators with built-in inside distribution tapplings and valve, with bottom connections and profiled front panel.
- **PLAN**
 - radiators with side connections (KLASIK version) or bottom connections (VENTIL KOMPAKT version) with a smooth front panel.
- **VERTIKAL**
 - vertically aligned radiators without valve with bottom middle connection and a flat or grooved front panel
- **MM**
 - steel panel radiators with no valve, with bottom middle connection and corrugated front panel
- **HYGIENE**
 - radiators without convector fins, side panels and top grill, with side or bottom connections and with a smooth front panel

Overview of models

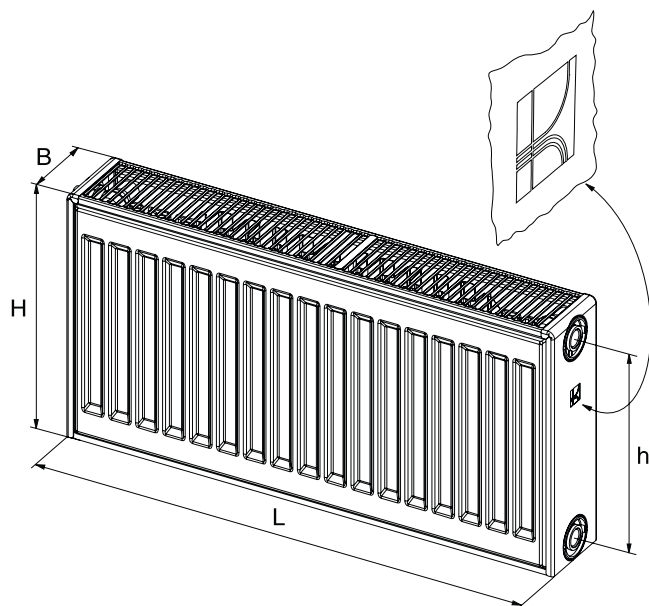
RADIK

- **KLASIK version**
 - RADIK KLASIK model
 - RADIK KLASIK - R model
 - RADIK KLASIK - Z model
- **VENTIL KOMPAKT version**
 - RADIK VK model
 - RADIK VKU model
 - RADIK VKL model
 - RADIK VKM model
 - RADIK COMBI VK model
 - RADIK VK - Z model
- **PLAN version**
 - RADIK PLAN KLASIK model
 - RADIK PLAN VK model
 - RADIK PLAN VKL model
 - RADIK PLAN VKM model
- **VERTIKAL version**
 - RADIK PLAN VERTIKAL - M model
 - RADIK LINE VERTIKAL - M model
- **MM version**
 - RADIK MM model
- **HYGIENE version**
 - RADIK HYGIENE model
 - RADIK HYGIENE VK model
 - RADIK CLEAN model
 - RADIK CLEAN VK model



RADIK® GENERAL INFORMATION

Technical data



Height	H = 300 ÷ 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
Working pressure	10 bar
Test pressure	13 bar
Highest allowed operation temperature	110 °C
Axial distance of the vertical stampings	33,33 mm
Basic paint	KTL
Surface paint	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:

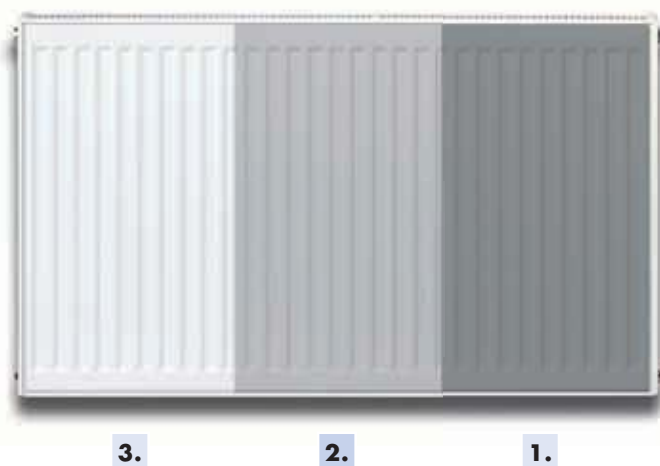
- long-term corrosion resistance and mechanical durability
- fine-quality finish
- hygienic surface

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 cathaphoresic 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 and KORALUX.



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



RADIK® GENERAL INFORMATION

Basic Equipment

All RADIK steel panel radiators except the model RADIK VKU 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. KLASIK radiators have one and VENTIL KOMPAKT two 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 and RADIK HYGIENE VK, RADIK CLEAN, RADIK CLEAN VK all other models are delivered with end panels and top grills fitted.

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. 94

Related norms

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

Packaging

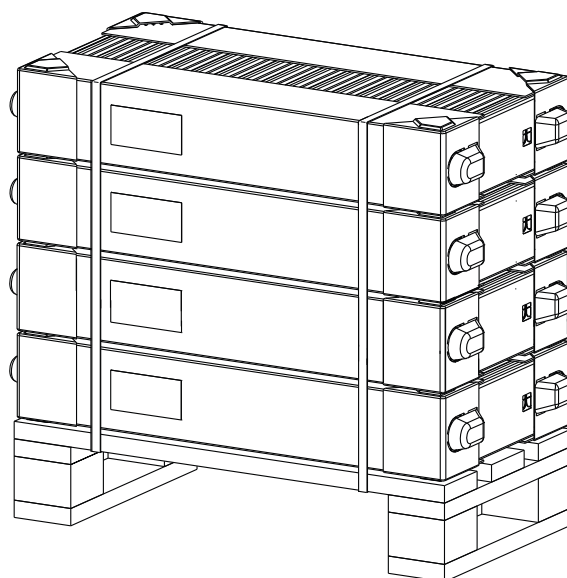
All steel panel radiators are delivered in uniform packaging, which consists of:

- corrugated cardboard
- plastic reinforcing corners covers
- polyethylene shrinking foil
- 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





RADIK® GENERAL INFORMATION

Guidelines for fitting

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 fitting of the radiator with minimum damage of its packaging (at the place of fitting 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.

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





RADIK® GENERAL INFORMATION - VENTIL KOMPAKT

Description

RADIK VK, RADIK VKU, RADIK VKL, RADIK COMBI VK, RADIK VKM and RADIK HYGIENE VK models are **VENTIL KOMPAKT** versions of steel panel radiators with a built-in internal connecting circuit 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 of 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 25
RADIK VKU	right or left	on page 26
RADIK VKL	only left	on page 27
RADIK VKM	only middle connection	on page 30
RADIK COMBI VK	only right	on page 28
RADIK PLAN VK	only right	on page 33
RADIK PLAN VKL	only left	on page 34
RADIK PLAN VKM	only middle connection	on page 35
RADIK HYGIENE VK	only right	on page 42
RADIK CLEAN VK	only right	on page 44

Valve

At the time of assembly of the radiator a valve is fitted into the built-in internal circuit. It is characterized by the following data:

- value of coefficient kv - see page 17
- allows presetting of water flow at six levels -factory preset for position six
- 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





RADIK® GENERAL INFORMATION - VENTIL KOMPAKT

Thermostatic head

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 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
2. Danfoss - Type RAX-K 013G6080
3. Eberle - Type TRV 4
4. Eberle - Type RT 414
5. Giacomini - Type R460H
6. Heimeier - Type K
7. Heimeier - Type DX
8. Heimeier - Type VDX
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



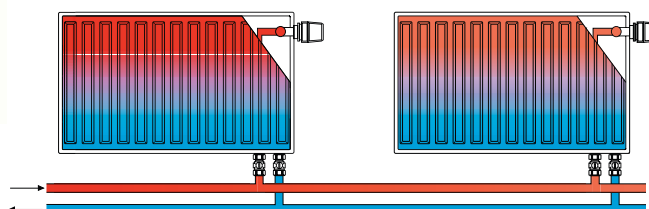


RADIK® GENERAL INFORMATION - VENTIL KOMPAKT

Twin-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 6 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

Solution to: level of presetting
Given: heat output
 cooling of water
 pressure loss of radiator with valve
 heat capacity of water

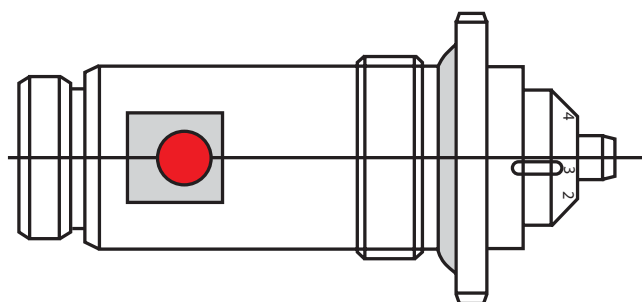
$Q = 960 \text{ W}$
 $t_1 - t_2 = 15 \text{ K (70/55 °C)}$
 $\Delta p = 65 \text{ mbar}$
 $c = 1,163 \text{ Wh/kg.K}$

Solution: weight flow

$$m = \frac{Q}{c \cdot (t_1 - t_2)} = \frac{960}{1,163 \cdot 15} = 55 \text{ kg/h}$$

level of presetting (see diagram):

3

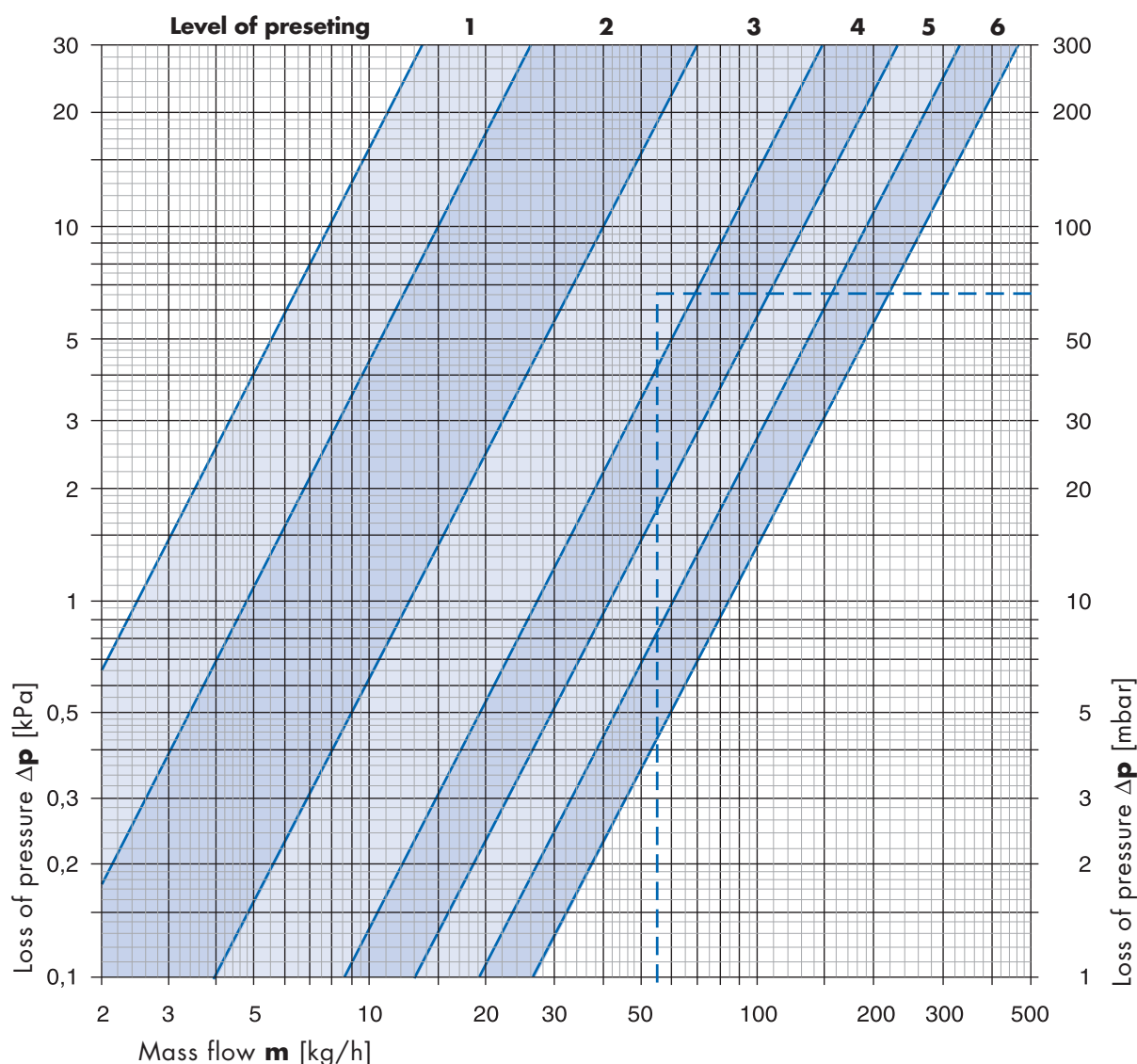


Level 3 presetting



RADIK® GENERAL INFORMATION - VENTIL KOMPAKT

Twin-pipe heating system



Table

Ventil Kompakt Radiators without connecting fittings			Level of valve presetting						Highest allowed oper. temperature [°C]	Highest allowed oper. working pressure [bar]
			1	2	3	4	5	6		
Valve with presetting at six levels and with thermostatic head	k_v [m^3/h]	min ÷ max	0,025 ÷ 0,047	>0,047 ÷ 0,126	>0,126 ÷ 0,269	>0,269 ÷ 0,417	>0,417 ÷ 0,600	>0,600 ÷ 0,840	110	10
	k_{vs} [m^3/h]		0,051	0,133	0,294	0,430	0,630	0,980		

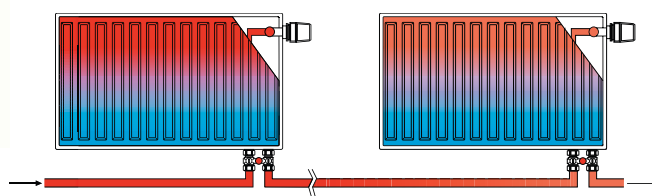


RADIK® GENERAL INFORMATION - VENTIL KOMPAKT

One-pipe heating system

When using VENTIL KOMPAKT steel panel radiators, it is necessary for the valve to be preset at level 6. To set the required water flow for the radiator, we recommend using a compact connection fitting that has a fixed or an adjustable setting to allow the water into the radiator.

As an example we use the VEKOLUX compact fitting from the company HEIMEIER.



Example of calculation

Solution to: pressure loss when using a radiator with valve including Vekolux fitting

Given: heat output of the circuit
cooling of water
share of radiator
heat capacity of water

$Q = 4380 \text{ W}$
 $t_1 - t_2 = 20 \text{ K (70/50 °C)}$
 $m_{ot} \triangleq 50\%$
 $c = 1,163 \text{ Wh/kg.K}$

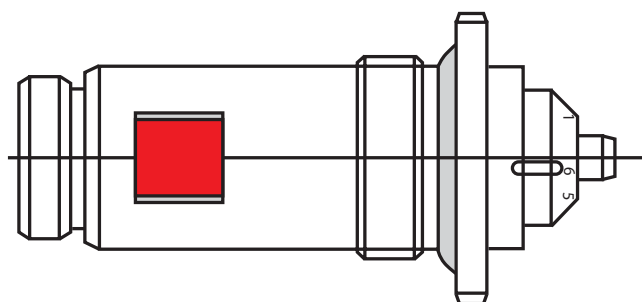
Solution: weight flow in the circuit

$$m_R = \frac{Q}{c \cdot (t_1 - t_2)} = \frac{4380}{1,163 \cdot 20} = 188 \text{ kg/h}$$

pressure loss of radiator
with valve including Vekolux fitting
weight flow in radiator

$$\Delta p_{total} = 22 \text{ mbar}$$

$$m_{ot} = m_R \cdot 0,5 = 188 \cdot 0,5 = 94 \text{ kg/h}$$

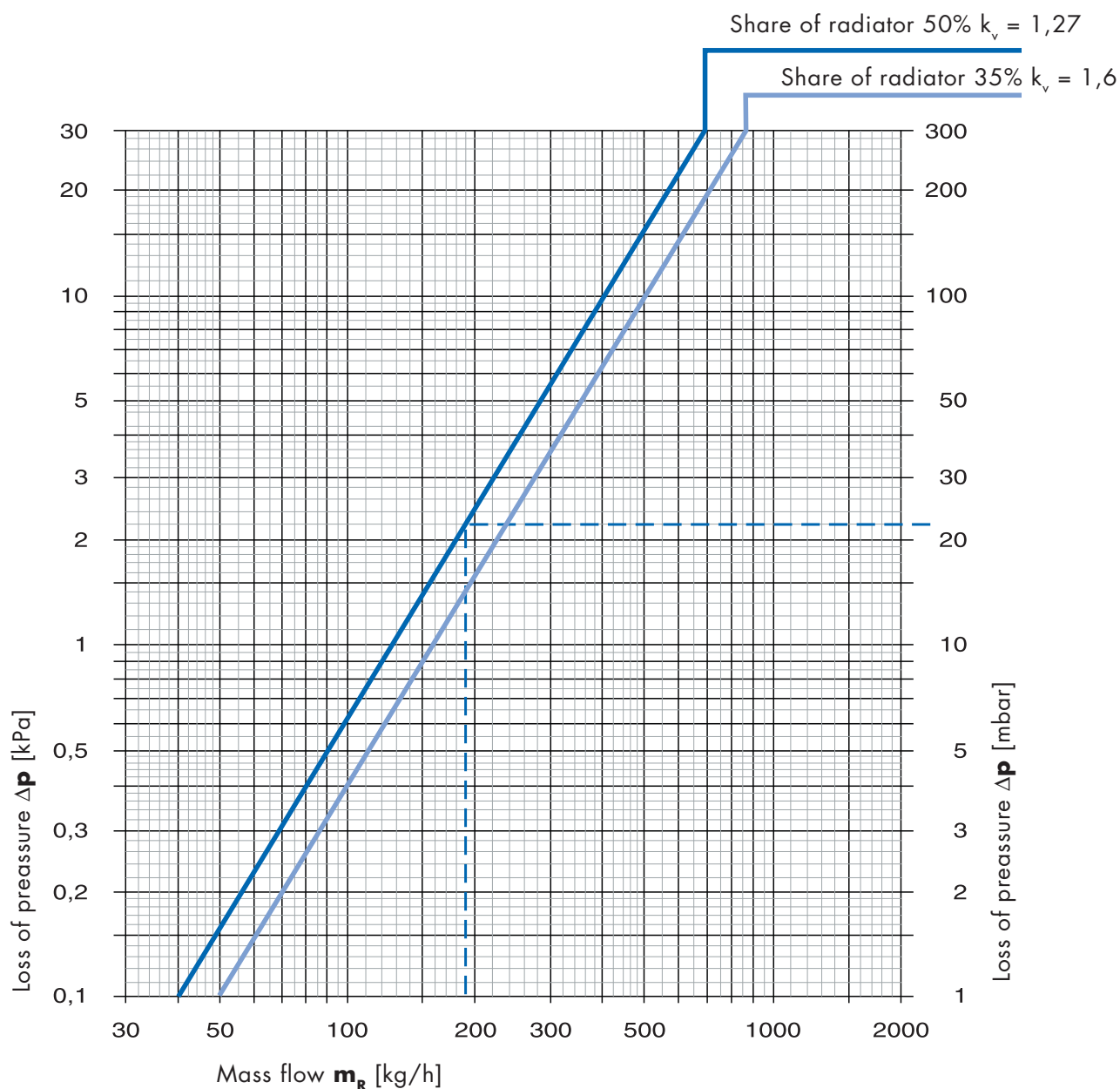


level 6 presetting



RADIK® GENERAL INFORMATION - VENTIL KOMPAKT

One-pipe heating system



Table

Radiators Ventil Kompakt with Vekolux fitting in the corner and direct version	share of radiator [%]	K_v value [m³/h]	setting of bypass* [ot.]	Highest allowed oper. temperature [°C]	Highest allowed oper. working pressure [bar]
Valve preset at level six and with thermostatic head	50	1,27	max	110	10
	35	1,60	3,5		

*) For setting at 35% close Vekolux and then open by turning it round 3.5 times.

Maximum opening corresponds to 50% share of radiator.



RADIK® KLASIK

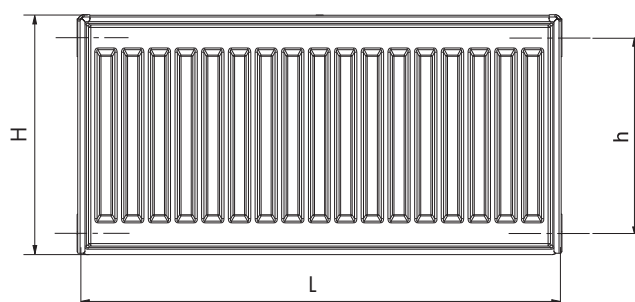


Description

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 1 800 mm long and longer have six welded hangers.

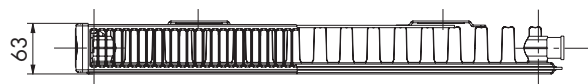
Overview of types



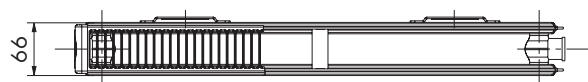
Type 10



Type 11



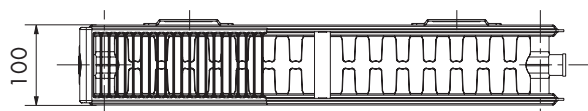
Type 20



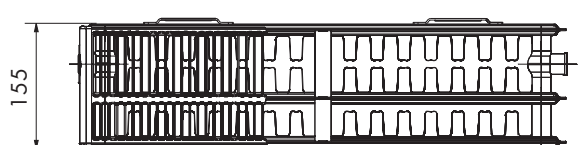
Type 21



Type 22



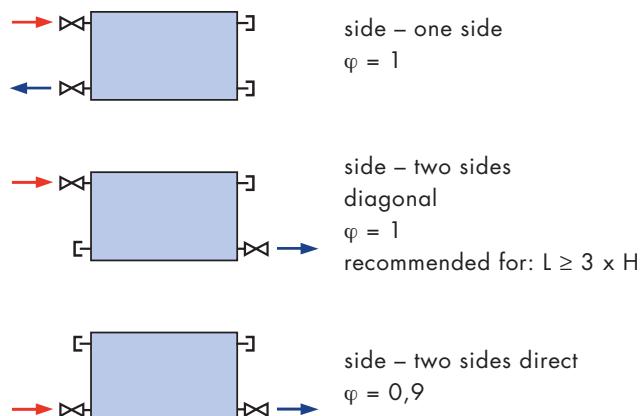
Type 33



Technical Data

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

Examples of connection to the heating system





RADIK® KLASIK - R



Description

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

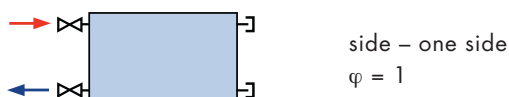
The height $H = 554$ mm guarantees its problem-free fitting in place of the old radiator. It allows for **left or right side connection** to the heating system distribution mains and is designed for heating systems with forced or gravity circulation. Two upper and lower fixing hangers are welded onto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

The wide range of types of RADIK KLASIK - R allows you to always choose the most suitable and appropriate length.

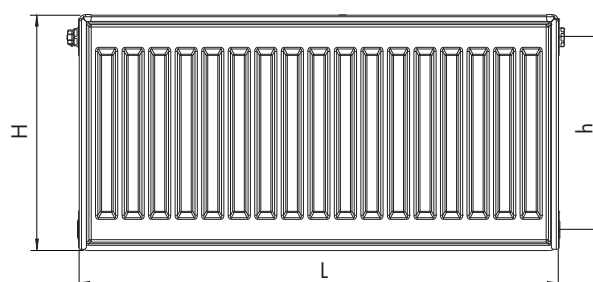
Technical Data

Height H	554 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 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



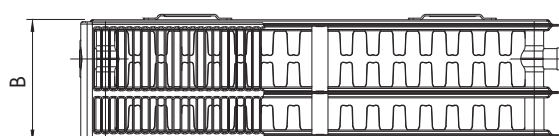
Type 21 R



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

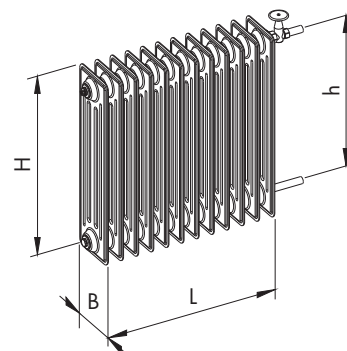
Sectional radiators						[mm]	Steel panel radiator				
cast-iron				steel			RADIK KLASIK - R				
1.	575 ÷ 610				575 ÷ 610		H	554			
2.	500				500		h	500			
3.	110	160	220	200	150	200	B	66	66	100	155
4.	500/110	500/160	500/220	500/200	500/150	500/200	Type	20 R	21 R	22 R	33 R
5.	number of sections n [pcs]				number of sections n [pcs]			appropriate length of the radiator L [mm]			
	5	3	3	3	5	4	→	400			
	6	4	3	4	6	5	→	500	400		
	7	5	4	4	7	5	→	600	400	400	
	8	6	5	5	8	7	→	700	500	400	
	10	7	6	7	10	8	→	800	600	500	
	11	8	6	7	11	9	→	900	700	500	400
	12	9	7	8	12	10	→	1000	800	600	400
	13	10	8	9	13	11	→	1100	800	700	500
	15	11	9	10	15	12	→	1200	900	700	500
	16	12	10	11	16	14	→	1400	1000	800	600
	17	13	10	12	17	14	→	1400	1100	800	600
	18	14	11	12	18	15	→	1600	1100	900	600
	20	15	12	13	20	16	→	1600	1200	900	700
	22	16	13	15	22	18	→	1800	1400	1000	700
	24	18	14	16	24	19	→	2000	1400	1100	800
	25	19	15	17	25	21	→	2000	1600	1200	800
	26	20	15	17	26	22	→	2300	1600	1200	900
	29	22	17	20	29	24	→	2300	1800	1400	1000
	30	23	18	20	30	25	→	2600	1800	1400	1000
	33	25	20	22	33	27	→	2600	2000	1600	1100
	35	26	21	23	35	28	→	3000	2300	1600	1100
	38	28	23	26	38	31	→	3000	2300	1800	1200
	38	29	23	26	38	31	→	3000	2300	1800	1400
	40	30	23	26	40	32	→		2600	1800	1400
	44	33	26	29	44	36	→		2600	2000	1400
	50	38	30	34	50	41	→		3000	2300	1600
	57	43	34	38	57	46	→			2600	1800
	64	48	38	43	64	51	→			3000	2000
	66	50	39	44	66	54	→			3000	2300

Identification of the old radiator:

1. Determine material (cast-iron/steel)*
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

* if the surface of your sectional radiator is rough, you have a cast-iron 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	500	110	92
		150	107
		160	120
		200	134
		220	151
		250	169

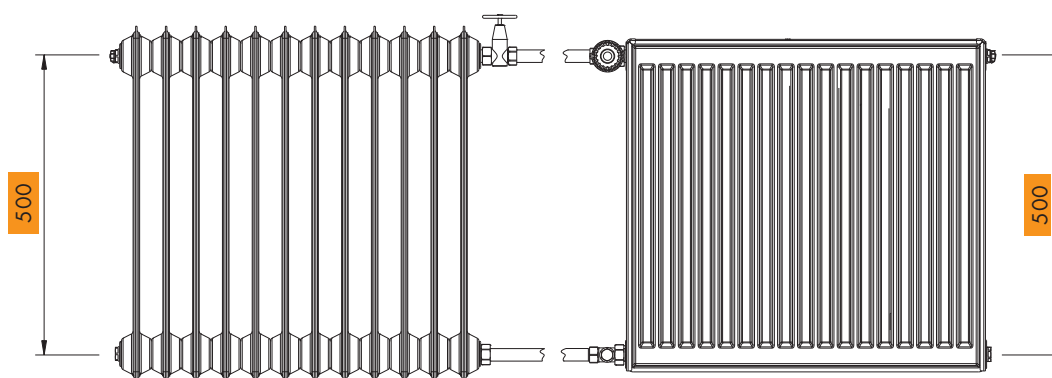
Source of information: Czechoslovak catalogue for construction 14/5 Radiators, basic advice for 1991

The company reserves the right to make technical changes.

Guidelines for ordering are described on page 96.



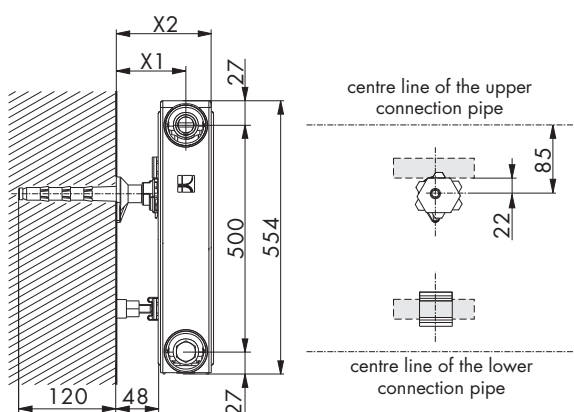
RADIK® KLASIK - R



Fitting data

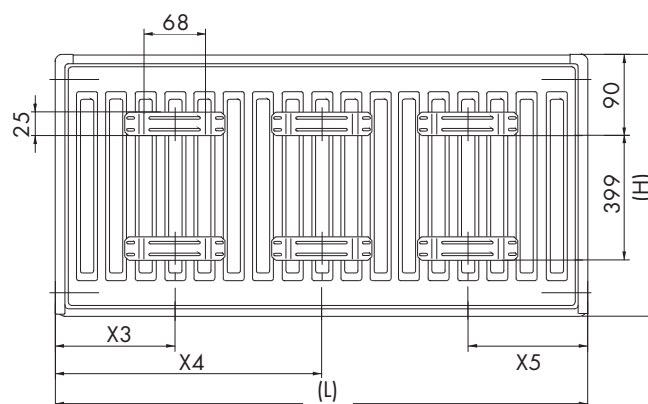
The Z-U140 bracket can be used for fixing the radiator from the wall of 48 mm, or the Z-U290 bracket with variable distance of up to 100 mm from the wall.

Z-U140 bracket



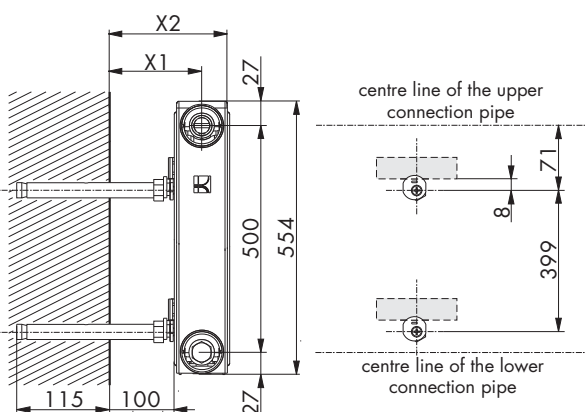
Type	20 R	21 R	22 R	33 R
X1	81	81	98	98
X2	114	114	148	203

Fitting data



Length L [mm]	400	500 ÷ 1600	1800	2000	2300	2600	3000
X3	133	133	133	133	133	133	133
X4	-	-	900	1000	1133	1300	1500
X5	133	133	133	133	133	133	133

Z-U290 bracket



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

Basic technical data

Type	20 R	21 R	22 R	33 R
Height H [mm]	554	554	554	554
Radiator weight [kg/m]	22,6	28,0	34,6	52,4
Water volume [l/m]	5,5	5,5	5,5	8,2
Flow coefficient A_f [m²]	$1,0 \times 10^{-4}$ (DN 15)	$1,0 \times 10^{-4}$ (DN 15)	$1,0 \times 10^{-4}$ (DN 15)	$1,18 \times 10^{-4}$ (DN 15)
Resistance coefficient ξ_r [-]	8,5 (DN 15)	8,5 (DN 15)	8,5 (DN 15)	5,8 (DN 15)
Standard heat output [W/m]	914	1210	1576	2257
Temperature exponent n [-]	1,3010	1,3300	1,3344	1,3364



RADIK® KLASIK - Z



Description

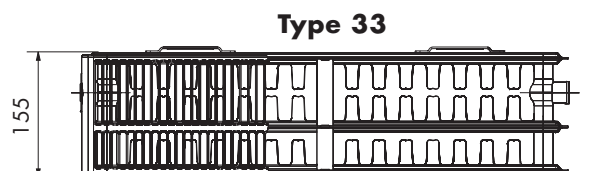
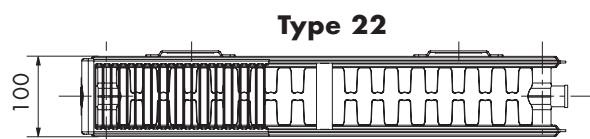
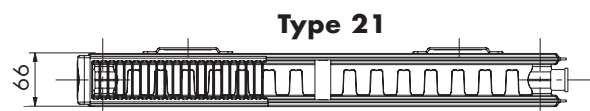
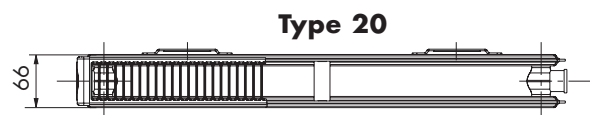
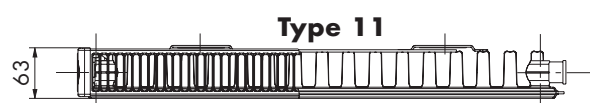
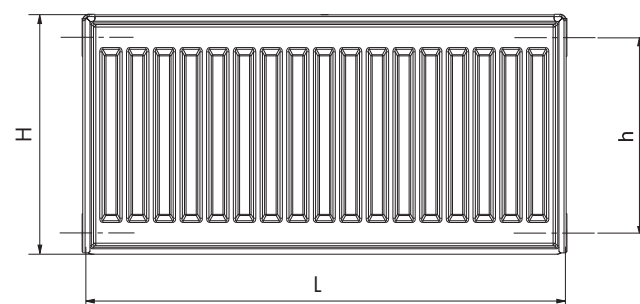
RADIK zinc-coated panel radiators are intended for rooms with a high risk of corrosion because of high humidity or chemically aggressive atmospheres. Resistance to corrosion is increased thanks to a layer of zinc plating, which slows down the corrosion process and results in an extended life of the radiator.

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 1 800 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.

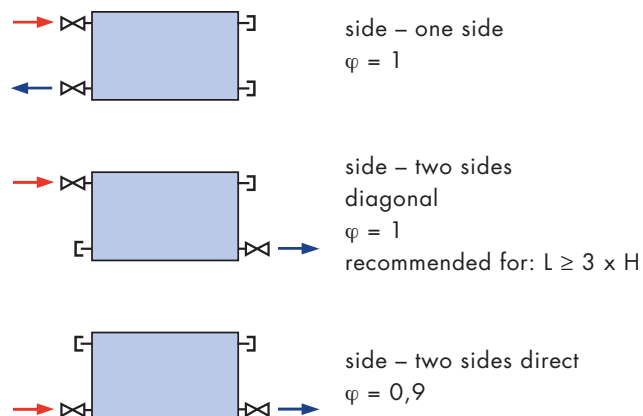
Overview of types



Technical Data

Height H	300, 400, 500, 600, 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





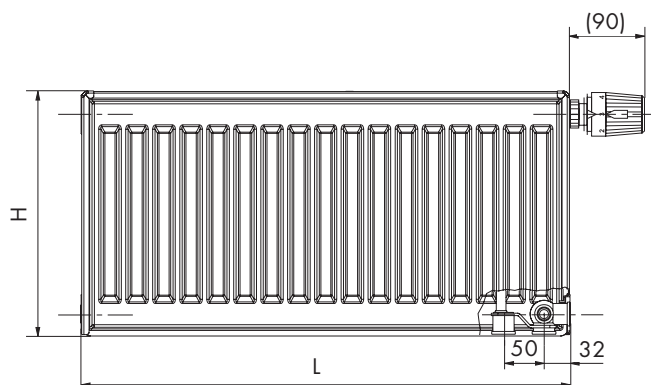
RADIK® VK



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



Technical Data

Height H	300, 400, 500, 600, 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



Type 11 VK



Type 20 VK



Type 21 VK



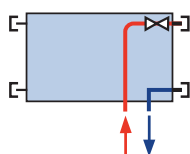
Type 22 VK



Type 33 VK



Example of connection to the heating system



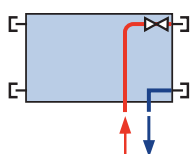
right bottom
 $\varphi = 1$



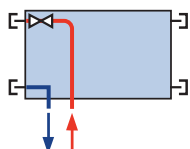
Technical Data

Height H	300, 400, 500, 600, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 20 VKU	66 mm
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

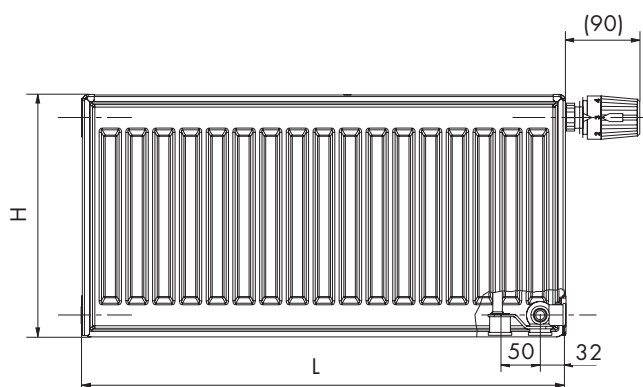
RADIK VKU model is a steel panel radiator in VENTIL KOMPAKT version which allows **left or right bottom connection** to the pressurized heating system. No hangers are welded on the back, so radiator types 20, 21, 22, and 33 can be turned round.

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 Spring Loaded Brackets (see the KORAMONT catalogue).

Overview of types



Type 20 VKU



Type 21 VKU



Type 22 VKU



Type 33 VKU





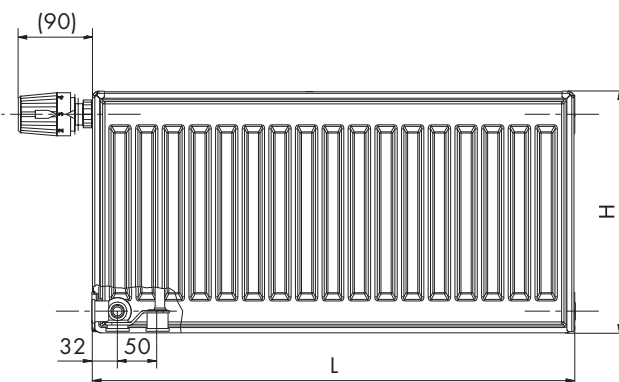
RADIK® VKL



Description

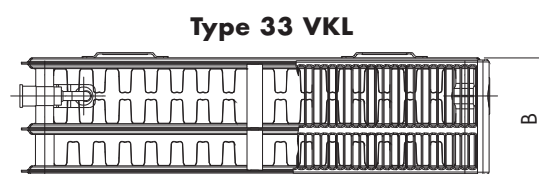
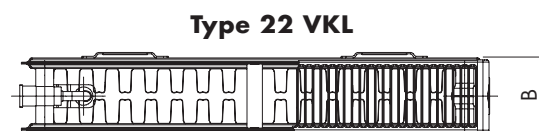
RADIK VKL model is a steel panel radiator in VENTIL KOMPAKT version which allows **left bottom connection** to a heating system which is pressure fed. Two upper and lower hangers are welded onto the back. Radiators 1800 mm and longer have six hangers.

Overview of types

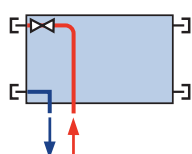


Technical Data

Height H	300, 400, 500, 600, 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 20 VKL	66 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



Examples of connection to the heating system



left bottom
 $\varphi = 1$



RADIK® COMBI VK



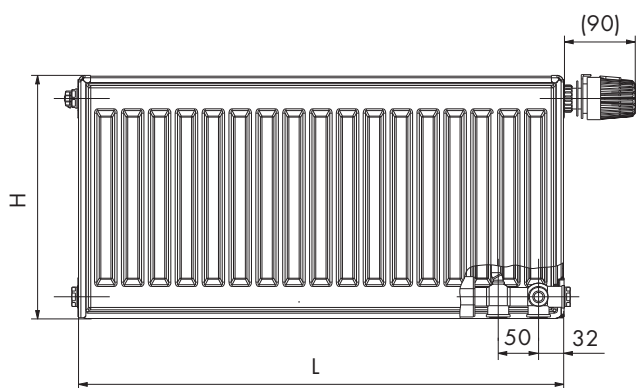
Description

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.

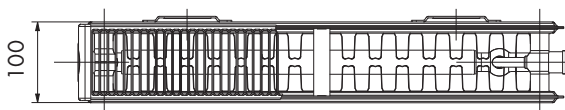
RADIK COMBI VK is designed for a combined installation with the electric heater. This combination creates a panel radiator suitable for combined heating (hot water – electricity) and can be used independently of the operation of the heating system. From the view of the electric installation the electric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



Type 22 COMBI VK

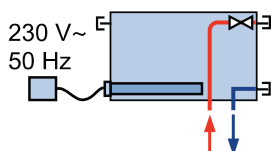


Technical Data

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

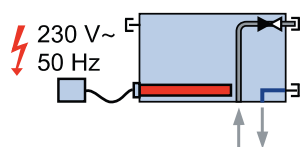
Different ways of usage of the radiator

Connection to the water heating system



right bottom
 $\varphi = 1$

Usage as a direct electric radiator



the valve of the radiator is closed



Before installation you should check with your local authority to ensure that this type of radiator is permissible to use.

The company reserves the right to make technical changes.

Guidelines for ordering are described on page 96.



RADIK® COMBI VK - COMBINED HEATING

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

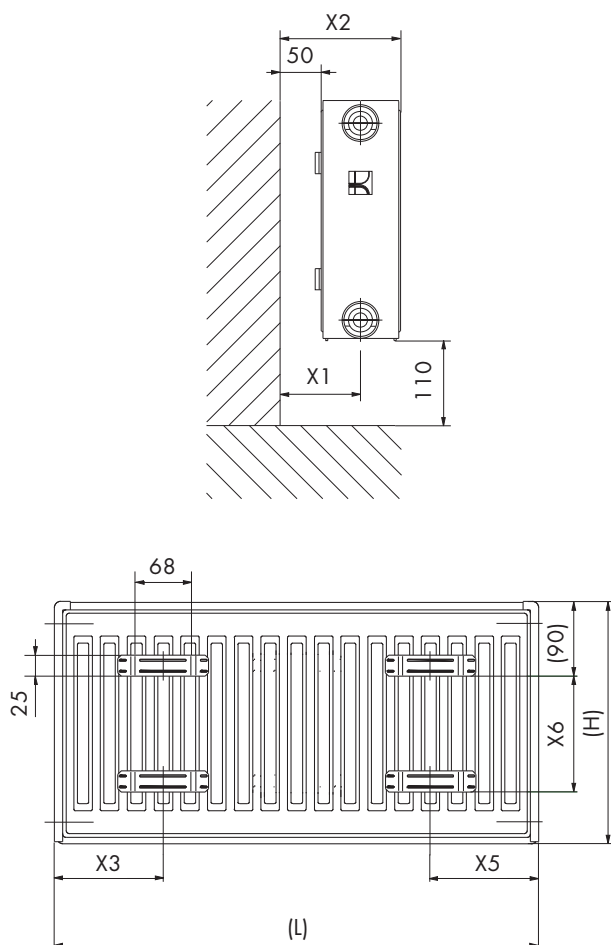


Table of sizes

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..



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. 96) and of the electrical heating element. (see please p. 29)



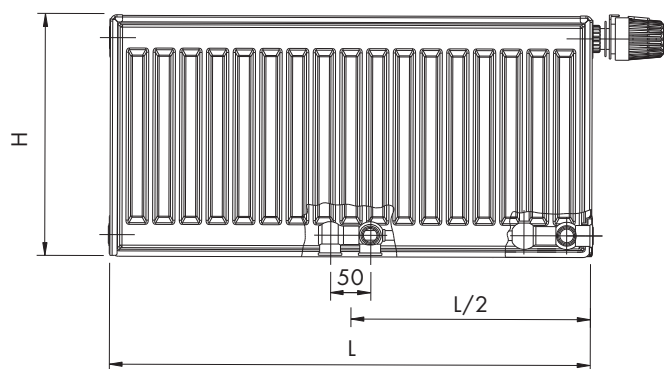
Description

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



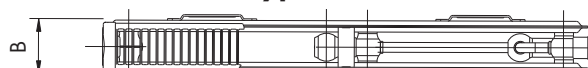
Type 10 VKM



Type 11 VKM



Type 20 VKM



Type 21 VKM



Type 22 VKM



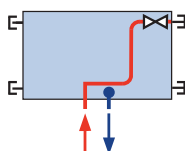
Type 33 VKM



Technical Data

Height H	300, 400, 500, 600, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Length B	
Type 10 VKM	47 mm
Type 11 VKM	63 mm
Type 20 VKM	66 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

Example of connection to the heating system



middle connection
 $\varphi = 1$



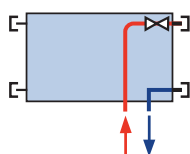
RADIK® VK - Z



Technical Data

Height H	300, 400, 500, 600, 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 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

Example of connection to the heating system



right bottom
 $\varphi = 1$

Description

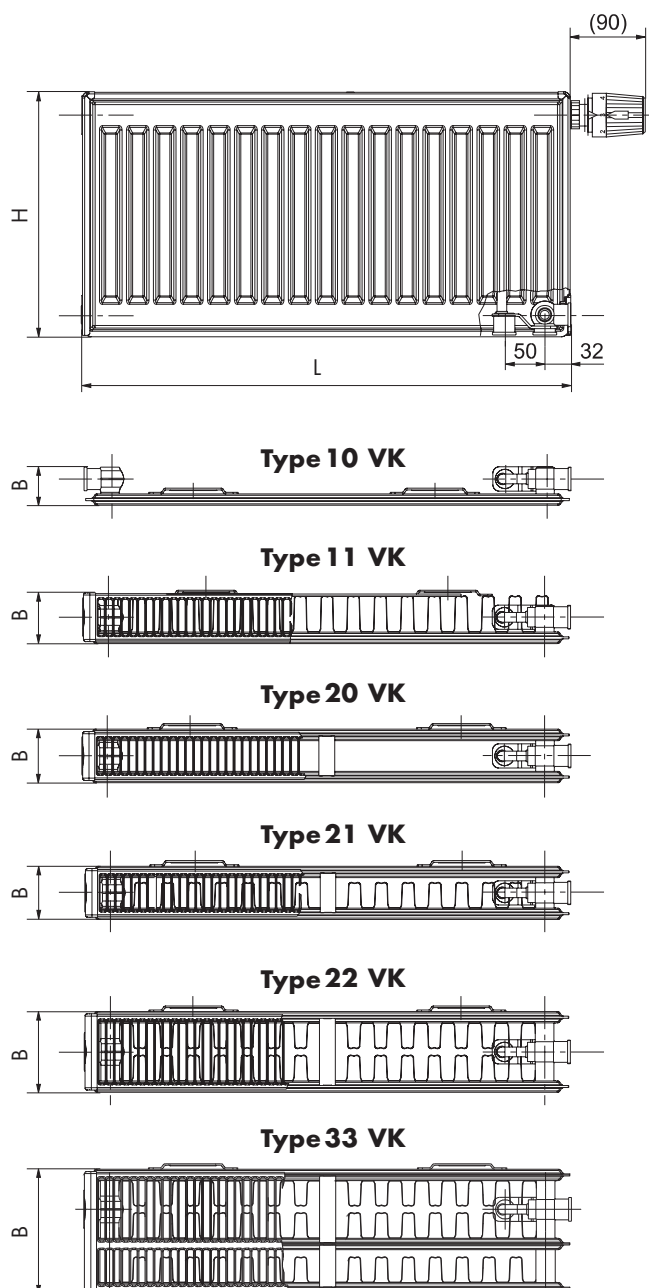
RADIK zinc-coated panel radiators are intended for rooms with a high risk of corrosion because of high humidity or chemically aggressive atmospheres. Resistance to corrosion is increased thanks to a layer of zinc plating, which slows down the corrosion process and results in an extended life of the radiator.

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.

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.

Overview of types





RADIK® PLAN KLASIK

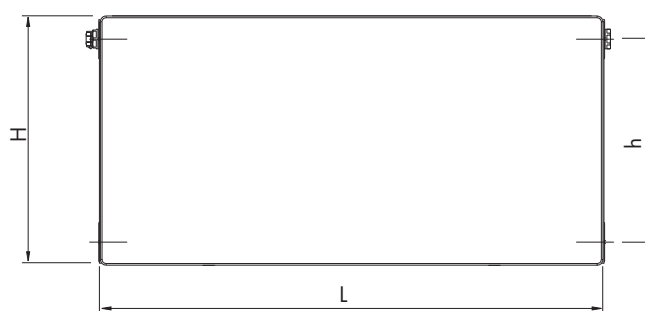


Description

RADIK PLAN KLASIK 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 1 800 mm long and longer have six welded hangers.

Overview of types



Type 10 PLAN



Type 11 PLAN



Type 20 PLAN



Type 21 PLAN



Type 22 PLAN



Type 33 PLAN



Technical Data

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

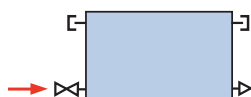
Examples of connection to the heating system



side – one side
 $\varphi = 1$



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



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



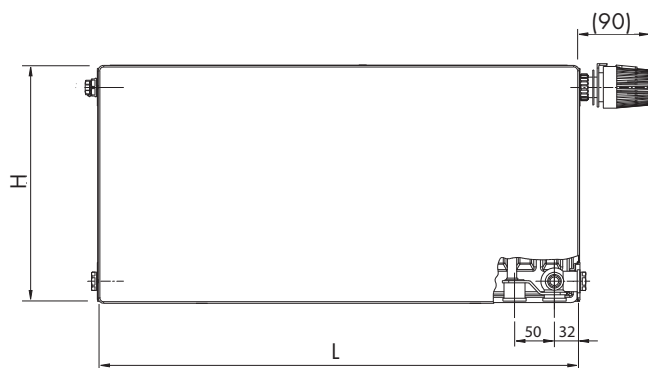
RADIK® PLAN VK



Description

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

Overview of types



Type 10 PLAN VK



Type 11 PLAN VK



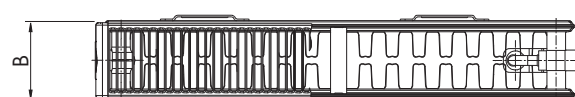
Type 20 PLAN VK



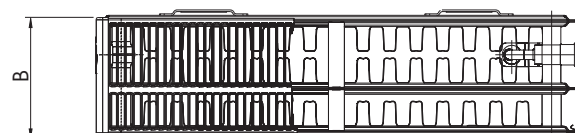
Type 21 PLAN VK



Type 22 PLAN VK



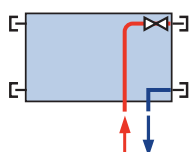
Type 33 PLAN VK



Technical Data

Height H	300, 400, 500, 600, 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 PLAN VK	49 mm
Type 11 PLAN VK	65 mm
Type 20 PLAN VK	68 mm
Type 21 PLAN VK	68 mm
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

Example of connection to the heating system



right bottom
 $\varphi = 1$



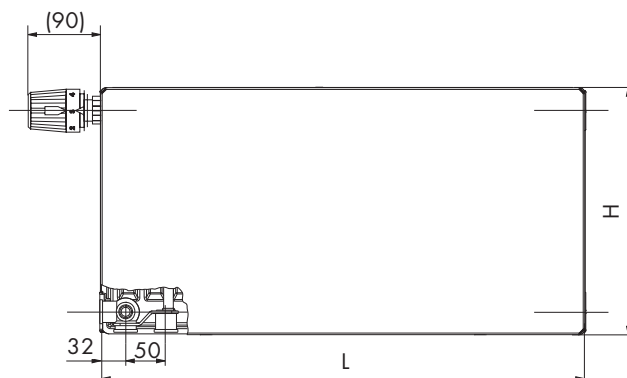
RADIK® PLAN VKL



Description

RADIK PLAN VKL model is a steel panel radiator in VENTIL KOMPAKT 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



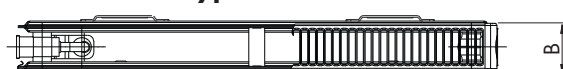
Type 10 PLAN VKL



Type 11 PLAN VKL



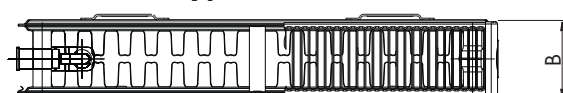
Type 20 PLAN VKL



Type 21 PLAN VKL



Type 22 PLAN VKL



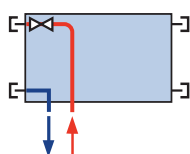
Type 33 PLAN VKL



Technical Data

Height H	300, 400, 500, 600, 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 PLAN VKL	49 mm
Type 11 PLAN VKL	65 mm
Type 20 PLAN VKL	68 mm
Type 21 PLAN VKL	68 mm
Type 22 PLAN VKL	102 mm
Type 33 PLAN 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

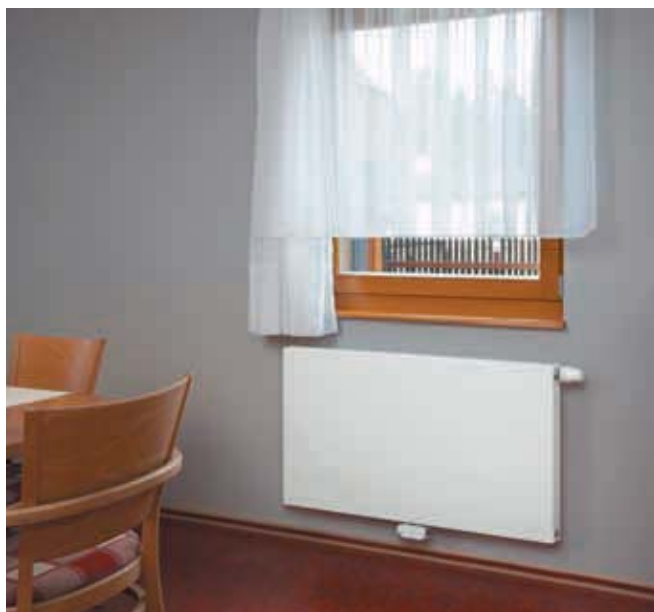
Example of connection to the heating system



left bottom
 $\varphi = 1$



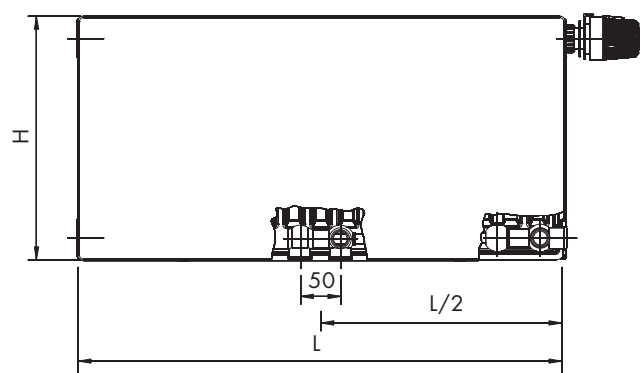
RADIK® PLAN VKM



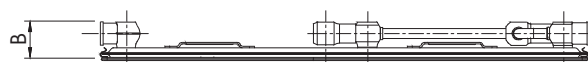
Description

The type **RADIK PLAN VKM** is a steel panel radiator 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 6 hangers.

Overview of types



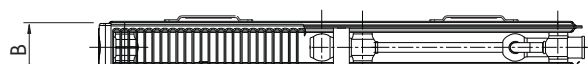
Type 10 PLAN VKM



Type 11 PLAN VKM



Type 20 PLAN VKM



Type 21 PLAN VKM



Type 22 PLAN VKM



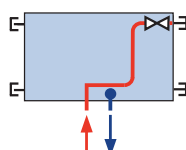
Type 33 PLAN VKM



Technical Data

Height H	300, 400, 500, 600, 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 PLAN VKM	49 mm
Type 11 PLAN VKM	65 mm
Type 20 PLAN VKM	68 mm
Type 21 PLAN VKM	68 mm
Type 22 PLAN VKM	102 mm
Type 33 PLAN 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

Example of connection to the heating system



middle connection
 $\varphi = 1$



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.

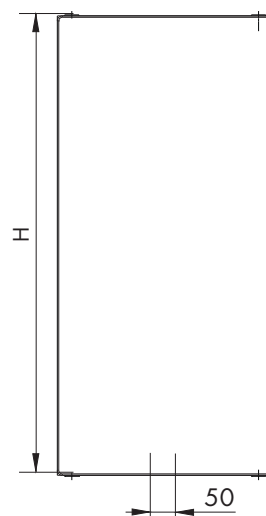


For connecting to the heating system we recommend using the Integrated Fitting HM supplied with a thermostatic head (see page 90)

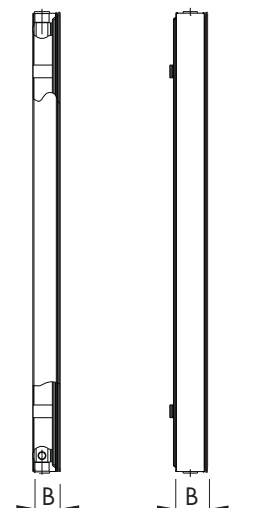
Technical Data

Height H	1600, 1800, 2000, 2300 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

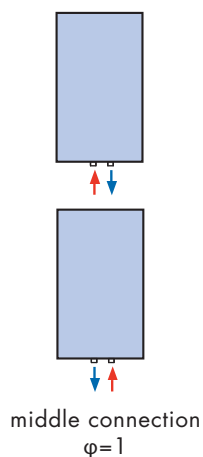
Overview of types



Type 10 Type 20



Examples of connection to the heating system



Guidelines for ordering are described on page 96.



RADIK® LINE VERTIKAL - M



Description

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

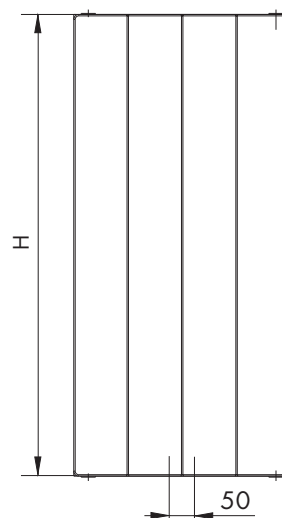


For connecting to the heating system we recommend using the Integrated Fitting HM supplied with a thermostatic head (see page 90)

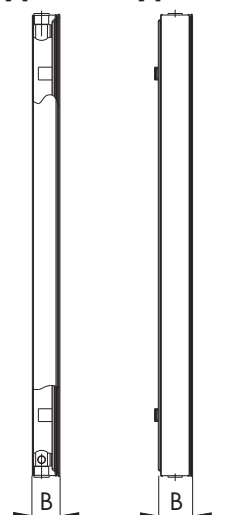
Technical Data

Height H	1600, 1800, 2000, 2300 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

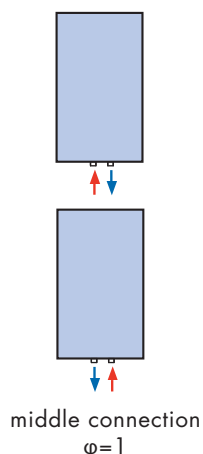
Overview of types



Type 10 Type 20



Examples of connection to the heating system





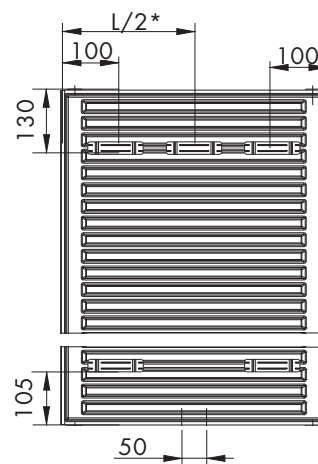
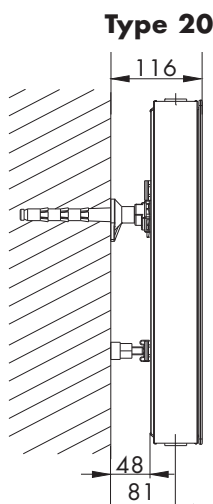
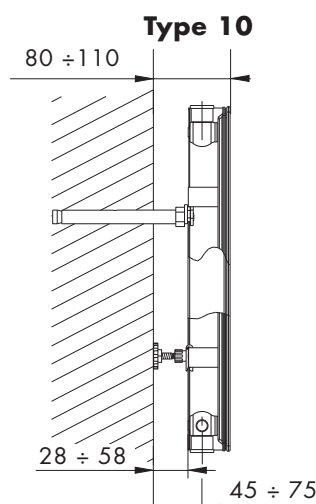
RADIK® PLAN VERTIKAL - M, LINE VERTIKAL - M

Fixation

For fixing to the wall, we recommend use of the 18/120 (Z-U144) drill-in bracket - always 2 brackets. When using Z-U140 and Z-U300 brackets, the required number of brackets is the same as the number of upper fixing hangers. When using the Z-U320 bracket, you must always use four brackets.

Fixation

Recommended mounting brackets - type	Code for ordering	Type 10	Type 20
Drill-in bracket 15/120	Z-U140		X
Drill-in bracket 18/120	Z-U144	X	X
Simple wall bracket	Z-U320	X	X
Simple wall bracket - angled	Z-U300	X	X



* valid for Type 20 with length 600 and 900 mm

Heat output and basic technical parameters

20°C		Type 10				Type 20			
Length L [mm]		Height H [mm]							
		1600	1800	2000	2300	1600	1800	2000	2300
400	Q [W] 90/70 [°C]	751	823	891	989	1068	1168	1264	1400
	Q [W] 75/65 [°C]	602	661	717	797	847	927	1004	1114
	Q [W] 70/55 [°C]	487	536	582	648	677	742	804	894
	Q [W] 55/45 [°C]	315	348	379	423	429	471	511	570
	Water volume [l]	3,7	4,1	4,6	5,3	7,0	7,9	8,8	10,1
	Radiator weight [kg]	20,11	22,59	25,07	28,85	33,23	37,51	41,61	47,91
	Temp. exponent n [-]	1,2512	1,2400	1,2334	1,2234	1,3160	1,3115	1,3056	1,2967
600	Q [W] 90/70 [°C]	1035	1133	1227	1363	1491	1631	1764	1955
	Q [W] 75/65 [°C]	829	909	986	1097	1185	1297	1404	1559
	Q [W] 70/55 [°C]	669	735	799	890	950	1040	1127	1254
	Q [W] 55/45 [°C]	432	477	519	580	604	663	720	803
	Water volume [l]	5,0	5,6	6,2	7,1	9,3	10,4	11,6	13,3
	Radiator weight [kg]	28,41	31,99	35,57	40,85	48,98	55,16	61,26	70,46
	Temp. exponent [-]	1,2595	1,2482	1,2415	1,2315	1,3036	1,2991	1,2932	1,2844
900	Q [W] 90/70 [°C]	1426	1560	1692		2090	2283	2471	
	Q [W] 75/65 [°C]	1141	1251	1358		1659	1814	1965	
	Q [W] 70/55 [°C]	921	1011	1099		1328	1454	1576	
	Q [W] 55/45 [°C]	594	655	713		843	924	1004	
	Water volume [l]	6,9	7,7	8,6		13,3	15,0	16,6	
	Radiator weight [kg]	45,21	50,79	56,47		75,47	84,95	94,45	
	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_r [m²]		2,4 x 10 ⁻⁵				3,14 x 10 ⁻⁵			

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



RADIK[®] MM



Description

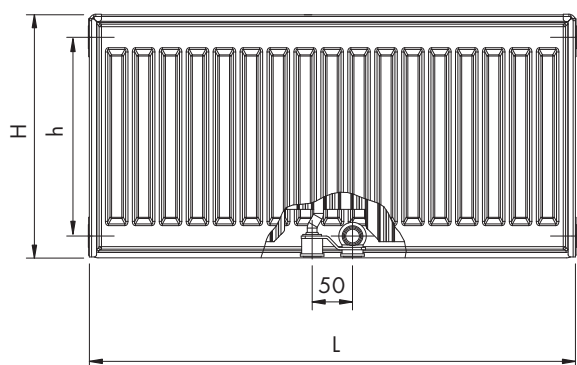
The **RADIK MM** model is a steel panel radiator without a valve, which allows for modern **bottom middle connection** to a pressurised heating system. Two upper and two lower fixing hangers are welded to the back, radiators 1800 mm in length or longer have six fixing hangers welded to the back.

The unique design solution differentiates RADIK MM not only from the competition, but also from traditional individual RADIK models.

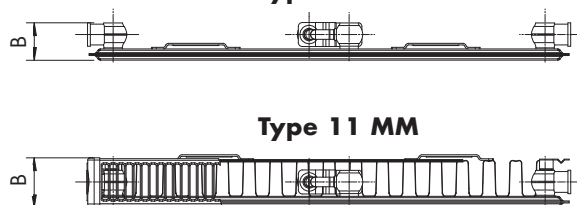


For connecting to the heating system we recommend using the Integrated Fitting HM supplied with a thermostatic head (see page 90)

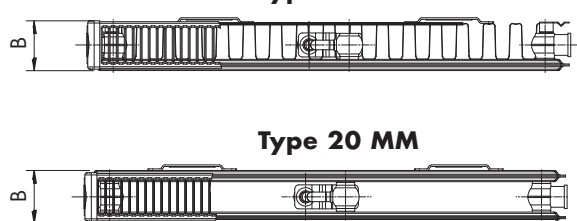
Overview of types



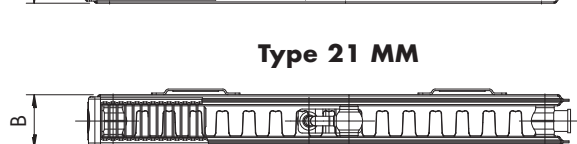
Type 10 MM



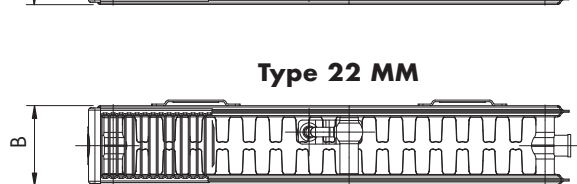
Type 11 MM



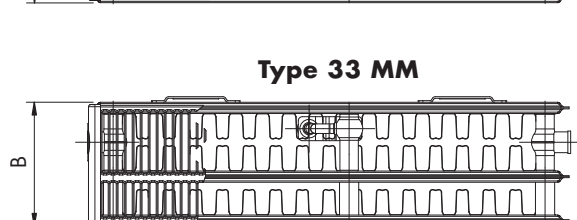
Type 20 MM



Type 21 MM



Type 22 MM

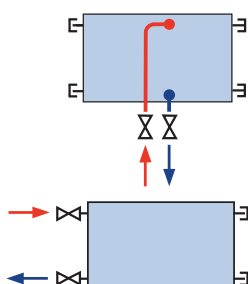


Type 33 MM

Technical Data

Height H	300, 400, 500, 600, 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 MM	47 mm
Type 11 MM	63 mm
Type 20 MM	66 mm
Type 21 MM	66 mm
Type 22 MM	100 mm
Type 33 MM	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, left or right side

Example of connection to the heating system



middle connection
 $\varphi = 1$

side – one side
 $\varphi = 0,96$

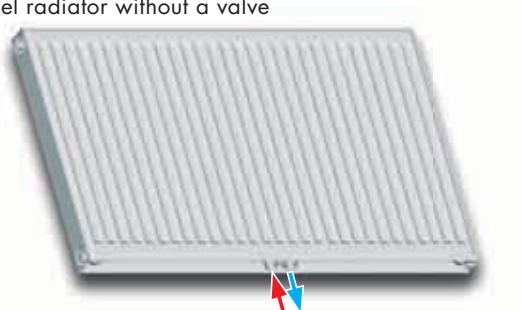


RADIK® MM

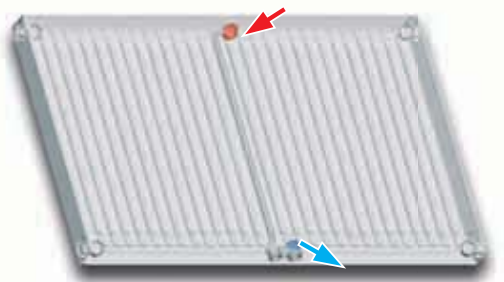
Characteristics

New and nontraditional design RADIK MM:

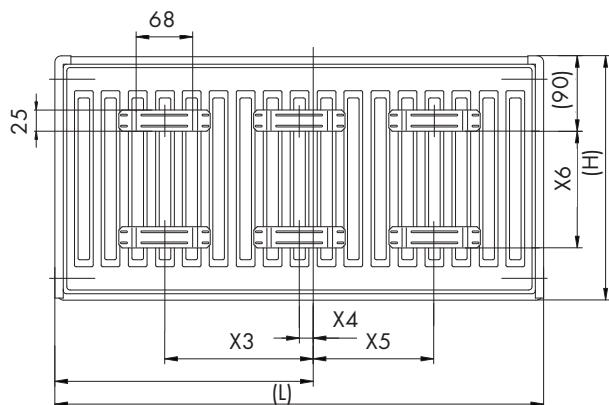
- bottom middle connection to the heating system with a connecting pitch of 50 mm
- panel radiator without a valve



- heating water is fed directly into the middle of the upper part of the radiator panels
- heating water is drained directly from the middle of the lower part of the radiator panels



Location of hangers



- A** - for type 20 MM , 21 MM , 22 MM , 33 MM
B - for type 10 MM
C - for type 11 MM

Length L [mm]	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000	2300	2600	3000
X3	A	67	117	167	217	267	317	367	417	467	567	667	767	867	1067	1367
	B	-	114	167	217	267	317	367	417	467	567	667	767	867	-	-
	C	83	77	150	200	250	300	350	400	450	550	650	750	580	1000	1350
X4	A	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0
	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	C	-	-	-	-	-	-	-	-	-	-	17	17	17	17	17
X5	A	67	117	167	217	267	317	367	417	467	567	667	767	867	1067	1367
	B	-	114	167	217	267	317	367	417	467	567	667	767	867	-	-
	C	83	77	150	200	250	300	350	400	450	550	650	750	580	1000	1350

Uniqueness

RADIK MM is without a doubt a next generation steel panel radiator. The unique design solution of RADIK means:

- an increase in heat output
 - caused by more even heating of the radiator panels
- freedom of design and the possibility of exchanging the radiator
 - allows for exchange of the radiator for another radiator with different dimensions or of a different type without any modification to the connection pipes
- simplicity, speed and precision of installation
 - simple measuring before installation
 - uniform distance of outlet midpoints from the wall for types 20, 21, 22 and 33
- variability in connection to the heating system, leading to optimization of warehouse stock
 - modern bottom middle connection
 - possibility of side connection
- freedom and creativity on selection of connecting fittings
 - any connection fitting can be selected

Position of radiator

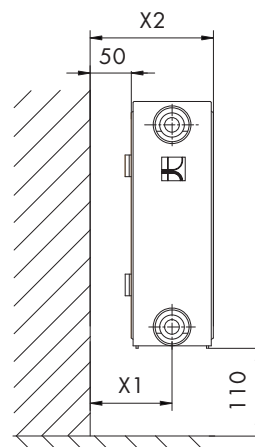


Table of sizes

Type	10 MM	11 MM	20 MM	21 MM	22 MM	33 MM
X1	32	75	83	83	83	83
X2	64	107	116	116	150	205

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



Description

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

It is suitable for installation and operation in rooms with high demands on hygiene and cleanliness. All types are without convector fins; they have a smooth front panel and the weld seams are covered with a special flat strip. The type 20S is typical for a greater spacing between the panels (radiator depth B = 102 mm) compared with the traditional design of type 20 (B = 66 mm). On the rear side, two upper and two lower hangers are welded. Radiators with the length of 1800 mm and longer have six welded hangers. The standard product equipment includes an air-vent and a blanking plug as well as the necessary number of drill-in brackets (type 18/120 – see KORAMONT catalogue) which enable to mount the radiator up to 65 mm from the wall.

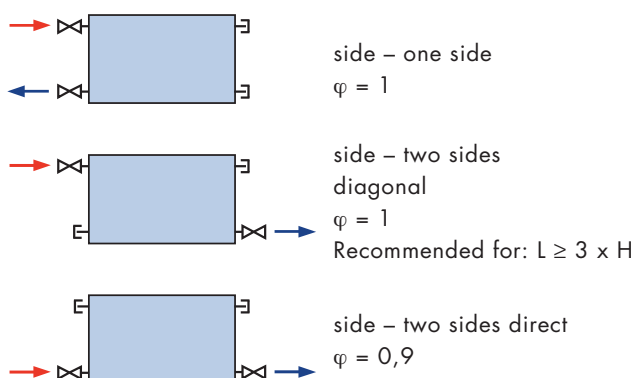
Warning:

If the requested distance between the radiator and the wall should be 65 ÷ 80 mm, the same type of brackets can be used on condition that the bottom hangers will be fixed with brackets (not with supporting pieces only). In such a case, the additional brackets must be ordered because they are not included in the standard package.

Technical Data

Height H	303, 503, 603, 903 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	1,0 MPa
Highest allowed working temperature	110 °C
Radiator connection	left or right bottom

Example of connection to the heating system



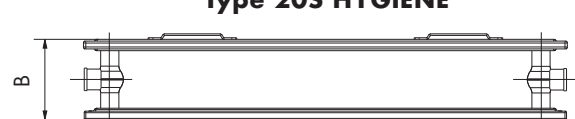
Overview of types



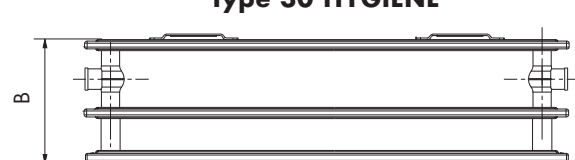
Type 10 HYGIENE



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 as well as the necessary number of drill-in brackets (type 18/120 – see KORAMONT catalogue) which enable to mount the radiator up to 65 mm from the wall.

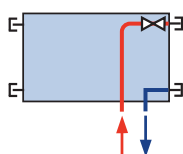
Warning:

If the requested distance between the radiator and the wall should be 65 ÷ 80 mm, the same type of brackets can be used on condition that the bottom hangers will be fixed with brackets (not with supporting pieces only). In such a case, the additional brackets must be ordered because they are not included in the standard package.

Technical Data

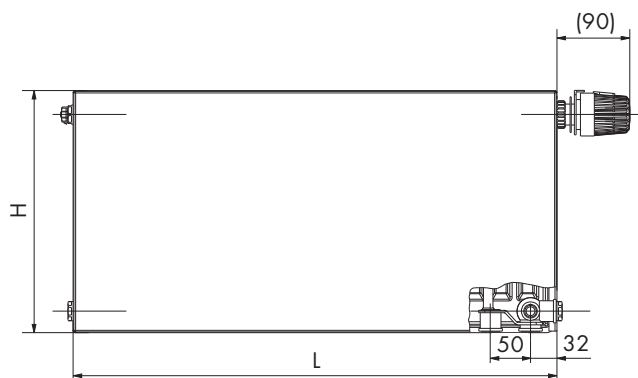
Height H	303, 503, 603, 903 mm
Length L	404, 504, 604, 704, 804, 904, 1004, 1104, 1204, 1404, 1604, 1804, 2004 mm
Depth B	
Type 10 HYGIENE VK	49 mm
Type 20S HYGIENE VK	102 mm
Type 30 HYGIENE VK	157 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	1,0 MPa
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Example of connection to the heating system



right bottom
 $\varphi = 1$

Overview of types



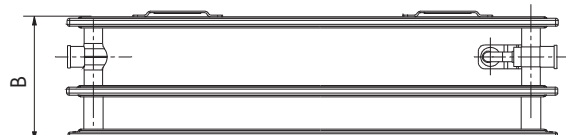
Type 10 HYGIENE VK



Type 20S HYGIENE VK



Type 30 HYGIENE VK





RADIK® CLEAN



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 distribution mains. It is designed for pressurised heating systems or those with gravity circulation. It has been modified for installation and operation in rooms with greater demands on hygiene and cleanliness. All types are supplied without additional surfaces, 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 and the required number of type 18/120 drill-in brackets (see KORAMONT catalogue), which allow for fixing of the radiator in a standard manner at a distance of up to 65 from the wall.

Important notice:

If there is a requirement for the distance of the radiator from the wall within the range $65 \div 80$ mm, the same type of brackets can be used, but a condition is use of brackets on the lower row of fixing lugs too (not supports). In this case, these further brackets must be ordered, as they are not included in the basic equipment.

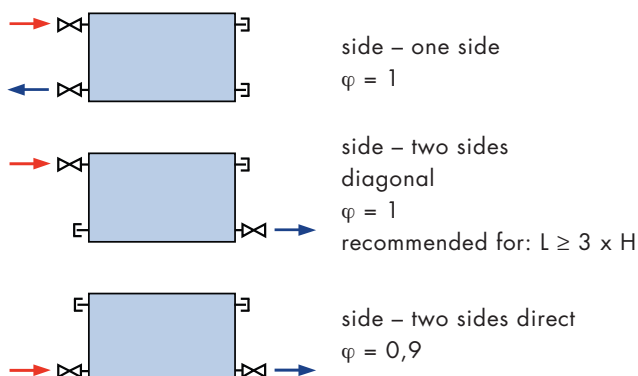
Note:

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

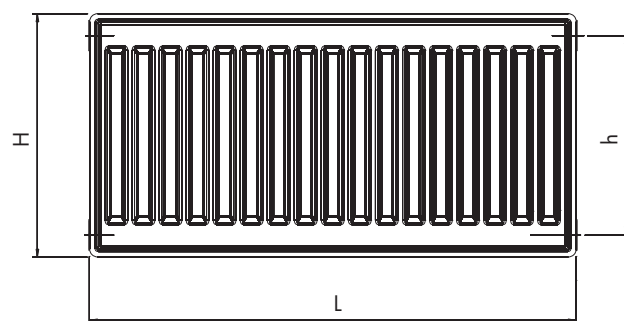
Technical Data

Height H	300, 400, 500, 600, 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 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

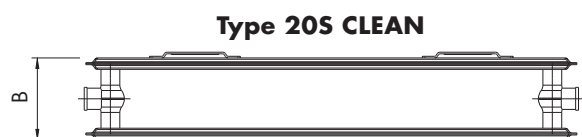
Example of connection to the heating system



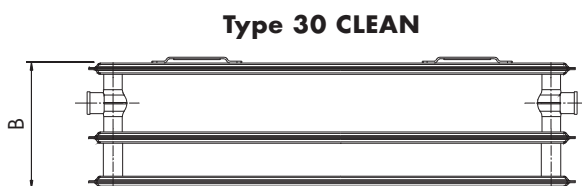
Overview of types



Type 10 CLEAN



Type 20S CLEAN



Type 30 CLEAN



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 distribution mains. It is designed for pressurised heating systems.

It has been modified for installation and operation in rooms with greater demands on hygiene and cleanliness. All types are supplied without additional surfaces, 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 and the required number of type 18/120 drill-in brackets (see KORAMONT catalogue), which allow for fixing of the radiator in a standard manner at a distance of up to 65 from the wall.

Important notice:

If there is a requirement for the distance of the radiator from the wall within the range $65 \div 80$ mm, the same type of brackets can be used, but a condition is use of brackets on the lower row of fixing lugs too (not supports). In this case, these further brackets must be ordered, as they are not included in the basic equipment.

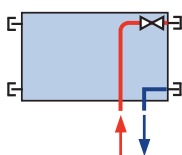
Note:

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

Technical Data

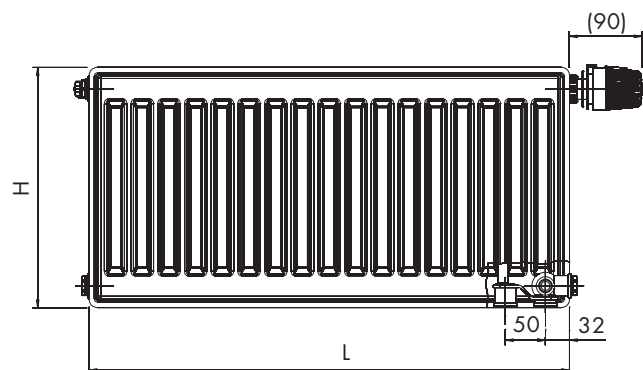
Height H	300, 400, 500, 600, 900 mm
Length L	400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1400, 1600, 1800, 2000, 2300, 2600, 3000 mm
Depth B	
Type 10 CLEAN VK	47 mm
Type 20S CLEAN VK	100 mm
Type 30 CLEAN VK	155 mm
Connecting pitch	50 mm
Connecting thread	6 x G1/2 inside
Highest allowed working pressure	10 bar
Highest allowed working temperature	110 °C
Radiator connection	right bottom

Example of connection to the heating system



right bottom
 $\varphi = 1$

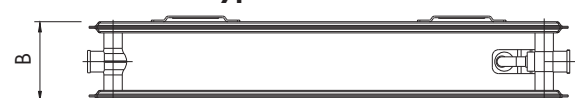
Overview of types



Type 10 CLEAN VK



Type 20S CLEAN VK



Type 30 CLEAN VK





RADIK® 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
85	50	0,83	0,87	0,93	1,01	1,07	1,14	1,21
	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
80	55	0,81	0,85	0,91	0,98	1,04	1,10	1,16
	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
75	50	0,91	0,96	1,04	1,13	1,20	1,28	1,37
	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
70	50	0,96	1,01	1,10	1,20	1,28	1,37	1,47
	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
65	45	1,10	1,16	1,28	1,42	1,52	1,64	1,79
	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
60	40	1,28	1,37	1,52	1,71	1,87	2,05	2,27
	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
55	40	1,37	1,47	1,64	1,86	2,03	2,24	2,50
	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
50	35	1,64	1,78	2,03	2,36	2,64	2,99	3,43
	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
45	30	2,03	2,24	2,64	3,20	3,70	4,39	5,39
	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 output 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:

Problem:

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
temperature of return water
relative temperature of air

$$t_1 = 60 \text{ °C}$$

$$t_2 = 50 \text{ °C}$$

$$t_i = 22 \text{ °C}$$

- heat loss of the room

$$Q_c = 810 \text{ W}$$

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 48, 49) 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



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

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 10 Type 10 VK Type 10 VKL					Type 11 Type 11 VK Type 11 VKL					Type 20 Type 20 VK Type 20 VKL Type 20 VKU				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	187	239	290	339	493	310	400	484	565	788	312	393	472	550	798
	75/65	150	192	233	273	396	249	321	389	454	632	251	316	379	443	636
	70/55	123	158	192	226	327	205	265	321	375	521	207	261	314	366	522
500	55/45	82	106	129	152	219	137	177	215	251	348	139	176	211	246	345
	90/70	234	299	362	424	617	388	500	605	707	986	389	491	589	688	997
	75/65	187	240	291	342	496	311	401	486	568	790	313	395	474	554	795
600	70/55	154	198	240	283	409	257	331	401	468	651	259	326	392	457	652
	55/45	103	132	161	190	274	172	222	269	314	435	174	220	263	307	431
	90/70	281	359	435	509	740	465	600	726	848	1183	467	589	707	826	1197
700	75/65	225	288	349	410	595	373	481	583	681	949	376	474	569	664	954
	70/55	185	237	288	339	491	308	397	481	562	782	311	392	470	549	782
	55/45	123	159	194	228	329	206	266	322	377	522	209	263	316	369	517
800	90/70	328	419	507	594	863	543	700	847	989	1380	545	687	825	963	1396
	75/65	262	336	408	478	694	436	562	681	795	1107	439	553	664	775	1113
	70/55	216	277	336	396	573	359	463	562	656	912	363	457	549	640	913
900	55/45	144	185	226	266	384	240	310	376	439	609	244	307	369	430	604
	90/70	374	478	579	679	987	620	800	969	1131	1577	623	785	943	1101	1596
	75/65	300	384	466	547	793	498	642	778	908	1265	502	632	759	886	1273
1000	70/55	247	316	385	452	655	411	529	642	749	1042	415	522	627	732	1043
	55/45	164	211	258	305	439	275	354	430	502	696	279	351	422	492	690
	90/70	421	538	652	763	1110	698	899	1090	1272	1774	701	883	1061	1238	1795
1100	75/65	337	432	524	615	892	560	722	875	1022	1423	564	711	854	996	1432
	70/55	277	356	433	509	736	462	596	722	843	1172	466	588	706	823	1174
	55/45	185	238	290	343	494	309	399	484	565	783	314	395	474	553	776
1200	90/70	468	598	724	848	1233	775	999	1211	1413	1971	779	982	1179	1376	1995
	75/65	375	480	582	683	991	622	802	972	1135	1581	627	790	949	1107	1591
	70/55	308	395	481	565	818	513	662	802	937	1303	518	653	784	915	1304
1300	55/45	205	264	323	381	549	343	443	537	628	870	349	439	527	615	862
	90/70	515	658	797	933	1357	853	1099	1332	1555	2168	857	1080	1297	1514	2194
	75/65	412	528	640	752	1090	685	883	1070	1249	1739	690	869	1043	1218	1750
1400	70/55	339	435	529	622	900	564	728	882	1031	1433	570	718	862	1006	1435
	55/45	226	291	355	419	604	378	487	591	691	957	383	483	580	676	949
	90/70	562	718	869	1018	1480	930	1199	1453	1696	2365	935	1178	1415	1651	2394
1500	75/65	450	576	699	820	1189	747	963	1167	1362	1897	752	948	1138	1329	1909
	70/55	370	474	577	678	982	616	794	963	1124	1563	622	784	941	1098	1565
	55/45	246	317	387	457	658	412	532	645	753	1044	418	527	632	738	1035
1600	90/70	655	837	1014	1187	1727	1085	1399	1695	1979	2760	1090	1374	1650	1926	2793
	75/65	525	672	815	957	1388	871	1123	1361	1589	2213	878	1106	1328	1550	2227
	70/55	431	553	673	791	1145	718	927	1123	1312	1824	726	914	1097	1281	1826
1700	55/45	287	370	452	533	768	481	620	752	879	1219	488	615	738	861	1207
	90/70	749	957	1159	1357	1973	1240	1599	1937	2261	3154	1246	1571	1886	2202	3192
	75/65	599	767	931	1093	1586	996	1284	1556	1817	2530	1003	1264	1518	1771	2545
1800	70/55	493	633	769	904	1309	821	1059	1283	1499	2084	829	1045	1254	1464	2087
	55/45	328	423	516	609	878	549	709	860	1005	1393	558	703	843	984	1380
	90/70	842	1076	1304	1527	2220	1396	1799	2179	2544	3548	1402	1767	2122	2477	3590
1900	75/65	674	863	1048	1230	1784	1120	1444	1750	2044	2846	1129	1422	1707	1993	2863
	70/55	555	712	865	1017	1473	924	1191	1444	1686	2345	933	1175	1411	1647	2347
	55/45	369	476	581	685	988	618	798	967	1130	1567	628	790	949	1107	1552
2000	90/70	936	1196	1448	1696	2467	1551	1999	2421	2826	3942	1558	1963	2358	2752	3989
	75/65	749	959	1164	1367	1982	1245	1605	1945	2271	3162	1254	1580	1897	2214	3181
	70/55	616	791	961	1130	1636	1026	1324	1604	1874	2605	1037	1306	1568	1830	2608
2100	55/45	410	528	645	761	1097	687	886	1075	1256	1741	697	878	1054	1230	1725
	90/70	1076	1375	1666	1951	2837	1783	2299	2784	3250	4534	1791	2258	2711	3165	4588
	75/65	862	1103	1339	1572	2280	1431	1846	2236	2611	3636	1442	1817	2182	2546	3659
2200	70/55	709	909	1106	1300	1882	1180	1522	1845	2155	2996	1192	1502	1803	2104	3000
	55/45	472	608	742	876	1262	790	1019	1236	1444	2002	802	1010	1212	1414	1983
	90/70	1217	1555	1883	2205	3207	2016	2599	3148	3674	5125	2025	2552	3065	3578	5186
2300	75/65	974	1247	1514	1777	2577	1618	2086	2528	2952	4111	1630	2054	2466	2879	4136
	70/55	801	1028	1250	1470	2127	1334	1721	2086	2436	3387	1348	1698	2038	2379	3391
	55/45	534	687	839	990	1427	893	1152	1397	1632	2263	906	1142	1370	1599	2242
2400	90/70	1404	1794	2173	2545	3700	2326	2998	3632	4240	5914	2337	2945	3536	4128	5984
	75/65	1124	1439	1747	2050	2974	1867	2407	2917	3406	4743	1881	2370	2846	3321	4772
	70/55	925	1186	1442	1696	2455	1540	1986	2406	2811	3908	1555	1959	2352	2745	3912
2500	55/45	616	793	968	1142	1646	1030	1329	1612	1883	2611	1046	1317	1581	1844	2587



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

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		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				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	421	530	633	731	1002	548	690	824	953	1321	775	981	1178	1369	1903
	75/65	338	425	507	585	799	439	552	660	763	1053	624	788	944	1094	1516
	70/55	278	350	417	481	654	361	454	542	627	863	516	650	777	898	1241
500	55/45	186	234	278	320	432	240	303	361	417	570	347	435	518	596	819
	90/70	527	663	791	913	1252	685	862	1030	1192	1651	969	1226	1473	1711	2379
	75/65	422	532	634	731	998	548	690	824	953	1316	780	985	1180	1367	1895
600	70/55	348	438	522	601	818	451	568	678	784	1079	645	812	971	1123	1552
	55/45	233	292	348	400	540	301	378	451	521	713	434	544	647	745	1023
	90/70	632	796	950	1096	1503	822	1035	1236	1430	1981	1163	1472	1767	2054	2855
700	75/65	507	638	761	877	1198	658	828	989	1144	1579	936	1182	1416	1641	2274
	70/55	418	525	626	722	982	541	681	814	941	1294	774	975	1165	1347	1862
	55/45	279	351	417	481	648	361	454	541	626	855	521	653	777	894	1228
800	90/70	737	928	1108	1279	1753	958	1207	1442	1668	2312	1357	1717	2062	2396	3331
	75/65	591	744	887	1024	1397	768	966	1154	1335	1843	1092	1379	1652	1914	2653
	70/55	487	613	730	842	1145	632	795	949	1097	1510	903	1137	1359	1572	2172
900	55/45	326	409	487	561	756	421	529	632	730	998	608	762	906	1043	1433
	90/70	843	1061	1266	1461	2004	1095	1380	1648	1907	2642	1551	1962	2357	2738	3807
	75/65	676	850	1014	1170	1597	877	1104	1319	1526	2106	1248	1576	1888	2188	3032
1000	70/55	557	700	835	962	1309	722	909	1085	1254	1726	1032	1300	1554	1797	2483
	55/45	372	467	556	641	865	481	605	722	834	1140	694	871	1036	1192	1638
	90/70	948	1193	1424	1644	2254	1232	1552	1854	2145	2972	1745	2207	2651	3080	4282
1100	75/65	760	957	1141	1316	1797	987	1242	1484	1716	2369	1405	1773	2124	2461	3411
	70/55	627	788	939	1083	1472	812	1022	1220	1411	1942	1161	1462	1748	2021	2793
	55/45	419	526	626	721	973	541	681	812	939	1283	781	979	1165	1341	1842
1200	90/70	1053	1326	1583	1827	2505	1369	1724	2060	2383	3302	1938	2453	2946	3423	4758
	75/65	845	1063	1268	1462	1996	1097	1381	1649	1907	2632	1561	1970	2360	2735	3790
	70/55	696	875	1043	1203	1636	902	1136	1356	1568	2157	1290	1625	1942	2246	3103
1300	55/45	465	584	696	801	1081	601	756	902	1043	1425	868	1088	1295	1490	2047
	90/70	1159	1459	1741	2009	2755	1506	1897	2266	2622	3633	2132	2698	3240	3765	5234
	75/65	929	1169	1394	1609	2196	1206	1519	1814	2098	2896	1717	2167	2596	3008	4168
1400	70/55	766	963	1148	1323	1800	993	1249	1492	1725	2373	1419	1787	2136	2470	3414
	55/45	512	643	765	881	1189	661	832	993	1147	1568	955	1197	1424	1639	2252
	90/70	1264	1591	1899	2192	3006	1643	2069	2472	2860	3963	2326	2943	3535	4107	5710
1500	75/65	1014	1276	1521	1755	2396	1316	1657	1979	2288	3159	1873	2364	2831	3282	4547
	70/55	835	1051	1252	1444	1963	1083	1363	1627	1881	2589	1548	1950	2330	2695	3724
	55/45	558	701	835	961	1297	721	908	1083	1251	1710	1042	1306	1553	1788	2456
1600	90/70	1475	1857	2216	2557	3506	1917	2414	2884	3337	4623	2714	3434	4124	4792	6661
	75/65	1183	1488	1775	2047	2795	1535	1933	2308	2670	3685	2185	2758	3303	3829	5305
	70/55	975	1226	1461	1684	2290	1263	1590	1898	2195	3020	1806	2275	2719	3144	4345
1700	55/45	651	818	974	1121	1513	842	1059	1263	1460	1995	1215	1523	1812	2086	2866
	90/70	1685	2122	2532	2923	4007	2191	2759	3296	3813	5284	3101	3924	4713	5476	7613
	75/65	1352	1701	2028	2340	3194	1754	2209	2638	3051	4212	2497	3151	3775	4375	6063
1800	70/55	1114	1401	1670	1925	2618	1444	1817	2170	2509	3452	2064	2600	3107	3593	4965
	55/45	744	935	1113	1282	1729	962	1210	1444	1669	2281	1389	1741	2071	2384	3275
	90/70	1896	2387	2849	3288	4508	2465	3104	3708	4290	5944	3489	4415	5302	6161	8565
1900	75/65	1521	1913	2282	2632	3593	1974	2485	2968	3432	4738	2809	3545	4247	4922	6821
	70/55	1253	1576	1878	2165	2945	1624	2044	2441	2822	3883	2322	2925	3496	4042	5586
	55/45	838	1052	1252	1442	1945	1082	1361	1624	1877	2566	1563	1959	2330	2682	3685
2000	90/70	2106	2652	3165	3653	5009	2739	3449	4120	4767	6605	3877	4905	5891	6845	9516
	75/65	1690	2126	2535	2925	3993	2193	2761	3298	3814	5265	3121	3939	4719	5469	7579
	70/55	1392	1751	2087	2406	3272	1805	2271	2712	3136	4315	2580	3250	3884	4492	6207
2100	55/45	931	1169	1391	1602	2161	1202	1513	1805	2086	2851	1736	2176	2589	2980	4094
	90/70	2422	3050	3640	4202	5761	3149	3966	4738	5482	7596	4458	5641	6775	7872	10944
	75/65	1943	2445	2916	3363	4592	2522	3175	3792	4386	6055	3589	4530	5427	6290	8716
2200	70/55	1601	2014	2400	2767	3763	2075	2612	3119	3606	4962	2967	3737	4467	5165	7138
	55/45	1070	1344	1600	1842	2486	1383	1739	2076	2398	3278	1997	2503	2977	3427	4708
	90/70	2738	3448	4115	4750	6512	3560	4484	5356	6197	8586	5040	6377	7659	8899	12371
2300	75/65	2197	2764	3296	3802	5190	2851	3589	4287	4958	6844	4057	5121	6135	7110	9853
	70/55	1810	2276	2713	3128	4254	2346	2953	3526	4076	5609	3355	4225	5049	5839	8069
	55/45	1210	1519	1809	2082	2810	1563	1966	2346	2711	3706	2257	2829	3366	3874	5322
2400	90/70	3160	3978	4748	5480	7514	4108	5173	6180	7150	9907	5815	7358	8837	10268	14275
	75/65	2535	3189	3803	4387	5989	3290	4142	4946	5721	7897	4682	5909	7079	8204	11369
	70/55	2089	2626	3130	3609	4908	2707	3407	4068	4704	6472	3871	4874	5826	6737	9310
2500	55/45	1396	1753	2087	2403	3242	1804	2269	2707	3128	4276	2604	3264	3884	4470	6141



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

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 Type 10 VK Type 10 VKL					Type 11 Type 11 VK Type 11 VKL					Type 20 Type 20 VK Type 20 VKL Type 20 VKU				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	168	215	261	306	444	279	360	436	509	709	281	354	425	496	716
	75/65	132	169	206	242	350	220	283	343	401	558	222	279	335	391	559
	70/55	106	137	166	196	283	177	229	277	324	450	179	226	271	317	449
500	55/45	67	86	105	125	179	112	145	176	205	284	114	144	173	201	280
	90/70	210	269	326	382	555	349	450	545	636	887	351	442	531	620	895
	75/65	165	212	257	302	438	275	354	429	501	697	277	349	419	489	699
600	70/55	133	171	208	245	354	222	286	347	405	562	224	283	339	396	561
	55/45	84	108	132	156	224	140	181	219	256	355	143	180	216	252	350
	90/70	252	323	391	459	666	419	540	654	763	1064	421	531	637	744	1074
700	75/65	198	254	308	362	525	329	425	515	601	836	332	419	503	587	839
	70/55	159	205	249	294	424	266	343	416	486	675	269	339	407	475	673
	55/45	100	129	158	187	269	168	217	263	308	426	171	216	259	302	420
800	90/70	294	377	457	535	777	488	630	763	891	1241	491	619	744	868	1253
	75/65	231	296	360	423	613	384	496	601	701	976	388	489	587	685	979
	70/55	186	239	291	343	495	310	400	485	567	787	314	396	475	554	785
900	55/45	117	151	185	218	314	196	253	307	359	497	200	252	302	352	490
	90/70	337	430	522	612	889	558	720	872	1018	1419	562	708	850	992	1432
	75/65	264	338	411	483	700	439	566	686	802	1115	443	558	670	782	1118
1000	70/55	213	273	333	392	566	355	457	555	648	900	359	452	543	633	897
	55/45	134	172	211	249	359	224	289	351	410	568	228	288	345	402	560
	90/70	379	484	587	688	1000	628	810	981	1145	1596	632	796	956	1116	1611
1100	75/65	297	381	463	544	788	494	637	772	902	1255	499	628	754	880	1258
	70/55	239	307	374	440	637	399	515	624	729	1012	404	509	611	712	1010
	55/45	150	194	237	281	404	252	326	395	462	639	257	323	388	453	630
1200	90/70	421	538	652	765	1111	698	900	1090	1272	1773	702	885	1062	1240	1790
	75/65	330	423	514	604	875	549	708	858	1002	1394	554	698	838	978	1398
	70/55	266	341	416	489	707	443	572	693	810	1125	449	565	678	792	1122
1300	55/45	167	216	264	312	449	280	362	439	513	710	285	359	431	503	700
	90/70	463	592	718	841	1222	768	990	1199	1400	1951	772	973	1168	1364	1969
	75/65	363	465	565	664	963	604	779	944	1102	1533	609	768	922	1076	1538
1400	70/55	292	376	457	538	778	488	629	763	891	1237	493	622	746	871	1234
	55/45	184	237	290	343	493	308	398	483	564	781	314	395	474	553	770
	90/70	505	646	783	918	1333	837	1080	1308	1527	2128	842	1062	1275	1488	2148
1500	75/65	396	508	617	725	1050	659	850	1030	1202	1673	665	838	1006	1174	1678
	70/55	319	410	499	587	849	532	686	832	972	1350	538	678	814	950	1346
	55/45	201	259	316	374	538	336	434	527	616	852	342	431	518	604	840
1600	90/70	589	753	913	1071	1555	977	1260	1526	1781	2483	983	1238	1487	1736	2506
	75/65	462	592	720	846	1225	769	991	1201	1403	1952	776	977	1173	1369	1957
	70/55	372	478	582	685	990	621	801	970	1134	1575	628	791	950	1108	1570
1700	55/45	234	302	369	437	628	392	507	614	718	994	400	503	604	704	980
	90/70	673	861	1044	1224	1777	1117	1439	1744	2036	2838	1123	1415	1700	1984	2864
	75/65	528	677	822	966	1400	878	1133	1373	1603	2230	886	1117	1341	1565	2237
1800	70/55	425	546	665	783	1132	709	915	1109	1296	1800	718	904	1085	1266	1795
	55/45	267	345	422	499	718	449	579	702	821	1136	457	575	690	805	1120
	90/70	757	968	1174	1377	1999	1256	1619	1962	2290	3192	1264	1592	1912	2232	3221
1900	75/65	594	761	925	1087	1575	988	1274	1544	1804	2509	997	1256	1508	1760	2516
	70/55	478	614	748	881	1273	798	1029	1248	1458	2025	807	1017	1221	1425	2019
	55/45	301	388	475	561	807	505	651	790	923	1278	514	647	776	906	1260
2000	90/70	841	1076	1305	1529	2221	1396	1799	2180	2545	3547	1404	1769	2124	2480	3579
	75/65	660	846	1028	1208	1750	1098	1416	1716	2004	2788	1108	1396	1676	1956	2796
	70/55	532	683	831	979	1415	887	1144	1386	1620	2249	897	1130	1357	1583	2243
2100	55/45	334	431	527	624	897	561	724	878	1026	1420	571	719	863	1006	1400
	90/70	968	1237	1500	1759	2555	1605	2069	2507	2927	4079	1615	2035	2443	2852	4116
	75/65	759	973	1182	1389	2013	1263	1628	1973	2305	3206	1274	1605	1927	2249	3215
2200	70/55	611	785	956	1126	1627	1020	1315	1594	1862	2587	1032	1300	1560	1821	2580
	55/45	384	496	606	717	1032	645	832	1009	1180	1633	656	827	992	1157	1609
2300	90/70	1094	1399	1696	1988	2888	1814	2339	2834	3308	4611	1825	2300	2762	3224	4653
	75/65	858	1100	1336	1570	2275	1427	1841	2231	2605	3624	1440	1815	2179	2543	3635
	70/55	691	888	1081	1273	1839	1153	1487	1802	2105	2924	1166	1469	1764	2058	2916
2400	55/45	435	561	686	811	1166	729	941	1141	1334	1846	742	934	1121	1308	1819
	90/70	1262	1614	1957	2294	3332	2093	2699	3270	3817	5320	2106	2654	3187	3720	5369
	75/65	990	1269	1542	1812	2625	1647	2124	2574	3006	4182	1662	2094	2514	2934	4194
2500	70/55	797	1024	1247	1468	2122	1330	1716	2080	2429	3374	1346	1695	2035	2375	3365
	55/45	501	647	791	935	1346	841	1086	1317	1539	2130	856	1078	1294	1509	2099



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

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		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				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	379	477	569	657	899	492	620	741	857	1185	699	883	1059	1229	1707
	75/65	298	375	447	515	702	386	486	581	672	925	552	695	832	962	1331
	70/55	240	302	360	415	563	311	392	468	541	742	447	562	670	774	1067
500	55/45	152	191	227	261	351	196	246	294	340	462	284	356	422	485	664
	90/70	474	596	711	821	1123	616	775	926	1071	1481	874	1104	1324	1537	2133
	75/65	373	469	559	644	877	483	608	726	840	1157	690	869	1040	1203	1664
600	70/55	301	378	450	519	703	389	490	585	676	928	558	702	838	967	1333
	55/45	190	238	283	326	438	245	308	367	424	578	355	444	527	606	830
	90/70	569	716	854	985	1348	739	930	1111	1285	1777	1048	1325	1589	1844	2560
700	75/65	447	562	670	773	1052	580	730	871	1007	1388	827	1043	1247	1444	1997
	70/55	361	453	540	622	844	467	588	701	811	1113	670	842	1005	1160	1600
	55/45	228	286	340	391	526	294	370	441	509	694	426	533	633	727	996
800	90/70	663	835	996	1149	1573	862	1085	1296	1499	2074	1223	1546	1854	2152	2987
	75/65	522	656	782	902	1228	676	851	1016	1175	1619	965	1217	1455	1684	2330
	70/55	421	529	630	726	985	545	686	818	946	1299	782	983	1173	1354	1867
900	55/45	266	334	397	457	614	343	431	514	594	809	497	622	738	848	1161
	90/70	758	954	1138	1314	1797	985	1240	1481	1713	2370	1398	1766	2119	2459	3413
	75/65	596	750	894	1030	1403	773	973	1162	1343	1850	1103	1390	1663	1925	2662
1000	70/55	481	604	720	830	1125	623	783	935	1081	1484	893	1123	1340	1547	2134
	55/45	304	381	453	522	701	392	493	588	679	925	569	711	844	969	1327
	90/70	853	1074	1281	1478	2022	1108	1395	1666	1928	2666	1572	1987	2384	2766	3840
1100	75/65	671	843	1005	1159	1579	869	1094	1307	1511	2082	1241	1564	1871	2165	2995
	70/55	541	680	810	934	1266	700	881	1052	1216	1670	1005	1264	1508	1741	2400
	55/45	342	429	510	587	789	441	554	661	764	1041	640	800	949	1090	1493
1200	90/70	948	1193	1423	1642	2247	1231	1550	1852	2142	2962	1747	2208	2649	3074	4267
	75/65	745	937	1117	1288	1754	966	1216	1452	1679	2313	1379	1738	2079	2406	3328
	70/55	601	756	900	1037	1407	778	979	1169	1351	1855	1117	1404	1675	1934	2667
1300	55/45	380	476	567	652	877	490	616	735	849	1156	711	889	1055	1211	1659
	90/70	1042	1312	1565	1806	2471	1354	1705	2037	2356	3259	1922	2429	2914	3381	4693
	75/65	820	1031	1229	1417	1929	1063	1338	1597	1847	2544	1517	1912	2287	2647	3661
1400	70/55	661	831	990	1141	1547	856	1077	1286	1487	2041	1228	1544	1843	2128	2934
	55/45	418	524	624	718	964	539	678	808	934	1272	782	978	1160	1332	1825
	90/70	1137	1431	1708	1970	2696	1477	1860	2222	2570	3555	2097	2650	3178	3688	5120
1500	75/65	894	1124	1340	1546	2105	1159	1459	1742	2015	2776	1655	2086	2495	2887	3994
	70/55	721	907	1080	1245	1688	934	1175	1403	1622	2226	1340	1685	2010	2321	3200
	55/45	456	572	680	783	1052	588	739	882	1019	1387	853	1067	1266	1454	1991
1600	90/70	1327	1670	1992	2299	3145	1723	2170	2592	2999	4147	2446	3091	3708	4303	5973
	75/65	1043	1312	1564	1803	2456	1352	1702	2033	2351	3238	1931	2433	2911	3368	4659
	70/55	842	1058	1260	1452	1969	1090	1371	1637	1892	2597	1564	1966	2346	2708	3734
1700	55/45	532	667	794	913	1227	686	862	1029	1188	1619	995	1244	1477	1696	2323
	90/70	1516	1908	2277	2627	3595	1970	2480	2963	3427	4740	2795	3533	4238	4918	6826
	75/65	1192	1499	1787	2061	2806	1546	1946	2323	2686	3701	2206	2781	3326	3850	5325
1800	70/55	962	1209	1440	1660	2251	1245	1567	1871	2162	2968	1787	2246	2681	3095	4267
	55/45	607	762	907	1044	1403	784	985	1176	1358	1850	1137	1422	1688	1938	2655
	90/70	1706	2147	2561	2956	4044	2216	2790	3333	3855	5332	3145	3974	4768	5533	7680
1900	75/65	1341	1687	2011	2318	3157	1739	2189	2614	3022	4163	2482	3128	3742	4331	5990
	70/55	1082	1360	1620	1867	2532	1401	1763	2104	2433	3339	2010	2527	3016	3481	4800
	55/45	683	858	1020	1174	1578	882	1109	1323	1528	2081	1279	1600	1899	2180	2987
2000	90/70	1895	2386	2846	3284	4493	2462	3100	3703	4284	5925	3494	4416	5297	6147	8533
	75/65	1490	1874	2234	2576	3508	1932	2432	2904	3358	4626	2758	3476	4158	4812	6656
	70/55	1202	1511	1800	2075	2813	1557	1959	2338	2703	3710	2234	2808	3351	3868	5334
2100	55/45	759	953	1134	1305	1753	980	1232	1470	1698	2312	1421	1778	2110	2423	3318
	90/70	2180	2743	3273	3777	5167	2831	3565	4259	4926	6814	4018	5078	6092	7070	9813
	75/65	1714	2155	2569	2962	4034	2222	2797	3340	3862	5320	3172	3997	4782	5534	7654
2200	70/55	1383	1738	2070	2386	3235	1790	2253	2689	3108	4267	2569	3229	3853	4448	6134
	55/45	873	1096	1304	1500	2016	1126	1417	1690	1952	2659	1635	2044	2426	2786	3816
2300	90/70	2464	3101	3700	4269	5841	3201	4030	4814	5569	7702	4542	5741	6886	7992	11093
	75/65	1937	2436	2904	3349	4560	2512	3162	3775	4365	6014	3585	4519	5405	6256	8653
	70/55	1563	1965	2341	2697	3657	2023	2546	3040	3514	4823	2904	3651	4356	5029	6934
2400	55/45	987	1239	1474	1696	2279	1273	1601	1910	2207	3006	1848	2311	2743	3149	4314
	90/70	2843	3578	4269	4926	6740	3693	4650	5555	6425	8887	5241	6624	7946	9221	12800
	75/65	2235	2811	3351	3864	5262	2898	3648	4356	5037	6939	4137	5214	6237	7218	9984
2500	70/55	1804	2267	2701	3112	4220	2335	2938	3507	4054	5565	3350	4212	5026	5802	8001
	55/45	1139	1429	1701	1957	2630	1469	1848	2204	2546	3469	2132	2666	3165	3634	4978



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HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		Type 10 Type 10 VK Type 10 VKL					Type 11 Type 11 VK Type 11 VKL					Type 20 Type 20 VK Type 20 VKL Type 20 VKU				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	161	206	250	293	425	267	344	417	487	678	269	339	407	475	684
	75/65	125	160	195	229	332	208	268	325	380	528	210	265	318	371	529
	70/55	100	128	156	184	266	166	215	260	304	422	169	212	255	297	420
	55/45	61	79	96	114	164	102	132	160	187	259	104	131	158	184	255
500	90/70	201	257	312	366	531	334	430	521	609	848	336	423	508	593	855
	75/65	156	200	244	286	415	260	336	407	475	660	263	331	397	464	661
	70/55	125	160	195	230	332	208	268	325	380	528	211	265	319	372	525
	55/45	76	98	120	143	205	128	165	200	234	324	130	164	197	230	319
600	90/70	241	309	374	439	638	400	516	625	730	1018	403	508	610	712	1026
	75/65	188	240	292	344	498	312	403	488	570	793	315	397	477	556	794
	70/55	150	192	234	276	399	250	322	390	456	633	253	318	382	446	630
	55/45	91	118	145	171	246	154	198	241	281	389	157	197	237	276	382
700	90/70	281	360	437	512	744	467	602	730	852	1187	470	593	711	830	1197
	75/65	219	281	341	401	581	364	470	569	665	925	368	463	556	649	926
	70/55	174	224	273	322	465	291	376	456	532	739	295	372	446	520	736
	55/45	107	138	169	200	287	179	231	281	328	454	183	230	276	322	446
800	90/70	322	412	499	586	850	534	688	834	974	1357	537	677	813	949	1367
	75/65	250	321	390	458	664	416	537	651	760	1057	420	530	636	742	1058
	70/55	199	256	312	368	531	333	429	521	608	844	337	425	510	595	841
	55/45	122	157	193	228	328	205	264	321	375	519	209	263	315	368	510
900	90/70	362	463	562	659	956	601	774	938	1095	1526	605	762	915	1068	1538
	75/65	281	361	439	516	747	468	604	732	855	1189	473	596	715	835	1191
	70/55	224	288	351	414	598	374	483	586	684	950	379	478	573	669	946
	55/45	137	177	217	257	369	230	297	361	422	583	235	296	355	414	574
1000	90/70	402	514	624	732	1063	667	860	1042	1217	1696	672	846	1016	1186	1709
	75/65	313	401	487	573	829	520	671	813	950	1321	525	662	795	927	1323
	70/55	249	320	390	460	664	416	537	651	760	1055	421	531	637	743	1051
	55/45	152	197	241	285	410	256	330	401	469	648	261	329	394	460	637
1100	90/70	442	566	686	805	1169	734	947	1147	1339	1865	739	931	1118	1305	1880
	75/65	344	441	536	630	912	572	738	895	1045	1453	578	728	874	1020	1455
	70/55	274	352	429	506	731	458	590	716	836	1161	464	584	701	818	1156
	55/45	168	217	265	314	451	282	364	441	515	713	287	361	434	506	701
1200	90/70	483	617	749	878	1275	801	1033	1251	1461	2035	806	1016	1220	1424	2051
	75/65	375	481	585	688	995	624	805	976	1140	1585	630	794	954	1113	1587
	70/55	299	384	468	552	797	499	644	781	912	1266	506	637	765	892	1261
	55/45	183	236	289	342	492	307	397	481	562	778	313	394	473	552	765
1400	90/70	563	720	874	1025	1488	934	1205	1459	1704	2374	940	1185	1423	1661	2393
	75/65	438	561	682	802	1161	728	939	1139	1330	1849	736	927	1113	1298	1852
	70/55	349	448	546	644	930	583	751	911	1064	1478	590	743	892	1041	1471
	55/45	213	276	337	399	574	358	463	561	656	908	365	460	552	644	892
1600	90/70	643	823	998	1171	1700	1068	1377	1668	1947	2713	1075	1354	1626	1898	2735
	75/65	500	641	780	917	1327	832	1074	1301	1520	2113	841	1059	1271	1484	2116
	70/55	399	513	624	736	1063	666	859	1041	1216	1689	674	849	1019	1189	1681
	55/45	244	315	385	456	656	410	529	641	750	1037	417	526	631	736	1020
1800	90/70	724	926	1123	1317	1913	1201	1549	1876	2191	3053	1209	1524	1830	2135	3077
	75/65	563	721	877	1031	1493	937	1208	1464	1710	2378	946	1191	1430	1669	2381
	70/55	449	577	702	828	1196	749	966	1171	1368	1900	758	955	1147	1338	1891
	55/45	274	354	434	513	738	461	595	722	844	1167	470	591	710	828	1147
2000	90/70	804	1029	1248	1464	2125	1335	1721	2085	2434	3392	1344	1693	2033	2373	3419
	75/65	625	802	975	1146	1659	1041	1342	1626	1900	2642	1051	1324	1589	1855	2646
	70/55	498	641	781	920	1328	832	1074	1301	1520	2111	843	1062	1274	1487	2102
	55/45	305	394	482	570	820	512	661	802	937	1296	522	657	788	920	1275
2300	90/70	925	1183	1435	1683	2444	1535	1979	2398	2800	3900	1545	1947	2338	2729	3932
	75/65	719	922	1121	1318	1908	1197	1543	1870	2185	3038	1208	1522	1828	2133	3042
	70/55	573	737	898	1058	1528	957	1235	1497	1748	2427	969	1221	1465	1710	2417
	55/45	351	453	554	656	943	589	760	922	1078	1491	600	756	907	1058	1466
2600	90/70	1046	1338	1622	1903	2763	1735	2237	2710	3165	4409	1747	2201	2643	3085	4444
	75/65	813	1042	1267	1490	2157	1353	1745	2114	2469	3434	1366	1721	2066	2411	3439
	70/55	648	833	1015	1196	1727	1082	1396	1692	1976	2744	1096	1380	1657	1933	2732
	55/45	396	512	626	742	1065	666	859	1042	1218	1685	678	854	1025	1196	1657
3000	90/70	1206	1543	1872	2196	3188	2002	2581	3127	3652	5088	2015	2539	3049	3559	5128
	75/65	938	1202	1462	1719	2488	1561	2013	2440	2849	3963	1576	1986	2384	2782	3968
	70/55	748	961	1171	1379	1993	1248	1610	1952	2281	3166	1264	1592	1911	2230	3152
	55/45	457	591	723	856	1229	768	991	1203	1406	1945	783	986	1183	1380	1912



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

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		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				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	362	456	544	628	858	471	593	708	819	1132	669	845	1013	1175	1630
	75/65	282	355	423	488	664	366	461	550	636	875	523	659	788	911	1259
	70/55	226	284	338	389	527	292	367	439	507	695	420	527	629	725	999
500	55/45	139	174	207	238	319	179	225	268	310	421	260	325	385	442	604
	90/70	453	570	680	785	1073	588	741	885	1024	1415	836	1056	1266	1468	2037
	75/65	353	444	529	610	830	457	576	688	795	1094	654	824	985	1139	1574
600	70/55	282	354	422	486	659	365	459	548	634	869	525	659	786	906	1249
	55/45	173	217	259	298	399	223	281	335	387	526	325	406	481	552	755
	90/70	544	684	816	942	1287	706	889	1062	1228	1698	1003	1267	1519	1762	2444
700	75/65	424	533	635	732	996	549	691	825	954	1313	785	988	1182	1367	1889
	70/55	338	425	507	584	791	438	551	658	760	1043	629	791	943	1088	1498
	55/45	208	261	310	357	479	268	337	402	464	632	390	487	577	662	906
800	90/70	634	798	952	1099	1502	824	1037	1239	1433	1980	1170	1478	1772	2056	2852
	75/65	494	621	741	854	1162	640	806	963	1113	1532	915	1153	1378	1594	2204
	70/55	395	496	591	681	922	511	643	767	887	1216	734	923	1100	1269	1748
900	55/45	243	304	362	417	559	313	393	469	542	737	455	568	674	773	1057
	90/70	725	912	1088	1256	1716	941	1185	1416	1638	2263	1338	1690	2026	2350	3259
	75/65	565	710	846	976	1328	732	921	1100	1272	1751	1046	1318	1575	1822	2518
1000	70/55	451	567	676	778	1054	584	735	877	1014	1390	839	1054	1257	1450	1998
	55/45	277	348	414	476	639	357	449	536	619	842	520	649	770	883	1208
	90/70	816	1026	1224	1413	1931	1059	1334	1593	1842	2546	1505	1901	2279	2643	3667
1100	75/65	635	799	952	1098	1493	823	1036	1238	1431	1969	1177	1483	1772	2050	2833
	70/55	508	638	760	876	1186	657	827	987	1140	1564	944	1186	1414	1632	2248
	55/45	312	391	466	536	718	402	506	603	697	948	585	731	866	994	1359
1200	90/70	906	1140	1360	1570	2146	1177	1482	1770	2047	2829	1672	2112	2532	2937	4074
	75/65	706	888	1058	1220	1659	915	1152	1375	1590	2188	1308	1647	1969	2278	3148
	70/55	564	709	844	973	1318	730	918	1096	1267	1738	1049	1318	1571	1813	2497
1300	55/45	347	435	517	595	798	447	562	670	774	1053	650	812	962	1104	1510
	90/70	997	1254	1496	1726	2360	1294	1630	1947	2252	3112	1839	2323	2785	3231	4481
	75/65	777	976	1164	1342	1825	1006	1267	1513	1749	2407	1439	1812	2166	2505	3463
1400	70/55	621	780	929	1070	1449	803	1010	1206	1394	1911	1154	1450	1729	1994	2747
	55/45	381	478	569	655	878	492	618	737	852	1158	715	893	1059	1215	1661
	90/70	1087	1369	1632	1883	2575	1412	1778	2124	2456	3395	2006	2534	3038	3524	4889
1500	75/65	847	1065	1270	1464	1991	1098	1382	1650	1908	2626	1569	1977	2363	2733	3778
	70/55	677	851	1013	1167	1581	876	1102	1316	1521	2085	1259	1582	1886	2175	2997
	55/45	416	522	621	714	958	536	674	804	929	1263	780	974	1155	1325	1812
1600	90/70	1269	1597	1904	2197	3004	1647	2074	2478	2866	3961	2341	2957	3545	4112	5704
	75/65	988	1243	1481	1708	2323	1281	1612	1925	2226	3064	1831	2306	2757	3189	4407
	70/55	790	992	1182	1362	1845	1022	1286	1535	1774	2433	1469	1845	2200	2538	3496
1700	55/45	485	609	724	833	1117	626	787	938	1084	1474	910	1137	1347	1546	2114
	90/70	1450	1825	2177	2511	3433	1883	2371	2832	3275	4527	2675	3379	4051	4699	6518
	75/65	1129	1420	1693	1952	2655	1464	1843	2200	2544	3501	2093	2636	3151	3644	5037
1800	70/55	903	1134	1351	1556	2108	1168	1470	1754	2028	2780	1679	2109	2514	2901	3996
	55/45	555	696	828	952	1277	715	899	1072	1239	1685	1040	1299	1540	1767	2416
	90/70	1631	2053	2449	2825	3862	2118	2667	3186	3685	5093	3009	3801	4558	5286	7333
1900	75/65	1271	1598	1905	2196	2987	1647	2073	2475	2862	3939	2354	2965	3545	4100	5666
	70/55	1015	1276	1520	1751	2372	1314	1653	1973	2281	3128	1888	2372	2829	3263	4495
	55/45	624	783	931	1071	1437	804	1011	1206	1393	1895	1170	1461	1732	1987	2719
2000	90/70	1812	2281	2721	3139	4291	2354	2963	3540	4094	5658	3344	4224	5064	5874	8148
	75/65	1412	1775	2116	2440	3319	1830	2303	2750	3180	4377	2616	3295	3939	4555	6296
	70/55	1128	1418	1689	1946	2635	1460	1837	2193	2534	3475	2098	2636	3143	3626	4995
2100	55/45	693	870	1034	1190	1596	894	1124	1340	1548	2106	1300	1624	1925	2208	3021
	90/70	2084	2623	3129	3610	4935	2707	3408	4070	4708	6507	3845	4857	5824	6755	9370
	75/65	1624	2042	2434	2806	3817	2104	2649	3163	3657	5033	3008	3789	4529	5238	7240
2200	70/55	1298	1630	1942	2237	3030	1679	2113	2522	2915	3997	2413	3031	3614	4169	5744
	55/45	797	1000	1190	1369	1836	1028	1292	1541	1780	2422	1495	1867	2214	2539	3474
	90/70	2356	2965	3537	4081	5579	3060	3852	4601	5322	7356	4347	5491	6583	7636	10592
2300	75/65	1835	2308	2751	3172	4315	2379	2994	3575	4134	5690	3400	4283	5120	5922	8185
	70/55	1467	1843	2195	2529	3426	1898	2388	2850	3295	4518	2728	3427	4086	4713	6493
	55/45	901	1131	1345	1547	2075	1162	1461	1743	2013	2737	1690	2111	2502	2871	3927
2400	90/70	2719	3421	4081	4709	6437	3530	4445	5309	6141	8488	5016	6336	7596	8811	12222
	75/65	2118	2663	3174	3660	4978	2745	3455	4125	4770	6565	3924	4942	5908	6833	9444
	70/55	1692	2127	2533	2918	3953	2190	2755	3289	3802	5213	3147	3954	4714	5438	7492
2500	55/45	1040	1305	1552	1785	2395	1340	1686	2011	2322	3159	1949	2435	2887	3312	4531



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 10 VKM					Type 11 VKM					Type 20 VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	211	268	322	376	523	297	382	467	553	812	352	441	527	610	855
	75/65	170	216	259	302	419	240	309	376	444	650	284	355	423	490	683
	70/55	140	178	214	249	344	200	256	311	366	535	235	293	349	404	561
500	55/45	95	120	143	166	229	136	173	209	245	357	158	197	234	270	372
	90/70	263	335	403	469	654	371	477	584	691	1015	440	552	658	763	1069
	75/65	212	269	324	377	523	300	386	470	555	813	355	444	529	612	854
600	70/55	175	223	267	311	431	250	320	389	458	669	293	367	437	505	701
	55/45	118	150	179	208	287	170	217	262	306	446	197	246	293	338	465
	90/70	316	402	484	563	785	445	573	701	829	1218	529	662	790	915	1283
700	75/65	255	323	389	452	628	361	463	564	666	975	426	533	635	735	1025
	70/55	211	267	321	373	517	300	384	467	549	803	352	440	524	606	841
	55/45	142	180	215	250	344	204	260	314	367	535	237	296	351	405	558
800	90/70	369	469	564	657	916	519	668	817	968	1421	617	772	922	1068	1497
	75/65	297	377	454	528	733	421	540	658	777	1138	497	621	741	857	1195
	70/55	246	312	374	435	603	350	448	544	641	936	411	513	611	707	981
900	55/45	165	209	251	291	401	238	303	366	429	624	276	345	410	473	651
	90/70	421	536	645	751	1046	593	764	934	1106	1624	705	883	1053	1220	1710
	75/65	339	431	518	603	838	481	617	752	888	1300	568	710	847	979	1366
1000	70/55	281	356	428	497	689	400	512	622	732	1070	469	587	699	808	1121
	55/45	189	239	287	333	458	272	346	419	490	713	316	394	468	540	744
	90/70	474	603	726	845	1177	667	859	1051	1244	1827	793	993	1185	1373	1924
1100	75/65	382	485	583	678	942	541	694	846	999	1463	638	799	952	1102	1537
	70/55	316	401	481	559	775	450	576	700	824	1204	528	660	786	909	1262
	55/45	213	269	323	374	516	306	390	471	551	802	355	443	527	608	837
1200	90/70	527	670	806	939	1308	741	955	1168	1382	2029	881	1103	1317	1525	2138
	75/65	424	539	648	754	1047	601	771	940	1110	1625	709	888	1058	1224	1708
	70/55	351	445	535	622	861	500	640	778	915	1338	587	733	873	1010	1402
1300	55/45	236	299	359	416	573	340	433	523	612	891	395	493	586	675	929
	90/70	579	737	887	1033	1439	816	1050	1284	1521	2232	969	1214	1449	1678	2352
	75/65	467	593	713	829	1152	661	849	1034	1221	1788	780	976	1164	1347	1878
1400	70/55	386	490	588	684	947	550	704	855	1007	1471	645	807	961	1110	1542
	55/45	260	329	395	458	630	374	476	576	674	981	434	542	644	743	1022
	90/70	632	804	967	1127	1570	890	1146	1401	1659	2435	1057	1324	1580	1830	2566
1500	75/65	509	647	778	905	1256	721	926	1128	1332	1950	851	1065	1270	1469	2049
	70/55	421	534	642	746	1033	600	768	933	1098	1605	704	880	1048	1211	1682
	55/45	284	359	430	499	688	408	520	628	735	1070	474	591	703	811	1115
1600	90/70	737	938	1129	1315	1831	1038	1337	1635	1935	2841	1233	1545	1844	2136	2993
	75/65	594	754	907	1055	1466	841	1080	1316	1554	2276	993	1243	1481	1714	2391
	70/55	491	623	749	870	1205	700	896	1089	1281	1873	821	1027	1223	1413	1963
1700	55/45	331	419	502	582	802	476	606	733	857	1248	553	690	820	946	1301
	90/70	843	1072	1290	1502	2093	1186	1528	1868	2212	3247	1409	1766	2107	2441	3421
	75/65	679	862	1037	1206	1675	961	1234	1504	1776	2601	1135	1420	1693	1959	2732
1800	70/55	561	712	856	995	1378	799	1024	1244	1464	2140	939	1173	1397	1615	2243
	55/45	378	479	574	666	917	544	693	837	980	1426	632	788	937	1081	1487
	90/70	948	1205	1451	1690	2355	1335	1719	2102	2488	3653	1586	1986	2370	2746	3848
1900	75/65	764	970	1166	1357	1884	1082	1389	1692	1998	2926	1277	1598	1905	2204	3074
	70/55	632	801	963	1119	1550	899	1151	1400	1647	2408	1056	1320	1572	1817	2523
	55/45	425	539	646	749	1032	612	780	942	1102	1604	711	887	1054	1216	1673
2000	90/70	1053	1339	1612	1878	2616	1483	1910	2335	2765	4059	1762	2207	2634	3051	4276
	75/65	848	1078	1296	1508	2094	1202	1543	1881	2219	3251	1419	1775	2116	2449	3415
	70/55	702	891	1070	1243	1722	999	1279	1555	1830	2675	1173	1467	1747	2019	2804
2100	55/45	473	598	717	832	1146	681	866	1047	1225	1783	790	985	1171	1351	1859
	90/70	1211	1540	1854	2160	3009	1705	2196	2685	3179	4668	2026	2538	3029	3508	4917
	75/65	976	1239	1490	1734	2408	1382	1774	2163	2552	3738	1632	2042	2434	2816	3927
2200	70/55	807	1024	1230	1430	1980	1149	1471	1788	2105	3077	1349	1687	2009	2322	3224
	55/45	544	688	825	957	1318	783	996	1204	1409	2050	908	1133	1347	1553	2138
	90/70	1369	1741	2096	2441	3401	1928	2483	3036	3594	5277	2290	2869	3424	3966	5559
2300	75/65	1103	1401	1685	1960	2722	1562	2006	2445	2885	4226	1845	2308	2751	3183	4440
	70/55	912	1158	1391	1616	2239	1299	1663	2022	2379	3478	1525	1907	2271	2625	3645
	55/45	614	778	933	1082	1490	885	1126	1361	1592	2318	1027	1281	1522	1756	2417
2400	90/70	1580	2009	2419	2817	3924	2224	2865	3503	4147	6088	2643	3310	3951	4576	6414
	75/65	1273	1617	1944	2261	3141	1803	2314	2821	3329	4876	2128	2663	3174	3673	5123
	70/55	1053	1336	1605	1865	2583	1499	1919	2333	2745	4013	1760	2200	2620	3029	4205
2500	55/45	709	898	1076	1248	1719	1021	1299	1570	1837	2674	1185	1478	1757	2026	2788



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 21 VKM					Type 22 VKM					Type 33 VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	422	531	635	738	1035	534	680	820	955	1335	753	972	1178	1372	1883
	75/65	339	425	508	589	822	430	546	657	764	1063	604	779	943	1096	1498
	70/55	280	350	418	483	672	356	450	541	627	871	498	641	775	900	1225
500	55/45	187	234	277	320	441	239	302	361	417	575	333	428	515	597	806
	90/70	528	663	794	922	1294	668	849	1025	1194	1668	941	1215	1473	1715	2354
	75/65	424	532	635	736	1028	538	682	821	954	1329	755	974	1178	1370	1872
600	70/55	350	438	522	604	839	444	563	676	784	1089	622	802	969	1125	1531
	55/45	234	292	347	400	551	299	377	451	521	719	416	534	644	746	1008
	90/70	633	796	953	1107	1553	801	1019	1229	1433	2002	1129	1458	1768	2058	2825
700	75/65	509	638	762	883	1233	645	819	985	1145	1595	906	1168	1414	1644	2247
	70/55	420	525	626	724	1007	533	675	811	941	1307	746	962	1163	1350	1838
	55/45	281	350	416	480	661	359	452	541	625	862	499	641	773	896	1209
800	90/70	739	929	1112	1291	1811	935	1189	1434	1671	2336	1317	1702	2062	2401	3296
	75/65	593	744	889	1030	1439	753	955	1149	1336	1861	1057	1363	1650	1918	2621
	70/55	489	613	731	845	1175	622	788	946	1098	1524	871	1122	1356	1575	2144
900	55/45	328	409	486	559	771	418	528	631	729	1006	582	748	902	1045	1411
	90/70	845	1061	1271	1475	2070	1068	1359	1639	1910	2670	1505	1945	2357	2744	3767
	75/65	678	851	1016	1177	1644	860	1092	1314	1527	2127	1207	1558	1885	2192	2996
1000	70/55	559	700	835	966	1343	711	901	1081	1255	1742	995	1282	1550	1800	2450
	55/45	375	467	555	639	881	478	603	721	833	1150	665	855	1031	1194	1612
	90/70	950	1194	1430	1660	2329	1202	1529	1844	2149	3003	1693	2188	2651	3087	4237
1100	75/65	763	957	1143	1325	1850	968	1228	1478	1718	2393	1358	1753	2121	2466	3370
	70/55	629	788	939	1087	1511	800	1013	1217	1412	1960	1120	1443	1744	2025	2757
	55/45	421	526	624	719	992	538	679	812	938	1293	748	962	1160	1344	1814
1200	90/70	1056	1327	1588	1844	2588	1336	1699	2049	2388	3337	1881	2431	2946	3430	4708
	75/65	848	1063	1270	1472	2055	1075	1364	1642	1909	2658	1509	1947	2357	2740	3745
	70/55	699	875	1044	1207	1679	889	1126	1352	1568	2178	1244	1603	1938	2250	3063
1300	55/45	468	584	694	799	1102	598	754	902	1042	1437	832	1069	1289	1493	2015
	90/70	1161	1460	1747	2029	2846	1469	1869	2254	2626	3671	2069	2674	3240	3773	5179
	75/65	933	1170	1397	1619	2261	1183	1501	1806	2100	2924	1660	2142	2592	3015	4119
1400	70/55	769	963	1148	1328	1847	978	1238	1487	1725	2395	1368	1763	2131	2475	3369
	55/45	515	642	763	879	1212	658	829	992	1146	1581	915	1176	1417	1642	2217
	90/70	1267	1592	1906	2213	3105	1603	2039	2459	2865	4004	2258	2917	3535	4116	5650
1500	75/65	1017	1276	1524	1766	2466	1290	1637	1970	2291	3190	1811	2337	2828	3289	4494
	70/55	839	1050	1253	1449	2015	1067	1351	1622	1882	2613	1493	1924	2325	2700	3675
	55/45	562	701	832	959	1322	717	905	1082	1250	1724	998	1283	1546	1791	2418
1600	90/70	1478	1858	2224	2582	3623	1870	2378	2869	3343	4672	2634	3403	4124	4802	6592
	75/65	1187	1489	1778	2061	2877	1505	1910	2299	2672	3722	2113	2726	3299	3837	5242
	70/55	979	1226	1461	1690	2351	1244	1576	1893	2196	3049	1742	2244	2713	3151	4288
1700	55/45	655	817	971	1119	1543	837	1056	1262	1459	2012	1164	1496	1804	2090	2821
	90/70	1689	2123	2541	2951	4140	2137	2718	3279	3820	5339	3010	3889	4713	5489	7533
	75/65	1356	1701	2032	2355	3288	1720	2183	2627	3054	4253	2415	3116	3771	4385	5991
1800	70/55	1119	1401	1670	1932	2686	1422	1801	2163	2509	3484	1990	2565	3100	3601	4901
	55/45	749	934	1110	1279	1763	957	1206	1443	1667	2299	1330	1710	2062	2389	3224
	90/70	1900	2388	2859	3320	4658	2404	3058	3688	4298	6007	3386	4375	5303	6175	8475
1900	75/65	1526	1914	2286	2649	3699	1935	2456	2955	3436	4785	2717	3505	4242	4933	6740
	70/55	1259	1576	1879	2173	3022	1600	2026	2433	2823	3920	2239	2886	3488	4051	5513
	55/45	843	1051	1249	1439	1983	1076	1357	1623	1875	2587	1497	1924	2319	2687	3627
2000	90/70	2112	2654	3177	3689	5175	2671	3398	4098	4775	6674	3763	4862	5892	6861	9417
	75/65	1696	2126	2540	2944	4110	2150	2729	3284	3818	5317	3019	3895	4713	5481	7489
	70/55	1399	1751	2088	2415	3358	1778	2251	2704	3137	4355	2488	3206	3875	4501	6126
2100	55/45	936	1168	1387	1599	2204	1196	1508	1803	2084	2874	1663	2138	2577	2986	4030
	90/70	2428	3052	3653	4242	5951	3072	3907	4713	5491	7675	4327	5591	6775	7890	10829
	75/65	1950	2445	2921	3385	4727	2473	3138	3776	4390	6114	3471	4479	5420	6303	8613
2200	70/55	1608	2013	2401	2777	3862	2044	2589	3109	3607	5008	2861	3687	4456	5176	7045
	55/45	1077	1343	1595	1838	2534	1375	1734	2074	2396	3305	1912	2458	2964	3433	4635
2300	90/70	2745	3450	4130	4795	6728	3473	4417	5328	6208	8676	4892	6320	7659	8919	12241
	75/65	2204	2764	3302	3827	5343	2795	3547	4269	4963	6912	3924	5063	6127	7125	9736
	70/55	1818	2276	2714	3139	4365	2311	2927	3515	4078	5662	3234	4168	5038	5851	7964
2400	55/45	1217	1518	1803	2078	2865	1554	1960	2344	2709	3736	2162	2779	3350	3881	5240
	90/70	3167	3981	4765	5533	7763	4007	5096	6147	7163	10011	5644	7292	8838	10291	14125
	75/65	2543	3190	3810	4415	6165	3225	4093	4926	5726	7975	4528	5842	7070	8221	11234
2500	70/55	2098	2626	3131	3622	5037	2666	3377	4056	4705	6533	3732	4809	5813	6751	9189
	55/45	1405	1752	2081	2398	3306	1794	2262	2705	3125	4311	2495	3207	3866	4478	6046



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 VKM					Type 11 VKM					Type 20 VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	190	241	290	338	470	268	345	421	498	730	318	398	474	549	768
	75/65	150	190	229	266	369	213	273	332	392	573	251	314	374	432	601
	70/55	122	154	185	215	297	174	222	269	316	462	203	254	302	349	483
500	55/45	77	98	117	136	187	112	142	171	200	290	129	161	191	221	302
	90/70	237	302	363	423	588	335	431	526	622	912	397	497	593	686	960
	75/65	188	238	286	333	461	267	342	416	490	716	314	392	467	540	751
600	70/55	152	193	231	269	371	217	277	337	395	577	254	317	377	436	603
	55/45	97	122	147	170	233	140	178	214	250	363	162	202	239	276	378
	90/70	285	362	436	507	705	402	517	632	747	1095	476	597	711	824	1152
700	75/65	225	286	343	399	553	320	410	499	587	859	376	470	560	648	901
	70/55	182	231	277	322	445	261	333	404	474	692	305	381	453	523	724
	55/45	116	147	176	204	280	168	213	257	300	436	194	242	287	331	453
800	90/70	332	422	508	592	823	469	603	737	871	1277	556	696	830	961	1344
	75/65	263	333	400	466	645	373	478	582	685	1002	439	549	654	756	1051
	70/55	213	270	324	376	520	304	388	471	553	808	356	444	528	610	845
900	55/45	136	171	205	238	327	196	249	300	350	508	226	282	335	386	529
	90/70	380	483	581	676	941	536	690	842	995	1460	635	795	949	1098	1536
	75/65	300	381	458	532	738	426	546	665	783	1146	502	627	747	864	1202
1000	70/55	243	308	370	430	594	348	444	539	632	923	406	508	604	698	966
	55/45	155	196	235	272	373	224	285	343	400	581	259	322	383	441	604
	90/70	427	543	653	761	1058	603	776	947	1120	1642	715	895	1067	1236	1728
1100	75/65	338	428	515	599	830	480	615	748	881	1289	564	706	841	972	1352
	70/55	273	347	416	483	668	391	499	606	712	1038	457	571	679	785	1086
	55/45	174	220	264	306	420	252	320	386	450	654	291	363	431	496	680
1200	90/70	475	603	726	845	1176	670	862	1053	1244	1825	794	994	1186	1373	1920
	75/65	375	476	572	665	922	533	683	831	979	1432	627	784	934	1080	1502
	70/55	304	385	462	537	742	434	555	673	791	1154	508	634	755	872	1207
1300	55/45	194	245	293	340	467	280	356	429	500	726	323	403	478	551	755
	90/70	522	664	799	930	1293	737	948	1158	1369	2007	874	1094	1304	1510	2112
	75/65	413	524	629	732	1014	586	751	914	1077	1575	690	862	1027	1188	1652
1400	70/55	334	424	509	591	817	478	610	740	870	1269	559	698	830	959	1328
	55/45	213	269	323	374	513	308	391	471	550	799	356	443	526	607	831
	90/70	570	724	871	1014	1411	805	1035	1263	1493	2190	953	1193	1423	1647	2304
1500	75/65	450	571	686	798	1106	640	820	997	1175	1718	752	941	1121	1296	1802
	70/55	365	462	555	644	891	521	666	808	949	1385	610	761	906	1046	1448
	55/45	232	294	352	408	560	336	427	514	600	871	388	484	574	662	906
1600	90/70	665	845	1016	1183	1646	939	1207	1474	1742	2555	1112	1392	1660	1922	2687
	75/65	525	666	801	931	1291	746	956	1163	1371	2005	878	1098	1308	1512	2103
	70/55	425	539	647	752	1039	608	777	942	1107	1615	711	888	1057	1221	1690
1700	55/45	271	343	411	476	653	392	498	600	700	1017	453	564	670	772	1057
	90/70	760	966	1162	1352	1881	1073	1379	1684	1991	2919	1271	1591	1897	2197	3071
	75/65	600	762	915	1064	1475	853	1093	1330	1566	2291	1003	1254	1494	1728	2403
1800	70/55	486	616	740	859	1188	695	888	1077	1265	1846	813	1015	1208	1395	1931
	55/45	310	392	469	544	747	448	569	686	800	1162	517	645	766	882	1209
	90/70	855	1086	1307	1521	2116	1207	1552	1895	2240	3284	1429	1790	2134	2471	3455
1900	75/65	675	857	1030	1197	1660	959	1229	1496	1762	2578	1129	1411	1681	1944	2704
	70/55	547	693	832	967	1336	782	999	1212	1423	2077	914	1142	1359	1570	2173
	55/45	348	441	528	611	840	504	640	771	900	1307	582	725	861	993	1360
2000	90/70	950	1207	1452	1690	2351	1341	1724	2105	2489	3649	1588	1988	2372	2746	3839
	75/65	750	952	1144	1330	1844	1066	1366	1662	1958	2864	1254	1568	1868	2160	3004
	70/55	608	771	925	1074	1485	869	1110	1346	1581	2308	1016	1269	1510	1744	2414
2100	55/45	387	490	586	679	933	561	711	857	1000	1452	647	806	957	1103	1511
	90/70	1092	1388	1670	1944	2704	1542	1983	2421	2862	4197	1826	2287	2727	3158	4415
	75/65	863	1095	1316	1530	2121	1226	1571	1911	2252	3294	1442	1803	2148	2484	3455
2200	70/55	699	886	1064	1235	1708	999	1276	1548	1818	2654	1168	1459	1736	2006	2776
	55/45	445	563	674	781	1073	645	818	986	1150	1670	744	927	1101	1268	1737
	90/70	1235	1569	1888	2197	3057	1743	2241	2737	3235	4744	2065	2585	3083	3569	4991
2300	75/65	975	1238	1487	1729	2397	1386	1776	2161	2545	3723	1630	2038	2428	2808	3905
	70/55	790	1002	1202	1396	1930	1130	1443	1750	2056	3000	1321	1649	1963	2267	3138
	55/45	503	637	762	883	1213	729	925	1114	1300	1888	841	1048	1244	1434	1964
2400	90/70	1424	1810	2178	2535	3527	2011	2586	3158	3733	5474	2382	2983	3557	4119	5759
	75/65	1125	1428	1716	1995	2766	1599	2049	2493	2937	4296	1881	2352	2802	3240	4506
	70/55	912	1156	1387	1611	2227	1303	1665	2019	2372	3461	1524	1903	2265	2616	3621
2500	55/45	581	735	880	1019	1400	841	1067	1286	1500	2179	970	1209	1435	1654	2266



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 VKM					Type 22 VKM					Type 33 VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	380	477	571	662	927	482	612	737	858	1197	677	874	1059	1232	1688
	75/65	299	375	447	518	721	380	482	579	672	934	532	686	830	964	1314
	70/55	242	302	360	416	576	308	389	467	541	749	430	553	668	775	1052
	55/45	153	190	226	260	356	196	246	294	339	466	271	348	420	485	653
500	90/70	475	597	713	828	1159	602	765	921	1072	1496	846	1093	1324	1540	2109
	75/65	374	469	559	647	901	475	602	724	840	1168	666	858	1038	1206	1643
	70/55	302	378	450	519	720	385	486	583	676	936	537	692	835	969	1315
	55/45	191	238	282	325	445	245	308	368	424	583	339	436	524	607	816
600	90/70	570	716	856	993	1390	722	918	1106	1287	1796	1016	1311	1588	1848	2531
	75/65	449	562	671	776	1081	570	722	868	1008	1401	799	1030	1245	1447	1972
	70/55	363	453	540	623	864	462	584	700	811	1123	645	830	1002	1163	1578
	55/45	229	286	339	389	535	294	370	441	508	699	407	523	629	728	979
700	90/70	665	835	999	1159	1622	843	1071	1290	1501	2095	1185	1530	1853	2156	2953
	75/65	524	656	783	906	1261	665	843	1013	1176	1635	932	1201	1453	1688	2300
	70/55	423	529	630	727	1008	538	681	817	946	1310	752	968	1169	1357	1841
	55/45	268	333	395	454	624	343	431	515	593	816	475	610	734	849	1142
800	90/70	760	955	1142	1324	1854	963	1224	1474	1716	2394	1354	1749	2118	2464	3375
	75/65	598	750	894	1035	1442	760	963	1158	1344	1868	1065	1373	1660	1929	2629
	70/55	483	604	720	831	1152	615	778	933	1081	1497	859	1106	1336	1550	2104
	55/45	306	381	451	519	713	392	493	588	678	932	543	697	839	971	1305
900	90/70	855	1074	1284	1490	2085	1083	1376	1658	1930	2693	1524	1967	2382	2772	3797
	75/65	673	843	1006	1165	1622	855	1084	1302	1512	2102	1198	1544	1868	2170	2957
	70/55	544	680	810	935	1296	692	875	1050	1216	1685	967	1245	1503	1744	2367
	55/45	344	428	508	584	802	440	554	662	763	1049	611	784	944	1092	1468
1000	90/70	950	1193	1427	1655	2317	1204	1529	1843	2145	2993	1693	2186	2647	3080	4219
	75/65	748	937	1118	1294	1802	950	1204	1447	1680	2335	1331	1716	2075	2411	3286
	70/55	604	755	899	1039	1440	769	973	1166	1351	1872	1074	1383	1670	1938	2630
	55/45	382	476	564	649	891	489	616	735	847	1165	679	871	1049	1213	1631
1100	90/70	1045	1313	1570	1821	2549	1324	1682	2027	2359	3292	1862	2404	2912	3389	4641
	75/65	823	1031	1230	1423	1982	1045	1324	1592	1848	2569	1464	1888	2283	2652	3615
	70/55	665	831	989	1143	1584	846	1070	1283	1486	2059	1182	1521	1837	2132	2893
	55/45	421	524	621	714	980	538	677	809	932	1282	746	958	1154	1335	1795
1200	90/70	1140	1432	1712	1986	2781	1445	1835	2211	2574	3591	2031	2623	3177	3697	5063
	75/65	898	1124	1342	1553	2162	1140	1445	1736	2016	2802	1597	2059	2490	2893	3943
	70/55	725	906	1079	1247	1728	923	1167	1400	1622	2246	1289	1660	2004	2326	3156
	55/45	459	571	677	779	1069	587	739	882	1017	1398	814	1045	1259	1456	1958
1400	90/70	1331	1671	1998	2318	3244	1685	2141	2580	3003	4190	2370	3060	3706	4313	5907
	75/65	1047	1312	1565	1812	2523	1330	1686	2026	2352	3269	1863	2402	2905	3375	4600
	70/55	846	1058	1259	1455	2016	1077	1362	1633	1892	2620	1504	1936	2338	2713	3682
	55/45	535	666	790	909	1247	685	862	1029	1186	1631	950	1220	1468	1699	2284
1600	90/70	1521	1909	2283	2649	3707	1926	2447	2948	3432	4788	2709	3497	4235	4929	6750
	75/65	1197	1499	1789	2070	2883	1520	1926	2315	2688	3736	2130	2746	3320	3858	5258
	70/55	967	1209	1439	1662	2304	1231	1556	1866	2162	2995	1719	2213	2672	3101	4208
	55/45	612	762	903	1038	1425	783	985	1176	1356	1864	1086	1394	1678	1942	2610
1800	90/70	1711	2148	2569	2980	4171	2167	2753	3317	3861	5387	3047	3934	4765	5545	7594
	75/65	1346	1687	2012	2329	3244	1710	2167	2605	3024	4203	2396	3089	3735	4340	5915
	70/55	1088	1360	1619	1870	2592	1385	1751	2100	2432	3369	1934	2489	3006	3488	4734
	55/45	688	857	1016	1168	1604	881	1109	1323	1525	2097	1221	1568	1888	2184	2936
2000	90/70	1901	2386	2854	3311	4634	2408	3059	3685	4290	5985	3386	4372	5294	6161	8438
	75/65	1496	1874	2236	2588	3604	1900	2408	2894	3360	4670	2662	3432	4150	4822	6572
	70/55	1208	1511	1799	2078	2880	1539	1946	2333	2703	3743	2148	2766	3340	3876	5260
	55/45	765	952	1129	1298	1782	979	1232	1470	1695	2330	1357	1742	2098	2427	3263
2300	90/70	2186	2744	3282	3807	5329	2769	3518	4238	4933	6883	3894	5027	6088	7085	9704
	75/65	1720	2155	2571	2976	4145	2185	2769	3328	3864	5371	3061	3947	4773	5545	7558
	70/55	1390	1737	2069	2390	3312	1769	2237	2683	3108	4305	2471	3181	3841	4457	6048
	55/45	879	1095	1298	1493	2049	1126	1417	1691	1949	2680	1561	2003	2412	2791	3752
2600	90/70	2471	3102	3710	4304	6025	3130	3977	4791	5577	7781	4401	5683	6883	8009	10969
	75/65	1945	2436	2907	3364	4685	2470	3130	3762	4368	6071	3461	4462	5395	6269	8544
	70/55	1571	1964	2339	2701	3744	2000	2529	3033	3513	4866	2793	3596	4342	5039	6837
	55/45	994	1238	1467	1687	2316	1272	1601	1911	2203	3029	1764	2265	2727	3155	4242
3000	90/70	2851	3580	4281	4966	6951	3611	4588	5528	6434	8978	5079	6557	7941	9241	12657
	75/65	2244	2811	3354	3882	5406	2850	3612	4341	5040	7005	3993	5148	6225	7233	9858
	70/55	1813	2266	2698	3117	4321	2308	2918	3499	4054	5615	3223	4149	5010	5814	7889
	55/45	1147	1428	1693	1947	2673	1468	1848	2205	2542	3495	2036	2613	3146	3640	4894



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		Type 10 VKM					Type 11 VKM					Type 20 VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	182	231	278	323	449	257	330	403	476	698	304	380	454	525	734
	75/65	142	181	217	252	349	203	259	315	371	543	238	297	354	409	569
	70/55	114	145	174	202	278	164	209	253	297	433	191	238	284	327	452
	55/45	71	90	107	124	170	103	130	157	183	265	118	147	175	201	273
500	90/70	227	289	347	404	562	321	413	504	595	872	380	476	567	656	917
	75/65	178	226	271	315	437	253	324	394	464	678	297	372	443	512	711
	70/55	143	181	217	252	348	204	261	316	371	541	239	298	354	409	566
	55/45	89	112	134	155	213	128	163	196	228	331	148	184	219	252	344
600	90/70	273	346	417	485	674	385	495	604	714	1047	456	571	681	788	1100
	75/65	213	271	325	378	524	304	389	473	557	814	357	446	531	614	853
	70/55	171	217	261	302	418	245	313	379	445	649	286	357	425	491	679
	55/45	106	134	161	186	255	154	195	235	274	398	177	221	262	302	413
700	90/70	318	404	486	566	787	450	578	705	833	1221	532	666	794	919	1284
	75/65	249	316	380	441	611	354	454	552	649	949	416	520	620	716	995
	70/55	200	253	304	353	487	286	365	443	519	758	334	417	496	573	792
	55/45	124	157	188	217	298	180	228	274	320	464	207	258	306	352	482
800	90/70	364	462	556	647	899	514	660	806	952	1395	608	761	907	1050	1467
	75/65	285	361	434	504	699	405	519	631	742	1085	476	595	708	819	1137
	70/55	228	289	347	403	557	327	417	506	594	866	382	477	567	655	905
	55/45	142	179	214	248	341	206	261	314	365	530	237	295	350	403	551
900	90/70	409	520	625	727	1011	578	743	907	1071	1570	684	856	1021	1182	1651
	75/65	320	406	488	567	786	456	583	709	835	1221	535	669	797	921	1280
	70/55	257	326	391	454	627	368	470	569	668	974	429	536	638	737	1018
	55/45	159	201	241	279	383	231	293	353	411	596	266	332	393	453	620
1000	90/70	454	577	695	808	1124	642	826	1007	1190	1744	760	951	1134	1313	1834
	75/65	356	451	542	630	873	506	648	788	928	1356	595	743	885	1024	1422
	70/55	285	362	434	504	696	409	522	632	742	1082	477	596	709	818	1131
	55/45	177	224	268	310	426	257	326	392	457	663	296	368	437	504	688
1100	90/70	500	635	764	889	1236	707	908	1108	1309	1919	836	1046	1248	1444	2017
	75/65	391	497	596	693	960	557	713	867	1021	1492	654	818	974	1126	1564
	70/55	314	398	478	554	766	450	574	696	816	1190	525	655	780	900	1244
	55/45	195	246	295	341	468	283	358	431	502	729	325	405	481	554	757
1200	90/70	545	693	833	970	1348	771	991	1209	1428	2093	912	1141	1361	1576	2201
	75/65	427	542	651	756	1048	608	778	946	1113	1628	714	892	1062	1228	1706
	70/55	343	434	521	605	835	491	626	759	890	1299	573	715	851	982	1357
	55/45	212	269	322	372	511	308	391	470	548	795	355	442	525	604	826
1400	90/70	636	808	972	1132	1573	899	1156	1410	1666	2442	1064	1332	1588	1838	2568
	75/65	498	632	759	882	1222	709	908	1103	1299	1899	833	1041	1240	1433	1990
	70/55	400	507	608	706	975	572	731	885	1039	1515	668	834	992	1146	1584
	55/45	248	313	375	434	596	360	456	549	639	928	414	516	612	705	964
1600	90/70	727	924	1111	1293	1798	1028	1321	1612	1904	2791	1216	1522	1815	2101	2934
	75/65	569	722	868	1008	1397	810	1037	1261	1485	2170	952	1189	1417	1638	2275
	70/55	457	579	695	807	1114	654	835	1012	1187	1732	763	953	1134	1310	1810
	55/45	283	358	429	496	681	411	521	627	731	1060	473	589	699	806	1101
1800	90/70	818	1039	1250	1455	2023	1156	1486	1813	2142	3140	1368	1712	2042	2363	3301
	75/65	640	812	976	1134	1572	911	1167	1419	1670	2441	1070	1338	1594	1842	2559
	70/55	514	651	782	907	1253	736	939	1138	1336	1948	859	1072	1276	1473	2036
	55/45	319	403	482	558	766	463	586	705	822	1193	532	663	787	906	1239
2000	90/70	909	1155	1389	1617	2247	1285	1651	2015	2380	3489	1520	1902	2269	2626	3668
	75/65	711	903	1085	1260	1746	1013	1297	1576	1856	2713	1189	1487	1771	2047	2843
	70/55	571	724	868	1008	1392	818	1044	1265	1484	2164	954	1192	1418	1637	2262
	55/45	354	448	536	621	851	514	651	784	913	1325	591	737	874	1007	1377
2300	90/70	1045	1328	1598	1859	2585	1478	1899	2317	2737	4012	1748	2188	2609	3020	4218
	75/65	818	1038	1247	1450	2008	1165	1491	1813	2134	3120	1368	1710	2036	2354	3270
	70/55	657	832	999	1159	1601	940	1200	1454	1707	2489	1097	1370	1630	1882	2602
	55/45	407	515	616	714	979	591	749	901	1050	1524	680	847	1005	1158	1583
2600	90/70	1182	1501	1806	2102	2922	1670	2146	2619	3094	4535	1976	2473	2949	3414	4768
	75/65	925	1174	1410	1639	2270	1316	1686	2049	2412	3527	1546	1933	2302	2661	3696
	70/55	742	941	1129	1311	1810	1063	1357	1644	1929	2814	1241	1549	1843	2128	2941
	55/45	460	582	697	807	1107	668	847	1019	1187	1723	769	958	1137	1309	1790
3000	90/70	1363	1732	2084	2425	3371	1927	2477	3022	3570	5233	2280	2854	3403	3939	5502
	75/65	1067	1354	1627	1891	2619	1519	1945	2365	2783	4069	1784	2230	2656	3071	4265
	70/55	856	1086	1303	1512	2089	1227	1566	1897	2226	3247	1431	1787	2126	2455	3394
	55/45	531	671	804	931	1277	771	977	1176	1370	1988	887	1105	1312	1511	2065



HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		Type 21 VKM					Type 22 VKM					Type 33 VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	364	456	545	633	885	461	585	705	820	1143	648	836	1012	1177	1611
	75/65	284	355	423	490	681	360	456	548	636	884	504	650	786	913	1243
	70/55	227	283	337	389	539	289	365	438	507	701	403	519	626	727	985
	55/45	140	174	206	237	324	179	225	268	309	424	248	318	383	442	594
500	90/70	455	570	682	791	1106	576	731	881	1025	1429	809	1045	1265	1472	2014
	75/65	354	444	529	612	852	450	571	685	795	1104	631	813	982	1141	1554
	70/55	284	354	422	487	674	361	457	547	633	876	504	649	783	908	1231
	55/45	175	217	257	296	405	224	281	335	386	530	310	397	478	553	742
600	90/70	545	684	818	949	1327	691	878	1057	1230	1715	971	1254	1518	1766	2416
	75/65	425	533	635	735	1022	541	685	822	954	1325	757	975	1179	1369	1864
	70/55	340	425	506	584	809	434	548	657	760	1052	605	778	940	1090	1477
	55/45	210	261	309	355	486	268	338	402	464	636	372	477	574	664	891
700	90/70	636	799	955	1107	1548	806	1024	1233	1435	2000	1133	1463	1771	2060	2819
	75/65	496	621	741	857	1192	631	799	960	1113	1546	883	1138	1375	1598	2175
	70/55	397	496	590	681	943	506	639	766	887	1227	706	908	1096	1271	1723
	55/45	244	304	360	414	567	313	394	470	541	742	434	556	670	774	1039
800	90/70	727	913	1091	1265	1769	922	1170	1409	1640	2286	1295	1672	2024	2355	3222
	75/65	567	710	847	980	1363	721	913	1097	1272	1767	1009	1300	1572	1826	2486
	70/55	454	567	675	779	1078	578	731	875	1013	1402	806	1038	1253	1453	1969
	55/45	279	347	412	473	648	358	450	537	618	849	496	636	765	885	1187
900	90/70	818	1027	1227	1423	1990	1037	1317	1586	1845	2572	1457	1881	2277	2649	3625
	75/65	638	799	953	1102	1533	811	1027	1234	1432	1988	1135	1463	1768	2054	2796
	70/55	510	638	759	876	1213	650	822	985	1140	1578	907	1168	1409	1635	2215
	55/45	314	391	463	532	729	403	506	604	695	955	558	715	861	995	1336
1000	90/70	909	1141	1364	1581	2211	1152	1463	1762	2050	2858	1619	2090	2530	2943	4027
	75/65	709	888	1059	1225	1703	901	1141	1371	1591	2209	1261	1625	1965	2282	3107
	70/55	567	709	843	973	1348	723	913	1094	1267	1753	1008	1297	1566	1816	2462
	55/45	349	434	515	591	810	447	563	671	773	1061	619	795	956	1106	1484
1100	90/70	1000	1255	1500	1739	2432	1267	1609	1938	2255	3143	1781	2299	2783	3238	4430
	75/65	780	976	1164	1347	1874	991	1255	1508	1750	2430	1387	1788	2161	2511	3418
	70/55	624	779	928	1071	1482	795	1004	1204	1393	1928	1109	1427	1723	1998	2708
	55/45	384	478	566	650	891	492	619	738	850	1167	681	874	1052	1217	1633
1200	90/70	1091	1369	1636	1898	2654	1382	1755	2114	2459	3429	1943	2508	3036	3532	4833
	75/65	851	1065	1270	1469	2044	1081	1369	1645	1909	2651	1513	1951	2358	2739	3729
	70/55	681	850	1012	1168	1617	867	1096	1313	1520	2103	1210	1557	1879	2180	2954
	55/45	419	521	617	710	972	537	675	805	927	1273	743	954	1148	1327	1781
1400	90/70	1273	1597	1909	2214	3096	1613	2048	2466	2869	4001	2266	2926	3542	4121	5638
	75/65	993	1243	1482	1714	2385	1261	1598	1919	2227	3092	1766	2276	2751	3195	4350
	70/55	794	992	1181	1363	1887	1012	1278	1532	1774	2454	1411	1816	2192	2543	3446
	55/45	489	608	720	828	1134	626	788	939	1082	1485	867	1113	1339	1548	2078
1600	90/70	1454	1825	2182	2530	3538	1843	2341	2819	3279	4572	2590	3343	4048	4709	6444
	75/65	1134	1420	1694	1959	2725	1442	1826	2193	2545	3534	2018	2601	3144	3652	4971
	70/55	907	1134	1349	1558	2156	1156	1461	1751	2027	2805	1613	2076	2506	2906	3939
	55/45	559	695	823	946	1296	716	900	1073	1236	1697	991	1272	1530	1770	2375
1800	90/70	1636	2053	2455	2846	3980	2073	2633	3171	3689	5144	2914	3761	4554	5298	7249
	75/65	1276	1598	1905	2204	3066	1622	2054	2467	2863	3976	2270	2926	3537	4108	5593
	70/55	1021	1275	1518	1752	2426	1301	1644	1970	2280	3155	1814	2335	2819	3269	4431
	55/45	629	782	926	1064	1458	805	1013	1207	1391	1909	1115	1431	1722	1991	2672
2000	90/70	1818	2282	2727	3163	4423	2304	2926	3523	4099	5715	3238	4179	5060	5887	8055
	75/65	1418	1775	2117	2449	3407	1802	2282	2742	3181	4418	2522	3251	3930	4565	6214
	70/55	1134	1417	1687	1947	2695	1445	1826	2189	2534	3506	2016	2595	3132	3633	4923
	55/45	699	869	1029	1183	1620	895	1125	1342	1545	2121	1239	1590	1913	2212	2968
2300	90/70	2091	2624	3136	3637	5086	2649	3365	4052	4714	6573	3723	4806	5819	6769	9263
	75/65	1631	2042	2435	2817	3918	2072	2625	3153	3658	5080	2901	3739	4519	5249	7146
	70/55	1304	1630	1939	2239	3099	1662	2100	2517	2914	4032	2318	2984	3602	4178	5662
	55/45	803	999	1183	1360	1863	1029	1294	1543	1777	2440	1425	1828	2200	2544	3414
2600	90/70	2363	2966	3546	4111	5749	2995	3803	4581	5329	7430	4209	5433	6578	7652	10471
	75/65	1843	2308	2752	3184	4429	2342	2967	3564	4136	5743	3279	4226	5109	5934	8079
	70/55	1475	1842	2192	2531	3504	1879	2374	2845	3294	4557	2621	3373	4072	4723	6400
	55/45	908	1129	1338	1537	2106	1163	1463	1744	2009	2758	1611	2067	2487	2876	3859
3000	90/70	2727	3422	4091	4744	6634	3456	4389	5285	6149	8573	4856	6269	7590	8830	12082
	75/65	2127	2663	3176	3674	5110	2703	3424	4112	4772	6626	3784	4876	5895	6847	9322
	70/55	1701	2126	2530	2920	4043	2168	2739	3283	3800	5259	3024	3892	4698	5449	7385
	55/45	1048	1303	1544	1774	2430	1342	1688	2012	2318	3182	1858	2385	2869	3318	4453



RADIK® PLAN KLASIK, PLAN VK, PLAN VKL

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 10 PLAN Type 10 PLAN VK Type 10 PLAN VKL					Type 11 PLAN Type 11 PLAN VK Type 11 PLAN VKL					Type 20 PLAN Type 20 PLAN VK Type 20 PLAN VKL				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	172	219	263	307	443	297	378	456	532	752	297	368	437	505	716
	75/65	138	176	212	248	356	241	306	369	430	605	240	297	352	408	576
	70/55	114	146	176	206	295	200	254	307	357	500	199	246	292	338	476
	55/45	76	98	119	140	198	136	173	208	242	336	134	166	198	229	321
500	90/70	215	273	329	383	553	372	473	570	665	941	371	460	546	632	895
	75/65	173	220	266	310	445	301	383	462	538	757	299	371	441	510	720
	70/55	143	182	220	258	368	250	318	383	446	625	248	308	365	423	596
	55/45	95	122	149	175	248	170	216	260	303	420	168	208	247	286	401
600	90/70	258	328	395	460	664	446	567	685	798	1129	445	552	655	758	1074
	75/65	207	264	319	372	534	361	459	554	645	908	359	445	529	612	864
	70/55	171	218	264	309	442	300	381	460	536	750	298	369	438	507	715
	55/45	114	147	179	210	297	203	259	312	364	504	201	250	296	343	481
700	90/70	301	383	460	536	774	520	662	799	930	1317	519	643	764	884	1253
	75/65	242	308	372	434	623	421	536	646	753	1060	419	520	617	714	1008
	70/55	200	255	308	361	515	350	445	537	625	875	347	431	511	592	834
	55/45	134	171	208	245	347	237	302	364	424	588	235	291	346	400	561
800	90/70	345	437	526	613	885	595	757	913	1063	1505	593	735	873	1011	1432
	75/65	277	352	425	496	713	481	612	738	860	1211	479	594	705	816	1152
	70/55	228	291	352	412	589	400	508	613	714	1001	397	492	584	676	953
	55/45	153	196	238	280	396	271	345	416	485	672	269	333	395	458	641
900	90/70	388	492	592	690	996	669	851	1027	1196	1693	667	827	982	1137	1610
	75/65	311	396	478	558	802	541	689	831	968	1362	539	668	793	918	1297
	70/55	257	328	396	464	663	449	572	690	804	1126	447	554	657	761	1072
	55/45	172	220	268	315	446	305	388	468	546	756	302	375	445	515	721
1000	90/70	431	547	658	766	1106	743	946	1141	1329	1881	742	919	1091	1263	1789
	75/65	346	440	531	620	891	601	765	923	1075	1514	599	742	881	1020	1441
	70/55	285	364	440	515	736	499	635	766	893	1251	496	615	730	846	1191
	55/45	191	245	298	350	495	339	431	520	606	840	336	416	494	572	801
1100	90/70	474	602	724	843	1217	818	1040	1255	1462	2069	816	1011	1200	1390	1968
	75/65	380	484	584	682	980	662	842	1015	1183	1665	659	816	969	1122	1585
	70/55	314	400	484	567	810	549	699	843	982	1376	546	677	803	930	1310
	55/45	210	269	327	385	545	373	474	572	667	925	369	458	543	629	881
1200	90/70	517	656	789	920	1328	892	1135	1369	1595	2257	890	1103	1310	1516	2147
	75/65	415	528	637	745	1069	722	918	1108	1291	1816	719	891	1057	1224	1729
	70/55	342	437	528	619	884	599	762	920	1072	1501	596	738	877	1015	1429
	55/45	229	294	357	420	594	407	518	624	727	1009	403	499	593	686	962
1400	90/70	603	766	921	1073	1549	1041	1324	1597	1861	2634	1038	1287	1528	1769	2505
	75/65	484	616	743	869	1247	842	1071	1292	1506	2119	838	1039	1234	1428	2017
	70/55	399	510	616	722	1031	699	889	1073	1250	1751	695	861	1023	1184	1667
	55/45	267	343	417	490	694	475	604	729	849	1177	470	583	692	801	1122
1600	90/70	689	875	1052	1226	1770	1189	1513	1825	2127	3010	1187	1471	1746	2021	2863
	75/65	553	704	850	993	1425	962	1224	1477	1721	2422	958	1188	1410	1632	2305
	70/55	456	582	704	825	1178	799	1016	1226	1429	2001	794	984	1169	1353	1906
	55/45	305	392	476	561	793	542	690	833	970	1345	537	666	791	915	1282
1800	90/70	775	984	1184	1379	1991	1338	1702	2054	2393	3386	1335	1655	1964	2274	3221
	75/65	622	792	956	1117	1603	1083	1377	1662	1936	2724	1078	1336	1586	1836	2593
	70/55	513	655	792	928	1325	899	1144	1380	1607	2251	893	1107	1315	1522	2144
	55/45	343	441	536	631	892	610	776	937	1091	1513	604	749	889	1030	1442
2000	90/70	861	1094	1316	1533	2213	1487	1891	2282	2658	3762	1483	1839	2183	2527	3579
	75/65	691	880	1062	1241	1781	1203	1530	1846	2151	3027	1198	1485	1762	2040	2881
	70/55	570	728	880	1031	1473	999	1271	1533	1786	2501	993	1230	1461	1691	2382
	55/45	382	490	595	701	991	678	863	1041	1212	1681	671	832	988	1144	1603
2300	90/70	991	1258	1513	1763	2544	1710	2175	2624	3057	4327	1706	2114	2510	2906	4116
	75/65	795	1013	1221	1427	2048	1383	1760	2123	2474	3481	1377	1707	2027	2346	3313
	70/55	656	837	1012	1186	1694	1149	1461	1763	2054	2877	1142	1415	1680	1945	2739
	55/45	439	563	684	806	1139	780	992	1197	1394	1933	772	957	1136	1316	1843
2600	90/70	1120	1422	1710	1993	2876	1933	2459	2966	3456	4891	1928	2390	2837	3285	4652
	75/65	899	1145	1381	1613	2316	1564	1989	2400	2796	3935	1557	1930	2291	2652	3746
	70/55	741	946	1144	1340	1914	1299	1652	1993	2322	3252	1290	1600	1899	2199	3097
	55/45	496	637	774	911	1288	882	1121	1353	1576	2185	873	1082	1285	1487	2083
3000	90/70	1292	1641	1973	2299	3319	2230	2837	3423	3988	5644	2225	2758	3274	3790	5368
	75/65	1037	1321	1593	1861	2672	1804	2295	2769	3226	4541	1796	2227	2644	3060	4322
	70/55	855	1092	1320	1546	2209	1498	1906	2299	2679	3752	1489	1846	2191	2537	3573
	55/45	572	735	893	1051	1486	1017	1294	1561	1819	2521	1007	1248	1482	1716	2404



RADIK® PLAN KLASIK, PLAN VK, PLAN VKL

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 21 PLAN Type 21 PLAN VK Type 21 PLAN VKL					Type 22 PLAN Type 22 PLAN VK Type 22 PLAN VKL					Type 33 PLAN Type 33 PLAN VK Type 33 PLAN VKL				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	410	506	599	692	974	535	671	800	923	1272	758	957	1144	1323	1845
	75/65	329	406	481	555	778	430	538	641	740	1019	607	767	917	1062	1471
	70/55	272	335	396	457	639	354	444	529	610	838	500	631	756	875	1206
	55/45	182	224	265	305	424	237	297	353	407	558	333	421	505	585	797
500	90/70	513	632	749	865	1218	669	839	1000	1154	1590	947	1196	1430	1654	2306
	75/65	412	508	601	693	973	537	673	802	925	1273	759	958	1147	1327	1838
	70/55	340	419	495	571	798	443	555	661	762	1047	624	789	945	1094	1507
	55/45	228	280	331	381	529	297	371	441	509	698	416	526	631	731	996
600	90/70	615	759	899	1038	1461	803	1006	1200	1385	1908	1137	1435	1716	1985	2767
	75/65	494	609	721	832	1167	645	807	962	1110	1528	910	1150	1376	1593	2206
	70/55	408	503	594	685	958	532	666	793	914	1257	749	947	1134	1313	1808
	55/45	273	336	397	457	635	356	445	530	610	837	499	632	757	878	1195
700	90/70	718	885	1049	1211	1705	937	1174	1400	1616	2227	1326	1674	2002	2316	3228
	75/65	577	711	841	970	1362	752	942	1123	1295	1783	1062	1341	1605	1858	2574
	70/55	476	586	693	799	1118	620	777	925	1067	1466	874	1105	1323	1532	2110
	55/45	319	392	464	533	741	415	519	618	712	977	583	737	883	1024	1394
800	90/70	820	1012	1199	1384	1948	1071	1342	1600	1847	2545	1516	1913	2288	2647	3690
	75/65	659	812	962	1109	1556	860	1077	1283	1480	2037	1214	1533	1835	2124	2942
	70/55	544	670	793	913	1278	709	888	1057	1219	1676	999	1262	1512	1750	2411
	55/45	365	449	530	610	847	475	594	706	814	1116	666	842	1009	1170	1593
900	90/70	923	1138	1349	1557	2192	1204	1509	1800	2078	2863	1705	2152	2574	2978	4151
	75/65	741	914	1082	1248	1751	967	1211	1443	1665	2292	1366	1725	2064	2389	3309
	70/55	612	754	892	1028	1437	798	998	1189	1372	1885	1124	1420	1700	1969	2712
	55/45	410	505	596	686	953	534	668	795	915	1256	749	948	1136	1316	1792
1000	90/70	1025	1265	1498	1730	2435	1338	1677	2000	2308	3181	1894	2391	2860	3309	4612
	75/65	824	1016	1202	1386	1945	1074	1346	1604	1850	2546	1517	1916	2293	2655	3677
	70/55	680	838	991	1142	1597	886	1109	1321	1524	2095	1249	1578	1889	2188	3014
	55/45	456	561	662	762	1059	593	742	883	1017	1395	832	1053	1262	1463	1992
1100	90/70	1128	1391	1648	1902	2679	1472	1845	2200	2539	3499	2084	2630	3146	3640	5073
	75/65	906	1117	1322	1525	2140	1182	1480	1764	2035	2801	1669	2108	2523	2920	4045
	70/55	748	921	1090	1256	1757	975	1220	1454	1676	2304	1374	1736	2078	2407	3315
	55/45	501	617	728	838	1165	653	816	971	1119	1535	916	1158	1388	1609	2191
1200	90/70	1230	1518	1798	2075	2922	1606	2013	2400	2770	3817	2273	2870	3432	3970	5535
	75/65	988	1219	1442	1664	2334	1289	1615	1924	2220	3056	1821	2300	2752	3185	4412
	70/55	816	1005	1189	1370	1916	1063	1331	1586	1829	2514	1499	1894	2267	2625	3617
	55/45	547	673	795	914	1271	712	890	1059	1220	1674	999	1263	1514	1755	2390
1400	90/70	1435	1771	2098	2421	3409	1874	2348	2799	3232	4453	2652	3348	4004	4632	6457
	75/65	1153	1422	1683	1941	2723	1504	1884	2245	2591	3565	2124	2683	3211	3716	5148
	70/55	952	1173	1387	1598	2236	1241	1553	1850	2133	2933	1749	2209	2645	3063	4219
	55/45	638	785	927	1067	1482	831	1039	1236	1424	1953	1165	1474	1767	2048	2788
1600	90/70	1640	2024	2397	2767	3897	2141	2683	3199	3694	5089	3031	3826	4576	5294	7379
	75/65	1318	1625	1923	2218	3112	1719	2153	2566	2961	4074	2428	3066	3670	4247	5883
	70/55	1088	1340	1585	1827	2555	1418	1775	2114	2438	3352	1998	2525	3023	3501	4822
	55/45	729	897	1059	1219	1694	949	1187	1412	1627	2232	1332	1685	2019	2340	3187
1800	90/70	1845	2277	2697	3113	4384	2409	3019	3599	4155	5725	3410	4304	5148	5956	8302
	75/65	1483	1828	2164	2495	3501	1934	2422	2887	3331	4584	2731	3449	4128	4778	6618
	70/55	1224	1508	1783	2055	2874	1595	1997	2378	2743	3771	2248	2840	3401	3938	5425
	55/45	820	1009	1192	1372	1906	1068	1336	1589	1831	2511	1498	1895	2271	2633	3585
2000	90/70	2050	2530	2997	3459	4871	2677	3354	3999	4617	6362	3789	4783	5720	6617	9224
	75/65	1647	2031	2404	2773	3890	2149	2692	3207	3701	5093	3035	3833	4587	5309	7354
	70/55	1360	1675	1981	2284	3194	1772	2219	2643	3048	4190	2498	3156	3779	4376	6028
	55/45	911	1121	1324	1524	2118	1187	1484	1766	2034	2790	1665	2106	2524	2925	3983
2300	90/70	2358	2909	3446	3978	5601	3078	3857	4599	5310	7316	4357	5500	6579	7610	10608
	75/65	1894	2336	2765	3189	4474	2471	3095	3688	4256	5857	3490	4408	5275	6105	8457
	70/55	1563	1926	2278	2626	3673	2038	2552	3039	3505	4818	2873	3629	4346	5032	6932
	55/45	1048	1289	1523	1753	2435	1365	1707	2030	2339	3209	1915	2421	2902	3364	4581
2600	90/70	2665	3289	3896	4497	6332	3479	4360	5199	6002	8270	4926	6217	7437	8603	11992
	75/65	2142	2641	3125	3604	5057	2794	3499	4170	4811	6621	3945	4983	5963	6902	9560
	70/55	1767	2178	2576	2969	4152	2304	2885	3436	3962	5447	3247	4103	4913	5689	7836
	55/45	1185	1458	1722	1981	2753	1542	1929	2295	2644	3627	2164	2737	3281	3803	5178
3000	90/70	3075	3795	4495	5189	7306	4015	5031	5999	6925	9542	5683	7174	8581	9926	13836
	75/65	2471	3047	3606	4159	5835	3223	4037	4811	5551	7639	4552	5749	6880	7964	11031
	70/55	2039	2513	2972	3425	4791	2659	3328	3964	4572	6285	3747	4734	5668	6564	9041
	55/45	1367	1682	1986	2286	3177	1780	2226	2648	3051	4185	2497	3158	3786	4388	5975



RADIK® PLAN KLASIK, PLAN VK, PLAN VKL

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 PLAN Type 10 PLAN VK Type 10 PLAN VKL					Type 11 PLAN Type 11 PLAN VK Type 11 PLAN VKL					Type 20 PLAN Type 20 PLAN VK Type 20 PLAN VKL				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	155	197	237	277	399	269	342	412	480	678	268	332	394	456	645
	75/65	122	156	188	220	315	213	271	327	381	535	212	263	312	361	509
	70/55	99	126	153	179	255	173	221	266	310	433	172	213	253	293	412
	55/45	62	80	98	115	162	112	142	171	199	275	110	137	162	188	262
500	90/70	194	246	297	346	499	336	427	515	600	848	335	415	493	570	806
	75/65	153	195	235	275	394	267	339	409	477	669	265	329	390	452	637
	70/55	123	158	191	224	319	217	276	333	388	541	215	267	317	367	515
	55/45	78	100	122	144	203	139	177	214	249	344	138	171	203	235	328
600	90/70	233	296	356	416	598	403	513	618	721	1017	402	498	591	684	968
	75/65	183	233	282	330	472	320	407	491	572	802	318	394	468	542	764
	70/55	148	189	229	269	382	260	331	399	465	649	258	320	380	440	619
	55/45	93	120	147	173	243	167	213	257	299	413	165	205	243	282	394
700	90/70	271	345	416	485	698	470	598	722	841	1187	469	581	690	798	1129
	75/65	214	272	329	385	551	373	475	573	667	936	371	460	546	632	891
	70/55	172	221	267	313	446	304	386	466	543	757	301	374	443	513	722
	55/45	109	140	171	202	284	195	248	300	349	481	193	239	284	329	459
800	90/70	310	394	475	554	798	537	684	825	961	1356	535	664	788	912	1290
	75/65	244	311	376	440	630	426	542	654	762	1070	424	526	624	722	1018
	70/55	197	252	305	358	510	347	441	533	620	866	344	427	507	587	825
	55/45	125	160	195	231	324	223	284	342	399	550	220	273	324	376	525
900	90/70	349	444	534	623	897	604	769	928	1081	1526	602	747	887	1026	1452
	75/65	275	350	423	495	708	480	610	736	858	1203	477	591	702	813	1146
	70/55	222	284	343	403	574	390	497	599	698	974	387	480	570	660	928
	55/45	140	180	220	259	365	251	319	385	449	619	248	307	365	423	590
1000	90/70	388	493	594	693	997	672	854	1031	1201	1695	669	830	985	1140	1613
	75/65	305	389	470	550	787	533	678	818	953	1337	530	657	780	903	1273
	70/55	246	315	382	448	637	434	552	666	776	1082	430	534	633	733	1031
	55/45	156	200	244	288	406	279	355	428	499	688	276	342	406	470	656
1100	90/70	426	542	653	762	1097	739	940	1134	1321	1865	736	913	1084	1254	1774
	75/65	336	428	517	605	866	586	746	900	1048	1471	583	723	858	993	1400
	70/55	271	347	420	493	701	477	607	732	853	1190	473	587	697	807	1134
	55/45	171	220	269	317	446	307	390	471	548	756	303	376	446	517	722
1200	90/70	465	591	712	831	1197	806	1025	1237	1441	2034	803	996	1182	1368	1935
	75/65	366	467	564	660	944	640	814	982	1144	1604	636	788	936	1084	1528
	70/55	296	378	458	537	765	520	662	799	931	1299	517	640	760	880	1237
	55/45	187	241	293	346	487	335	426	514	598	825	331	410	487	564	787
1400	90/70	543	690	831	970	1396	940	1196	1443	1681	2373	937	1162	1379	1596	2258
	75/65	427	545	658	770	1102	746	949	1145	1334	1872	742	920	1092	1264	1782
	70/55	345	441	534	627	892	607	772	932	1086	1515	603	747	887	1027	1443
	55/45	218	281	342	404	568	390	497	599	698	963	386	478	568	657	918
1600	90/70	620	789	950	1108	1595	1075	1367	1649	1921	2712	1071	1328	1576	1825	2581
	75/65	488	622	752	880	1259	853	1085	1309	1525	2139	848	1051	1248	1445	2037
	70/55	394	504	611	717	1020	694	883	1065	1241	1731	689	854	1014	1173	1649
	55/45	249	321	391	461	649	446	568	685	798	1100	441	547	649	751	1050
1800	90/70	698	887	1069	1247	1795	1209	1538	1855	2162	3051	1205	1494	1773	2053	2903
	75/65	549	700	846	990	1417	959	1220	1472	1715	2407	954	1183	1404	1625	2291
	70/55	443	567	687	806	1147	781	993	1198	1396	1948	775	960	1140	1320	1856
	55/45	280	361	440	519	730	502	638	770	897	1238	496	615	730	845	1181
2000	90/70	775	986	1187	1385	1994	1343	1709	2062	2402	3390	1339	1659	1970	2281	3226
	75/65	610	778	940	1100	1574	1066	1356	1636	1906	2674	1060	1314	1560	1806	2546
	70/55	493	630	763	896	1275	867	1103	1331	1551	2164	861	1067	1267	1467	2062
	55/45	312	401	489	577	811	558	709	856	997	1375	551	683	811	939	1312
2300	90/70	892	1134	1365	1593	2293	1545	1965	2371	2762	3899	1540	1908	2266	2623	3710
	75/65	702	895	1081	1265	1810	1226	1559	1881	2192	3075	1219	1511	1794	2077	2928
	70/55	567	725	878	1030	1466	998	1269	1531	1784	2489	990	1227	1457	1687	2371
	55/45	358	461	562	663	933	641	816	984	1147	1582	634	786	933	1080	1509
2600	90/70	1008	1281	1544	1801	2592	1746	2221	2680	3122	4407	1740	2157	2561	2965	4193
	75/65	793	1011	1222	1430	2046	1386	1763	2127	2478	3476	1378	1708	2028	2348	3310
	70/55	640	819	992	1164	1657	1128	1434	1731	2016	2813	1119	1387	1647	1907	2680
	55/45	405	521	635	750	1054	725	922	1113	1296	1788	716	888	1055	1221	1706
3000	90/70	1163	1479	1781	2078	2991	2015	2563	3092	3603	5085	2008	2489	2955	3421	4839
	75/65	915	1167	1410	1650	2361	1599	2034	2454	2859	4011	1590	1971	2340	2709	3819
	70/55	739	945	1145	1344	1912	1301	1655	1997	2327	3246	1291	1601	1900	2200	3093
	55/45	467	601	733	865	1217	837	1064	1284	1496	2063	827	1025	1217	1409	1968



RADIK® PLAN KLASIK, PLAN VK, PLAN VKL

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 PLAN Type 21 PLAN VK Type 21 PLAN VKL					Type 22 PLAN Type 22 PLAN VK Type 22 PLAN VKL					Type 33 PLAN Type 33 PLAN VK Type 33 PLAN VKL				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	369	455	539	622	875	482	604	720	831	1144	681	860	1029	1191	1655
	75/65	291	358	424	489	684	379	475	566	652	897	535	676	809	936	1292
	70/55	235	289	342	394	550	306	383	456	526	723	431	545	652	756	1037
	55/45	149	183	216	249	344	194	242	288	332	454	271	343	412	477	646
500	90/70	462	569	674	778	1093	602	755	900	1038	1430	852	1075	1287	1489	2069
	75/65	364	448	530	611	856	474	594	707	816	1122	669	845	1011	1171	1616
	70/55	294	362	428	493	687	383	479	570	658	903	539	681	816	945	1296
	55/45	186	229	270	311	430	242	303	360	415	568	339	429	515	597	808
600	90/70	554	683	809	933	1312	723	906	1079	1246	1716	1022	1290	1544	1786	2483
	75/65	436	538	636	733	1027	569	712	848	979	1346	802	1013	1213	1405	1939
	70/55	353	434	513	591	825	459	575	685	789	1084	646	817	979	1134	1555
	55/45	223	275	324	373	516	291	363	432	498	682	407	515	618	716	970
700	90/70	646	797	944	1089	1531	843	1056	1259	1453	2001	1192	1505	1801	2084	2896
	75/65	509	627	742	855	1198	664	831	990	1142	1570	936	1182	1415	1639	2262
	70/55	411	507	599	690	962	536	671	799	921	1265	754	953	1142	1323	1814
	55/45	261	320	378	435	602	339	424	504	580	795	475	601	720	836	1131
800	90/70	738	911	1079	1244	1749	964	1207	1439	1661	2287	1363	1720	2058	2382	3310
	75/65	582	717	848	978	1369	758	950	1131	1305	1794	1070	1351	1618	1873	2585
	70/55	470	579	684	788	1100	613	767	913	1052	1445	862	1089	1305	1512	2073
	55/45	298	366	432	497	688	388	484	576	663	909	543	687	823	955	1293
900	90/70	831	1025	1213	1400	1968	1084	1358	1619	1869	2573	1533	1936	2316	2680	3724
	75/65	654	806	954	1100	1540	853	1068	1273	1468	2019	1203	1520	1820	2107	2908
	70/55	529	651	770	887	1237	689	862	1027	1184	1626	970	1226	1468	1700	2333
	55/45	335	412	486	559	774	436	545	648	746	1023	610	772	926	1074	1454
1000	90/70	923	1139	1348	1556	2187	1205	1509	1799	2076	2859	1703	2151	2573	2977	4138
	75/65	727	896	1060	1222	1711	948	1187	1414	1631	2243	1337	1689	2022	2341	3231
	70/55	588	724	855	985	1375	766	958	1141	1315	1807	1077	1362	1631	1889	2592
	55/45	372	458	540	621	861	484	606	720	829	1136	678	858	1029	1194	1616
1100	90/70	1015	1253	1483	1711	2405	1325	1660	1979	2284	3145	1874	2366	2830	3275	4551
	75/65	800	986	1166	1344	1882	1043	1306	1555	1794	2467	1471	1858	2224	2575	3554
	70/55	646	796	941	1084	1512	842	1054	1255	1447	1987	1185	1498	1794	2078	2851
	55/45	410	504	594	684	947	533	666	792	912	1250	746	944	1132	1313	1777
1200	90/70	1108	1366	1618	1867	2624	1446	1811	2159	2492	3431	2044	2581	3088	3573	4965
	75/65	872	1075	1272	1466	2053	1138	1424	1697	1957	2692	1604	2027	2426	2809	3877
	70/55	705	868	1027	1183	1650	919	1150	1369	1578	2168	1293	1634	1957	2267	3110
	55/45	447	549	648	746	1033	581	727	864	995	1363	814	1030	1235	1432	1939
1400	90/70	1292	1594	1888	2178	3061	1687	2113	2519	2907	4003	2385	3011	3602	4168	5793
	75/65	1018	1254	1484	1711	2395	1327	1662	1980	2283	3140	1872	2365	2831	3277	4523
	70/55	823	1013	1198	1380	1925	1072	1342	1597	1841	2529	1508	1906	2284	2645	3628
	55/45	521	641	756	870	1205	678	848	1008	1161	1591	950	1202	1441	1671	2262
1600	90/70	1477	1822	2157	2489	3499	1927	2415	2878	3322	4575	2725	3441	4117	4764	6620
	75/65	1163	1434	1696	1955	2738	1517	1899	2262	2610	3589	2139	2702	3235	3746	5170
	70/55	940	1158	1369	1577	2200	1225	1533	1825	2104	2891	1724	2179	2610	3023	4147
	55/45	596	733	864	994	1377	775	969	1152	1327	1818	1085	1373	1647	1910	2585
1800	90/70	1662	2050	2427	2800	3936	2168	2717	3238	3737	5147	3066	3871	4632	5359	7448
	75/65	1309	1613	1908	2200	3080	1706	2137	2545	2936	4037	2407	3040	3640	4214	5816
	70/55	1058	1303	1540	1774	2475	1378	1725	2054	2367	3252	1939	2451	2936	3401	4665
	55/45	670	824	973	1119	1549	872	1090	1296	1493	2045	1221	1545	1853	2148	2909
2000	90/70	1846	2277	2696	3111	4373	2409	3019	3598	4153	5718	3407	4301	5146	5955	8275
	75/65	1454	1792	2120	2444	3422	1896	2374	2828	3262	4486	2674	3378	4044	4682	6462
	70/55	1175	1447	1711	1971	2750	1531	1916	2282	2630	3613	2155	2723	3262	3779	5184
	55/45	745	916	1081	1243	1721	969	1211	1440	1659	2272	1357	1717	2058	2387	3232
2300	90/70	2123	2619	3101	3578	5029	2771	3471	4138	4776	6576	3918	4946	5918	6848	9516
	75/65	1672	2061	2438	2811	3935	2180	2730	3252	3751	5159	3075	3885	4651	5384	7431
	70/55	1351	1664	1968	2267	3162	1761	2204	2624	3025	4155	2478	3132	3752	4346	5961
	55/45	856	1053	1243	1429	1979	1114	1393	1656	1907	2613	1560	1974	2367	2745	3716
2600	90/70	2400	2961	3505	4045	5685	3132	3924	4677	5398	7434	4429	5592	6690	7741	10758
	75/65	1890	2330	2756	3177	4449	2465	3086	3676	4241	5832	3476	4391	5257	6087	8401
	70/55	1528	1881	2224	2562	3575	1991	2491	2966	3420	4697	2801	3541	4241	4912	6739
	55/45	968	1190	1405	1616	2237	1260	1575	1872	2156	2954	1764	2232	2676	3103	4201
3000	90/70	2769	3416	4045	4667	6560	3614	4528	5397	6229	8578	5110	6452	7719	8932	12413
	75/65	2181	2688	3180	3666	5133	2844	3561	4242	4893	6729	4011	5067	6066	7023	9693
	70/55	1763	2171	2566	2956	4125	2297	2875	3423	3946	5420	3232	4085	4893	5668	7775
	55/45	1117	1373	1621	1864	2582	1453	1817	2160	2488	3409	2035	2575	3088	3581	4848



RADIK® PLAN KLASIK, PLAN VK, PLAN VKL

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		Type 10 PLAN Type 10 PLAN VK Type 10 PLAN VKL					Type 11 PLAN Type 11 PLAN VK Type 11 PLAN VKL					Type 20 PLAN Type 20 PLAN VK Type 20 PLAN VKL				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	148	189	227	265	382	257	327	395	460	649	256	318	377	437	617
	75/65	116	148	178	209	299	202	258	311	362	507	201	249	296	343	483
	70/55	92	118	144	169	239	163	208	250	292	407	162	201	238	276	387
500	55/45	57	73	89	106	148	102	130	157	183	251	101	125	149	172	240
	90/70	185	236	284	332	477	322	409	494	575	811	320	397	472	546	772
	75/65	145	184	223	261	373	253	322	388	452	634	252	312	370	429	604
600	70/55	116	148	179	211	299	204	259	313	365	508	202	251	298	345	484
	55/45	71	92	112	132	185	128	162	196	228	314	126	156	186	215	300
	90/70	222	283	341	398	573	386	491	592	690	973	385	477	566	655	926
700	75/65	173	221	268	313	448	304	386	466	543	761	302	374	444	514	724
	70/55	139	178	215	253	359	245	311	376	438	610	243	301	357	414	581
	55/45	85	110	134	159	222	153	195	235	274	377	151	188	223	258	360
800	90/70	260	330	398	464	668	450	573	691	805	1135	449	556	660	764	1080
	75/65	202	258	312	366	522	354	451	544	633	887	352	436	518	600	845
	70/55	162	207	251	295	419	286	363	438	511	711	283	351	417	483	678
900	55/45	100	128	157	185	260	179	227	274	320	440	177	219	260	301	420
	90/70	297	377	455	531	763	515	655	790	920	1298	513	636	755	874	1235
	75/65	231	295	357	418	597	405	515	621	724	1014	402	499	592	686	966
1000	70/55	185	237	287	337	479	326	415	501	584	813	324	401	476	552	775
	55/45	114	147	179	211	297	204	260	314	365	503	202	250	297	344	480
	90/70	334	424	512	597	859	579	737	889	1035	1460	577	715	849	983	1389
1100	75/65	260	332	401	470	672	455	579	699	814	1141	453	561	666	771	1087
	70/55	208	266	323	379	539	367	467	564	657	915	364	451	536	621	872
	55/45	128	165	201	238	334	230	292	353	411	566	227	281	334	387	540
1200	90/70	371	472	568	664	954	643	818	987	1150	1622	641	794	943	1092	1543
	75/65	289	369	446	522	746	506	644	777	905	1268	503	624	740	857	1207
	70/55	231	296	359	421	599	408	519	626	730	1016	405	502	596	690	968
1300	55/45	142	183	224	264	371	255	325	392	457	629	252	313	371	430	600
	90/70	408	519	625	730	1050	708	900	1086	1265	1784	705	874	1038	1201	1698
	75/65	318	406	491	575	821	557	708	854	995	1395	553	686	814	943	1328
1400	70/55	254	325	395	463	659	449	571	689	802	1118	445	552	655	758	1065
	55/45	157	202	246	291	408	281	357	431	503	691	277	344	408	473	660
	90/70	445	566	682	796	1145	772	982	1185	1380	1946	769	953	1132	1310	1852
1500	75/65	347	443	535	627	896	607	773	932	1086	1521	604	748	888	1028	1449
	70/55	277	355	431	506	718	490	623	751	875	1220	486	602	715	827	1162
	55/45	171	220	268	317	445	307	390	471	548	754	303	375	446	516	720
1600	90/70	519	660	796	929	1336	901	1146	1382	1611	2271	897	1112	1320	1529	2161
	75/65	405	516	624	731	1045	709	901	1087	1267	1775	704	873	1036	1200	1690
	70/55	324	414	502	590	838	571	727	877	1021	1423	567	702	834	965	1356
1700	55/45	199	257	313	370	519	358	455	549	640	880	353	438	520	602	840
	90/70	593	755	910	1062	1527	1029	1309	1580	1841	2595	1025	1271	1509	1747	2469
	75/65	462	590	714	836	1194	810	1030	1243	1448	2029	805	998	1184	1371	1932
1800	70/55	370	473	574	674	958	653	830	1002	1167	1626	647	803	953	1103	1549
	55/45	228	293	358	423	593	409	520	627	731	1006	404	500	594	688	960
	90/70	667	849	1023	1194	1718	1158	1473	1777	2071	2919	1154	1430	1698	1965	2778
1900	75/65	520	664	803	940	1343	911	1159	1398	1629	2282	905	1122	1333	1543	2173
	70/55	416	533	646	758	1078	734	934	1127	1313	1829	728	903	1072	1241	1743
	55/45	256	330	402	476	667	460	585	706	822	1132	454	563	668	774	1080
2000	90/70	741	943	1137	1327	1908	1287	1637	1975	2301	3244	1282	1589	1886	2184	3087
	75/65	578	738	892	1045	1493	1012	1288	1553	1810	2536	1006	1247	1481	1714	2415
	70/55	462	592	718	843	1197	816	1038	1252	1459	2033	809	1003	1191	1379	1937
2100	55/45	285	367	447	528	742	511	650	784	914	1257	505	625	743	860	1200
	90/70	853	1085	1307	1526	2195	1480	1882	2271	2646	3730	1474	1827	2169	2511	3550
	75/65	665	849	1026	1201	1717	1164	1481	1786	2081	2916	1157	1434	1703	1971	2777
2200	70/55	532	681	825	969	1377	938	1194	1440	1678	2338	931	1154	1370	1586	2227
	55/45	327	422	514	608	853	588	747	902	1051	1446	580	719	854	989	1380
	90/70	964	1226	1478	1725	2481	1673	2128	2567	2991	4217	1666	2066	2452	2839	4013
2300	75/65	752	959	1160	1358	1941	1316	1674	2019	2353	3296	1308	1621	1925	2228	3139
	70/55	601	769	933	1096	1557	1061	1349	1628	1897	2642	1052	1304	1549	1793	2518
	55/45	370	476	581	687	964	664	845	1019	1188	1634	656	813	965	1118	1560
2400	90/70	1112	1415	1705	1991	2863	1930	2455	2962	3451	4866	1923	2383	2830	3276	4630
	75/65	867	1107	1338	1567	2239	1518	1931	2330	2715	3803	1509	1871	2221	2571	3622
	70/55	694	888	1076	1264	1796	1224	1557	1879	2189	3049	1214	1505	1787	2069	2905
2500	55/45	427	550	671	793	1112	766	975	1176	1370	1886	757	938	1114	1290	1799



RADIK® PLAN KLASIK, PLAN VK, PLAN VKL

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		Type 21 PLAN Type 21 PLAN VK Type 21 PLAN VKL					Type 22 PLAN Type 22 PLAN VK Type 22 PLAN VKL					Type 33 PLAN Type 33 PLAN VK Type 33 PLAN VKL				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	353	436	516	595	836	461	577	688	794	1093	651	822	984	1139	1581
	75/65	276	340	402	463	648	359	450	536	618	850	507	640	766	887	1223
	70/55	221	272	321	370	515	287	360	428	494	678	404	511	612	709	971
	55/45	136	167	197	227	314	177	221	263	303	415	248	313	376	436	589
500	90/70	442	545	645	744	1045	576	722	860	993	1367	814	1028	1230	1424	1976
	75/65	345	425	502	579	810	449	562	670	773	1062	633	800	958	1109	1528
	70/55	276	340	401	462	644	359	450	535	617	847	505	639	765	887	1214
	55/45	170	209	247	284	392	221	276	329	378	518	309	392	470	545	736
600	90/70	530	653	774	892	1254	691	866	1032	1191	1640	977	1234	1476	1708	2371
	75/65	413	510	603	695	972	539	675	804	927	1275	760	960	1149	1331	1834
	70/55	331	408	482	555	773	431	540	642	740	1017	606	766	918	1064	1457
	55/45	204	251	296	340	471	265	332	394	454	622	371	470	564	654	883
700	90/70	618	762	902	1041	1462	807	1010	1204	1390	1913	1140	1439	1722	1993	2766
	75/65	482	594	703	810	1134	629	787	938	1082	1487	886	1120	1341	1553	2140
	70/55	386	475	562	647	902	503	629	749	864	1186	707	894	1071	1241	1699
	55/45	238	293	345	397	549	310	387	460	530	726	433	548	658	763	1030
800	90/70	706	871	1031	1190	1671	922	1155	1376	1588	2186	1303	1645	1968	2278	3161
	75/65	551	679	804	926	1296	719	900	1072	1236	1699	1013	1280	1533	1775	2446
	70/55	441	543	642	740	1031	575	719	856	987	1355	808	1022	1224	1418	1942
	55/45	272	334	395	454	627	354	442	526	606	829	495	627	752	872	1177
900	90/70	795	980	1160	1339	1880	1037	1299	1548	1787	2460	1466	1851	2214	2562	3556
	75/65	620	764	904	1042	1458	809	1012	1206	1391	1912	1140	1440	1724	1996	2751
	70/55	496	611	722	832	1160	647	809	963	1111	1525	910	1150	1377	1596	2185
	55/45	306	376	444	510	706	398	498	592	681	933	557	705	846	981	1324
1000	90/70	883	1089	1289	1487	2089	1152	1443	1720	1985	2733	1628	2056	2460	2847	3952
	75/65	689	849	1004	1158	1620	898	1125	1340	1545	2124	1266	1600	1916	2218	3057
	70/55	552	679	803	925	1289	719	899	1070	1234	1694	1011	1277	1530	1773	2428
	55/45	340	418	493	567	784	442	553	657	757	1036	619	783	940	1090	1471
1100	90/70	971	1198	1418	1636	2298	1267	1588	1892	2184	3006	1791	2262	2706	3132	4347
	75/65	758	934	1105	1273	1782	988	1237	1474	1700	2337	1393	1760	2107	2440	3363
	70/55	607	747	883	1017	1417	791	989	1178	1357	1864	1112	1405	1683	1950	2670
	55/45	374	460	543	624	863	487	608	723	833	1140	681	862	1033	1199	1619
1200	90/70	1060	1307	1547	1785	2507	1383	1732	2064	2382	3280	1954	2467	2952	3417	4742
	75/65	827	1019	1205	1389	1943	1078	1350	1608	1854	2549	1520	1920	2299	2662	3668
	70/55	662	815	963	1109	1546	862	1079	1285	1481	2033	1213	1533	1836	2128	2913
	55/45	408	502	592	681	941	531	664	789	908	1244	743	940	1127	1308	1766
1400	90/70	1236	1525	1805	2082	2925	1613	2021	2408	2779	3826	2280	2879	3444	3986	5532
	75/65	965	1189	1406	1621	2267	1258	1575	1876	2163	2974	1773	2240	2682	3106	4280
	70/55	772	951	1124	1294	1804	1006	1259	1499	1727	2372	1415	1788	2143	2482	3399
	55/45	476	585	691	794	1098	619	774	920	1060	1451	866	1097	1315	1526	2060
1600	90/70	1413	1742	2063	2380	3343	1843	2309	2752	3176	4373	2605	3290	3936	4555	6323
	75/65	1103	1359	1607	1852	2591	1438	1800	2144	2472	3399	2026	2560	3065	3549	4891
	70/55	883	1087	1284	1479	2062	1150	1439	1713	1974	2711	1617	2044	2449	2837	3884
	55/45	544	669	789	907	1255	708	885	1052	1211	1658	990	1253	1503	1744	2354
1800	90/70	1589	1960	2321	2677	3761	2074	2598	3096	3573	4920	2931	3701	4429	5125	7113
	75/65	1240	1529	1808	2084	2915	1617	2025	2412	2781	3824	2280	2880	3448	3993	5503
	70/55	993	1223	1445	1664	2319	1294	1619	1927	2221	3050	1819	2299	2755	3191	4370
	55/45	612	753	888	1021	1412	796	995	1183	1362	1866	1114	1410	1691	1962	2649
2000	90/70	1766	2178	2579	2975	4178	2304	2887	3440	3970	5466	3257	4112	4921	5694	7903
	75/65	1378	1698	2009	2315	3239	1797	2250	2680	3090	4249	2533	3200	3832	4437	6114
	70/55	1103	1358	1605	1849	2577	1437	1799	2141	2468	3389	2021	2555	3061	3546	4855
	55/45	680	836	987	1134	1568	885	1106	1315	1514	2073	1238	1567	1879	2180	2943
2300	90/70	2031	2505	2965	3421	4805	2650	3320	3957	4566	6286	3745	4729	5659	6548	9089
	75/65	1585	1953	2310	2663	3725	2067	2587	3081	3554	4886	2913	3680	4406	5102	7031
	70/55	1269	1562	1846	2126	2964	1653	2068	2462	2838	3897	2324	2938	3520	4078	5584
	55/45	782	962	1135	1304	1804	1018	1272	1512	1741	2384	1423	1802	2161	2506	3384
2600	90/70	2296	2831	3352	3867	5432	2996	3753	4473	5162	7106	4234	5346	6397	7402	10274
	75/65	1792	2208	2612	3010	4211	2336	2925	3483	4017	5523	3293	4160	4981	5768	7948
	70/55	1434	1766	2087	2404	3350	1869	2338	2783	3208	4405	2627	3321	3979	4610	6312
	55/45	884	1087	1283	1475	2039	1150	1438	1709	1968	2695	1609	2037	2443	2833	3826
3000	90/70	2649	3267	3868	4462	6268	3456	4330	5161	5956	8199	4885	6168	7381	8541	11855
	75/65	2067	2548	3013	3473	4859	2695	3375	4019	4636	6373	3799	4800	5747	6655	9171
	70/55	1655	2038	2408	2774	3866	2156	2698	3211	3702	5083	3032	3832	4591	5319	7283
	55/45	1021	1254	1480	1701	2353	1327	1659	1972	2271	3109	1857	2350	2819	3269	4414



RADIK® PLAN VKM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 10 PLAN VKM					Type 11 PLAN VKM					Type 20 PLAN VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	185	236	285	331	461	293	365	434	500	693	327	402	473	541	733
	75/65	151	191	231	269	375	239	297	353	406	559	266	326	384	439	593
	70/55	124	157	190	221	309	197	245	290	334	457	218	268	315	360	486
500	55/45	84	106	128	149	210	135	167	197	226	306	148	181	213	243	326
	90/70	232	295	357	414	576	367	456	542	625	866	409	502	591	676	916
	75/65	188	239	289	336	469	299	372	441	507	699	332	408	480	548	741
600	70/55	155	197	237	276	387	247	306	363	417	571	273	335	394	450	607
	55/45	105	133	160	186	263	168	208	246	282	382	185	227	266	304	407
	90/70	278	354	428	497	692	440	548	651	750	1039	490	603	709	811	1100
700	75/65	226	287	347	403	563	359	446	529	609	839	398	489	576	658	889
	70/55	186	236	284	331	464	296	368	435	501	685	328	402	473	541	728
	55/45	126	160	192	223	316	202	250	295	339	458	222	272	320	365	489
800	90/70	324	413	499	579	807	514	639	759	875	1212	572	703	828	946	1283
	75/65	264	335	404	470	657	419	520	617	710	978	465	571	672	768	1038
	70/55	217	275	332	386	542	346	429	508	584	800	382	469	552	631	850
900	55/45	147	186	223	261	368	236	292	345	395	535	259	318	373	426	570
	90/70	371	471	570	662	922	587	730	867	1000	1386	654	804	946	1082	1466
	75/65	301	383	462	537	751	479	595	705	812	1118	531	653	768	877	1186
1000	70/55	248	315	379	441	619	395	490	581	667	914	437	536	631	721	971
	55/45	168	213	255	298	421	269	333	394	452	611	296	363	426	487	652
	90/70	417	530	642	745	1038	660	821	976	1125	1559	735	904	1064	1217	1649
1100	75/65	339	431	520	604	845	538	669	794	913	1258	597	734	864	987	1334
	70/55	279	354	427	496	696	444	551	653	751	1028	491	604	710	811	1092
	55/45	189	240	287	335	473	303	375	443	508	687	333	408	480	548	733
1200	90/70	464	589	713	828	1153	734	913	1084	1249	1732	817	1004	1182	1352	1833
	75/65	377	479	578	671	939	598	743	882	1015	1398	664	816	960	1097	1482
	70/55	310	393	474	551	774	494	613	726	834	1142	546	671	789	901	1214
1300	55/45	210	266	319	372	526	336	416	492	564	764	370	454	533	608	815
	90/70	510	648	784	910	1268	807	1004	1193	1374	1905	899	1105	1301	1487	2016
	75/65	414	526	636	738	1032	658	818	970	1116	1538	730	897	1056	1207	1630
1400	70/55	341	433	521	606	851	543	674	798	918	1257	601	738	867	991	1335
	55/45	231	293	351	409	579	370	458	542	621	840	407	499	586	669	896
	90/70	556	707	856	993	1383	880	1095	1301	1499	2078	981	1205	1419	1622	2199
1500	75/65	452	574	693	806	1126	718	892	1058	1218	1677	797	979	1152	1316	1779
	70/55	372	472	569	662	928	592	735	871	1001	1371	655	805	946	1081	1457
	55/45	252	319	383	447	631	404	500	591	677	917	444	544	640	730	978
1600	90/70	649	825	998	1159	1614	1027	1278	1518	1749	2425	1144	1406	1655	1893	2566
	75/65	527	670	809	940	1314	837	1040	1234	1421	1957	929	1142	1343	1536	2075
	70/55	434	551	664	772	1083	691	858	1016	1168	1599	764	939	1104	1261	1699
1700	55/45	294	373	447	521	736	471	583	689	790	1069	518	635	746	852	1141
	90/70	742	943	1141	1324	1845	1174	1460	1735	1999	2771	1307	1607	1892	2163	2932
	75/65	603	766	924	1074	1502	957	1189	1411	1624	2236	1062	1305	1535	1755	2371
1800	70/55	496	629	758	882	1238	790	980	1161	1335	1828	874	1073	1262	1442	1942
	55/45	336	426	511	596	841	538	666	788	903	1222	592	726	853	973	1304
	90/70	834	1061	1284	1490	2075	1321	1643	1952	2249	3118	1471	1808	2128	2434	3299
1900	75/65	678	861	1040	1208	1690	1077	1338	1587	1826	2516	1195	1468	1727	1974	2668
	70/55	558	708	853	992	1392	889	1103	1306	1502	2056	983	1207	1419	1622	2185
	55/45	378	479	575	670	947	606	750	886	1016	1375	665	817	959	1095	1467
2000	90/70	927	1179	1426	1655	2306	1467	1826	2168	2499	3464	1634	2009	2365	2704	3665
	75/65	753	957	1155	1343	1877	1196	1486	1763	2029	2796	1328	1631	1919	2194	2964
	70/55	620	787	948	1103	1547	987	1225	1452	1669	2285	1092	1341	1577	1802	2428
2100	55/45	419	532	639	744	1052	673	833	985	1129	1528	739	907	1066	1217	1630
	90/70	1066	1355	1640	1903	2652	1687	2099	2494	2874	3984	1880	2310	2719	3110	4215
	75/65	866	1101	1329	1544	2159	1376	1709	2028	2334	3215	1527	1876	2207	2523	3409
2200	70/55	712	905	1090	1268	1779	1135	1409	1669	1919	2628	1256	1542	1814	2072	2792
	55/45	482	612	734	856	1210	774	958	1132	1298	1757	850	1043	1226	1399	1874
	90/70	1205	1532	1854	2152	2997	1908	2373	2819	3249	4503	2125	2612	3074	3515	4765
2300	75/65	979	1244	1502	1745	2440	1555	1932	2292	2638	3634	1726	2121	2495	2852	3854
	70/55	805	1023	1232	1433	2011	1283	1593	1887	2169	2970	1420	1744	2050	2342	3156
	55/45	545	692	830	968	1367	875	1083	1280	1468	1986	961	1179	1386	1582	2119
2400	90/70	1391	1768	2139	2483	3459	2201	2738	3253	3748	5196	2452	3013	3547	4056	5498
	75/65	1130	1436	1733	2014	2816	1794	2230	2645	3044	4193	1992	2447	2879	3291	4447
	70/55	929	1180	1422	1654	2321	1481	1838	2177	2503	3427	1638	2012	2366	2703	3642
2500	55/45	629	798	958	1117	1578	1009	1249	1477	1693	2292	1109	1361	1599	1825	2445



RADIK® PLAN VKM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 21 PLAN VKM					Type 22 PLAN VKM					Type 33 PLAN VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	403	507	604	693	917	509	651	785	912	1254					
	75/65	326	410	487	558	737	414	528	635	736	1008					
	70/55	268	336	398	455	599	340	433	520	602	821					
	55/45	180	225	266	303	397	230	292	349	402	545					
500	90/70	504	634	755	866	1147	637	814	982	1140	1568					
	75/65	408	513	609	697	921	517	660	794	920	1260	759	1188	1421	1644	2292
	70/55	335	420	497	568	749	425	541	650	752	1026	620	784	938	1087	1497
	55/45	225	282	332	378	496	288	365	436	503	681	414	524	628	728	991
600	90/70	604	761	905	1039	1376	764	977	1178	1368	1882	1130	1426	1706	1973	2750
	75/65	489	615	730	836	1105	620	792	953	1104	1513	911	1151	1377	1594	2208
	70/55	401	504	597	682	899	510	650	780	903	1232	744	940	1126	1304	1796
	55/45	270	338	399	454	595	345	438	524	604	817	497	629	754	874	1189
700	90/70	705	888	1056	1212	1605	891	1140	1374	1596	2195	1318	1664	1990	2302	3208
	75/65	571	718	852	976	1289	724	924	1111	1288	1765	1063	1343	1607	1860	2576
	70/55	468	588	696	796	1049	595	758	910	1053	1437	868	1097	1314	1521	2095
	55/45	315	394	465	530	695	403	511	611	704	954	580	734	879	1019	1388
800	90/70	806	1015	1207	1385	1834	1019	1303	1571	1824	2509	1506	1901	2274	2631	3667
	75/65	653	820	974	1115	1473	827	1056	1270	1472	2017	1215	1534	1836	2125	2944
	70/55	535	672	796	910	1198	680	866	1040	1204	1642	992	1254	1501	1739	2395
	55/45	360	450	532	605	794	460	584	698	805	1090	663	838	1005	1165	1586
900	90/70	906	1142	1358	1558	2064	1146	1465	1767	2052	2823	1695	2139	2559	2960	4125
	75/65	734	923	1096	1255	1657	931	1188	1429	1656	2269	1367	1726	2066	2391	3312
	70/55	602	756	895	1023	1348	765	974	1170	1354	1848	1117	1411	1689	1956	2694
	55/45	405	507	598	681	893	518	657	786	905	1226	746	943	1130	1310	1784
1000	90/70	1007	1269	1509	1731	2293	1273	1628	1963	2281	3136	1883	2377	2843	3289	4583
	75/65	816	1025	1217	1394	1841	1034	1320	1588	1841	2521	1519	1918	2295	2657	3680
	70/55	669	839	995	1137	1498	850	1083	1300	1504	2053	1241	1567	1877	2173	2993
	55/45	450	563	665	757	992	575	730	873	1006	1362	829	1048	1256	1456	1982
1100	90/70	1108	1395	1660	1905	2522	1401	1791	2159	2509	3450	2071	2614	3127	3617	5042
	75/65	897	1128	1339	1533	2026	1137	1451	1746	2025	2773	1671	2110	2525	2922	4048
	70/55	736	923	1094	1251	1648	935	1191	1430	1655	2258	1365	1724	2065	2391	3293
	55/45	496	619	731	832	1092	633	803	960	1107	1499	911	1153	1382	1601	2180
1200	90/70	1208	1522	1811	2078	2752	1528	1954	2356	2737	3763	2259	2852	3411	3946	5500
	75/65	979	1231	1461	1673	2210	1241	1583	1905	2209	3025	1822	2301	2754	3188	4416
	70/55	803	1007	1194	1364	1798	1020	1299	1560	1805	2463	1489	1881	2252	2608	3592
	55/45	541	676	798	908	1191	690	876	1047	1207	1635	994	1258	1507	1747	2379
1400	90/70	1410	1776	2113	2424	3210	1783	2280	2748	3193	4391	2636	3327	3980	4604	6417
	75/65	1142	1436	1704	1952	2578	1448	1847	2223	2577	3529	2126	2685	3213	3719	5152
	70/55	937	1175	1393	1592	2097	1190	1516	1820	2106	2874	1737	2194	2628	3043	4191
	55/45	631	788	931	1060	1389	805	1022	1222	1408	1907	1160	1467	1758	2038	2775
1600	90/70	1611	2030	2415	2770	3669	2037	2605	3141	3649	5018	3013	3803	4549	5262	7333
	75/65	1305	1641	1948	2230	2946	1654	2111	2540	2945	4034	2430	3069	3672	4250	5888
	70/55	1071	1343	1592	1819	2397	1360	1732	2080	2407	3285	1985	2508	3003	3477	4789
	55/45	721	901	1064	1211	1588	920	1167	1397	1610	2180	1326	1677	2010	2329	3171
1800	90/70	1813	2283	2716	3117	4128	2292	2931	3534	4105	5645	3389	4278	5117	5919	8250
	75/65	1468	1846	2191	2509	3315	1861	2375	2858	3313	4538	2734	3452	4131	4782	6624
	70/55	1204	1511	1791	2046	2697	1530	1949	2340	2708	3695	2233	2821	3378	3912	5388
	55/45	811	1014	1197	1362	1786	1035	1313	1571	1811	2452	1491	1886	2261	2621	3568
2000	90/70	2014	2537	3018	3463	4586	2547	3257	3926	4561	6272	3766	4753	5686	6577	9167
	75/65	1631	2051	2435	2788	3683	2068	2639	3175	3681	5042	3037	3836	4591	5313	7360
	70/55	1338	1679	1990	2274	2996	1700	2166	2601	3009	4106	2481	3135	3754	4347	5986
	55/45	901	1126	1329	1514	1985	1150	1459	1746	2012	2725	1657	2096	2512	2912	3964
2300	90/70	2316	2918	3471	3982	5274	2929	3745	4515	5245	7213	4331	5466	6538	7564	10542
	75/65	1876	2358	2800	3206	4235	2378	3035	3652	4233	5798	3493	4411	5279	6110	8464
	70/55	1539	1931	2288	2615	3446	1955	2490	2991	3460	4722	2853	3605	4317	4999	6884
	55/45	1036	1295	1529	1741	2283	1323	1678	2008	2314	3134	1906	2410	2889	3348	4559
2600	90/70	2618	3298	3924	4502	5962	3311	4234	5104	5929	8154	4896	6179	7391	8550	11917
	75/65	2121	2666	3165	3624	4788	2688	3431	4128	4785	6555	3948	4986	5968	6907	9568
	70/55	1740	2183	2586	2956	3895	2210	2815	3381	3912	5337	3226	4075	4880	5651	7782
	55/45	1171	1464	1728	1968	2580	1495	1897	2269	2616	3542	2154	2725	3266	3785	5154
3000	90/70	3021	3806	4527	5194	6879	3820	4885	5889	6842	9409	5649	7130	8528	9866	13750
	75/65	2447	3076	3652	4182	5524	3102	3959	4763	5522	7563	4556	5754	6886	7970	11040
	70/55	2007	2518	2984	3411	4494	2550	3248	3901	4513	6159	3722	4702	5631	6520	8980
	55/45	1351	1689	1994	2270	2977	1725	2189	2619	3018	4087	2486	3144	3768	4368	5947



RADIK® PLAN VKM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 PLAN VKM					Type 11 PLAN VKM					Type 20 PLAN VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	167	212	257	298	416	265	329	391	450	622	294	362	426	487	659
	75/65	133	169	204	237	332	212	263	312	359	492	235	288	339	388	523
	70/55	107	136	164	190	268	171	212	251	288	393	189	232	273	311	418
	55/45	69	87	104	122	172	110	137	161	185	248	121	148	174	199	265
500	90/70	209	265	321	372	520	331	412	489	563	777	368	452	532	608	824
	75/65	167	212	255	297	416	265	329	390	449	616	294	361	424	485	654
	70/55	134	170	205	238	335	214	265	314	361	492	236	290	341	389	523
	55/45	86	109	130	152	216	138	171	201	231	310	151	185	218	248	332
600	90/70	251	318	385	447	624	397	494	586	675	933	442	543	639	730	988
	75/65	200	254	306	356	499	318	395	468	538	739	352	433	509	581	784
	70/55	161	204	245	286	402	257	318	377	433	590	283	348	409	467	628
	55/45	103	131	156	182	259	166	205	242	277	372	181	222	261	298	398
700	90/70	292	371	449	521	728	463	576	684	788	1088	515	633	745	852	1153
	75/65	233	296	357	415	582	371	461	546	628	862	411	505	594	678	915
	70/55	187	238	286	333	469	299	371	440	505	688	330	406	477	545	732
	55/45	120	152	182	213	302	193	239	282	323	434	212	260	305	348	464
800	90/70	334	425	513	596	832	530	658	782	900	1244	589	724	852	974	1318
	75/65	266	338	408	474	665	424	526	624	718	985	470	577	678	775	1046
	70/55	214	272	327	381	536	342	424	502	577	787	378	464	545	623	837
	55/45	137	174	208	243	345	221	273	322	369	497	242	297	348	397	531
900	90/70	376	478	577	670	936	596	741	879	1013	1399	662	814	958	1095	1482
	75/65	300	381	459	534	748	477	592	702	807	1108	528	649	763	872	1176
	70/55	241	306	368	429	603	385	477	565	649	885	425	522	613	700	942
	55/45	154	196	234	274	388	248	307	363	415	559	272	334	392	447	597
1000	90/70	418	531	641	745	1040	662	823	977	1125	1555	736	905	1064	1217	1647
	75/65	333	423	510	593	831	530	658	780	897	1231	587	721	848	969	1307
	70/55	268	340	409	476	670	428	530	628	721	983	472	580	681	778	1046
	55/45	172	218	260	304	431	276	341	403	461	621	302	371	435	497	664
1100	90/70	459	584	706	819	1144	728	905	1075	1238	1710	810	995	1171	1339	1812
	75/65	366	465	561	652	914	583	724	858	987	1354	646	793	933	1066	1438
	70/55	295	374	450	524	737	471	583	691	793	1081	519	638	749	856	1151
	55/45	189	239	286	334	474	304	375	443	508	683	333	408	479	547	730
1200	90/70	501	637	770	894	1247	794	988	1172	1350	1866	883	1085	1277	1460	1976
	75/65	400	508	612	712	997	636	790	936	1076	1477	704	865	1018	1163	1568
	70/55	321	408	491	571	804	513	637	754	865	1180	567	696	818	934	1255
	55/45	206	261	312	365	517	331	410	484	554	745	363	445	523	596	796
1400	90/70	585	743	898	1043	1455	927	1152	1368	1575	2177	1030	1266	1490	1704	2306
	75/65	466	592	714	830	1163	742	921	1092	1256	1723	822	1009	1187	1357	1830
	70/55	375	476	573	667	938	599	743	879	1010	1376	661	811	954	1089	1465
	55/45	240	305	365	426	603	387	478	564	646	869	423	519	610	696	929
1600	90/70	668	849	1026	1192	1663	1059	1317	1563	1800	2488	1178	1447	1703	1947	2635
	75/65	533	677	816	949	1330	848	1053	1248	1435	1970	939	1154	1357	1550	2091
	70/55	429	544	654	762	1072	685	849	1005	1154	1573	755	927	1090	1245	1674
	55/45	274	348	417	486	690	442	546	645	738	993	484	593	697	795	1062
1800	90/70	752	955	1155	1341	1871	1192	1482	1759	2025	2799	1325	1628	1916	2191	2965
	75/65	599	761	918	1067	1496	954	1184	1404	1615	2216	1057	1298	1526	1744	2353
	70/55	482	612	736	857	1206	770	955	1130	1298	1770	850	1043	1226	1401	1883
	55/45	309	392	469	547	776	497	614	725	831	1117	544	667	784	894	1194
2000	90/70	835	1061	1283	1490	2079	1324	1646	1954	2250	3110	1472	1809	2129	2434	3294
	75/65	666	846	1020	1186	1662	1060	1316	1560	1794	2462	1174	1442	1696	1938	2614
	70/55	536	680	818	952	1340	856	1061	1256	1442	1966	944	1159	1363	1556	2092
	55/45	343	435	521	608	862	552	683	806	923	1241	605	742	871	994	1327
2300	90/70	960	1221	1475	1713	2391	1523	1893	2247	2588	3576	1693	2080	2448	2799	3788
	75/65	766	973	1173	1364	1911	1219	1513	1794	2063	2831	1350	1658	1950	2229	3006
	70/55	616	782	941	1095	1541	984	1220	1444	1659	2261	1086	1333	1567	1790	2406
	55/45	395	500	599	699	991	635	785	927	1061	1428	695	853	1002	1143	1526
2600	90/70	1086	1380	1668	1937	2703	1721	2140	2540	2932	4043	1914	2352	2768	3164	4282
	75/65	866	1100	1326	1542	2161	1378	1711	2028	2326	3201	1526	1875	2205	2519	3398
	70/55	696	884	1063	1238	1742	1112	1379	1633	1875	2556	1227	1507	1771	2023	2720
	55/45	446	566	677	790	1121	718	888	1048	1200	1614	786	964	1132	1292	1725
3000	90/70	1253	1592	1924	2234	3119	1986	2469	2931	3376	4665	2208	2714	3193	3651	4941
	75/65	999	1269	1530	1779	2493	1590	1974	2340	2691	3693	1761	2163	2544	2907	3921
	70/55	803	1020	1227	1429	2010	1284	1591	1884	2163	2949	1416	1739	2044	2335	3139
	55/45	515	653	781	912	1293	828	1024	1209	1384	1862	907	1112	1306	1491	1991



RADIK® PLAN VKM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 PLAN VKM					Type 22 PLAN VKM					Type 33 PLAN VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	362	456	542	621	821	459	586	706	819	1124					
	75/65	288	362	429	490	647	366	466	560	648	886					
	70/55	231	289	342	391	514	294	374	448	518	705					
	55/45	147	183	216	245	321	188	238	284	327	441					
500	90/70	453	570	677	776	1027	573	732	882	1024	1405					
	75/65	360	452	536	613	809	457	583	700	811	1108	845	1067	1276	1477	2052
	70/55	289	362	428	488	642	367	467	560	647	881	534	674	808	936	1283
	55/45	184	229	270	307	401	235	298	355	409	551	336	426	511	592	801
600	90/70	543	684	813	932	1232	688	879	1059	1228	1686	1014	1280	1532	1772	2462
	75/65	432	542	643	736	970	548	699	840	973	1329	802	1013	1213	1405	1939
	70/55	346	434	514	586	771	441	561	672	777	1057	640	809	969	1123	1540
	55/45	220	275	324	368	482	282	357	426	491	662	404	511	613	710	962
700	90/70	634	798	948	1087	1437	803	1025	1235	1433	1967	1183	1493	1787	2068	2873
	75/65	504	633	750	858	1132	640	816	980	1135	1551	936	1182	1415	1639	2262
	70/55	404	506	599	684	899	514	654	784	906	1233	747	944	1131	1310	1797
	55/45	257	321	378	429	562	329	417	498	572	772	471	596	715	829	1122
800	90/70	725	912	1084	1242	1643	917	1172	1411	1638	2248	1352	1707	2042	2363	3283
	75/65	576	723	858	981	1294	731	932	1120	1297	1772	1070	1351	1618	1873	2585
	70/55	462	579	685	781	1028	588	748	896	1036	1409	854	1079	1293	1497	2053
	55/45	294	367	432	491	642	376	476	569	654	882	538	681	817	947	1282
900	90/70	815	1026	1219	1397	1848	1032	1318	1588	1843	2529	1521	1920	2297	2658	3694
	75/65	648	814	965	1103	1455	823	1049	1260	1459	1994	1203	1520	1820	2107	2908
	70/55	520	651	770	879	1156	661	841	1009	1165	1586	960	1214	1454	1684	2310
	55/45	331	412	486	552	722	423	536	640	736	993	606	766	919	1066	1442
1000	90/70	906	1140	1355	1553	2053	1147	1465	1764	2047	2810	1690	2134	2553	2954	4104
	75/65	720	904	1072	1226	1617	914	1165	1400	1621	2215	1337	1689	2022	2341	3231
	70/55	577	723	856	977	1285	735	935	1121	1295	1762	1067	1349	1616	1872	2567
	55/45	367	458	540	614	803	470	595	711	818	1103	673	851	1021	1184	1603
1100	90/70	996	1254	1490	1708	2259	1261	1611	1941	2252	3091	1859	2347	2808	3249	4514
	75/65	792	994	1179	1349	1779	1005	1282	1540	1783	2437	1471	1858	2224	2575	3554
	70/55	635	796	941	1074	1413	808	1028	1233	1424	1938	1174	1484	1777	2059	2823
	55/45	404	504	594	675	883	517	655	782	899	1213	740	937	1123	1303	1763
1200	90/70	1087	1368	1625	1863	2464	1376	1758	2117	2457	3372	2028	2560	3063	3544	4925
	75/65	864	1085	1286	1471	1940	1097	1398	1680	1945	2658	1604	2027	2426	2809	3877
	70/55	693	868	1027	1172	1542	882	1121	1345	1554	2114	1281	1619	1939	2246	3080
	55/45	441	550	648	736	963	564	714	853	981	1323	807	1022	1225	1421	1923
1400	90/70	1268	1596	1896	2174	2875	1605	2051	2470	2866	3934	2366	2987	3574	4135	5745
	75/65	1008	1266	1501	1716	2264	1280	1631	1960	2269	3101	1872	2365	2831	3277	4523
	70/55	808	1013	1198	1367	1799	1029	1308	1569	1813	2466	1494	1888	2262	2620	3593
	55/45	514	642	756	859	1124	658	833	995	1145	1544	942	1192	1430	1658	2244
1600	90/70	1449	1824	2167	2484	3285	1835	2344	2823	3276	4496	2704	3414	4084	4726	6566
	75/65	1152	1446	1715	1962	2587	1462	1864	2240	2594	3544	2139	2702	3235	3746	5170
	70/55	924	1157	1369	1563	2056	1176	1495	1793	2072	2819	1707	2158	2585	2995	4107
	55/45	588	733	864	982	1284	752	953	1137	1308	1765	1077	1362	1634	1895	2564
1800	90/70	1630	2052	2438	2795	3696	2064	2637	3176	3685	5058	3042	3840	4595	5317	7387
	75/65	1296	1627	1930	2207	2911	1645	2097	2520	2918	3987	2407	3040	3640	4214	5816
	70/55	1039	1302	1541	1758	2313	1323	1682	2017	2331	3171	1921	2428	2908	3369	4620
	55/45	661	825	972	1104	1445	846	1072	1279	1472	1985	1211	1533	1838	2131	2885
2000	90/70	1812	2279	2709	3105	4107	2293	2930	3528	4095	5620	3380	4267	5105	5907	8208
	75/65	1440	1808	2144	2452	3234	1828	2330	2800	3242	4430	2674	3378	4044	4682	6462
	70/55	1155	1447	1712	1954	2570	1470	1869	2241	2589	3523	2134	2698	3231	3743	5133
	55/45	735	917	1080	1227	1605	940	1191	1421	1635	2206	1346	1703	2042	2368	3205
2300	90/70	2083	2621	3115	3571	4723	2637	3369	4058	4709	6463	3887	4907	5871	6794	9439
	75/65	1656	2079	2466	2820	3719	2102	2680	3220	3728	5095	3075	3885	4651	5384	7431
	70/55	1328	1664	1969	2247	2955	1690	2149	2577	2978	4052	2454	3102	3716	4305	5903
	55/45	845	1054	1242	1411	1846	1081	1369	1635	1880	2536	1548	1958	2348	2723	3686
2600	90/70	2355	2963	3522	4037	5339	2981	3809	4587	5323	7306	4394	5547	6637	7680	10670
	75/65	1872	2350	2787	3188	4204	2376	3029	3640	4215	5759	3476	4391	5257	6087	8401
	70/55	1501	1881	2225	2540	3340	1910	2430	2914	3366	4580	2775	3507	4201	4866	6673
	55/45	955	1192	1404	1595	2087	1222	1548	1848	2126	2867	1750	2214	2655	3079	4167
3000	90/70	2717	3419	4064	4658	6160	3440	4394	5293	6142	8430	5069	6401	7658	8861	12312
	75/65	2160	2712	3216	3678	4851	2742	3495	4200	4863	6645	4011	5067	6066	7023	9693
	70/55	1732	2170	2568	2930	3854	2204	2804	3362	3884	5285	3201	4047	4847	5615	7700
	55/45	1102	1375	1620	1841	2408	1410	1786	2132	2453	3308	2019	2554	3063	3552	4808



RADIK® PLAN VKM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		Type 10 PLAN VKM					Type 11 PLAN VKM					Type 20 PLAN VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	160	203	245	285	398	254	315	374	431	594	282	346	407	466	630
	75/65	126	160	193	225	315	201	250	296	340	466	223	274	322	368	495
	70/55	101	128	153	179	252	161	199	236	271	368	177	218	256	292	392
	55/45	63	79	95	111	158	101	125	147	169	226	110	135	159	181	242
500	90/70	200	254	307	356	497	317	394	467	538	743	352	433	509	582	787
	75/65	158	201	242	281	394	252	312	370	425	583	278	342	402	459	619
	70/55	126	160	192	223	315	201	249	295	338	460	222	272	320	365	490
	55/45	78	99	119	139	197	126	156	184	211	283	138	169	199	227	302
600	90/70	240	305	368	427	597	380	473	561	646	891	422	519	611	698	944
	75/65	190	241	290	337	473	302	375	444	510	699	334	410	483	551	743
	70/55	151	191	230	268	378	241	299	354	406	553	266	326	384	438	588
	55/45	94	119	143	167	236	152	187	221	253	339	166	203	239	272	363
700	90/70	280	355	429	499	696	444	551	654	753	1040	493	606	713	815	1102
	75/65	221	281	338	394	552	352	437	518	596	816	390	479	563	643	867
	70/55	176	223	269	313	440	281	349	413	474	645	310	381	448	511	686
	55/45	110	139	166	194	276	177	219	258	295	396	193	237	278	318	423
800	90/70	320	406	491	570	796	507	630	748	861	1188	563	692	814	931	1259
	75/65	253	321	387	450	631	403	500	592	681	933	445	547	643	735	991
	70/55	201	255	307	357	503	322	399	472	541	737	355	435	512	584	785
	55/45	125	159	190	222	315	202	250	295	337	452	221	271	318	363	484
900	90/70	359	457	552	641	895	570	709	841	969	1337	634	779	916	1047	1417
	75/65	284	361	435	506	710	453	562	666	766	1049	501	615	724	827	1115
	70/55	226	287	345	402	566	362	448	531	609	829	399	490	575	657	883
	55/45	141	179	214	250	355	227	281	331	379	509	249	305	358	408	544
1000	90/70	399	508	613	712	995	634	788	935	1076	1485	704	865	1018	1164	1574
	75/65	316	401	483	562	789	503	625	740	851	1166	557	684	804	919	1238
	70/55	251	319	384	447	629	402	498	590	677	921	443	544	639	730	981
	55/45	157	199	238	278	394	253	312	368	422	565	276	339	398	454	605
1100	90/70	439	558	675	783	1094	697	867	1028	1184	1634	775	952	1120	1280	1731
	75/65	347	441	532	619	868	554	687	814	936	1282	613	752	885	1011	1362
	70/55	277	351	422	491	692	442	548	649	745	1013	487	598	703	803	1079
	55/45	172	219	261	305	434	278	343	405	464	622	304	373	437	499	665
1200	90/70	479	609	736	855	1194	761	945	1122	1292	1782	845	1038	1222	1397	1889
	75/65	379	481	580	675	946	604	749	888	1021	1399	668	821	965	1103	1486
	70/55	302	383	460	536	755	482	598	708	812	1105	532	653	767	876	1177
	55/45	188	238	285	333	473	303	375	442	506	678	331	406	477	544	726
1400	90/70	559	711	859	997	1393	887	1103	1309	1507	2079	986	1211	1425	1629	2204
	75/65	442	562	677	787	1104	704	874	1036	1191	1632	780	957	1126	1286	1734
	70/55	352	447	537	625	881	563	698	825	948	1289	620	762	895	1022	1373
	55/45	219	278	333	389	552	354	437	516	590	792	387	474	557	635	847
1600	90/70	639	812	981	1140	1592	1014	1260	1496	1722	2376	1127	1384	1629	1862	2518
	75/65	505	642	774	900	1262	805	999	1184	1361	1865	891	1094	1287	1470	1981
	70/55	402	511	614	715	1007	643	797	943	1083	1474	709	870	1023	1168	1569
	55/45	251	318	380	444	631	404	499	589	674	905	442	542	636	726	968
1800	90/70	719	914	1104	1282	1791	1141	1418	1683	1937	2674	1267	1557	1832	2095	2833
	75/65	569	722	870	1012	1420	906	1124	1332	1531	2098	1002	1231	1448	1654	2229
	70/55	453	574	691	804	1133	724	897	1061	1218	1658	798	979	1151	1314	1765
	55/45	282	358	428	500	709	455	562	663	759	1018	497	610	716	817	1089
2000	90/70	799	1015	1226	1425	1990	1268	1575	1870	2153	2971	1408	1730	2036	2328	3148
	75/65	632	802	967	1125	1577	1006	1249	1480	1702	2331	1114	1368	1608	1838	2477
	70/55	503	638	767	894	1258	804	997	1179	1354	1842	886	1088	1279	1460	1961
	55/45	313	397	475	555	788	505	624	737	843	1131	552	677	795	907	1210
2300	90/70	919	1168	1410	1638	2288	1458	1812	2150	2476	3416	1619	1990	2342	2677	3620
	75/65	727	923	1112	1293	1814	1157	1436	1702	1957	2681	1281	1573	1850	2113	2848
	70/55	578	734	882	1028	1447	925	1146	1356	1557	2118	1019	1251	1471	1679	2256
	55/45	360	457	547	638	907	581	718	847	970	1300	635	779	915	1043	1391
2600	90/70	1039	1320	1594	1852	2587	1648	2048	2431	2798	3862	1831	2250	2647	3026	4092
	75/65	821	1043	1257	1462	2051	1308	1624	1924	2212	3031	1448	1778	2091	2389	3220
	70/55	654	830	997	1162	1636	1045	1296	1533	1760	2395	1152	1414	1662	1898	2550
	55/45	407	517	618	722	1025	657	812	958	1096	1470	718	881	1034	1179	1573
3000	90/70	1198	1523	1840	2137	2985	1901	2363	2805	3229	4456	2112	2596	3054	3491	4722
	75/65	948	1204	1450	1687	2366	1510	1874	2220	2552	3497	1670	2052	2413	2757	3715
	70/55	754	957	1151	1340	1888	1206	1495	1769	2031	2763	1329	1632	1918	2190	2942
	55/45	470	596	713	833	1182	758	936	1105	1265	1696	829	1016	1193	1361	1815



RADIK® PLAN VKM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		Type 21 PLAN VKM					Type 22 PLAN VKM					Type 33 PLAN VKM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	346	436	518	593	784	439	560	674	782	1073					
	75/65	273	343	406	464	612	347	442	531	614	838					
	70/55	217	271	321	366	481	276	351	420	485	659					
	55/45	134	167	197	223	292	172	217	259	298	401					
500	90/70	433	545	647	741	980	548	700	843	978	1341	807	1019	1219	1411	1958
	75/65	341	428	508	580	765	433	552	663	768	1048	633	800	958	1109	1528
	70/55	271	339	401	457	601	345	438	525	606	824	500	632	757	877	1200
	55/45	168	209	246	279	365	215	272	324	372	501	306	388	465	540	728
600	90/70	520	653	776	889	1176	658	840	1012	1173	1609	968	1223	1463	1693	2350
	75/65	409	514	609	696	918	520	663	796	921	1257	760	960	1149	1330	1833
	70/55	325	407	481	549	721	414	526	630	728	989	600	758	908	1052	1440
	55/45	201	251	295	335	438	258	326	389	447	602	368	465	558	647	874
700	90/70	606	762	906	1038	1372	768	980	1180	1369	1877	1130	1427	1707	1975	2741
	75/65	478	600	711	812	1071	607	773	929	1075	1467	886	1120	1341	1552	2139
	70/55	379	475	561	640	841	483	614	735	849	1154	700	885	1060	1228	1680
	55/45	235	292	344	391	511	301	380	454	521	702	429	543	651	755	1020
800	90/70	693	871	1035	1186	1568	877	1120	1349	1565	2145	1291	1630	1951	2258	3133
	75/65	546	685	812	928	1223	694	884	1061	1228	1676	1013	1280	1532	1774	2445
	70/55	433	542	641	731	961	552	701	840	970	1319	800	1011	1211	1403	1921
	55/45	268	334	393	447	584	344	435	518	596	802	490	620	744	863	1165
900	90/70	779	980	1164	1334	1763	987	1260	1517	1760	2414	1453	1834	2195	2540	3524
	75/65	614	771	914	1044	1376	780	994	1194	1382	1886	1139	1440	1724	1996	2750
	70/55	487	610	722	823	1082	621	789	945	1092	1484	900	1137	1362	1578	2161
	55/45	302	376	443	503	657	386	489	583	670	903	552	698	837	971	1311
1000	90/70	866	1089	1294	1482	1959	1097	1400	1686	1956	2682	1614	2038	2439	2822	3916
	75/65	682	856	1015	1160	1529	867	1104	1327	1535	2095	1266	1599	1915	2217	3056
	70/55	541	678	802	914	1202	690	877	1050	1213	1648	1000	1264	1514	1754	2401
	55/45	335	418	492	558	730	429	543	648	745	1003	613	776	930	1079	1457
1100	90/70	952	1198	1423	1630	2155	1206	1541	1855	2151	2950	1775	2242	2682	3104	4307
	75/65	751	942	1117	1276	1682	954	1215	1459	1689	2305	1393	1759	2107	2439	3361
	70/55	596	746	882	1006	1322	759	964	1156	1334	1813	1099	1390	1665	1929	2641
	55/45	369	460	541	614	803	472	598	713	819	1103	674	853	1023	1187	1602
1200	90/70	1039	1307	1553	1779	2351	1316	1681	2023	2347	3218	1937	2446	2926	3387	4699
	75/65	819	1028	1218	1392	1835	1040	1325	1592	1842	2515	1519	1919	2298	2661	3667
	70/55	650	813	962	1097	1442	828	1052	1261	1456	1978	1199	1516	1817	2105	2881
	55/45	402	501	590	670	875	515	652	778	894	1203	735	931	1116	1295	1748
1400	90/70	1212	1525	1811	2075	2743	1535	1961	2360	2738	3755	2260	2853	3414	3951	5482
	75/65	955	1199	1421	1624	2141	1214	1546	1857	2149	2934	1772	2239	2681	3104	4278
	70/55	758	949	1122	1280	1682	965	1227	1471	1698	2308	1399	1769	2119	2455	3361
	55/45	469	585	689	782	1021	601	761	907	1043	1404	858	1086	1302	1511	2039
1600	90/70	1385	1743	2070	2372	3135	1755	2241	2698	3129	4291	2582	3261	3902	4515	6265
	75/65	1092	1370	1624	1857	2447	1387	1767	2122	2456	3353	2026	2559	3064	3548	4889
	70/55	866	1085	1283	1463	1923	1103	1403	1681	1941	2637	1599	2022	2422	2806	3841
	55/45	536	668	787	893	1167	687	869	1037	1192	1605	981	1241	1489	1727	2331
1800	90/70	1559	1960	2329	2668	3527	1974	2521	3035	3520	4827	2905	3668	4390	5080	7049
	75/65	1228	1542	1827	2089	2753	1560	1988	2388	2763	3772	2279	2879	3447	3991	5500
	70/55	975	1220	1443	1646	2163	1241	1578	1891	2183	2967	1799	2274	2725	3157	4321
	55/45	603	752	885	1005	1313	773	978	1166	1341	1805	1103	1396	1675	1942	2622
2000	90/70	1732	2178	2588	2965	3919	2194	2801	3372	3911	5364	3228	4076	4877	5644	7832
	75/65	1365	1713	2030	2321	3059	1734	2209	2653	3070	4191	2532	3199	3830	4435	6112
	70/55	1083	1356	1603	1829	2404	1379	1753	2101	2426	3297	1999	2527	3028	3508	4801
	55/45	670	836	984	1117	1459	859	1087	1296	1489	2006	1226	1551	1861	2158	2913
2300	90/70	1992	2505	2976	3409	4507	2523	3221	3878	4498	6168	3712	4687	5609	6491	9007
	75/65	1570	1970	2335	2669	3518	1994	2540	3051	3531	4820	2912	3679	4405	5100	7028
	70/55	1245	1559	1844	2103	2764	1586	2016	2416	2790	3791	2299	2906	3482	4034	5522
	55/45	771	961	1131	1284	1678	988	1250	1490	1713	2307	1409	1784	2140	2482	3350
2600	90/70	2251	2832	3364	3854	5095	2852	3641	4384	5085	6973	4196	5299	6340	7337	10181
	75/65	1774	2227	2639	3017	3976	2254	2871	3449	3991	5448	3291	4159	4979	5765	7945
	70/55	1408	1763	2084	2377	3125	1793	2279	2731	3154	4286	2599	3285	3936	4560	6242
	55/45	872	1086	1279	1452	1897	1117	1413	1685	1936	2607	1593	2017	2419	2806	3787
3000	90/70	2598	3267	3881	4447	5878	3290	4201	5058	5867	8045	4842	6114	7316	8466	11748
	75/65	2047	2569	3045	3481	4588	2601	3313	3980	4605	6286	3798	4798	5745	6652	9167
	70/55	1624	2034	2405	2743	3605	2069	2630	3151	3639	4945	2999	3791	4541	5262	7202
	55/45	1006	1253	1475	1675	2189	1288	1630	1944	2234	3009	1838	2327	2791	3237	4370



RADIK[®] MM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 10 MM					Type 11 MM					Type 20 MM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70						317	404	487	566	785	324	411	495	579	828
	75/65						258	329	396	460	636	263	333	401	468	668
	70/55						213	271	326	378	522	216	273	328	383	545
	55/45						145	184	221	256	351	146	184	221	257	364
500	90/70	250	323	393	460	648	396	505	608	708	982	405	514	619	724	1035
	75/65	203	262	319	374	525	323	411	495	575	795	329	416	501	585	835
	70/55	167	216	262	307	431	266	339	408	473	652	270	342	411	479	681
	55/45	113	146	177	208	290	181	230	277	320	439	183	230	276	321	455
600	90/70	300	388	471	552	778	475	606	730	849	1178	486	616	743	869	1242
	75/65	244	315	383	449	630	387	493	594	690	954	394	499	601	702	1001
	70/55	200	259	315	369	517	320	407	489	568	783	324	410	493	575	818
	55/45	136	175	213	250	348	218	277	332	385	527	219	276	331	385	545
700	90/70	350	452	550	645	907	554	707	852	991	1374	567	719	867	1014	1450
	75/65	284	367	447	523	735	452	576	693	805	1113	460	583	701	820	1168
	70/55	234	302	367	430	603	373	474	571	662	913	378	478	575	671	954
	55/45	158	204	248	291	406	254	323	387	449	615	256	322	386	450	636
800	90/70	400	517	628	737	1037	634	808	974	1132	1571	648	822	990	1159	1657
	75/65	325	420	510	598	840	517	658	792	920	1272	526	666	802	937	1335
	70/55	267	345	420	492	689	426	542	652	757	1044	432	547	657	767	1090
	55/45	181	234	284	333	464	290	369	443	513	703	292	368	442	514	727
900	90/70	450	582	707	829	1167	713	909	1095	1274	1767	729	924	1114	1304	1864
	75/65	365	472	574	673	945	581	740	891	1035	1432	592	749	902	1054	1502
	70/55	301	388	472	553	775	479	610	734	852	1174	486	615	739	862	1226
	55/45	203	263	319	374	522	327	415	498	577	791	329	414	497	578	818
1000	90/70	500	646	786	921	1296	792	1010	1217	1415	1964	810	1027	1238	1449	2071
	75/65	406	525	638	748	1050	646	822	990	1150	1591	657	832	1002	1171	1669
	70/55	334	432	525	615	861	533	678	815	946	1305	540	683	821	958	1363
	55/45	226	292	355	416	580	363	461	553	641	879	365	460	552	642	909
1100	90/70	550	711	864	1013	1426	871	1111	1339	1557	2160	891	1130	1362	1594	2278
	75/65	447	577	702	823	1155	710	904	1089	1265	1750	723	916	1102	1288	1836
	70/55	367	475	577	676	948	586	746	897	1041	1435	594	751	903	1054	1499
	55/45	249	321	390	458	638	399	507	609	705	966	402	507	607	707	1000
1200	90/70	600	775	943	1105	1556	951	1212	1460	1698	2356	972	1232	1486	1738	2485
	75/65	487	630	766	897	1260	775	987	1188	1380	1909	789	999	1202	1405	2003
	70/55	401	518	630	738	1034	639	813	978	1135	1566	648	820	985	1150	1635
	55/45	271	350	426	499	696	436	553	664	769	1054	438	553	662	771	1091
1400	90/70	700	905	1100	1289	1815	1109	1414	1704	1981	2749	1134	1438	1733	2028	2899
	75/65	568	735	893	1047	1470	904	1151	1386	1610	2227	920	1165	1403	1639	2337
	70/55	468	604	734	861	1206	746	949	1141	1325	1827	756	956	1150	1342	1908
	55/45	316	409	497	582	812	508	645	775	897	1230	511	645	773	899	1273
1600	90/70	800	1034	1257	1473	2074	1267	1616	1947	2264	3142	1296	1643	1981	2318	3313
	75/65	650	840	1021	1196	1680	1033	1316	1584	1840	2545	1052	1332	1603	1873	2671
	70/55	534	691	839	984	1378	852	1084	1304	1514	2088	864	1093	1314	1533	2180
	55/45	362	467	568	666	928	581	737	885	1026	1406	584	737	883	1028	1455
1800	90/70	900	1163	1414	1657	2333	1426	1818	2190	2547	3534	1458	1849	2229	2608	3727
	75/65	731	945	1148	1346	1890	1162	1480	1782	2070	2863	1183	1498	1804	2107	3004
	70/55	601	777	944	1107	1551	959	1220	1467	1703	2349	973	1230	1478	1725	2453
	55/45	407	526	639	749	1044	653	830	996	1154	1581	657	829	994	1156	1636
2000	90/70	1000	1292	1571	1842	2593	1584	2019	2434	2830	3927	1620	2054	2476	2897	4142
	75/65	812	1050	1276	1496	2100	1291	1644	1980	2300	3181	1315	1665	2004	2342	3338
	70/55	668	863	1049	1230	1723	1065	1356	1631	1892	2609	1081	1366	1642	1916	2726
	55/45	452	584	710	832	1160	726	922	1107	1282	1757	730	921	1104	1285	1818
2300	90/70	1150	1486	1807	2118	2982	1822	2322	2799	3255	4516	1863	2362	2848	3332	4763
	75/65	934	1207	1467	1720	2415	1485	1891	2277	2645	3658	1512	1915	2305	2693	3839
	70/55	768	993	1207	1414	1981	1225	1559	1875	2176	3001	1243	1571	1889	2204	3134
	55/45	520	672	816	957	1334	835	1060	1273	1474	2021	840	1059	1270	1478	2091
2600	90/70	1300	1680	2042	2394	3370	2059	2625	3164	3679	5105	2106	2670	3219	3767	5384
	75/65	1056	1365	1659	1944	2730	1679	2138	2574	2990	4136	1709	2164	2605	3044	4340
	70/55	868	1122	1364	1598	2240	1385	1762	2120	2460	3392	1405	1776	2135	2491	3543
	55/45	588	759	923	1081	1508	944	1198	1439	1667	2284	949	1197	1435	1670	2364
3000	90/70	1500	1939	2357	2762	3889	2376	3029	3651	4245	5891	2430	3081	3714	4346	6212
	75/65	1218	1575	1914	2243	3151	1937	2467	2970	3450	4772	1972	2497	3006	3512	5007
	70/55	1002	1295	1574	1844	2584	1598	2033	2446	2838	3914	1621	2049	2464	2875	4088
	55/45	678	876	1065	1248	1740	1089	1383	1660	1923	2636	1096	1381	1656	1927	2727



RADIK[®] MM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 21 MM					Type 22 MM					Type 33 MM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	411	522	626	723	981	548	691	827	960	1332					
	75/65	333	423	506	583	788	445	559	668	774	1072					
	70/55	274	346	414	477	642	365	458	547	632	874					
	55/45	184	233	277	319	426	246	308	366	421	582					
500	90/70	514	653	782	903	1226	685	863	1034	1200	1665	895	1168	1425	1669	2306
	75/65	417	528	632	729	985	556	699	835	967	1340	725	944	1151	1346	1854
	70/55	342	433	517	596	802	456	573	683	789	1093	594	773	941	1099	1510
	55/45	230	291	347	398	532	308	385	458	527	727	400	519	630	734	1002
600	90/70	617	783	938	1084	1471	822	1036	1241	1440	1998	1074	1401	1710	2002	2767
	75/65	500	634	758	875	1182	667	839	1002	1160	1608	870	1133	1381	1615	2225
	70/55	410	519	621	715	962	548	687	820	947	1311	713	928	1130	1319	1812
	55/45	277	349	416	478	638	370	462	549	632	873	480	623	756	881	1203
700	90/70	720	914	1095	1265	1717	960	1209	1448	1680	2331	1253	1635	1995	2336	3229
	75/65	584	740	885	1021	1379	778	978	1169	1354	1876	1015	1322	1611	1884	2595
	70/55	479	606	724	834	1123	639	802	957	1105	1530	832	1082	1318	1539	2114
	55/45	323	407	485	558	745	431	539	641	737	1018	560	727	882	1027	1403
800	90/70	823	1044	1251	1445	1962	1097	1381	1655	1920	2664	1432	1868	2280	2670	3690
	75/65	667	845	1011	1166	1576	889	1118	1336	1547	2144	1159	1511	1841	2153	2966
	70/55	547	693	828	953	1283	730	916	1093	1263	1748	951	1237	1506	1758	2416
	55/45	369	466	555	637	851	493	616	732	843	1163	640	830	1008	1174	1603
900	90/70	926	1175	1407	1626	2207	1234	1554	1862	2160	2997	1611	2102	2565	3003	4151
	75/65	750	951	1137	1312	1774	1001	1258	1504	1741	2412	1304	1699	2072	2422	3337
	70/55	616	779	931	1072	1444	822	1031	1230	1421	1967	1070	1392	1694	1978	2718
	55/45	415	524	624	717	957	555	693	824	948	1309	720	934	1134	1321	1804
1000	90/70	1029	1305	1564	1806	2452	1371	1727	2068	2399	3330	1790	2335	2850	3337	4612
	75/65	834	1056	1264	1458	1971	1112	1398	1671	1934	2680	1449	1888	2302	2691	3708
	70/55	684	866	1034	1192	1604	913	1145	1367	1579	2185	1188	1546	1883	2198	3020
	55/45	461	582	693	797	1064	616	770	915	1053	1454	800	1038	1260	1468	2004
1100	90/70	1132	1436	1720	1987	2698	1508	1900	2275	2639	3663	1969	2569	3135	3671	5074
	75/65	917	1162	1390	1604	2168	1223	1537	1838	2127	2948	1594	2077	2532	2960	4079
	70/55	752	952	1138	1311	1764	1004	1260	1503	1737	2404	1307	1701	2071	2418	3322
	55/45	507	640	763	877	1170	678	847	1007	1159	1600	880	1142	1386	1614	2205
1200	90/70	1234	1567	1877	2168	2943	1645	2072	2482	2879	3996	2148	2802	3421	4005	5535
	75/65	1000	1268	1517	1749	2365	1334	1677	2005	2321	3216	1739	2266	2762	3229	4449
	70/55	821	1039	1241	1430	1925	1096	1375	1640	1895	2623	1426	1856	2259	2638	3623
	55/45	553	698	832	956	1277	739	924	1098	1264	1745	960	1245	1512	1761	2405
1400	90/70	1440	1828	2189	2529	3433	1919	2418	2896	3359	4662	2506	3269	3991	4672	6457
	75/65	1167	1479	1769	2041	2759	1556	1957	2339	2708	3753	2029	2644	3223	3768	5191
	70/55	958	1212	1448	1668	2246	1278	1604	1913	2210	3060	1664	2165	2636	3077	4227
	55/45	645	815	971	1116	1489	863	1078	1281	1475	2036	1120	1453	1764	2055	2806
1600	90/70	1646	2089	2502	2890	3924	2193	2763	3309	3839	5328	2864	3736	4561	5339	7380
	75/65	1334	1690	2022	2333	3153	1779	2236	2673	3094	4289	2319	3021	3683	4306	5933
	70/55	1094	1385	1655	1907	2566	1461	1833	2186	2526	3497	1901	2474	3012	3517	4831
	55/45	738	931	1110	1275	1702	986	1232	1464	1685	2327	1280	1661	2016	2348	3207
1800	90/70	1852	2350	2815	3252	4414	2467	3108	3723	4319	5994	3222	4203	5131	6007	8302
	75/65	1501	1902	2275	2624	3547	2001	2516	3007	3481	4825	2609	3399	4143	4844	6674
	70/55	1231	1558	1862	2145	2887	1643	2062	2460	2842	3934	2139	2783	3389	3956	5435
	55/45	830	1048	1248	1434	1915	1109	1386	1647	1896	2618	1440	1868	2268	2642	3608
2000	90/70	2057	2611	3128	3613	4905	2742	3454	4137	4799	6660	3579	4670	5701	6674	9225
	75/65	1667	2113	2528	2916	3941	2223	2795	3341	3868	5361	2899	3777	4604	5382	7416
	70/55	1368	1732	2069	2383	3208	1826	2291	2733	3158	4371	2377	3093	3765	4396	6039
	55/45	922	1164	1387	1594	2128	1232	1540	1830	2106	2908	1599	2076	2521	2935	4009
2300	90/70	2366	3003	3597	4155	5641	3153	3972	4757	5519	7659	4116	5371	6556	7675	10608
	75/65	1917	2430	2907	3353	4532	2557	3215	3842	4448	6165	3333	4343	5294	6190	8528
	70/55	1573	1991	2379	2741	3689	2100	2635	3143	3631	5027	2733	3557	4330	5055	6945
	55/45	1060	1338	1595	1833	2447	1417	1771	2105	2422	3345	1839	2387	2899	3375	4610
2600	90/70	2675	3394	4066	4697	6376	3564	4490	5378	6239	8658	4653	6071	7411	8677	11992
	75/65	2167	2747	3286	3791	5123	2891	3634	4344	5028	6969	3768	4909	5985	6997	9640
	70/55	1779	2251	2689	3098	4171	2374	2978	3553	4105	5682	3090	4020	4895	5715	7851
	55/45	1199	1513	1803	2072	2766	1602	2002	2379	2738	3781	2079	2698	3277	3816	5211
3000	90/70	3086	3916	4692	5419	7357	4112	5181	6205	7198	9990	5369	7005	8551	10011	13837
	75/65	2501	3169	3792	4374	5912	3335	4193	5012	5802	8041	4348	5665	6906	8073	11123
	70/55	2052	2597	3103	3575	4812	2739	3436	4100	4737	6556	3565	4639	5648	6594	9059
	55/45	1383	1746	2080	2390	3191	1848	2310	2745	3160	4363	2399	3114	3781	4403	6013



RADIK[®] MM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 MM					Type 11 MM					Type 20 MM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70						286	364	439	510	706	292	370	445	521	743
	75/65						229	291	350	407	562	232	294	354	413	588
	70/55						185	235	282	327	450	187	236	283	330	469
	55/45						119	151	181	210	287	119	150	180	209	295
500	90/70	225	291	354	415	583	357	455	548	637	883	365	462	557	651	929
	75/65	180	232	282	331	464	286	364	438	509	702	291	368	442	516	735
	70/55	144	187	227	266	372	231	293	353	409	563	233	295	354	413	586
	55/45	92	119	145	170	237	149	189	227	262	358	149	188	225	261	369
600	90/70	270	349	424	498	700	429	546	658	765	1060	438	554	668	781	1115
	75/65	215	278	338	397	556	343	437	526	610	842	349	441	530	619	881
	70/55	173	224	272	319	446	277	352	423	491	675	280	354	425	495	703
	55/45	111	143	174	204	284	179	227	272	315	430	179	225	270	314	443
700	90/70	315	407	495	580	816	500	637	768	892	1236	510	647	779	911	1301
	75/65	251	325	395	463	649	400	510	613	712	983	407	515	619	722	1028
	70/55	202	261	317	372	520	323	411	494	573	788	327	413	496	578	820
	55/45	129	167	203	238	331	208	264	317	367	502	209	263	315	366	517
800	90/70	360	466	566	663	933	572	728	877	1020	1413	583	739	890	1041	1486
	75/65	287	371	451	529	742	458	582	701	814	1123	465	588	707	826	1175
	70/55	231	298	363	425	595	369	470	564	655	901	373	472	567	660	937
	55/45	148	191	232	272	379	238	302	363	420	573	239	301	360	418	590
900	90/70	405	524	637	746	1049	643	820	987	1147	1589	656	832	1002	1171	1672
	75/65	323	418	508	595	834	515	655	788	915	1264	523	662	796	929	1322
	70/55	260	336	408	478	669	415	528	635	736	1013	420	531	637	743	1055
	55/45	166	215	261	306	426	268	340	408	472	645	269	338	405	470	664
1000	90/70	450	582	707	829	1166	715	911	1097	1275	1766	729	924	1113	1301	1858
	75/65	359	464	564	661	927	572	728	876	1017	1404	581	735	884	1032	1469
	70/55	289	373	453	531	743	462	587	706	818	1126	467	590	708	825	1172
	55/45	185	239	290	340	473	298	378	453	524	717	298	376	450	523	738
1100	90/70	495	640	778	912	1283	786	1002	1207	1402	1943	802	1016	1224	1432	2044
	75/65	395	510	620	727	1020	629	801	964	1119	1544	639	809	972	1135	1616
	70/55	318	410	499	585	818	508	646	776	900	1238	514	649	779	908	1289
	55/45	203	263	319	374	520	328	416	498	577	788	328	413	495	575	812
1200	90/70	540	698	849	995	1399	858	1093	1316	1530	2119	875	1109	1336	1562	2229
	75/65	431	557	677	793	1112	686	874	1051	1220	1685	697	882	1061	1238	1763
	70/55	346	448	544	638	892	554	704	847	982	1351	560	708	850	991	1406
	55/45	222	287	348	408	568	357	453	544	629	860	358	451	540	627	886
1400	90/70	630	815	990	1161	1632	1001	1275	1536	1785	2473	1021	1294	1558	1822	2601
	75/65	503	650	790	925	1298	801	1019	1226	1424	1966	813	1029	1238	1445	2057
	70/55	404	522	635	744	1041	646	822	988	1146	1576	654	826	991	1156	1641
	55/45	259	334	406	476	662	417	529	634	734	1003	418	526	630	732	1033
1600	90/70	720	931	1132	1327	1866	1143	1457	1755	2040	2826	1167	1478	1781	2082	2973
	75/65	574	742	902	1058	1483	915	1165	1402	1627	2246	930	1176	1414	1651	2350
	70/55	462	597	726	850	1189	739	939	1129	1309	1801	747	943	1133	1321	1875
	55/45	296	382	464	544	757	476	604	725	839	1146	477	601	720	836	1181
1800	90/70	810	1048	1273	1493	2099	1286	1639	1974	2295	3179	1313	1663	2004	2343	3344
	75/65	646	835	1015	1190	1669	1030	1310	1577	1831	2527	1046	1323	1591	1858	2644
	70/55	520	672	816	957	1338	831	1056	1270	1473	2026	840	1061	1275	1486	2109
	55/45	333	430	522	612	852	536	680	816	944	1290	537	676	810	941	1328
2000	90/70	901	1164	1415	1658	2332	1429	1821	2194	2550	3532	1459	1848	2226	2603	3716
	75/65	718	928	1128	1322	1854	1144	1456	1752	2034	2808	1162	1470	1768	2064	2938
	70/55	577	746	907	1063	1487	923	1174	1411	1636	2252	934	1179	1416	1651	2344
	55/45	370	478	580	680	946	596	756	906	1049	1433	597	751	900	1045	1476
2300	90/70	1036	1339	1627	1907	2682	1644	2094	2523	2932	4062	1677	2125	2560	2993	4273
	75/65	826	1067	1297	1520	2132	1316	1674	2015	2339	3229	1336	1691	2033	2374	3379
	70/55	664	858	1043	1222	1710	1062	1350	1623	1882	2589	1074	1356	1629	1899	2695
	55/45	425	549	667	782	1088	685	869	1042	1206	1648	686	864	1035	1202	1697
2600	90/70	1171	1513	1839	2156	3032	1858	2367	2852	3315	4592	1896	2402	2894	3384	4830
	75/65	933	1206	1466	1719	2410	1487	1893	2278	2644	3650	1511	1911	2298	2683	3819
	70/55	751	970	1179	1382	1933	1200	1526	1834	2127	2927	1214	1533	1841	2146	3047
	55/45	480	621	755	884	1230	774	982	1178	1363	1863	776	977	1170	1359	1919
3000	90/70	1351	1746	2122	2488	3498	2144	2732	3291	3824	5298	2188	2772	3339	3904	5574
	75/65	1077	1392	1692	1983	2781	1716	2184	2628	3051	4212	1743	2205	2652	3096	4407
	70/55	866	1119	1360	1594	2230	1385	1761	2117	2455	3377	1400	1769	2124	2476	3515
	55/45	554	716	871	1020	1420	893	1133	1359	1573	2150	895	1127	1350	1568	2214



RADIK[®] MM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 21 MM					Type 22 MM					Type 33 MM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	370	469	562	649	879	493	621	743	861	1194					
	75/65	294	373	446	514	692	393	493	589	681	943					
	70/55	236	299	356	410	550	315	395	471	543	751					
	55/45	150	190	226	259	344	201	251	298	342	471					
500	90/70	463	587	702	811	1098	617	776	929	1076	1493	805	1049	1280	1497	2066
	75/65	368	466	557	642	866	491	617	736	851	1179	640	833	1014	1185	1629
	70/55	295	373	446	513	688	394	494	588	679	939	513	666	810	945	1296
	55/45	188	237	282	324	430	252	314	372	427	589	326	423	512	596	811
600	90/70	555	704	843	973	1318	740	931	1115	1292	1791	966	1259	1536	1797	2480
	75/65	442	559	668	770	1039	589	740	883	1021	1414	767	999	1217	1421	1955
	70/55	354	448	535	615	826	473	593	706	815	1126	615	800	972	1134	1555
	55/45	226	284	339	388	516	302	376	447	513	707	391	507	615	715	974
700	90/70	648	822	983	1135	1538	864	1087	1300	1507	2090	1127	1469	1792	2096	2893
	75/65	515	652	780	899	1212	687	863	1030	1191	1650	895	1166	1420	1658	2281
	70/55	413	523	624	718	963	552	691	824	950	1314	718	933	1135	1323	1814
	55/45	263	332	395	453	603	352	439	521	598	825	456	592	717	834	1136
800	90/70	740	939	1124	1297	1757	987	1242	1486	1722	2388	1288	1679	2048	2396	3306
	75/65	589	746	891	1027	1385	786	986	1178	1362	1886	1023	1332	1622	1895	2606
	70/55	472	597	713	820	1101	631	790	941	1086	1502	820	1066	1297	1512	2073
	55/45	301	379	451	518	689	402	502	595	684	943	522	676	820	953	1298
900	90/70	833	1056	1264	1460	1977	1110	1397	1672	1937	2687	1449	1889	2304	2695	3719
	75/65	662	839	1003	1156	1558	884	1110	1325	1532	2121	1151	1499	1825	2132	2932
	70/55	531	672	802	923	1239	710	889	1059	1222	1690	923	1199	1459	1702	2332
	55/45	338	427	508	583	775	453	565	670	769	1061	587	761	922	1073	1460
1000	90/70	925	1174	1405	1622	2197	1234	1552	1858	2153	2986	1609	2098	2560	2995	4133
	75/65	736	932	1114	1284	1731	982	1233	1472	1702	2357	1279	1665	2028	2369	3258
	70/55	590	747	891	1026	1376	788	988	1177	1358	1877	1025	1333	1621	1891	2592
	55/45	376	474	564	647	861	503	627	744	855	1179	652	845	1025	1192	1623
1100	90/70	1018	1291	1545	1784	2416	1357	1708	2043	2368	3284	1770	2308	2816	3294	4546
	75/65	810	1025	1225	1412	1904	1080	1356	1619	1872	2593	1407	1832	2231	2606	3584
	70/55	649	821	980	1128	1514	867	1087	1294	1493	2065	1128	1466	1783	2080	2851
	55/45	414	522	621	712	947	553	690	819	940	1297	717	930	1127	1311	1785
1200	90/70	1110	1408	1686	1946	2636	1480	1863	2229	2583	3583	1931	2518	3072	3594	4959
	75/65	883	1118	1337	1541	2077	1178	1480	1766	2042	2828	1535	1998	2434	2843	3910
	70/55	708	896	1069	1231	1651	946	1185	1412	1629	2253	1230	1599	1945	2269	3110
	55/45	451	569	677	777	1033	604	753	893	1026	1414	782	1014	1230	1430	1947
1400	90/70	1296	1643	1967	2270	3076	1727	2173	2601	3014	4180	2253	2938	3584	4193	5786
	75/65	1030	1305	1560	1798	2423	1375	1726	2061	2383	3300	1791	2331	2839	3317	4561
	70/55	827	1045	1247	1436	1927	1104	1383	1647	1901	2628	1435	1866	2269	2647	3628
	55/45	527	664	790	906	1205	704	878	1042	1197	1650	913	1183	1435	1668	2272
1600	90/70	1481	1878	2248	2595	3515	1974	2484	2972	3444	4777	2575	3357	4096	4791	6612
	75/65	1178	1491	1782	2054	2770	1571	1973	2355	2723	3771	2046	2664	3245	3790	5213
	70/55	945	1194	1426	1641	2202	1261	1580	1883	2172	3004	1640	2132	2593	3025	4146
	55/45	602	759	903	1036	1377	805	1004	1191	1368	1886	1043	1352	1640	1907	2596
1800	90/70	1666	2113	2529	2919	3954	2221	2794	3344	3875	5374	2897	3777	4608	5390	7439
	75/65	1325	1678	2005	2311	3116	1768	2219	2650	3064	4243	2302	2997	3650	4264	5864
	70/55	1063	1344	1604	1846	2477	1419	1778	2118	2444	3379	1845	2399	2917	3403	4665
	55/45	677	853	1016	1165	1549	906	1129	1340	1539	2122	1174	1521	1844	2145	2921
2000	90/70	1851	2347	2810	3243	4394	2467	3105	3715	4305	5971	3219	4197	5119	5989	8265
	75/65	1472	1864	2228	2568	3462	1964	2466	2944	3404	4714	2558	3330	4056	4738	6516
	70/55	1181	1493	1782	2051	2752	1577	1976	2353	2715	3755	2050	2665	3242	3781	5183
	55/45	752	948	1128	1295	1722	1006	1255	1488	1710	2357	1304	1690	2049	2383	3245
2300	90/70	2128	2699	3231	3730	5053	2837	3571	4272	4951	6867	3702	4826	5887	6888	9505
	75/65	1693	2144	2562	2953	3981	2259	2836	3386	3915	5421	2942	3830	4664	5449	7493
	70/55	1358	1717	2049	2359	3165	1813	2272	2706	3122	4318	2358	3065	3728	4348	5961
	55/45	865	1091	1298	1489	1980	1157	1443	1712	1966	2711	1500	1944	2357	2741	3732
2600	90/70	2406	3051	3653	4217	5712	3208	4036	4830	5597	7762	4185	5456	6655	7786	10745
	75/65	1914	2423	2896	3338	4501	2553	3206	3827	4425	6128	3325	4329	5273	6159	8471
	70/55	1535	1941	2317	2666	3578	2050	2568	3059	3530	4881	2665	3465	4214	4915	6738
	55/45	978	1233	1467	1683	2238	1308	1631	1935	2222	3065	1695	2197	2664	3098	4219
3000	90/70	2776	3521	4215	4865	6590	3701	4657	5573	6458	8957	4828	6295	7679	8984	12398
	75/65	2208	2796	3342	3852	5193	2946	3699	4416	5106	7071	3837	4995	6084	7107	9774
	70/55	1771	2240	2673	3077	4129	2365	2963	3530	4073	5632	3076	3998	4862	5672	7775
	55/45	1128	1422	1693	1942	2582	1509	1882	2233	2564	3536	1956	2535	3074	3575	4868



RADIK[®] MM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		Type 10 MM					Type 11 MM					Type 20 MM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70						274	349	420	488	675	279	353	426	497	710
	75/65						217	276	333	386	532	220	279	335	391	556
	70/55						174	221	265	307	422	175	221	266	309	439
	55/45						109	138	166	192	262	109	137	164	191	269
500	90/70	215	278	338	397	557	342	436	525	610	844	349	442	532	622	887
	75/65	170	220	267	313	439	272	345	416	482	665	276	348	419	489	695
	70/55	135	175	213	249	349	217	276	331	384	528	219	277	332	387	549
	55/45	84	109	133	155	216	136	173	207	240	327	136	171	205	238	336
600	90/70	258	334	406	476	669	410	523	630	732	1013	418	530	638	746	1065
	75/65	204	264	321	376	527	326	415	499	579	799	331	418	503	587	834
	70/55	163	210	255	299	418	260	331	398	461	634	263	332	398	464	658
	55/45	101	131	159	186	259	163	207	249	287	392	163	206	246	286	403
700	90/70	301	390	474	555	780	479	610	735	854	1182	488	618	745	871	1242
	75/65	238	308	374	439	615	380	484	582	675	932	386	488	586	684	974
	70/55	190	245	298	349	488	304	386	464	538	739	307	387	465	542	768
	55/45	118	153	186	217	302	191	242	290	335	458	191	240	287	334	470
800	90/70	345	445	541	635	892	547	697	840	976	1351	558	707	851	995	1419
	75/65	272	352	428	502	703	434	553	665	772	1065	441	557	670	782	1113
	70/55	217	280	340	399	558	347	441	530	615	845	350	443	531	619	878
	55/45	135	175	212	248	345	218	276	331	383	523	218	274	328	381	537
900	90/70	388	501	609	714	1003	616	784	945	1098	1520	628	795	958	1119	1597
	75/65	306	396	481	564	791	489	622	748	868	1198	496	627	754	880	1252
	70/55	244	315	383	449	627	390	496	596	691	950	394	498	598	696	988
	55/45	152	196	239	280	389	245	311	373	431	588	245	309	369	429	605
1000	90/70	431	557	677	793	1115	684	871	1050	1220	1688	697	883	1064	1244	1774
	75/65	341	440	535	627	879	543	691	831	965	1331	551	697	838	978	1391
	70/55	271	350	426	499	697	434	551	663	768	1056	438	553	664	774	1097
	55/45	169	218	265	311	432	272	345	414	479	654	272	343	410	476	672
1100	90/70	474	612	744	872	1226	753	959	1155	1342	1857	767	972	1170	1368	1952
	75/65	375	484	588	690	967	597	760	914	1061	1464	606	766	922	1075	1530
	70/55	298	385	468	549	767	477	606	729	845	1161	482	608	730	851	1207
	55/45	186	240	292	342	475	300	380	456	527	719	300	377	451	524	739
1200	90/70	517	668	812	952	1338	821	1046	1259	1463	2026	837	1060	1277	1492	2129
	75/65	409	528	642	752	1054	652	829	998	1158	1597	661	836	1005	1173	1669
	70/55	325	420	511	599	837	521	662	795	922	1267	526	664	797	928	1317
	55/45	203	262	318	373	518	327	415	497	575	785	327	412	492	572	806
1400	90/70	603	779	947	1110	1561	958	1220	1469	1707	2364	976	1237	1489	1741	2484
	75/65	477	616	749	878	1230	760	967	1164	1351	1863	771	976	1173	1369	1947
	70/55	379	490	596	698	976	607	772	928	1075	1478	613	774	930	1083	1536
	55/45	236	305	371	435	604	381	484	580	671	915	381	480	574	667	941
1600	90/70	689	891	1083	1269	1784	1095	1394	1679	1951	2701	1116	1414	1702	1990	2839
	75/65	545	704	856	1003	1406	869	1106	1330	1544	2129	882	1115	1340	1564	2225
	70/55	434	560	681	798	1115	694	882	1060	1229	1689	701	885	1062	1238	1756
	55/45	270	349	424	497	691	436	553	663	767	1046	436	549	656	762	1075
1800	90/70	775	1002	1218	1428	2006	1231	1569	1889	2195	3039	1255	1590	1915	2238	3194
	75/65	613	792	963	1129	1582	978	1244	1496	1737	2396	992	1254	1508	1760	2503
	70/55	488	630	766	898	1255	781	992	1193	1383	1901	789	996	1195	1393	1975
	55/45	304	393	477	559	777	490	622	746	862	1177	490	617	739	858	1209
2000	90/70	861	1113	1353	1586	2229	1368	1743	2099	2439	3377	1395	1767	2128	2487	3549
	75/65	681	880	1070	1254	1757	1086	1382	1663	1930	2662	1102	1394	1676	1955	2781
	70/55	542	700	851	998	1394	868	1103	1325	1536	2112	876	1106	1328	1547	2195
	55/45	338	436	530	621	864	545	691	828	958	1308	545	686	821	953	1344
2300	90/70	991	1280	1556	1824	2564	1574	2004	2414	2805	3883	1604	2032	2447	2860	4081
	75/65	783	1012	1230	1442	2021	1249	1589	1912	2219	3061	1267	1603	1927	2249	3199
	70/55	623	805	979	1147	1604	998	1268	1524	1767	2428	1008	1272	1527	1779	2524
	55/45	388	502	610	714	993	627	795	953	1102	1504	627	789	944	1096	1545
2600	90/70	1120	1447	1759	2062	2898	1779	2266	2729	3171	4390	1813	2297	2766	3233	4613
	75/65	885	1144	1391	1630	2285	1412	1797	2161	2508	3460	1433	1812	2178	2542	3616
	70/55	705	910	1107	1297	1813	1128	1433	1723	1997	2745	1139	1438	1726	2011	2853
	55/45	439	567	689	808	1123	708	898	1077	1246	1700	708	892	1067	1239	1747
3000	90/70	1292	1670	2030	2379	3344	2052	2614	3149	3659	5065	2092	2650	3192	3731	5323
	75/65	1022	1320	1605	1881	2636	1629	2073	2494	2894	3993	1653	2090	2513	2933	4172
	70/55	813	1051	1277	1496	2092	1301	1654	1988	2304	3168	1314	1659	1992	2321	3292
	55/45	506	654	795	932	1295	817	1036	1243	1437	1961	817	1029	1231	1429	2016



RADIK® MM

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °C		Type 21 MM					Type 22 MM					Type 33 MM				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	354	449	537	620	839	472	594	710	822	1140					
	75/65	279	353	422	486	655	372	467	558	645	892					
	70/55	222	280	334	384	515	296	370	441	509	703					
	55/45	137	173	206	236	313	184	229	271	311	429					
500	90/70	442	561	671	775	1048	590	742	887	1028	1425	769	1003	1223	1430	1972
	75/65	349	442	528	608	819	466	584	697	806	1115	606	789	960	1122	1541
	70/55	277	350	418	480	644	370	463	551	636	879	481	625	759	885	1212
	55/45	172	216	257	295	391	230	286	339	389	536	297	385	467	543	738
600	90/70	531	673	805	929	1258	708	890	1065	1233	1710	923	1203	1467	1716	2367
	75/65	419	530	633	730	982	559	701	837	967	1338	727	947	1152	1346	1849
	70/55	332	420	501	576	773	444	556	662	763	1054	577	750	911	1062	1455
	55/45	206	259	309	354	470	276	343	407	467	644	357	462	560	651	885
700	90/70	619	785	940	1084	1468	826	1039	1242	1439	1995	1077	1404	1712	2002	2761
	75/65	488	618	739	851	1146	652	818	976	1128	1561	849	1104	1345	1570	2158
	70/55	388	490	585	673	901	518	648	772	890	1230	673	874	1063	1239	1697
	55/45	240	303	360	413	548	321	401	475	545	751	416	539	654	760	1033
800	90/70	708	897	1074	1239	1677	944	1187	1420	1645	2280	1231	1604	1956	2288	3155
	75/65	558	707	844	973	1310	745	935	1115	1289	1784	970	1262	1537	1794	2466
	70/55	443	560	668	769	1030	592	741	882	1017	1406	769	999	1215	1417	1940
	55/45	275	346	411	472	626	367	458	543	623	858	476	616	747	868	1181
900	90/70	796	1010	1208	1394	1887	1062	1336	1597	1850	2565	1385	1805	2201	2574	3550
	75/65	628	795	950	1094	1474	838	1052	1255	1450	2008	1091	1420	1729	2019	2774
	70/55	498	630	752	865	1159	666	834	992	1144	1582	865	1124	1367	1594	2182
	55/45	309	389	463	531	704	413	515	610	700	965	535	693	840	977	1328
1000	90/70	885	1122	1342	1549	2097	1180	1484	1775	2056	2850	1539	2005	2445	2860	3944
	75/65	698	883	1055	1216	1637	931	1169	1394	1611	2231	1212	1578	1921	2243	3082
	70/55	554	700	835	961	1288	740	926	1103	1271	1757	961	1249	1519	1771	2425
	55/45	343	432	514	590	783	459	572	678	778	1073	595	770	934	1085	1476
1100	90/70	973	1234	1477	1704	2306	1298	1632	1952	2261	3135	1692	2206	2690	3146	4339
	75/65	768	972	1161	1338	1801	1024	1285	1534	1772	2454	1333	1735	2113	2467	3391
	70/55	609	770	919	1057	1416	814	1019	1213	1398	1933	1058	1374	1671	1948	2667
	55/45	378	476	566	649	861	505	630	746	856	1180	654	848	1027	1194	1623
1200	90/70	1062	1346	1611	1859	2516	1416	1781	2130	2467	3420	1846	2406	2935	3432	4733
	75/65	837	1060	1266	1459	1965	1117	1402	1673	1934	2677	1455	1893	2305	2692	3699
	70/55	665	840	1002	1153	1545	888	1111	1323	1526	2109	1154	1499	1822	2125	2910
	55/45	412	519	617	708	939	551	687	814	934	1287	714	925	1120	1302	1771
1400	90/70	1239	1570	1879	2169	2935	1652	2077	2485	2878	3990	2154	2807	3424	4004	5522
	75/65	977	1237	1477	1702	2292	1304	1636	1952	2256	3123	1697	2209	2689	3140	4315
	70/55	775	980	1169	1345	1803	1036	1297	1544	1780	2460	1346	1749	2126	2479	3395
	55/45	481	605	720	826	1096	643	801	949	1090	1502	833	1079	1307	1519	2066
1600	90/70	1416	1795	2148	2479	3354	1887	2374	2840	3289	4560	2462	3209	3913	4576	6311
	75/65	1116	1413	1689	1946	2620	1490	1870	2231	2578	3569	1940	2524	3073	3589	4932
	70/55	886	1120	1336	1537	2060	1183	1482	1764	2034	2812	1538	1999	2430	2833	3880
	55/45	549	692	823	944	1252	735	916	1085	1245	1716	952	1233	1494	1736	2361
1800	90/70	1593	2019	2416	2788	3774	2123	2671	3195	3700	5131	2769	3610	4402	5148	7100
	75/65	1256	1590	1900	2189	2947	1676	2103	2510	2900	4015	2182	2840	3457	4037	5548
	70/55	997	1260	1503	1729	2318	1331	1667	1985	2288	3163	1730	2249	2734	3187	4365
	55/45	618	778	926	1062	1409	827	1030	1221	1401	1931	1071	1387	1681	1953	2656
2000	90/70	1770	2243	2685	3098	4193	2359	2968	3550	4112	5701	3077	4011	4891	5720	7889
	75/65	1395	1766	2111	2432	3275	1862	2337	2789	3223	4461	2425	3155	3842	4486	6165
	70/55	1108	1400	1670	1921	2575	1479	1852	2205	2543	3515	1923	2498	3037	3541	4850
	55/45	686	865	1029	1180	1565	919	1145	1356	1557	2145	1190	1541	1867	2170	2951
2300	90/70	2035	2580	3088	3563	4822	2713	3413	4082	4728	6556	3539	4612	5625	6578	9072
	75/65	1605	2031	2427	2797	3766	2142	2688	3207	3706	5130	2788	3628	4418	5159	7089
	70/55	1274	1610	1921	2210	2961	1701	2130	2536	2924	4042	2211	2873	3493	4073	5577
	55/45	789	995	1183	1357	1800	1056	1316	1560	1790	2467	1368	1772	2148	2496	3394
2600	90/70	2300	2917	3490	4028	5451	3067	3858	4614	5345	7411	4000	5214	6358	7436	10255
	75/65	1814	2296	2744	3161	4257	2421	3038	3625	4189	5800	3152	4102	4994	5832	8014
	70/55	1440	1820	2171	2498	3348	1923	2408	2867	3305	4569	2500	3248	3948	4604	6305
	55/45	892	1124	1337	1534	2035	1194	1488	1763	2023	2789	1547	2003	2428	2822	3837
3000	90/70	2654	3365	4027	4647	6290	3539	4452	5324	6167	8551	4616	6016	7336	8581	11833
	75/65	2093	2650	3166	3648	4912	2793	3506	4183	4834	6692	3637	4733	5762	6729	9247
	70/55	1661	2100	2505	2882	3863	2219	2778	3308	3814	5272	2884	3748	4556	5312	7275
	55/45	1030	1297	1543	1770	2348	1378	1717	2034	2335	3218	1785	2311	2801	3256	4427

HEAT OUTPUT



RADIK® HYGIENE, HYGIENE VK

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °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]											
		303	503	603	903	303	503	603	903	303	503	603	903
404	90/70		239	275	367		447	520	739		640	739	1019
	75/65		195	224	300		365	424	601		521	602	826
	70/55		161	185	248		301	351	495		429	496	677
	55/45		109	126	170		206	240	336		292	338	456
504	90/70	198	299	344	458	368	558	650	924		800	924	1274
	75/65	162	243	280	375	300	456	530	752		651	753	1032
	70/55	134	201	231	310	247	376	438	619		537	621	847
	55/45	91	137	157	212	168	257	300	420		365	422	570
604	90/70	238	358	413	550	441	670	779	1109	635	960	1109	1528
	75/65	194	292	336	450	360	547	637	902	517	781	903	1238
	70/55	160	241	277	372	297	452	526	743	426	644	745	1016
	55/45	109	164	188	255	202	308	360	504	289	438	507	684
704	90/70	278	418	482	642	515	782	909	1294	741	1120	1294	1783
	75/65	227	341	392	525	420	638	743	1052	603	912	1054	1445
	70/55	187	281	323	434	346	527	614	866	496	751	869	1185
	55/45	128	191	220	297	236	360	420	588	337	511	591	798
804	90/70	318	478	550	734	589	893	1039	1479	846	1280	1478	2038
	75/65	259	389	448	600	480	729	849	1203	689	1042	1204	1651
	70/55	214	321	369	496	396	602	702	990	567	859	993	1355
	55/45	146	219	251	340	269	411	480	672	385	584	675	913
904	90/70	357	538	619	825	662	1005	1169	1664	952	1439	1663	2293
	75/65	291	438	504	674	540	820	955	1353	775	1172	1355	1858
	70/55	241	361	416	558	445	678	789	1114	638	966	1117	1524
	55/45	164	246	283	382	303	463	540	756	433	657	760	1027
1004	90/70	397	597	688	917	736	1117	1299	1849	1058	1599	1848	2547
	75/65	324	487	560	749	599	911	1061	1503	861	1302	1505	2064
	70/55	267	401	462	620	494	753	877	1238	709	1073	1241	1693
	55/45	182	273	314	424	337	514	600	839	482	730	844	1141
1104	90/70	437	657	757	1009	809	1228	1429	2034	1164	1759	2033	2802
	75/65	356	535	616	824	659	1003	1167	1654	947	1433	1656	2270
	70/55	294	441	508	682	544	828	965	1361	780	1181	1365	1863
	55/45	201	301	345	467	370	565	660	923	530	803	929	1255
1204	90/70	476	717	826	1100	883	1340	1559	2218	1270	1919	2218	3057
	75/65	389	584	672	899	719	1094	1273	1804	1033	1563	1806	2477
	70/55	321	482	554	744	593	903	1052	1485	851	1288	1489	2032
	55/45	219	328	377	509	404	617	720	1007	578	876	1013	1369
1404	90/70	556	836	963	1284	1030	1563	1819	2588	1481	2239	2587	3566
	75/65	453	681	784	1049	839	1276	1485	2105	1205	1823	2107	2889
	70/55	374	562	646	868	692	1054	1228	1733	993	1503	1738	2371
	55/45	255	382	440	594	471	720	839	1175	674	1022	1182	1597
1604	90/70	635	956	1101	1467	1177	1787	2079	2958	1693	2559	2957	4076
	75/65	518	779	896	1199	959	1458	1698	2405	1378	2084	2408	3302
	70/55	428	642	739	992	791	1204	1403	1980	1135	1717	1986	2709
	55/45	292	437	502	679	539	822	959	1343	771	1168	1351	1825
1804	90/70	714	1075	1238	1650	1324	2010	2338	3328	1905	2879	3327	4585
	75/65	583	876	1008	1349	1079	1641	1910	2706	1550	2344	2710	3715
	70/55	481	722	831	1116	890	1355	1578	2228	1277	1932	2234	3048
	55/45	328	492	565	764	606	925	1079	1511	867	1314	1520	2053
2004	90/70	794	1194	1376	1834	1471	2234	2598	3697	2116	3199	3696	5095
	75/65	648	973	1120	1499	1199	1823	2122	3007	1722	2605	3011	4128
	70/55	535	803	924	1240	989	1506	1754	2475	1418	2147	2482	3387
	55/45	365	546	628	849	673	1028	1199	1679	963	1460	1689	2281



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]											
		303	503	603	903	303	503	603	903	303	503	603	903
404	90/70		215	248	331		403	469	666		577	667	917
	75/65		172	198	266		323	376	532		461	533	729
	70/55		139	160	215		261	304	428		372	430	585
	55/45		90	103	140		169	197	275		239	277	372
504	90/70	179	269	310	414	332	504	587	833		721	833	1146
	75/65	144	216	248	333	266	404	471	665		577	667	911
	70/55	116	174	200	269	214	326	380	535		465	537	731
	55/45	75	112	129	175	138	211	246	344		299	346	465
604	90/70	215	323	372	497	398	605	704	1000	572	865	1000	1375
	75/65	172	259	298	399	319	485	565	798	457	692	800	1093
	70/55	139	209	240	323	257	392	457	642	368	558	645	877
	55/45	90	134	154	210	166	253	296	412	237	359	415	558
704	90/70	251	377	434	580	465	706	821	1166	668	1010	1167	1604
	75/65	201	302	347	466	372	566	659	931	533	807	933	1275
	70/55	162	243	280	377	300	457	533	750	430	651	752	1023
	55/45	105	157	180	244	193	296	345	481	276	419	485	651
804	90/70	287	431	496	663	531	807	939	1333	763	1154	1333	1833
	75/65	230	345	397	532	425	646	753	1064	610	922	1066	1458
	70/55	185	278	320	431	343	522	609	857	491	744	860	1169
	55/45	120	179	206	279	221	338	394	550	316	479	554	744
904	90/70	322	485	558	746	597	907	1056	1499	858	1298	1500	2062
	75/65	258	388	446	599	478	727	847	1197	686	1038	1200	1640
	70/55	209	313	360	484	386	588	685	964	552	837	967	1315
	55/45	135	202	232	314	249	380	444	618	355	538	623	837
1004	90/70	358	539	620	828	664	1008	1173	1666	954	1442	1667	2291
	75/65	287	431	496	665	531	808	941	1330	762	1153	1333	1822
	70/55	232	348	400	538	428	653	761	1071	614	930	1075	1461
	55/45	150	224	257	349	276	422	493	687	395	598	692	931
1104	90/70	394	593	682	911	730	1109	1291	1833	1049	1586	1834	2520
	75/65	316	474	546	732	584	889	1035	1463	838	1268	1466	2004
	70/55	255	382	440	592	471	718	837	1178	675	1022	1182	1607
	55/45	165	246	283	384	304	464	542	756	434	658	761	1024
1204	90/70	430	646	744	994	796	1210	1408	1999	1145	1731	2000	2750
	75/65	344	517	595	798	637	970	1129	1596	914	1384	1600	2186
	70/55	278	417	480	646	514	784	913	1285	737	1115	1290	1754
	55/45	180	269	309	419	331	507	591	825	473	718	831	1117
1404	90/70	502	754	869	1160	929	1412	1643	2332	1335	2019	2334	3208
	75/65	402	603	694	931	743	1131	1317	1862	1067	1614	1866	2551
	70/55	325	487	560	754	600	914	1065	1499	859	1301	1505	2046
	55/45	210	314	360	489	387	591	690	962	552	837	969	1303
1604	90/70	573	862	993	1325	1062	1613	1877	2666	1526	2308	2667	3666
	75/65	459	690	794	1064	850	1293	1506	2128	1219	1845	2133	2915
	70/55	371	556	640	861	685	1045	1218	1713	982	1487	1720	2338
	55/45	240	359	412	559	442	676	789	1099	631	957	1108	1489
1804	90/70	645	970	1117	1491	1195	1815	2112	2999	1717	2596	3000	4124
	75/65	517	776	893	1197	956	1454	1694	2394	1372	2075	2399	3280
	70/55	417	626	720	969	771	1175	1370	1927	1105	1673	1935	2630
	55/45	270	403	463	629	497	760	887	1237	710	1077	1246	1675
2004	90/70	716	1077	1241	1657	1327	2016	2346	3332	1908	2885	3334	4583
	75/65	574	862	992	1330	1062	1616	1882	2660	1524	2306	2666	3644
	70/55	464	695	800	1076	857	1306	1522	2142	1228	1859	2150	2923
	55/45	300	448	515	698	552	844	986	1374	789	1196	1385	1861



RADIK® HYGIENE, HYGIENE VK

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °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]											
		303	503	603	903	303	503	603	903	303	503	603	903
404	90/70		206	238	317		386	449	638		552	638	876
	75/65		164	188	253		307	358	505		438	506	691
	70/55		131	150	202		246	286	402		349	404	548
	55/45		82	94	128		155	181	251		219	253	340
504	90/70	172	258	297	397	318	483	562	797		690	798	1095
	75/65	136	205	235	316	252	384	447	631		547	633	864
	70/55	109	163	188	253	201	307	358	503		437	505	685
	55/45	69	102	118	160	126	193	226	314		274	317	425
604	90/70	206	309	356	476	381	579	674	956	548	828	957	1314
	75/65	164	245	282	379	302	460	536	757	434	657	759	1036
	70/55	131	196	225	304	242	368	429	603	346	524	606	822
	55/45	82	123	141	192	152	232	271	377	216	328	380	509
704	90/70	240	361	416	555	445	676	787	1116	639	966	1117	1533
	75/65	191	286	330	442	353	537	626	883	506	766	886	1209
	70/55	153	229	263	354	282	430	501	704	404	611	707	959
	55/45	96	143	165	224	177	271	316	440	252	383	443	594
804	90/70	274	413	475	635	508	772	899	1275	730	1104	1276	1753
	75/65	218	327	377	505	403	614	715	1010	579	875	1012	1382
	70/55	174	261	300	405	322	491	572	804	461	699	808	1096
	55/45	110	164	188	256	202	309	361	502	289	438	507	679
904	90/70	309	464	534	714	572	869	1011	1435	821	1242	1436	1972
	75/65	245	368	424	569	454	691	804	1136	651	985	1139	1554
	70/55	196	294	338	456	362	552	644	905	519	786	909	1234
	55/45	123	184	212	288	227	348	406	565	325	492	570	764
1004	90/70	343	516	594	793	635	965	1124	1594	913	1380	1595	2191
	75/65	273	409	471	632	504	767	894	1262	723	1094	1265	1727
	70/55	218	327	376	506	403	614	715	1005	577	873	1010	1371
	55/45	137	205	235	320	253	387	451	628	361	547	633	849
1104	90/70	377	567	653	873	699	1062	1236	1753	1004	1518	1755	2410
	75/65	300	450	518	695	555	844	983	1388	795	1204	1392	1900
	70/55	240	359	413	557	443	675	787	1106	634	960	1111	1508
	55/45	151	225	259	352	278	425	496	691	397	602	696	934
1204	90/70	412	619	713	952	762	1158	1348	1913	1095	1656	1914	2629
	75/65	327	491	565	758	605	921	1073	1514	868	1313	1518	2073
	70/55	261	392	451	607	483	737	859	1207	692	1048	1212	1645
	55/45	165	246	282	384	303	464	542	754	433	656	760	1019
1404	90/70	480	722	831	1111	889	1352	1573	2232	1278	1932	2234	3067
	75/65	382	573	659	885	706	1074	1251	1767	1012	1532	1771	2418
	70/55	305	457	526	709	564	859	1002	1408	807	1222	1414	1919
	55/45	192	287	329	448	354	541	632	879	505	766	886	1189
1604	90/70	549	825	950	1270	1016	1545	1798	2550	1460	2209	2553	3505
	75/65	436	655	753	1011	807	1228	1430	2019	1157	1751	2025	2763
	70/55	349	523	601	810	644	982	1145	1609	922	1397	1616	2193
	55/45	219	328	377	512	404	618	722	1005	577	875	1013	1359
1804	90/70	617	928	1069	1428	1143	1738	2022	2869	1643	2485	2872	3943
	75/65	491	736	847	1137	907	1381	1609	2272	1302	1970	2278	3109
	70/55	392	588	676	911	725	1105	1288	1810	1038	1572	1818	2467
	55/45	247	369	424	576	455	696	812	1131	649	985	1140	1528
2004	90/70	686	1031	1188	1587	1271	1931	2247	3188	1826	2761	3191	4381
	75/65	545	818	942	1264	1008	1535	1788	2524	1446	2189	2531	3454
	70/55	436	653	751	1012	805	1228	1431	2011	1153	1746	2020	2741
	55/45	274	410	471	640	505	773	903	1256	721	1094	1266	1698



RADIK® CLEAN, CLEAN VK

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °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	900	300	400	500	600	900	300	400	500	600	900
400	90/70	186	238	288	337	490	330	418	503	586	819	480	601	719	835	1176
	75/65	150	192	233	274	397	267	338	407	473	663	389	486	581	673	947
	70/55	122	157	191	225	325	219	277	333	387	544	319	398	475	550	773
	55/45	82	105	128	152	218	148	186	224	260	366	215	267	318	367	515
500	90/70	233	297	360	422	613	413	522	629	732	1024	600	752	899	1044	1470
	75/65	187	240	291	342	496	334	423	509	592	829	486	608	726	842	1184
	70/55	153	196	239	281	406	274	347	417	484	680	399	498	594	688	966
	55/45	102	132	161	189	273	185	233	280	324	457	268	334	397	459	644
600	90/70	279	357	432	506	736	495	627	755	879	1229	720	902	1079	1253	1764
	75/65	225	288	350	410	595	401	507	610	710	995	583	729	871	1010	1421
	70/55	184	236	287	337	488	329	416	500	581	816	478	597	712	825	1160
	55/45	123	158	193	227	328	221	280	335	389	548	322	401	477	551	773
700	90/70	326	416	504	590	858	578	731	881	1025	1434	840	1052	1259	1462	2058
	75/65	262	336	408	479	694	468	592	712	828	1161	681	851	1016	1179	1658
	70/55	214	275	334	393	569	384	485	583	678	951	558	697	831	963	1353
	55/45	143	184	225	265	382	258	326	391	454	640	376	468	556	643	902
800	90/70	372	475	576	675	981	660	836	1007	1172	1639	961	1203	1438	1670	2352
	75/65	300	384	466	547	794	535	677	814	947	1327	778	973	1161	1347	1895
	70/55	245	314	382	449	650	439	554	666	775	1087	638	796	950	1100	1546
	55/45	163	210	257	303	437	295	373	447	519	731	429	535	636	734	1031
900	90/70	419	535	648	759	1103	743	940	1132	1318	1844	1081	1353	1618	1879	2646
	75/65	337	432	524	615	893	602	761	916	1065	1492	875	1094	1307	1515	2132
	70/55	276	353	430	505	732	493	624	750	872	1223	718	896	1069	1238	1740
	55/45	184	237	289	341	492	332	419	503	584	823	483	601	715	826	1159
1000	90/70	465	594	720	843	1226	825	1045	1258	1465	2048	1201	1503	1798	2088	2940
	75/65	375	480	583	684	992	668	846	1017	1184	1658	972	1216	1452	1684	2369
	70/55	306	393	478	562	813	548	693	833	968	1359	797	996	1187	1375	1933
	55/45	204	263	321	379	546	369	466	559	649	914	536	668	795	918	1288
1100	90/70	512	654	792	927	1348	908	1149	1384	1611	2253	1321	1654	1978	2297	3234
	75/65	412	528	641	752	1091	735	930	1119	1302	1824	1069	1337	1597	1852	2606
	70/55	337	432	525	618	894	603	762	916	1065	1495	877	1095	1306	1513	2126
	55/45	225	289	353	417	601	406	512	615	714	1005	590	735	874	1010	1417
1200	90/70	558	713	864	1012	1471	990	1254	1510	1758	2458	1441	1804	2157	2505	3528
	75/65	450	576	699	821	1190	802	1015	1221	1420	1990	1167	1459	1742	2020	2842
	70/55	367	471	573	674	975	658	832	1000	1162	1631	957	1195	1425	1650	2320
	55/45	245	316	385	455	655	443	559	671	779	1097	644	802	954	1102	1546
1400	90/70	651	832	1008	1180	1716	1155	1463	1761	2051	2868	1681	2105	2517	2923	4116
	75/65	525	672	816	957	1389	936	1184	1424	1657	2321	1361	1702	2032	2357	3316
	70/55	429	550	669	786	1138	768	970	1166	1356	1903	1116	1394	1662	1925	2706
	55/45	286	368	449	531	765	517	652	783	908	1280	751	935	1113	1285	1803
1600	90/70	744	951	1152	1349	1961	1320	1672	2013	2344	3277	1921	2406	2877	3341	4704
	75/65	600	768	932	1094	1587	1070	1353	1628	1894	2653	1556	1945	2323	2694	3790
	70/55	490	628	764	898	1301	877	1109	1333	1549	2175	1276	1593	1900	2200	3093
	55/45	327	421	514	606	874	591	745	894	1038	1463	858	1069	1272	1469	2061
1800	90/70	837	1070	1296	1518	2207	1485	1881	2265	2637	3687	2161	2706	3236	3758	5292
	75/65	675	864	1049	1231	1786	1203	1522	1831	2130	2985	1750	2188	2613	3030	4264
	70/55	551	707	860	1011	1463	987	1247	1499	1743	2447	1435	1792	2137	2475	3479
	55/45	368	473	578	682	983	664	839	1006	1168	1645	966	1203	1430	1652	2319
2000	90/70	930	1189	1440	1686	2452	1650	2090	2516	2930	4097	2401	3007	3596	4176	5881
	75/65	750	960	1165	1368	1984	1337	1691	2035	2367	3316	1945	2432	2904	3367	4737
	70/55	612	785	955	1123	1626	1097	1386	1666	1937	2718	1594	1991	2374	2750	3866
	55/45	409	526	642	758	1092	738	932	1118	1298	1828	1073	1336	1589	1836	2576
2300	90/70	1070	1367	1656	1939	2820	1898	2403	2894	3369	4711	2762	3458	4135	4802	6763
	75/65	862	1104	1340	1573	2282	1537	1945	2340	2722	3814	2236	2796	3339	3872	5448
	70/55	704	903	1098	1291	1869	1261	1594	1916	2227	3126	1834	2290	2731	3163	4446
	55/45	470	605	738	872	1256	849	1071	1286	1492	2102	1234	1537	1828	2111	2963
2600	90/70	1209	1545	1872	2192	3187	2146	2717	3271	3809	5326	3122	3909	4674	5429	7645
	75/65	975	1248	1515	1778	2579	1738	2199	2645	3077	4311	2528	3161	3775	4377	6159
	70/55	796	1021	1242	1460	2113	1426	1802	2166	2518	3534	2073	2589	3087	3575	5026
	55/45	531	684	835	985	1420	960	1211	1454	1687	2377	1395	1737	2066	2387	3349
3000	90/70	1395	1783	2160	2529	3678	2476	3135	3774	4395	6145	3602	4510	5394	6264	8821
	75/65	1125	1440	1748	2051	2976	2005	2537	3052	3551	4974	2917	3647	4355	5051	7106
	70/55	918	1178	1433	1685	2438	1645	2079	2499	2905	4078	2392	2987	3562	4125	5799
	55/45	613	789	963	1137	1639	1107	1398	1677	1946	2742	1609	2005	2384	2754	3865



RADIK® CLEAN, CLEAN VK

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 10 CLEAN Type 10 CLEAN VK					Type 20S CLEAN Type 20S CLEAN VK					Type 30 CLEAN Type 30 CLEAN VK				
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]														
		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
400	90/70	167	214	259	304	441	297	376	452	526	737	432	540	646	749	1055
	75/65	132	169	206	242	350	236	298	359	417	585	343	429	512	593	834
	70/55	105	135	165	194	280	189	239	287	334	469	275	343	409	473	665
	55/45	66	86	105	124	178	120	152	182	211	298	175	218	258	298	418
500	90/70	209	267	324	379	551	371	470	565	658	921	540	676	807	937	1319
	75/65	165	212	257	302	438	295	373	449	522	732	429	536	640	741	1042
	70/55	132	169	206	242	350	237	299	359	417	586	344	429	511	591	831
	55/45	83	107	131	155	222	151	190	228	264	372	219	272	323	373	523
600	90/70	250	320	388	455	661	445	564	678	790	1105	648	811	969	1124	1582
	75/65	198	254	308	362	525	354	448	538	626	878	515	643	767	889	1250
	70/55	158	203	247	291	420	284	359	431	500	703	413	515	613	710	997
	55/45	99	128	157	186	267	181	228	273	317	447	262	326	388	447	627
700	90/70	292	374	453	531	771	520	658	791	921	1289	756	946	1130	1312	1846
	75/65	231	296	360	423	613	413	522	628	730	1024	601	750	895	1037	1459
	70/55	184	237	288	339	491	331	418	503	584	821	481	601	715	828	1163
	55/45	116	150	183	217	311	211	266	319	369	521	306	381	452	522	732
800	90/70	334	427	518	607	882	594	751	904	1053	1473	864	1081	1292	1499	2110
	75/65	264	338	411	483	700	472	597	718	834	1170	686	858	1023	1186	1667
	70/55	211	271	329	388	561	378	478	574	667	938	550	686	818	946	1329
	55/45	133	171	209	248	356	241	304	364	422	596	350	435	517	596	836
900	90/70	376	480	582	683	992	668	845	1018	1184	1658	972	1216	1453	1686	2374
	75/65	297	381	463	544	788	531	671	807	939	1317	772	965	1151	1334	1876
	70/55	237	304	371	436	631	426	538	646	751	1055	619	772	920	1064	1495
	55/45	149	193	235	278	400	271	342	410	475	670	394	490	581	671	941
1000	90/70	417	534	647	759	1102	742	939	1131	1316	1842	1080	1351	1614	1874	2637
	75/65	330	423	514	604	875	590	746	897	1043	1463	858	1072	1279	1482	2084
	70/55	263	338	412	485	701	473	598	718	834	1172	688	858	1022	1183	1661
	55/45	166	214	262	309	445	301	380	455	528	745	437	544	646	745	1045
1100	90/70	459	587	712	835	1212	816	1033	1244	1447	2026	1188	1486	1776	2061	2901
	75/65	363	465	565	664	963	649	821	987	1147	1609	944	1179	1407	1630	2292
	70/55	290	372	453	533	771	520	657	790	917	1289	756	944	1124	1301	1828
	55/45	182	235	288	340	489	331	418	501	581	819	481	598	711	820	1150
1200	90/70	501	641	777	911	1322	891	1127	1357	1579	2210	1296	1621	1937	2248	3165
	75/65	396	508	617	725	1050	708	895	1076	1252	1756	1030	1286	1535	1778	2501
	70/55	316	406	494	582	841	568	717	861	1001	1407	825	1030	1227	1419	1994
	55/45	199	257	314	371	534	361	456	546	633	894	525	653	775	894	1254
1400	90/70	584	747	906	1062	1543	1039	1315	1583	1842	2578	1512	1892	2260	2623	3692
	75/65	462	592	720	846	1225	826	1044	1256	1460	2048	1201	1501	1791	2075	2918
	70/55	369	473	576	679	981	662	837	1005	1168	1641	963	1201	1431	1656	2326
	55/45	232	299	366	433	623	421	531	637	739	1043	612	762	905	1043	1463
1600	90/70	668	854	1035	1214	1763	1188	1503	1809	2105	2947	1728	2162	2583	2998	4220
	75/65	528	677	822	966	1400	944	1194	1435	1669	2341	1373	1715	2046	2371	3334
	70/55	421	541	659	776	1121	757	956	1149	1334	1876	1100	1373	1635	1892	2658
	55/45	265	342	419	495	712	482	607	728	844	1192	700	870	1034	1192	1672
1800	90/70	751	961	1165	1366	1984	1336	1691	2035	2369	3315	1943	2432	2906	3372	4747
	75/65	594	761	925	1087	1575	1062	1343	1615	1877	2633	1544	1930	2302	2668	3751
	70/55	474	609	741	873	1261	852	1076	1292	1501	2110	1238	1544	1840	2129	2991
	55/45	298	385	471	557	801	542	683	819	950	1341	787	979	1163	1342	1881
2000	90/70	835	1068	1294	1518	2204	1484	1879	2261	2632	3683	2159	2702	3229	3747	5274
	75/65	660	846	1028	1208	1750	1180	1492	1794	2086	2926	1716	2144	2558	2964	4168
	70/55	526	676	824	970	1402	946	1195	1436	1668	2344	1375	1716	2044	2365	3323
	55/45	332	428	523	619	890	602	759	910	1055	1490	875	1088	1292	1491	2090
2300	90/70	960	1228	1488	1745	2535	1707	2160	2600	3026	4236	2483	3107	3713	4309	6066
	75/65	759	973	1182	1389	2013	1357	1716	2063	2399	3365	1973	2466	2942	3409	4793
	70/55	605	778	947	1115	1612	1088	1374	1651	1918	2696	1582	1973	2351	2720	3821
	55/45	381	492	602	712	1023	692	873	1047	1214	1713	1006	1251	1486	1714	2404
2600	90/70	1085	1388	1683	1973	2865	1930	2442	2939	3421	4788	2807	3513	4198	4871	6857
	75/65	858	1100	1336	1570	2275	1534	1940	2332	2712	3804	2231	2787	3325	3853	5418
	70/55	684	879	1071	1261	1822	1230	1554	1866	2168	3048	1788	2231	2658	3075	4320
	55/45	431	556	680	804	1157	783	987	1183	1372	1937	1137	1414	1680	1938	2717
3000	90/70	1252	1601	1942	2276	3306	2227	2818	3392	3948	5525	3239	4053	4843	5621	7912
	75/65	990	1269	1542	1812	2625	1770	2238	2691	3129	4389	2574	3216	3837	4446	6252
	70/55	790	1014	1235	1455	2102	1419	1793	2154	2502	3517	2063	2574	3066	3548	4984
	55/45	497	642	785	928	1335	903	1139	1365	1583	2235	1312	1632	1938	2236	3133



RADIK® CLEAN, CLEAN VK

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

22 °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	900	300	400	500	600	900	300	400	500	600	900
400	90/70	159	204	247	290	421	284	359	432	503	704	413	516	617	716	1007
	75/65	125	160	195	229	332	224	283	340	395	555	325	406	485	561	789
	70/55	99	127	154	182	263	177	224	269	313	440	258	322	383	443	622
	55/45	60	78	95	113	162	110	138	166	192	272	160	198	235	271	380
500	90/70	199	255	309	363	527	355	449	540	629	880	516	646	771	895	1259
	75/65	156	200	244	286	415	280	353	425	494	693	407	508	606	702	986
	70/55	123	158	193	227	329	222	280	336	391	550	322	402	479	554	778
	55/45	75	97	119	141	203	137	173	207	240	340	200	248	294	339	476
600	90/70	239	306	371	435	632	426	539	648	754	1056	619	775	925	1074	1511
	75/65	187	240	292	344	498	336	424	510	593	832	488	609	727	842	1184
	70/55	148	190	232	273	394	266	336	404	469	659	387	483	575	665	933
	55/45	91	117	143	169	243	165	208	249	289	408	239	298	353	407	571
700	90/70	279	357	433	508	737	497	628	756	880	1232	722	904	1080	1253	1763
	75/65	219	280	341	401	580	391	495	595	692	971	569	711	848	982	1381
	70/55	173	222	270	318	460	311	392	471	547	769	451	563	670	775	1089
	55/45	106	136	167	198	284	192	242	290	337	476	279	347	412	475	666
800	90/70	319	408	495	580	843	568	718	864	1006	1408	826	1033	1234	1432	2015
	75/65	250	321	390	458	663	447	566	680	790	1109	651	813	969	1123	1578
	70/55	197	253	309	364	526	355	448	538	625	879	516	643	766	886	1244
	55/45	121	156	191	226	325	220	277	332	385	544	319	397	471	543	761
900	90/70	359	459	557	653	948	639	808	972	1132	1584	929	1162	1388	1610	2266
	75/65	281	361	438	515	746	503	636	765	889	1248	732	914	1090	1263	1775
	70/55	222	285	347	409	591	399	504	606	703	989	580	724	862	997	1400
	55/45	136	175	215	254	365	247	312	373	433	612	359	446	530	611	856
1000	90/70	399	510	619	726	1053	710	898	1080	1257	1760	1032	1291	1542	1789	2518
	75/65	312	401	487	573	829	559	707	850	988	1387	813	1016	1211	1403	1973
	70/55	247	317	386	455	657	444	560	673	782	1099	645	804	958	1108	1556
	55/45	151	195	239	282	406	275	346	415	481	680	399	496	589	679	951
1100	90/70	438	561	680	798	1159	781	988	1188	1383	1936	1135	1420	1697	1968	2770
	75/65	344	441	536	630	912	615	778	935	1087	1525	895	1117	1333	1543	2170
	70/55	271	349	425	500	723	488	616	740	860	1209	709	885	1053	1218	1711
	55/45	166	214	262	311	446	302	381	456	529	747	439	546	648	747	1046
1200	90/70	478	612	742	871	1264	851	1077	1297	1509	2113	1239	1549	1851	2147	3022
	75/65	375	481	585	687	995	671	848	1020	1186	1664	976	1219	1454	1684	2367
	70/55	296	380	463	546	788	532	672	807	938	1319	774	965	1149	1329	1867
	55/45	181	234	286	339	487	330	415	498	577	815	479	595	706	814	1141
1400	90/70	558	714	866	1016	1475	993	1257	1513	1760	2465	1445	1808	2159	2505	3526
	75/65	437	561	682	802	1161	783	990	1190	1383	1941	1139	1422	1696	1964	2762
	70/55	345	444	541	637	920	621	784	942	1094	1539	903	1126	1341	1551	2178
	55/45	211	273	334	395	568	385	485	581	673	951	559	694	824	950	1332
1600	90/70	638	816	990	1161	1685	1135	1437	1729	2012	2817	1651	2066	2468	2863	4029
	75/65	500	641	779	916	1327	895	1131	1360	1581	2218	1301	1625	1938	2245	3156
	70/55	394	507	618	728	1051	710	896	1077	1250	1759	1032	1287	1532	1772	2489
	55/45	242	312	382	452	649	440	554	664	770	1087	638	794	942	1086	1522
1800	90/70	717	918	1113	1306	1896	1277	1616	1945	2263	3169	1858	2324	2776	3221	4533
	75/65	562	721	877	1031	1493	1007	1273	1530	1778	2496	1464	1828	2180	2526	3551
	70/55	444	570	695	819	1183	799	1009	1211	1407	1978	1161	1448	1724	1994	2800
	55/45	272	351	429	508	730	494	623	747	866	1223	718	893	1060	1222	1712
2000	90/70	797	1020	1237	1451	2107	1419	1796	2161	2514	3521	2064	2582	3085	3579	5037
	75/65	625	801	974	1145	1658	1119	1414	1700	1976	2773	1626	2031	2423	2806	3945
	70/55	493	634	772	910	1314	887	1121	1346	1563	2198	1290	1608	1915	2215	3111
	55/45	302	390	477	565	812	549	692	830	962	1359	798	992	1177	1357	1902
2300	90/70	917	1173	1423	1669	2423	1632	2065	2485	2892	4049	2374	2970	3547	4116	5792
	75/65	719	922	1120	1317	1907	1286	1626	1955	2272	3189	1870	2336	2786	3227	4537
	70/55	567	729	888	1046	1511	1020	1289	1548	1797	2528	1483	1850	2203	2547	3578
	55/45	347	448	549	650	933	632	796	954	1106	1563	918	1141	1354	1561	2188
2600	90/70	1036	1326	1608	1887	2738	1845	2334	2809	3269	4577	2684	3357	4010	4652	6547
	75/65	812	1042	1267	1489	2156	1454	1838	2210	2569	3605	2114	2641	3150	3648	5129
	70/55	641	824	1004	1183	1708	1154	1457	1750	2032	2858	1677	2091	2490	2880	4044
	55/45	392	507	620	734	1055	714	900	1079	1251	1767	1037	1290	1531	1765	2473
3000	90/70	1196	1530	1856	2177	3160	2129	2694	3241	3772	5281	3096	3873	4627	5368	7555
	75/65	937	1202	1461	1718	2488	1678	2121	2550	2964	4160	2440	3047	3634	4209	5918
	70/55	740	951	1158	1365	1971	1331	1681	2019	2345	3297	1935	2413	2873	3323	4667
	55/45	453	585	716	847	1217	824	1039	1245	1443	2039	1197	1488	1766	2036	2854



RADIK® RADIK KLASIK - R

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

15 °C		Type 20 R	Type 21 R	Type 22 R	Type 33 R
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]			
		554	554	554	554
400	90/70	511	682	889	1274
	75/65	414	550	716	1026
	70/55	340	449	585	837
	55/45	229	300	390	558
500	90/70	639	852	1111	1593
	75/65	518	687	896	1283
	70/55	425	561	731	1047
	55/45	286	375	487	697
600	90/70	767	1023	1334	1911
	75/65	621	825	1075	1539
	70/55	510	674	877	1256
	55/45	343	450	585	837
700	90/70	895	1193	1556	2230
	75/65	725	962	1254	1796
	70/55	595	786	1023	1465
	55/45	400	525	682	976
800	90/70	1023	1364	1778	2548
	75/65	828	1100	1433	2052
	70/55	680	898	1169	1675
	55/45	458	600	780	1116
900	90/70	1150	1534	2001	2867
	75/65	932	1237	1612	2309
	70/55	764	1010	1316	1884
	55/45	515	674	877	1255
1000	90/70	1278	1705	2223	3185
	75/65	1035	1375	1791	2566
	70/55	849	1123	1462	2093
	55/45	572	749	975	1395
1100	90/70	1406	1875	2445	3504
	75/65	1139	1512	1970	2822
	70/55	934	1235	1608	2303
	55/45	629	824	1072	1534
1200	90/70	1534	2046	2667	3822
	75/65	1243	1650	2149	3079
	70/55	1019	1347	1754	2512
	55/45	686	899	1169	1674
1400	90/70	1789	2387	3112	4459
	75/65	1450	1924	2508	3592
	70/55	1189	1572	2047	2931
	55/45	801	1049	1364	1953
1600	90/70	2045	2728	3557	5096
	75/65	1657	2199	2866	4105
	70/55	1359	1796	2339	3349
	55/45	915	1199	1559	2232
1800	90/70	2301	3069	4001	5733
	75/65	1864	2474	3224	4618
	70/55	1529	2021	2631	3768
	55/45	1030	1349	1754	2510
2000	90/70	2556	3409	4446	6370
	75/65	2071	2749	3582	5131
	70/55	1699	2245	2924	4187
	55/45	1144	1499	1949	2789
2300	90/70	2940	3921	5113	7326
	75/65	2382	3162	4120	5901
	70/55	1954	2582	3362	4815
	55/45	1316	1724	2242	3208
2600	90/70	3323	4432	5780	8281
	75/65	2692	3574	4657	6671
	70/55	2208	2919	3801	5443
	55/45	1487	1949	2534	3626
3000	90/70	3834	5114	6669	9555
	75/65	3106	4124	5373	7697
	70/55	2548	3368	4386	6280
	55/45	1716	2248	2924	4184

18 °C		Type 20 R	Type 21 R	Type 22 R	Type 33 R
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]			
		554	554	554	554
400	90/70	480	640	834	1195
	75/65	385	510	664	952
	70/55	312	411	535	766
	55/45	203	266	345	494
500	90/70	600	800	1042	1493
	75/65	481	638	831	1190
	70/55	390	514	669	958
	55/45	254	332	432	618
600	90/70	720	960	1251	1792
	75/65	577	765	997	1428
	70/55	467	617	803	1149
	55/45	305	398	518	741
700	90/70	840	1119	1459	2091
	75/65	674	893	1163	1665
	70/55	545	719	936	1341
	55/45	356	465	604	865
800	90/70	961	1279	1668	2390
	75/65	770	1020	1329	1903
	70/55	623	822	1070	1532
	55/45	407	531	691	988
900	90/70	1081	1439	1876	2688
	75/65	866	1148	1495	2141
	70/55	701	925	1204	1724
	55/45	457	598	777	1112
1000	90/70	1201	1599	2085	2987
	75/65	962	1275	1661	2379
	70/55	779	1028	1338	1915
	55/45	508	664	863	1235
1100	90/70	1321	1759	2293	3286
	75/65	1058	1403	1827	2617
	70/55	857	1130	1472	2107
	55/45	559	730	949	1359
1200	90/70	1441	1919	2502	3584
	75/65	1155	1530	1993	2855
	70/55	935	1233	1605	2299
	55/45	610	797	1036	1482
1400	90/70	1681	2239	2919	4182
	75/65	1347	1785	2326	3331
	70/55	1091	1439	1873	2682
	55/45	711	930	1208	1729
1600	90/70	1921	2559	3336	4779
	75/65	1539	2040	2658	3807
	70/55	1247	1644	2141	3065
	55/45	813	1062	1381	1976
1800	90/70	2161	2879	3753	5377
	75/65	1732	2295	2990	4283
	70/55	1402	1850	2408	3448
	55/45	915	1195	1554	2223
2000	90/70	2401	3198	4170	5974
	75/65	1924	2550	3322	4759
	70/55	1558	2055	2676	3831
	55/45	1016	1328	1726	2470
2300	90/70	2762	3678	4795	6870
	75/65	2213	2933	3821	5472
	70/55	1792	2364	3077	4406
	55/45	1169	1527	1985	2841
2600	90/70	3122	4158	5421	7766
	75/65	2502	3316	4319	6186
	70/55	2026	2672	3478	4980
	55/45	1321	1726	2244	3211
3000	90/70	3602	4798	6255	8961
	75/65	2886	3826	4984	7138
	70/55	2337	3083	4014	5746
	55/45	1525	1992	2590	3705



RADIK® RADIK KLASIK - R

HEAT OUTPUT IN WATTS CERTIFIED TO EN 442

20 °C		Type 20 R	Type 21 R	Type 22 R	Type 33 R
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]			
		554	554	554	554
400	90/70	460	612	798	1143
	75/65	366	484	630	903
	70/55	293	386	503	720
500	90/70	575	765	997	1428
	75/65	457	605	788	1129
	70/55	366	483	628	900
600	90/70	690	918	1196	1714
	75/65	548	726	946	1354
	70/55	440	579	754	1079
700	90/70	805	1071	1396	2000
	75/65	640	847	1103	1580
	70/55	513	676	880	1259
800	90/70	920	1224	1595	2285
	75/65	731	968	1261	1806
	70/55	586	772	1005	1439
900	90/70	1035	1377	1795	2571
	75/65	823	1089	1418	2031
	70/55	660	869	1131	1619
1000	90/70	1150	1530	1994	2857
	75/65	914	1210	1576	2257
	70/55	733	966	1257	1799
1100	90/70	1265	1683	2193	3142
	75/65	1005	1331	1734	2483
	70/55	806	1062	1382	1979
1200	90/70	1380	1836	2393	3428
	75/65	1097	1452	1891	2708
	70/55	880	1159	1508	2159
1400	90/70	1609	2142	2792	3999
	75/65	1280	1694	2206	3160
	70/55	1026	1352	1759	2519
1600	90/70	1839	2448	3190	4571
	75/65	1462	1936	2522	3611
	70/55	1173	1545	2011	2878
1800	90/70	2069	2754	3589	5142
	75/65	1645	2178	2837	4063
	70/55	1319	1738	2262	3238
2000	90/70	2299	3059	3988	5713
	75/65	1828	2420	3152	4514
	70/55	1466	1931	2513	3598
2300	90/70	2644	3518	4586	6570
	75/65	2102	2783	3625	5191
	70/55	1686	2221	2890	4138
2600	90/70	2989	3977	5184	7427
	75/65	2376	3146	4098	5868
	70/55	1906	2510	3267	4678
3000	90/70	3449	4589	5982	8570
	75/65	2742	3630	4728	6771
	70/55	2199	2897	3770	5397
	55/45	1400	1825	2372	3394

22 °C		Type 20 R	Type 21 R	Type 22 R	Type 33 R
Length L [mm]	t ₁ /t ₂ [°C]	Height H [mm]			
		554	554	554	554
400	90/70	440	584	762	1091
	75/65	347	458	597	855
	70/55	275	362	471	674
500	90/70	550	730	952	1364
	75/65	433	573	746	1068
	70/55	344	452	588	842
600	90/70	659	877	1142	1637
	75/65	520	687	895	1282
	70/55	412	543	706	1011
700	90/70	769	1023	1333	1909
	75/65	606	802	1044	1495
	70/55	481	633	824	1179
800	90/70	879	1169	1523	2182
	75/65	693	916	1194	1709
	70/55	550	723	941	1347
900	90/70	989	1315	1714	2455
	75/65	780	1031	1343	1923
	70/55	619	814	1059	1516
1000	90/70	1099	1461	1904	2728
	75/65	866	1146	1492	2136
	70/55	687	904	1177	1684
1100	90/70	1209	1607	2095	3000
	75/65	953	1260	1641	2350
	70/55	756	995	1294	1853
1200	90/70	1319	1753	2285	3273
	75/65	1040	1375	1790	2564
	70/55	825	1085	1412	2021
1400	90/70	1539	2045	2666	3819
	75/65	1213	1604	2089	2991
	70/55	962	1266	1647	2358
1600	90/70	1759	2338	3047	4364
	75/65	1386	1833	2387	3418
	70/55	1100	1447	1883	2695
1800	90/70	1978	2630	3427	4910
	75/65	1560	2062	2685	3845
	70/55	1237	1628	2118	3032
2000	90/70	2198	2922	3808	5455
	75/65	1733	2291	2984	4273
	70/55	1375	1809	2353	3369
2300	90/70	2528	3360	4379	6274
	75/65	1993	2635	3431	4914
	70/55	1581	2080	2706	3874
2600	90/70	2858	3799	4951	7092
	75/65	2253	2979	3879	5555
	70/55	1787	2351	3059	4379
3000	90/70	3297	4383	5712	8183
	75/65	2599	3437	4476	6409
	70/55	2062	2713	3530	5053
	55/45	1277	1662	2159	3089



RADIK® COMBI VK

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	1577	1845	1419	1658	1357	1585	26,64	29,56	4,9	5,7	600	700
	75/65	1278	1493	1129	1317	1070	1248						
	70/55	1049	1223	906	1055	850	989						
	55/45	707	822	577	670	527	611						
1000	90/70	1972	2306	1774	2073	1696	1981	30,80	36,90	6,2	7,1	800	900
	75/65	1598	1866	1411	1646	1338	1560						
	70/55	1311	1529	1132	1318	1062	1236						
	55/45	884	1027	721	837	658	763						
1200	90/70	2366	2767	2129	2488	2035	2378	36,96	44,28	7,4	8,5	900	1000
	75/65	1918	2239	1693	1975	1605	1872						
	70/55	1574	1835	1358	1582	1274	1483						
	55/45	1061	1233	866	1004	790	916						
1400	90/70	2760	3229	2483	2902	2374	2774	43,12	51,66	8,7	9,9	1000	1200
	75/65	2237	2612	1975	2304	1873	2184						
	70/55	1836	2141	1585	1846	1487	1730						
	55/45	1238	1438	1010	1172	922	1069						
1600	90/70	3155	3690	2838	3317	2714	3170	49,28	59,04	9,9	11,4	1200	1350
	75/65	2557	2986	2258	2634	2140	2496						
	70/55	2098	2446	1811	2109	1699	1977						
	55/45	1414	1644	1154	1339	1053	1221						

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.

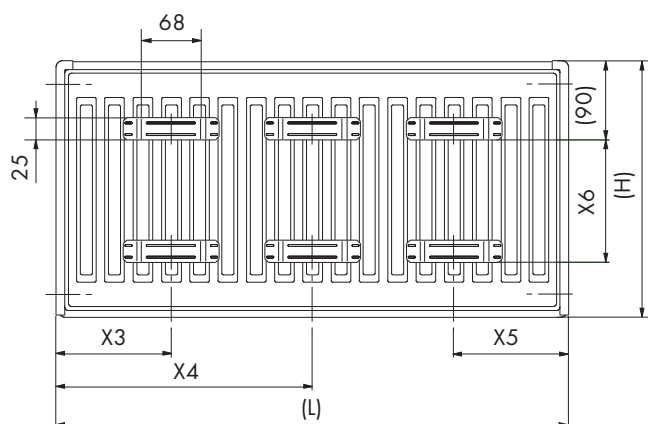
RADIK COMBI VK

		Type 22 COMBI VK	
Height H [mm]		500	600
Standard heat output [W/m]		1411	1646
Temp. exponent n [-]		1,2981	1,3085
K_r	c_0	15,43760	1,31477
b	c_1	0,87128	-0,01226
Radiator weight [kg/m]		30,80	36,90
Water volume [l/m]		6,2	7,1



RADIK® DATA FOR FITTINGS

Location of hangers



Position of radiator

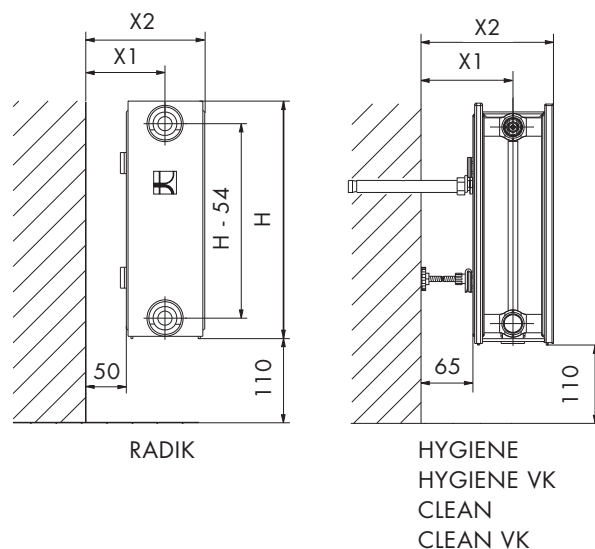


Table of sizes

Length L [mm]		400	500 - 1600	1800	2000	2300	2600	3000
X3	A	133	133	133	133	133	133	133
	B	167	167	167	167	167	167	167
	C	117	150	150	150	150	150	150
	D	100	133	133	133	133	133	133
X4	A	-	-	900	1000	1133	1300	1500
	B	-	-	900	1000	1133	1300	1500
	C	-	-	883	983	1150	1283	1483
	D	-	-	900	1000	1133	1300	1500
X5	A	133	133	133	133	133	133	133
	B	100	133	133	133	133	133	133
	C	117	150	150	150	150	150	150
	D	167	167	167	167	167	167	167

A - for types 10, 20, 20S, 21, 22, 22 COMBI VK, 30, 33, 20 VK, 20 VKL, 20S VK, 21 VK, 21 VKL, 22 VK, 22 VKL, 30 VK, 33 VK, 33 VKL

B - for type 10 VK

C - for types 11, 11 VK, 11 VKL

D - for type 10 VKL

PLAN KLASIK = HYGIENE = CLEAN = KLASIK

PLAN VK = HYGIENE VK = CLEAN VK = VKM = VK

PLAN 11 VKL = 11 VKL

Table of sizes

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

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

Notice:

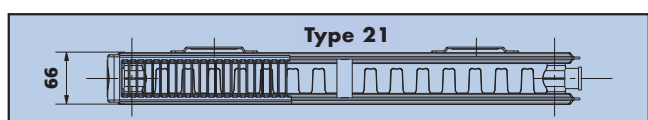
The values of parameters **X1** and **X2** depend on type of brackets applied.

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.

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



Overview of types

Type	Number of panels	Number of converter 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 33	3	3



RADIK® BASIC TECHNICAL PARAMETERS

RADIK KLASIK, RADIK VK, 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 Type 20 VKL Type 20 VKU				
Height H [mm]		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		330	423	514	604	875	549	708	858	1002	1394	554	698	838	978	1398
Temp. exponent n [-]		1,3319	1,3193	1,3068	1,2942	1,3083	1,3156	1,3140	1,3123	1,3107	1,3206	1,2986	1,2995	1,3005	1,3014	1,3548
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]		6,38	8,40	10,41	12,43	19,20	10,42	14,15	17,87	21,60	32,80	13,00	17,23	21,47	25,70	38,70
Water volume [l/m]		1,9	2,3	2,7	3,1	4,3	1,9	2,3	2,7	3,1	4,3	3,7	4,4	5,1	5,8	8,3
Flow coefficient A _T [m²]		6,5 x 10 ⁻⁵ (DN 15)					6,5 x 10 ⁻⁵ (DN 15)					1,0 x 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_r apply only to the model RADIK KLASIK.

RADIK VKM

		Type 10 VKM					Type 11 VKM					Type 20 VKM				
Height H [mm]		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		375	476	572	665	922	533	683	831	979	1432	627	784	934	1080	1502
Temp. exponent n [-]		1,2945	1,3013	1,3081	1,3149	1,3331	1,2583	1,2772	1,2962	1,3151	1,3291	1,2960	1,3027	1,3093	1,3160	1,3456
K _r	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]		6,90	8,77	10,63	12,50	18,50	10,29	13,48	16,67	19,86	31,00	13,67	17,58	21,50	25,42	37,50
Water volume [l/m]		1,9	2,3	2,7	3,1	4,5	1,9	2,3	2,7	3,1	4,5	3,7	4,5	5,3	6,2	8,7

RADIK MM

		Type 10 MM					Type 11 MM					Type 20 MM				
Height H [mm]		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		359	464	564	661	927	572	728	876	1017	1404	581	735	884	1032	1469
Temp. exponent n [-]		1,2848	1,2852	1,2856	1,286	1,3011	1,2631	1,2693	1,2754	1,2816	1,3014	1,2893	1,2982	1,3071	1,3160	1,3321
K _r	c ₀	0,01042300			1,31201000		0,02394200			1,30032000		0,04454500			1,29117000	
b	c ₁	0,93910200			-0,00003545		0,88171000			-0,00002999		0,76841900			0,00003559	
Radiator weight [kg/m]		6,38	8,40	10,41	12,43	19,20	10,42	14,15	17,87	21,60	32,80	13,00	17,23	21,47	25,70	38,70
Water volume [l/m]		1,9	2,3	2,7	3,1	4,3	1,9	2,3	2,7	3,1	4,3	3,7	4,4	5,1	5,8	8,3
Flow coefficient A _r [m²]		3,399 x 10 ⁻⁵ (DN 15)					3,399 x 10 ⁻⁵ (DN 15)					3,906 x 10 ⁻⁵ (DN 15)				
Resistance coefficient ξ _r [-]		70 (DN 15)					70 (DN 15)					53 (DN 15)				



RADIK® BASIC TECHNICAL PARAMETERS

RADIK KLASIK, RADIK VK, 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	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		745	937	1117	1288	1754	966	1216	1452	1679	2313	1379	1738	2079	2406	3328
Temp. exponent n [-]		1,3197	1,3238	1,3278	1,3319	1,3578	1,3297	1,3316	1,3334	1,3353	1,3574	1,2977	1,3129	1,3282	1,3434	1,3626
K _T	c ₀	0,03399300			1,35050000		0,05120200			1,34380000		0,07428700			1,33630000	
b	c ₁	0,83090000			-0,00002395		0,80550000			-0,00000514		0,80730000			-0,00000262	
Radiator weight [kg/m]		15,60	20,57	25,53	30,50	47,00	18,40	24,37	30,33	36,30	56,30	27,70	36,83	45,97	55,10	84,50
Water volume [l/m]		3,7	4,4	5,1	5,8	8,3	3,7	4,4	5,1	5,8	8,4	5,3	6,4	7,6	8,7	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

		Type 21 VKM					Type 22 VKM					Type 33 VKM				
Height H [mm]		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		748	937	1118	1294	1802	950	1204	1447	1680	2335	1331	1716	2075	2411	3286
Temp. exponent n [-]		1,3135	1,3259	1,3384	1,3508	1,3791	1,2985	1,3122	1,3260	1,3397	1,3609	1,3190	1,3273	1,3357	1,3440	1,3708
K _r	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]		15,50	20,22	24,94	29,67	45,17	17,90	23,60	29,30	35,00	54,00	26,20	34,70	43,20	51,70	80,75
Water volume [l/m]		3,7	4,5	5,3	6,2	8,7	3,7	4,5	5,3	6,2	8,9	5,4	6,7	8,0	9,3	13,0

RADIK MM

		Type 21 MM					Type 22 MM					Type 33 MM				
Height H [mm]		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		736	932	1114	1284	1731	982	1233	1472	1702	2357	1279	1665	2028	2369	3258
Temp. exponent n [-]		1,2990	1,3075	1,3161	1,3246	1,3517	1,2941	1,3069	1,3197	1,3325	1,3408	1,3036	1,3122	1,3208	1,3294	1,3487
K _T	c ₀	0,02336240			1,35811000		0,06657990			1,31712000		0,01766570			1,37772000	
b	c ₁	0,89572800			-0,00005488		0,77778600			0,00000880		1,03453000			-0,00008574	
Radiator weight [kg/m]		15,60	20,57	25,53	30,50	47,00	18,40	24,37	30,33	36,30	56,30	27,70	36,83	45,97	55,10	84,50
Water volume [l/m]		3,7	4,4	5,1	5,8	8,3	3,7	4,4	5,1	5,8	8,4	5,3	6,4	7,6	8,7	12,6
Flow coefficient A _T [m²]		3,906 x 10 ⁻⁵ (DN 15)					3,906 x 10 ⁻⁵ (DN 15)					3,906 x 10 ⁻⁵ (DN 15)				
Resistance coefficient ξ _T [-]		53 (DN 15)					53 (DN 15)					53 (DN 15)				



RADIK® BASIC TECHNICAL PARAMETERS

RADIK PLAN KLASIK, RADIK PLAN VK, RADIK PLAN VKL

		Type 10 PLAN Type 10 PLAN VK Type 10 PLAN VKL					Type 11 PLAN Type 11 PLAN VK Type 11 PLAN VKL					Type 20 PLAN Type 20 PLAN VK Type 20 PLAN VKL				
Height H [mm]		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		305	389	470	550	787	533	678	818	953	1337	530	657	780	903	1273
Temp. exponent n [-]		1.3150	1.2981	1.2813	1.2644	1.2979	1.2683	1.2683	1.2682	1.2682	1.3015	1.2804	1.2803	1.2801	1.2800	1.2978
K_T	c_0	0,01918200			1,28816000		0,02916400			1,28020000		0,08742900			1,24660000	
b	c_1	0,81440000			0,00001277		0,84290000			-0,00000253		0,65840000			0,00006546	
Radiator weight [kg/m]		8,94	11,60	14,27	16,93	26,80	12,98	17,35	21,73	26,10	40,40	15,75	20,63	25,52	30,40	46,30
Water volume [l/m]		1,9	2,3	2,7	3,1	4,3	1,9	2,3	2,7	3,1	4,3	3,7	4,4	5,1	5,8	8,3
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 PLAN KLASIK.

RADIK PLAN VKM

		Type 10 PLAN VKM					Type 11 PLAN VKM					Type 20 PLAN VKM				
Height H [mm]		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		333	423	510	593	831	530	658	780	897	1231	587	721	848	969	1307
Temp. exponent n [-]		1,2835	1,2866	1,3005	1,2929	1,2701	1,2617	1,2698	1,2778	1,2859	1,3249	1,2836	1,2865	1,2895	1,2924	1,3117
K_T	c_0	0,01898350			1,28222000		0,05473850			1,27950000		0,06835010			1,28816000	
b	c_1	0,83406000			-0,00000009		0,72786000			0,00001831		0,70185000			0,00001277	
Radiator weight [kg/m]		8,71	11,32	14,11	16,54	24,47	13,13	16,81	20,50	24,19	35,25	16,33	20,78	25,22	29,67	43,00
Water volume [l/m]		1,9	2,3	2,7	3,1	4,5	1,9	2,3	2,7	3,1	4,5	3,7	4,5	5,3	6,2	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	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		330	423	514	604	875	590	746	897	1043	1463	858	1072	1279	1482	2084
Temp. exponent n [-]		1,3319	1,3193	1,3068	1,2942	1,3083	1,3018	1,3072	1,3127	1,3181	1,3058	1,3037	1,3124	1,3212	1,3299	1,3355
K_T	c_0	0,01983700			1,29050000		0,03582000			1,30280000		0,08627700			1,29690000	
b	c_1	0,81190000			0,00003492		0,80660000			0,00000963		0,71530000			0,00004341	
Radiator weight [kg/m]		6,38	8,40	10,41	12,43	19,20	12,80	16,77	20,73	24,70	36,70	19,00	24,73	30,47	36,20	56,60
Water volume [l/m]		1,9	2,3	2,7	3,1	4,3	3,7	4,4	5,1	5,8	8,3	5,3	6,4	7,6	8,7	12,6
Flow coefficient A_T [m ²]		$6,5 \times 10^{-5}$ (DN 15)					$1,0 \times 10^{-4}$ (DN 15)					$1,18 \times 10^{-4}$ (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.



RADIK® BASIC TECHNICAL PARAMETERS

RADIK PLAN KLASIK, RADIK PLAN VK, RADIK PLAN VKL

		Type 21 PLAN Type 21 PLAN VK Type 21 PLAN VKL					Type 22 PLAN Type 22 PLAN VK Type 22 PLAN VKL					Type 33 PLAN Type 33 PLAN VK Type 33 PLAN VKL				
Height H [mm]		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		727	896	1060	1222	1711	948	1187	1414	1631	2243	1337	1689	2022	2341	3231
Temp. exponent n [-]		1,3098	1,3145	1,3192	1,3239	1,3455	1,3141	1,3174	1,3208	1,3241	1,3314	1,3284	1,3252	1,3219	1,3187	1,3565
K _T	c ₀	0,11665000			1,28640000		0,06239700			1,32230000		0,06322600			1,34170000	
b	c _i	0,63580000			0,00006698		0,78080000			0,00000157		0,82820000			-0,00001160	
Radiator weight [kg/m]		18,20	23,87	29,53	35,20	54,60	21,00	27,57	34,13	40,70	64,40	30,40	39,70	49,00	58,30	92,75
Water volume [l/m]		3,7	4,4	5,1	5,8	8,3	3,7	4,4	5,1	5,8	8,4	5,3	6,4	7,6	8,7	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 PLAN KLASIK.

RADIK PLAN VKM

		Type 21 PLAN VKM					Type 22 PLAN VKM					Type 33 PLAN VKM				
Height H [mm]		300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Standard heat output [W/m]		720	904	1072	1226	1617	914	1165	1400	1621	2215	1337	1689	2022	2341	3231
Temp. exponent n [-]		1,3019	1,3144	1,3268	1,3393	1,3553	1,2863	1,2990	1,3117	1,3244	1,3493	1,3284	1,3252	1,3219	1,3187	1,3565
K _r	c ₀	0,02292700			1,37408000		0,02809110			1,34778000		0,06322600			1,34170000	
b	c ₁	0,88738300			-0,00007040		0,90711100			-0,00004768		0,82820000			-0,00001160	
Radiator weight [kg/m]		17,92	23,72	29,53	35,33	52,75	19,80	26,67	33,53	40,40	61,00	28,70	38,17	47,63	57,10	85,50
Water volume [l/m]		3,7	4,5	5,3	6,2	8,7	3,7	4,5	5,3	6,2	8,9	5,4	6,7	8,0	9,3	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]		303	503	603	903	303	503	603	903	303	503	603	903
Standard heat output [W/m]		287	431	496	665	531	808	941	1330	762	1153	1333	1822
Temp. exponent n [-]		1,2577	1,2656	1,2695	1,2463	1,2649	1,2557	1,2512	1,2776	1,2737	1,2697	1,2677	1,3001
K _r	c ₀	5,66770		1,29117		10,00560		1,25240		13,78020		1,29919	
b	c _i	0,88776		-0,05518		0,79639		0,02021		0,86461		-0,03112	
Radiator weight [kg/m]		8,80	14,00	16,70	25,30	15,60	25,10	29,80	46,00	24,90	37,50	43,90	63,50
Water volume [l/m]		1,9	2,7	3,1	4,3	3,7	5,1	5,8	8,4	5,3	7,6	8,7	12,6
Flow coefficient A _r [m²]		6,5 x 10 ⁻⁵ (DN 15)				1,0 x 10 ⁻⁴ (DN 15)				1,18 x 10 ⁻⁴ (DN 15)			
Resistance coefficient ξ _r [-]		19,0 (DN 15)				8,5 (DN 15)				5,8 (DN 15)			

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



HM FITTINGS

Description

Connection fittings HM have been specially developed for steel panel radiators RADIK MM, 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.

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:

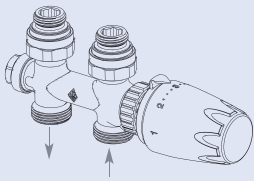
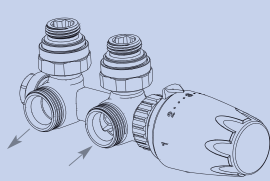
- integrated fittings in straight or angular design
- thermostatic head in white or chrome
- 2x reduction G 1/2 to G 3/4 with sealing "O" ring
- 2x flat sealing pieces from EPDM rubber
- assembly and operating instructions

Subject to special request, the following can be supplied:

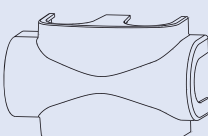
- universal cover for the fittings in white
- universal cover for the fittings in chrome

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 MM, RADIK PLAN VERTIKAL-M, RADIK LINE VERTIKAL-M
	KORALUX LINEAR CLASSIC-M, KORALUX LINEAR PLUS-M
KORALUX	KORALUX RONDO-M, KORALUX RONDO PLUS-M
	KORALUX TUBUS-M
KORATHERM	KORATHERM HORIZONTAL-M
	KORATHERM VERTIKAL-M

Note:

When using internal stand brackets Z-U130, Z-U330 for the RADIK MM model and Z-U580, Z-U581 stand brackets for the KORATHERM HORIZONTAL-M model, HM connection fittings can be used from 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.

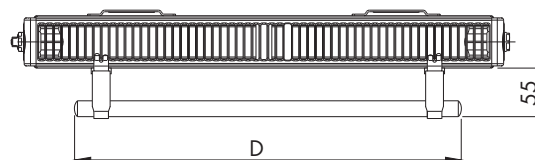


RADIK® ACCESSORIES

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 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**



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



RADIK® SVÚOM PRAHA – INFORMATION

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

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

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

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

1. REQUIREMENTS FOR SURFACE FINISH OF RADIATORS

1.1. General

The requirements concerning the surface finish of radiators are defined in German standard DIN 55 900 which bears the following title: "Surface finish of radiators. Terminology, requirements, tests. Surface finish made industrially."

The said standard relates to materials which are used for surface finish of radiators and it is binding for industrially made surface finish of radiators for hot water heating and low pressure steam heating (temperature of the heat-carrying medium up to 130 °C).

The object of the said standard is not surface finish of radiators operating with temperatures exceeding 130 °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:

The radiators with surface finish complying with the DIN 55

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	Uninsufficiently 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.

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 C 1 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 C 2 – C 5 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.



RADIK® SVÚOM PRAHA – INFORMATION

(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 – C 5 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 C 2 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 – C 5), 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 C 1, 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).



RADIK® QUALITY AND SAFETY

Quality of steel panel radiators RADIK

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

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	
	RADIK KLASIK, RADIK VK Type 11	
	RADIK KLASIK, RADIK VK Type 20	
	RADIK KLASIK, RADIK VK Type 21	
	RADIK KLASIK, RADIK VK Type 22	
	RADIK KLASIK, RADIK VK Type 33	
	RADIK PLAN KLASIK, RADIK PLAN VK Type 11	
	RADIK PLAN KLASIK, RADIK PLAN VK Type 20	
	RADIK PLAN KLASIK, RADIK PLAN VK Type 21	
	RADIK PLAN KLASIK, RADIK PLAN VK Type 22	
	RADIK PLAN KLASIK, RADIK PLAN VK Type 33	
		Height 500, 600 mm Length 400 - 2000 mm

Steel panel radiators RADIK

- safety and conformity with the European directives and standards

• European standard EN 442 for radiators



- **The conformity mark CE** indicates that steel panel radiators RADIK are in conformity with the EU directive 89/106/EHS (government regulation No. 190/2002 Sb.) and that this conformity was approved by the notified body No.1015, Strojírenský zkušební ústav, s.p. Brno.





RADIK® 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
0566	RADIK KLASIK	Type 11
	RADIK VK	Type 11
	RADIK VKL	Type 11
	RADIK VKM	Type 11
	RADIK STANDARD	Type 11
0567	RADIK VKM	Type 20
0568	RADIK KLASIK	Type 21
	RADIK VK	Type 21
	RADIK VKU	Type 21
	RADIK VKL	Type 21
	RADIK VKM	Type 21
	RADIK STANDARD	Type 21
0569	RADIK KLASIK	Type 22
	RADIK VK	Type 22
	RADIK VKU	Type 22
	RADIK VKL	Type 22
	RADIK VKM	Type 22
	RADIK STANDARD	Type 22
0570	RADIK KLASIK	Type 33
	RADIK VK	Type 33
	RADIK VKU	Type 33
	RADIK VKL	Type 33
	RADIK VKM	Type 33
	RADIK STANDARD	Type 33
0571	RADIK KLASIK	Type 10
	RADIK VK	Type 10
	RADIK VKL	Type 10
	RADIK CLEAN	Type 10
	RADIK CLEAN VK	Type 10
	RADIK STANDARD	Type 10
0572	RADIK KLASIK	Type 20
	RADIK VK	Type 20
	RADIK VKU	Type 20
	RADIK VKL	Type 20

Reg. No. GZ	Model	Type
0573	RADIK CLEAN	Type 20S
	RADIK CLEAN VK	Type 20S
	RADIK STANDARD	Type 20
0574	RADIK CLEAN	Type 30
	RADIK CLEAN VK	Type 30
	RADIK STANDARD	Type 30
0577	RADIK PLAN KLASIK	Type 10
	RADIK PLAN VK	Type 10
	RADIK PLAN VKL	Type 10
0578	RADIK PLAN KLASIK	Type 11
	RADIK PLAN VK	Type 11
	RADIK PLAN VKL	Type 11
0579	RADIK PLAN KLASIK	Type 20
	RADIK PLAN VK	Type 20
	RADIK PLAN VKL	Type 20
0580	RADIK PLAN KLASIK	Type 21
	RADIK PLAN VK	Type 21
	RADIK PLAN VKL	Type 21
0581	RADIK PLAN KLASIK	Type 22
	RADIK PLAN VK	Type 22
	RADIK PLAN VKL	Type 22
0582	RADIK PLAN KLASIK	Type 33
	RADIK PLAN VK	Type 33
	RADIK PLAN VKL	Type 33
	RADIK PLAN VKM	Type 33
0583	RADIK PLAN VKM	Type 11
0584	RADIK PLAN VKM	Type 20
0585	RADIK PLAN VKM	Type 21
0586	RADIK PLAN VKM	Type 22
0617	RADIK MM	Type 10
0618	RADIK MM	Type 11
0619	RADIK MM	Type 20
0620	RADIK MM	Type 21
0621	RADIK MM	Type 22
0622	RADIK MM	Type 33



RADIK® DATA FOR PLACING ORDERS

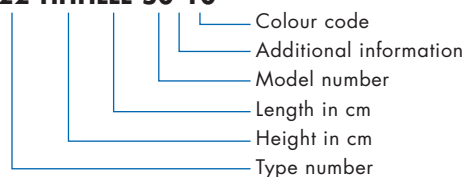
Steel panel radiators	Version	Model	Type	Code for ordering
RADIK	KLASIK	RADIK KLASIK	10	10-HHHLLL-50-10
			11	11-HHHLLL-50-10
			20	20-HHHLLL-50-10
			21	21-HHHLLL-50-10
			22	22-HHHLLL-50-10
			33	33-HHHLLL-50-10
		RADIK KLASIK - R	20 R	20-HHHLLL-R0-10
			21 R	21-HHHLLL-R0-10
			22 R	22-HHHLLL-R0-10
			33 R	33-HHHLLL-R0-10
		RADIK KLASIK - Z	10	10-HHHLLL-50Z10
			11	11-HHHLLL-50Z10
	20		20-HHHLLL-50Z10	
	21		21-HHHLLL-50Z10	
	22		22-HHHLLL-50Z10	
	33		33-HHHLLL-50Z10	
	VENTIL KOMPAKT	RADIK VK	10 VK	10-HHHLLL-60-10
			11 VK	11-HHHLLL-60-10
			20 VK	20-HHHLLL-60-10
			21 VK	21-HHHLLL-60-10
			22 VK	22-HHHLLL-60-10
			33 VK	33-HHHLLL-60-10
		RADIK VK - Z	10 VK	10-HHHLLL-60Z10
			11 VK	11-HHHLLL-60Z10
			20 VK	20-HHHLLL-60Z10
			21 VK	21-HHHLLL-60Z10
			22 VK	22-HHHLLL-60Z10
			33 VK	33-HHHLLL-60Z10
		RADIK VKU	20 VKU	20-HHHLLL-C0-10
			21 VKU	21-HHHLLL-C0-10
			22 VKU	22-HHHLLL-C0-10
			33 VKU	33-HHHLLL-C0-10
		RADIK VKL	10 VKL	10-HHHLLL-E0-10
			11 VKL	11-HHHLLL-E0-10
			20 VKL	20-HHHLLL-E0-10
			21 VKL	21-HHHLLL-E0-10
			22 VKL	22-HHHLLL-E0-10
			33 VKL	33-HHHLLL-E0-10
		RADIK VKM	10 VKM	10-HHHLLL-G0-10
			11 VKM	11-HHHLLL-G0-10
			20 VKM	20-HHHLLL-G0-10
			21 VKM	21-HHHLLL-G0-10
			22 VKM	22-HHHLLL-G0-10
			33 VKM	33-HHHLLL-G0-10
		RADIK COMBI VK	22 COMBI VK	22-HHHLLL-N0-10
	PLAN	RADIK PLAN KLASIK	10 PLAN	10-HHHLLL-80-10
			11 PLAN	11-HHHLLL-80-10
			20 PLAN	20-HHHLLL-80-10
			21 PLAN	21-HHHLLL-80-10
			22 PLAN	22-HHHLLL-80-10
			33 PLAN	33-HHHLLL-80-10
		RADIK PLAN VK	10 PLAN VK	10-HHHLLL-70-10
			11 PLAN VK	11-HHHLLL-70-10
			20 PLAN VK	20-HHHLLL-70-10
			21 PLAN VK	21-HHHLLL-70-10
			22 PLAN VK	22-HHHLLL-70-10
			33 PLAN VK	33-HHHLLL-70-10
		RADIK PLAN VKL	10 PLAN VKL	10-HHHLLL-10-10
			11 PLAN VKL	11-HHHLLL-10-10
			20 PLAN VKL	20-HHHLLL-10-10
			21 PLAN VKL	21-HHHLLL-10-10
			22 PLAN VKL	22-HHHLLL-10-10
			33 PLAN VKL	33-HHHLLL-10-10
		RADIK PLAN VKM	10 PLAN VKM	10-HHHLLL-H0-10
			11 PLAN VKM	11-HHHLLL-H0-10
			20 PLAN VKM	20-HHHLLL-H0-10
			21 PLAN VKM	21-HHHLLL-H0-10
			22 PLAN VKM	22-HHHLLL-H0-10
			33 PLAN VKM	33-HHHLLL-H0-10
	VERTIKAL	RADIK PLAN VERTIKAL - M	10 20	10-HHHLLL-V0-10 20-HHHLLL-V0-10
		RADIK LINE VERTIKAL - M	10 20	10-HHHLLL-U0-10 20-HHHLLL-U0-10
	MM	RADIK MM	10 MM	10-HHHLLL-M0-10
			11 MM	11-HHHLLL-M0-10
			20 MM	20-HHHLLL-M0-10
			21 MM	21-HHHLLL-M0-10
			22 MM	22-HHHLLL-M0-10
			33 MM	33-HHHLLL-M0-10
	HYGIENE	RADIK HYGIENE	10 20S 30	10-HHHLLL-K0-10 20-HHHLLL-K0-10 30-HHHLLL-K0-10
		RADIK HYGIENE VK	10 VK 20S VK 30 VK	10-HHHLLL-P0-10 20-HHHLLL-P0-10 30-HHHLLL-P0-10
		RADIK CLEAN	10 CLEAN 20S CLEAN 30 CLEAN	10-HHHLLL-A0-10 20-HHHLLL-A0-10 30-HHHLLL-A0-10
		RADIK CLEAN VK	10 CLEAN VK 20S CLEAN VK 30 CLEAN VK	10-HHHLLL-B0-10 20-HHHLLL-B0-10 30-HHHLLL-B0-10



RADIK® ORDER CODE

Table for creation of a code

22-HHHLLL-50-10



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: 22-HHHLLL-60-10
22-050180-60-10

RADIK® SERVICES

Services 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 fitting technology catalogue
- price lists for RADIK steel panel radiators, KORALUX towel rail radiators, KORATHERM flat panel radiators
- range of prospectuses 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
- Image CD with details about the products and the company
- professional consulting at specialized exhibitions in the Czech Republic and abroad
- The up-to-date offer is available and regularly updated on the Internet and on the Image CD.



RADIK® COLOUR CARD

COMFORT LINE



code 50
White RAL 9010



code 14
Jasmine



code 26
Pergamon



code 16
Bahama



code 22
Manhattan



code 20
Ägäis



code 28
Sugar Blue



code 33
Vanilla



code 36
Yellow RAL 1018



code 37
Red RAL 3001



code 38
Blue RAL 5015



code 39
Black RAL 9005

DESIGN LINE



code 29*
Antico Sandstone



code 30*
Antico Granit



code 41
Alloy Green



code 40
Alloy Black



code 43
Pearl Silver



code 44
Pearl Gold



code 45
Pearl Brown



code 46
Pearl Green

STANDARD



code 10
White RAL 9016



code 35
Silber



code 42
Gold



code 32
Anthrazit Metallic

Notice:

The colour of the radiator may vary in comparison with the colour shown in the RADIK colour card.

*Irregular pigment of Colours coded 29 and 30 is their natural feature.

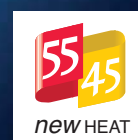
The standard paint finish is white RAL 9016, other colours are available at an extra charge.

Surcharge: RADIK 30%.

GUARANTEE



KORADO®



CE mark used
from the year 2005



KORADO, a.s.
Bří Hubálků 869
560 02 Česká Třebová
Czech Republic

e-mail: info@korado.cz
<http://www.korado.com>