

The VOGEL&NOOT brand

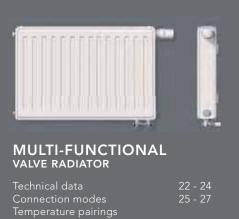
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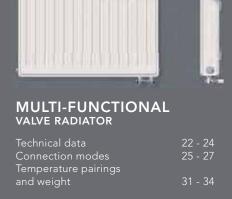




T6-CENTRALLY CONNECTED RADIATOR

Technical data Connection modes
Temperature pairings
and weight







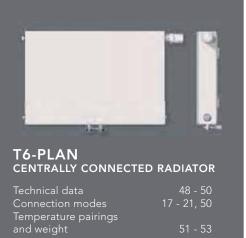


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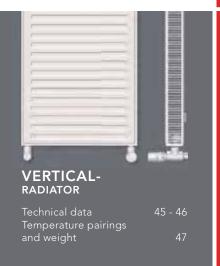




HYGIENE T6 & COMPACT RADIATORS

Technical data Connection modes Temperature pairings and weight





heatingthroughinnovation.

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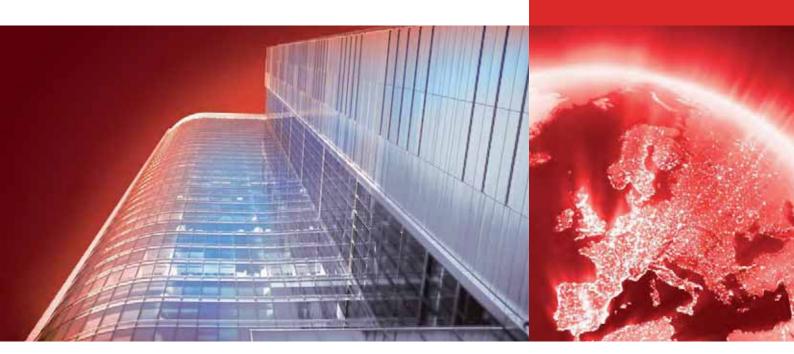
Technical information subject to change.

Leading the way in Europe

VOGEL&NOOT is Europe's leading technology partner. The company sets technical standards and its broad product portfolio encompasses the fields of radiators, underfloor hearting and chimneys.

As a result of constant innovation in the area of energy efficiency and unique design concepts, **VOGEL&NOOT** products are enthusiastically received by planners and heating engineers, as well as by the users of the rooms which are heated.

OUR CLAIM.





VOGEL&NOOT's principles

Maximum energy efficiency

As a leading innovator, VOGEL&NOOT offers forward-looking heat emission technology for thermal comfort coupled with climate protection.

Trendy heating design

As individually designed heating furniture, the multi-faceted design radiators from **VOGEL&NOOT** add points of interest to modern living areas with their unique surface concept.

Integral range & service

As a one-stop provider, VOGEL&NOOT not only guarantees a high-quality product range for optimal heat emission solutions, but also excellent advice and outstanding service.

heatingthroughinnovation.



A STRONG BRAND.

Progress through innovation

Products such as the T6 centre-connection radiator, which has sold millions of units in Europe, the range of easy-to-install replacement radiators or the individually customised design radiators, as well as flexible underfloor heating systems, make **VOGEL&NOOT** your first choice.

For our customers, the **VOGEL&NOOT** brand is inextricably linked with outstanding technology. For many years, they have relied on our expertise in the areas of energy efficiency and design, as well as on the range of first-class services and benefits we offer.

The future with **VOGEL&NOOT** will bring, on the one hand, the most advanced radiators with the most energy-efficient technology and thermal comfort; on the other hand, trend-setting design concepts, which redefine living spaces.





Quality as a sign of maximum safety

The radiators manufactured by VOGEL&NOOT meet numerous internationally recognised quality standards and the manufacturing processes at all of the production sites have been ISO certified. Furthermore, the quality and performance data of VOGEL&NOOT panel radiators are constantly reviewed and confirmed by accredited European institutions. VOGEL&NOOT panel radiators have also been awarded the seal of approval of the German Committee for Terms and Conditions of Sale (RAL), which documents the special quality of the product compared with many other radiator manufacturers.













For architects, designers and builders, the RAL seal of approval for VOGEL&NOOT radiators symbolises the high quality of the product in the areas of processing and handling. These quality assessments, which are controlled by independent institutions, vouch for the enduring safety and long life of service of the product.

Our customers know that with each product, they can expect excellent properties in terms of the material, surface condition and durability. VOGEL&NOOT radiators thus exceed many requirements and outperform numerous standards (such as, for instance, the European Standard EN 442 or the CE marking).

A perfected manufacturing process guarantees the best performances with precise welding, reliable leak-testing and glossy surface treatment - safety combined with a fantastic visual appearance!





The symbol for optimum energy efficiency

The ECO seal of approval for VOGEL&NOOT panel radiators indicates their compatibility with all (renewable) energy sources and is therefore proof of their economically and ecologically efficient heat emission.



Reduction in energy costs

Test results from the renowned Pinkafield University of Applied Sciences show that, by replacing outdated sectional radiators with new VOGEL&NOOT panel radiators, an average potential saving of 15%* can be attained!



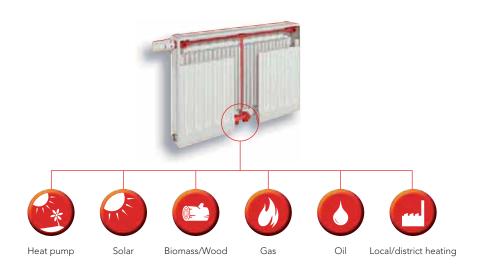
Co₂ reduction

Due to the broad compatibility with energy sources and the reduced energy consumption, VOGEL&NOOT panel radiators make a positive contribution to climate protection.

On average, in comparison with old sectional radiators, test results according to Pinkafeld University of Applied Sciences







ECO = Renewable **E**nergy **CO**mpatible

Panel radiators cover a very wide range of flow temperatures, whereby compatibility with all energy sources is possible.

Compatibility & Energy efficiency

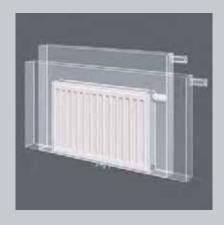
Prof. Michael Graf, Pinkafeld University of Applied Sciences: "It has been proven that with ${\tt VOGEL\&NOOT}$ panel radiators, one can achieve a wide range of temperatures from $35\,^{\circ}\text{C}$ to $90\,^{\circ}\text{C}$ without a problem. They can also operate at very low flow temperatures and fulfil heating load and comfort criteria."





Connection advantage

Diagonal or in-line connection via a standardised connection position



Selection advantage

Even if the pipework is laid in advance, the choice of radiator can be changed at any time



Positioning advantage

Flexible thermostat position as desired, thanks to patented pipe guides

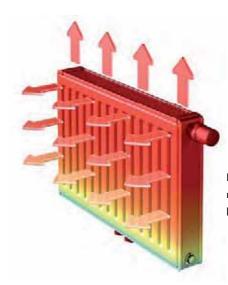


DECISIVE ADVANTAGES WITH THE T6.

The T6: revolution in radiators

Thanks to innovative centre-connection technology and optimum energy efficiency, the T6 sets the standard for room heating, comfort and ease of use - advantages that will win over any customer!





High performance, rapid room heating and even heat distribution

High performance

Prof. Michael Graf, Pinkafeld University of Applied Sciences: "We have created various replacement scenarios in which a radiator replacement is carried out. With VOGEL&NOOT panel radiators, an average saving of approximately 15% was recorded."

Rapid room heating

Thanks to innovative technology, the T6 achieves high heating performance. The special convector plate design of the T6 supplies rooms with evenly distributed warmth rapidly and reliably.

Optimum flexibility during planning and assembly

The pipework can be laid in advance without the radiator and the entire pipe installation can be flushed and leak-tested beforehand. After the construction and painting work is finished, the T6 can be fitted onto the wall and plumbed in. Thanks to the standardised distance from the wall, the T6 allows the selection of the radiator to be carried out after the pipes have been installed, or the radiator can even be changed at a later date.

Integrated valve technology with pre-set k, value

VOGEL&NOOT T6 radiators are fitted in the factory with valve cores with pre-set k, value, precisely adjusted to the heat output of the radiator. This permits an increase in the quality of regulation and the heating system can operate in an energy-efficient and hydraulically-balanced manner.



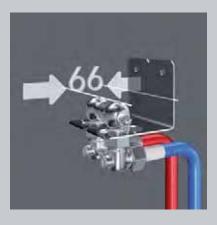
Installation advantage

Cost-effective, attractive and safe installation options without limitations



Distance advantage

Flexible choice of models with a standardised distance between the connection and the wall



Assembly advantage

The pipework can be laid in advance without the radiator to allow undisturbed progress of work

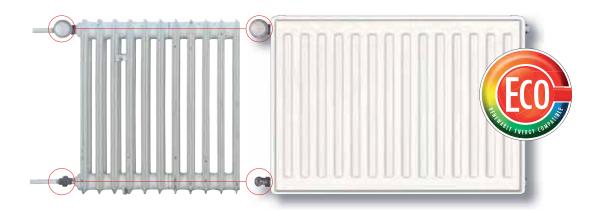
On average, in comparison with old sectional radiators, test results according to Pinkafeld University of Applied Sciences

Systematic renovation

VOGEL&NOOT replacement radiators are easy to install and the process creates very little mess. They immediately increase the efficiency of heat emission. VOGEL&NOOT replacement radiators are suitable for all of the existing connection sizes.

REPLACEMENT RADIATORS.

35.200 €



- Average energy saving of 15%*
- The most important renovation measure besides replacing the boiler
- Tangible increase in living quality and quality of life

Outdated sectional Replacement radiator radiator Standard building Huge reductions in heating costs 39,6 kW 39,6 kW heating load By installing VOGEL&NOOT T6 centre-connection Standard building 180 W/m² 180 W/m² radiators or replacement radiators in place of outdaheating load ted sectional radiators, you can save a great deal of Specific heating load 80.366 kWh/a 80.366 kWh/a money and also reduce CO₂ emissions. The average Energy necessary to 185.872 kWh/a 157.488 kWh/a cover heating requirement potential saving is approximately 15%! 18.587 litres 15.748 litres Annual oil requirement See the example below: 11.524 € 9.764 € Annual costs** 1.760 € Possible annual cost saving with the T6 The comparison was made on the basis of an old buil-17.600 € Saving after 10 years

Saving after 20 years

radiators).

ding with an area of 190 m² to be heated (19 rooms, 26

Well worth it!

On average, in comparison with old sectional radiators, test results according to Pinkafeld University of Applied Sciences

^{**} According to the 2009 oil price index





Heat emission

The specification was verified in accordance with DIN EN 442 at The Technical University, Stuttgart (Registration at WSP-Cert Product Certification Centre, Stuttgart), under the numbers:

Type 11 VM 0445 Type 21 VM-S 0447 Type 22 VM 0448 Type 33VM 0449

and in accordance with OENORM (Austrian standard) EN 442 at the Technological Commercial Museum, Vienna.

Material

T6-CENTRALLY CONNECTED RADI-ATORS are made of cold-rolled sheet steel, and in accordance with EN 442-1, with a stylish and robust fluting with ribs at 40 mm intervals.

Equipment

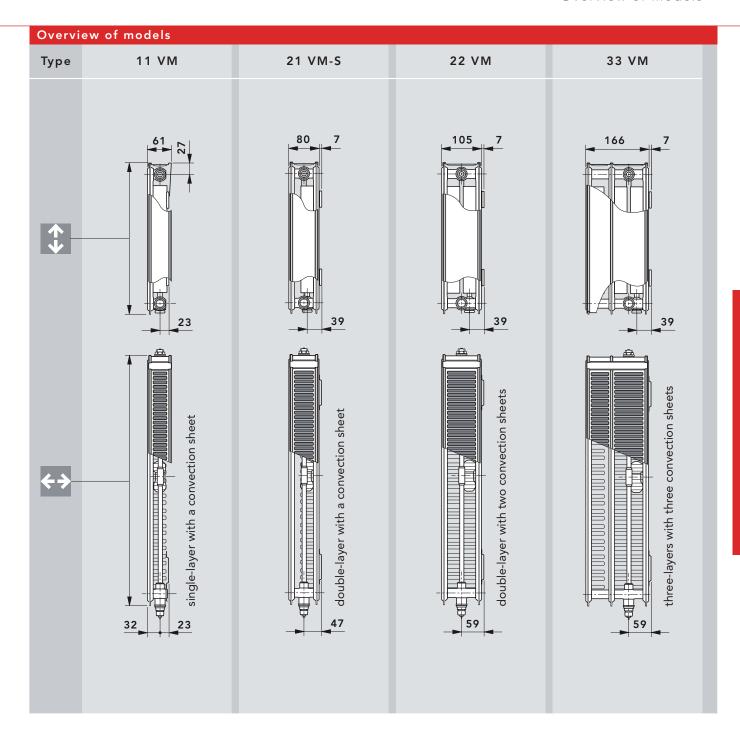
Each T6-CENTRAL CONNECTION RADIATOR is equipped with an integrated T-valve set, and suitable for double-pipe and single-pipe systems with a single-pipe manifold; it comes with a fitted valve top with a pre-set k_{ν} -value, a protective cap and welded suspension brackets on the back. The drain plug and the pivoting special vent plug, as well as the dummy plug are fitted with seals. All types of radiator are equipped with a detachable top cover and two closed side panels.

Paint coating

- 1. Undercoating in accordance with DIN 55900 part 1, stoved at 190° C.
- 2. Finish in accordance with DIN 55900 part 2, in standard colour 9016 (on request available in many standard colours and sanitary-ware colours at an extra charge), applied electrostatically in a modern powder coating facility. This especially resistant coating is stoved at an object temperature of 210° C.

Packaging

- 1. Cardboard packaging
- 2. Edge protection
- 3. Shrink foil



Type		1	1 VI	√ I			21	VM	-S			2	22 VI	VI			3	3 VI	√ I	
Height [mm]	300 400 500 600 900				900	300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Length ++ [mm]	up 24		up 26		up to 2000	up 24		up 30	to 000	up to 2000		up 30	to 000		up to 2000	up to 3000		up to 2200		up to
Steps			all over	all leng	gth start	ing with	400 m	ım avai	lable in	steps o	of 200 m	ım, ado	ditional	ly 520,	720, 92	0, 1120	and 13	320 mm	1	

16 T6-CENTRALLY CONNECTED RADIATOR Description and delivery equipment

Description and delivery equipment

The T6-CENTRALLY CONNECTED RA-DIATOR, with its welded-in set of T-shaped valves, sets new standards in the field of centre-connection technology. Besides its elegant appearance, the T6-CENTRALLY CONNECTED RA-DIATOR grabs the attention because of its unique patented features. It is suitable for all purposes and easy for the heating engineer to install. It also has many other striking advantages, as listed below:

T6-CENTRALLY CONNECTED COMPLETE RADIATORS -

wall bracket fastenings make this a flexible solution

VARIABLE CONNECTIONS -

the built-in valve and its thermostat head can be switched from the right to the left-hand side – with no need to turn the radiator and without crossing over the supply and return.

VARIABLE TYPES -

with all multi-layered radiators the distance between the connection and the wall is standardised (this also applies to all single-layered radiators, if a special angle fish-plate is used).

VARIABLE SIZES -

you are free to choose the overall radiator length and height at any time, and even subsequently change your mind.

PERFECT PRE-ASSEMBLY -

fitting pre-installation piping and system testing are possible even without having the radiators there.

Consequently T6-CENTRALLY CONNECTED RADIATOR truly serves to solve your problems. To round off all the advantages mentioned before, the versatility of the T6-CENTRALLY CONNECTED RADIATOR regarding style and colouring offers a wide scope for design. By using the removable, unique and colourful decor-clips you can give individuality, also subsequently.

The T6-CENTRALLY CONNECTED RA-DIATOR is - with its welded in set of T-shaped valves - suitable for doublepipe installations as well as single-pipe installations, using a single-pipe manifold

Additionally to the central connection from the bottom, the sophisticated design makes possible other connections used at compact radiators, such as the single-sided and two-sided connection. Radiators are delivered ready for double-pipe installation and with a factory-adjusted k_v -setting, appropriate to the radiator output.

For district heating installations with a big difference between water supply and return temperature, a valve unit that allows a precise and stepless adjustment is available on request.

By using universal supply and return connections, commercially available pipes (external thread 3/4") made of copper, steel, plastic or alloy, can be connected; the corresponding accessories and the commercially obtainable shut-off valve have to be used.

The following thermostat heads can be directly fitted at the radiator: "RA 2000" and "RAW" by Danfoss, "VK" by Heimeier, "D" by Herz, "thera DA" by MNG, as well as "UNI XD" by Oventrop. The radiator will be delivered with a protective cap.

The operation parameters are specified with a positive operating pressure of 10 bar and an operating temperature of 110° C. With single-pipe installations, a cycle's maximum radiator power of about 10 kW at $\Delta T = T_1 - T_2 = 20$ K (at $T_1 = 90^{\circ}$ C) has to be taken into account.

Thus the T6-CENTRALLY CONNECTED RADIATOR has to be regarded as revolutionary for the new generation of centrally-connected radiators. With this type of radiator - with its ideal functioning of the whole radiator-valve unit, its superb heating output, compared with the motivation to install thermostat heads, saving heating energy becomes evident.

Our valve radiators' connections (external thread G 3/4") comply in construction and tolerance with the specifications, in accordance with DIN V 3838. If conically sealed drain cocks are used (single-pipe and double-pipe operation), where an adjustment of tolerance of distance to the centre is not possible, we must repudiate liability for any damage connected to this.

Therefore we recommend to use only flat sealed drain cocks, or drain cocks where an adjustment of tolerance of the distance to the centre is possible.

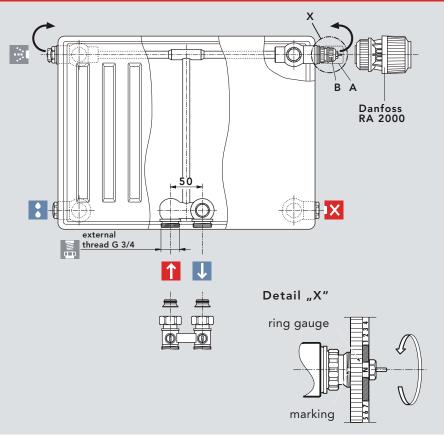






T6 AND T6-PLAN CENTRALLY CONNECTED RADIATOR 17 Double-pipe operation - Adjustment tips for built-in valve

Double-pipe operation - Adjustment tips for built-in valve



Setting instructions:

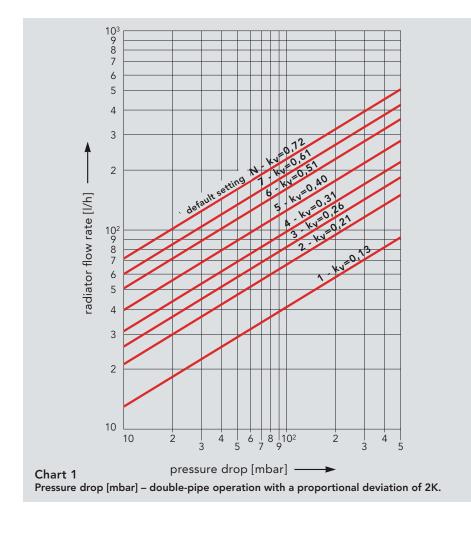
VOGEL&NOOT valve radiators are factory-fitted for double-pipe installations. Each individual radiator is fitted with a pre-adjusted valve insert, appropriate to the radiator output. The preset k -value is also marked in colour on the front surface.

Please note:

Should customised adjustments be required, the pre-set kv-values can be altered as needed.

Swapping the right-hand side built-in valve to the left-hand side is no problem at all at any time.

Radiator are delivered with protective caps. After removing the protective cap (pos. A) the following thermostat heads can be fitted directly to the builtin valve (pos. B): "RA 2000", "RAW" by Danfoss, "VK" by Heimeier, "D" by Herz, "thera DA" by MNG and "UNI XD" by Oventrop.





k _v -value chart					
Pre-setting	1,1	3,9	5,2	6,5	N
k _v -value up to	0,13	0,30	0,42	0,56	0,72
Colour of the adjustment ring					

Of course it is also possible to change the pre-adjusted valve setting when the equipment is operating at pressure.

18 T6 AND T6-PLAN CENTRALLY CONNECTED RADIATOR Valve pre-adjustment

Hydraulic calibration

The hydraulic calibration of the heat emission system has two essential effects: saving on energy costs and CO_2 reduction. It ensures that all radiators receive the required flow rate of heating water. This is the only way that optimal heat output performance be achieved, guaranteeing thermal comfort, with economical and ecologically responsible operation.

Any radiator requires a specific flow rate of heating water, according to its position in the distribution system. The circulation pump serves to distribute heat

in all rooms equally and in accordance with the required ambient temperature. Yet, in most systems the warm heating water flows back along the line of least resistance, which is usually through the radiator located next to the circulation pump.

This means that the radiators furthest from the circulation pump are inadequately supplied with heating water, whereas the nearest are oversupplied! Very often the reason why rooms are inadequately heated or overheated is attributed to either an under-size pump

or heating sources that are too weak. However, larger pumps, high supply temperatures and heating controls make the negative effects worse: lack of comfort and high energy costs, as well as higher CO₂ emissions and more noise

The only effective remedy for this is hydraulic calibration, with the appropriate k_v -value, pre-adjusted by the factory. This makes the resistance of all the radiators in the distribution system similar, and they get an optimal rate of heating water flow.



Factory pre-adjustment

VOGEL&NOOT valve radiators are already factory-fitted with pre-set and adjustable valve inserts, appropriate to the heat output. The valve inserts fitted as standard allow for 8 main k_v-value settings and 7 intermediate settings.

The factory-adjusted k_v-value settings include 5 of 15 possible settings, and are calculated for standard heating systems with a pressure difference of 100 mbar.

Advantages of the valve inserts in VOGEL&NOOT valve radiators

Continuously opening and infinitely variable control apron

- Finer adjustment
- Reliable operation
- More easily cleaned valve inserts

Colour-coded valves

• Set k_v-value immediately visible

The advantages of factory-adjusted valve settings

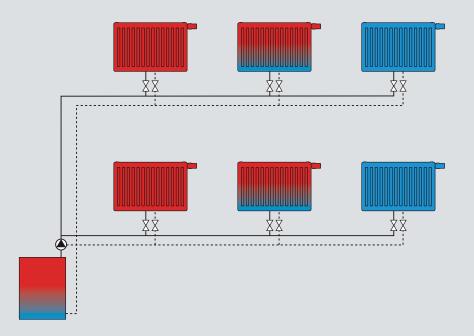
- Optimal hydraulic calibration for buildings with operational areas up to 1,000m2
- Better energy evaluation of buildings (DIN EN 18599)
- Credits for the Energy Passport
- Saves time and costs for heating planners, installers and plumbers
- Up to 6% energy saving, after hydraulic calibration
- Up to 20% less energy needed for circulation pump

The advantages of hydraulic calibration

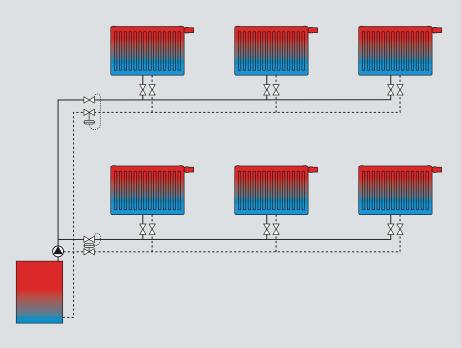
- Up to 6% energy saving
 CO₂ reduction
 Increased comfort

- Complies with Energy-Efficiency regulations

A system without hydraulic calibration

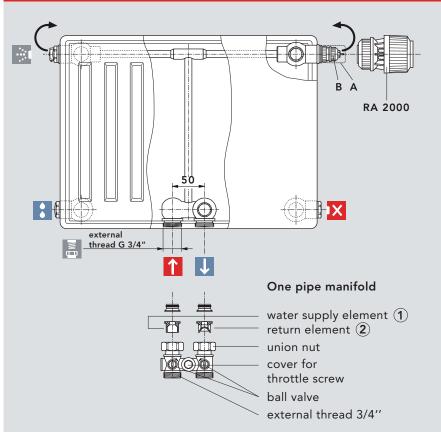


A system with hydraulic calibration



20 T6 AND T6-PLAN CENTRALLY CONNECTED RADIATOR Single-pipe operation - Factory-adjusted built-in valve

Single-pipe operation - Factory-adjusted built-in valve



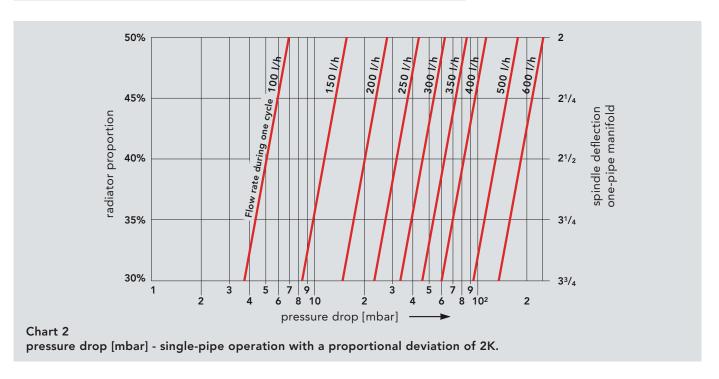
In single-pipe operation, setting the built-in valve on N.

The radiator will be delivered with a protective cap. After removing the protective cap (item A) the following thermostat heads can be installed directly onto the built-in valve (item B): "RA 2000" and "RAW" by Danfoss, "VK" by Heimeier, "theraDA" by MNG, as well as "UNI XD" by Oven-

Caution:

During the installation take care that the return element (2) has been installed at the water return, and the supply element (1) at the water supply.

Changing the built-in valve from the right- to the left-hand side can easily be done at any time.



Default setting:

radiator proportion 30%: 3,75 revolutions * radiator proportion 35%: 3,25 revolutions * radiator proportion 40%: 2,50 revolutions * radiator proportion 45%: 2,25 revolutions * radiator proportion 50%: 2,00 revolutions * *...when starting, turn the bypass spindle of the one-pipe manifold to the right as far as it will go.

Of course it is also possible to change the pre-adjusted valve setting when the equipment is operating at pressure.

Please take into account the maximum power per cycle (regarding single-pipe installations) of about 10 kW

 $\Delta T = T_1 - T_2 = 20 \text{ K (at } T_1 = 90 \text{ °C)}.$

T6-CENTRALLY CONNECTED RADIATOR 21 Connection modes - double-pipe system



A: Single-sided connection

B: Connection both sides

C: Connection on top

(Warning: Lower performance)

Caution:

When using the T6-CENTRALLY CON-NECTED RADIATOR as a compact radiator, the 3/4" screwing caps made of plastic have to be replaced by nickel-plated brass caps (accessory). Available under the item number: AZ0PL000C0002000. Additionally the plastic part of the special vent plug has to be removed.



Heat emission

The specification was verified in accordance with DIN EN 442 at The Technical University, Stuttgart (Registration at WSP-Cert Product Certification Centre, Stuttgart), under the numbers:

Type 11 KV 0445 Type 21 KV-S 0447 Type 22 KV 0448 Type 33 KV 0449

and in accordance with OENORM (Austrian standard) EN 442 at the Technological Commercial Museum, Vienna.

Material

MULTI-FUNCTIONAL VALVE RADIA-TORS are made of cold-rolled sheet steel, in accordance with EN 442-1, with a stylish and robust fluting, with ribs at 40 mm intervals.

Equipment

Each MULTI-FUNCTIONAL VALVE RADIA-TOR is equipped with an integrated valve set, and suitable for double-pipe and single-pipe systems with a single-pipe manifold; it comes with a fitted valve top with a pre-set k_{ν} -value, a protective cap and welded suspension brackets on the back, (brackets only when defined as such); type 11 only available with brackets. The drain plug and the pivotable vent plug, as well as the dummy plug are fitted with seals. All radiators are equipped with a detachable top cover and two closed side panels.

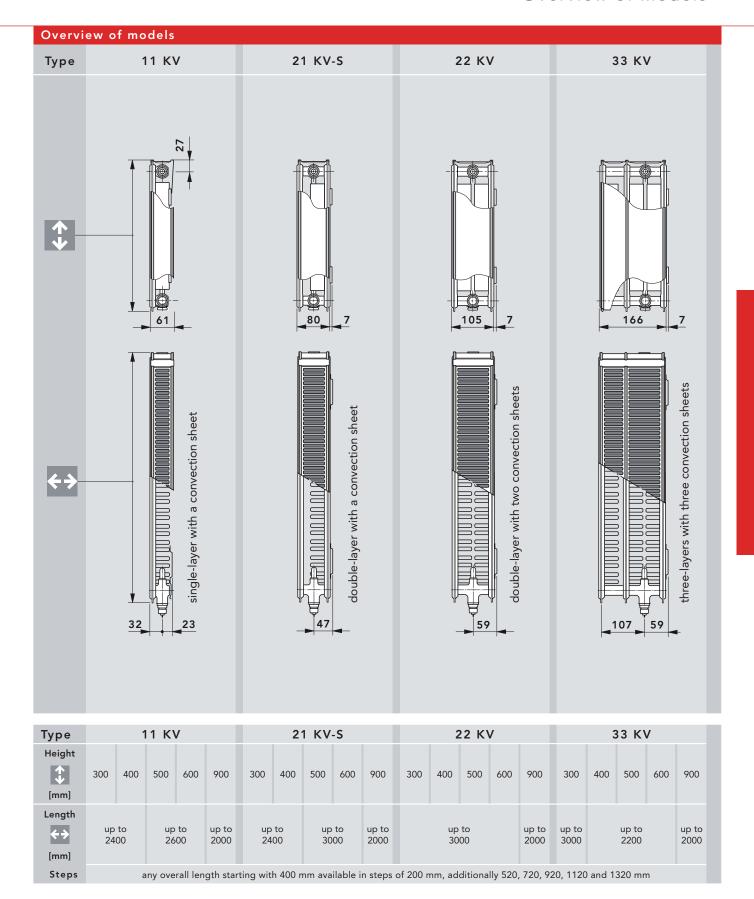
Paint coating

- 1. Undercoating in accordance with DIN 55900 part 1, stoved at 190° C.
- 2. Finish in accordance with DIN 55900 part 2, in standard colour 9016 (on request available in many standard colours and sanitary-ware colours at an extra charge), applied electrostatically in a modern powder coating facility. This especially resistant coating is stoved at an object temperature of 210° C.

Packaging

- 1. Cardboard packaging
- 2. Edge protection
- 3. Shrink foil

MULTI-FUNCTIONAL VALVE RADIATOR 23 Overview of models



24 MULTI-FUNCTIONAL VALVE RADIATOR Description and delivery equipment

Description and delivery equipment

The MULTIFUNCTIONAL VALVE RADIATOR with its welded valve unit has been designed in a most trend-setting way: it can meet all requirements regarding connections.

This radiator will convince you not only because of its simple and fast installation but also because of its versatility and elegant appearance, as the valve unit is covered up by the heating panel.

What's more, through the optimal function of the whole radiator-valve unit, through the maximum heat output and, last but not least, through the motivation to install thermostat heads, saving heating energy becomes evident.

The MULTIFUNCTIONAL VALVE RADIATOR with its welded valve unit is suitable for double-pipe as well as for single-pipe installations, using a one-pipe manifold. Additionally to the connection possibility at the bottom, the sophisticated design also offers connection possibilities, known from compact radiators, such as single-sided or two-sided connections. The radiator is delivered ready for double-pipe installation, with a factory-adjusted $\mathbf{k}_{\mathbf{v}}$ -setting, appropriate to the radiator output.

For district heating installations with a big difference between water supply and return temperature, a steplessly adjustable valve element is available on request.

By using universal supply and return connections with external thread 3/4", commercially available pipes made of copper, precision steel or plastic, can be connected, using the corresponding accessories and the commercially obtainable shut-off valve.

The decor-clips (standard make in standard colour 9016) offer many possibilities for design. They are available in many standard and sanitary-ware colours, as well as with metallic surfaces, i.e. gilded.

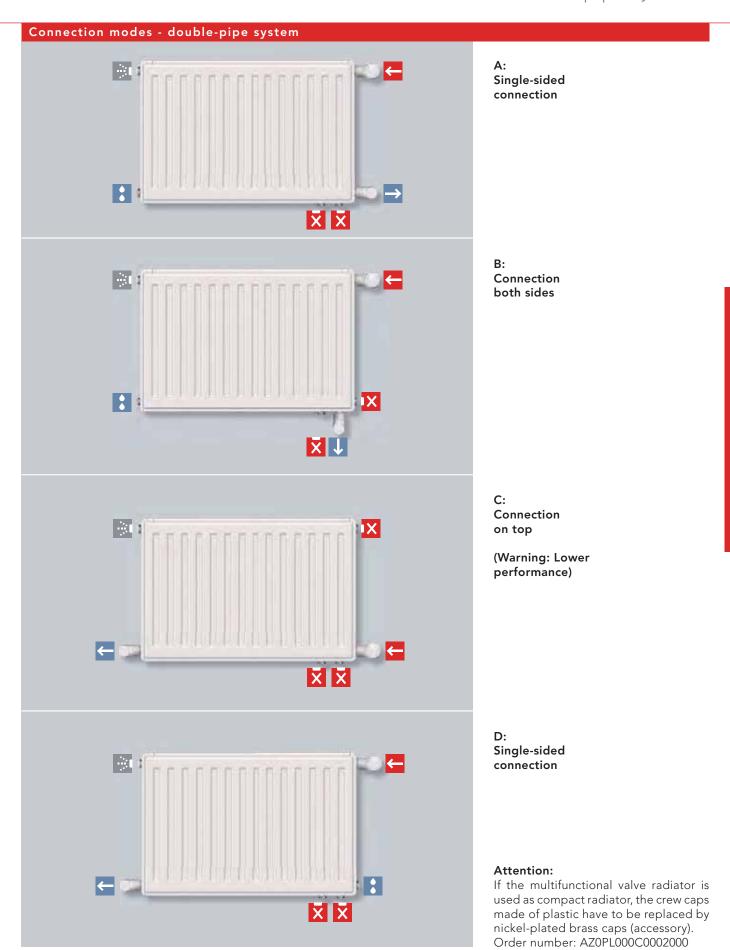
The following thermostat heads can be installed directly onto the radiator: "RA 2000" and "RAW" by Danfoss, "VK" by

Heimeier, "theraDA" by MNG, as well as "UNI XD" by Oventrop. At delivery the radiator is equipped with a protective cap.

The operation parameters are specified as follows: positive operating pressure 10 bar, operating temperature 110° C. With single-pipe installations a maximum heat output of about 10 kW at $\Delta T = T_1 - T_2 = 20$ K (at $T_1 = 90$ °C) per ring has to be taken into accout.

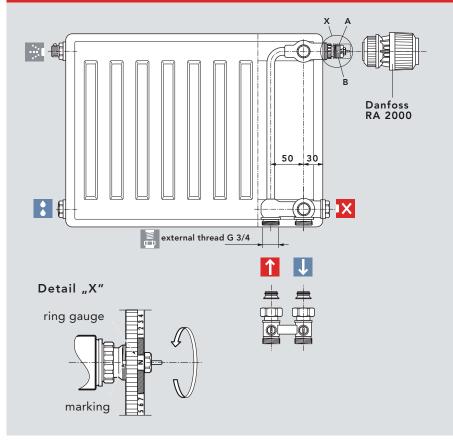


MULTI-FUNCTIONAL VALVE RADIATOR 25 Connection modes - double-pipe system



26 MULTI-FUNCTIONAL VALVE RADIATOR Adjustment tips for built-in valve

Adjustment tips for built-in valve



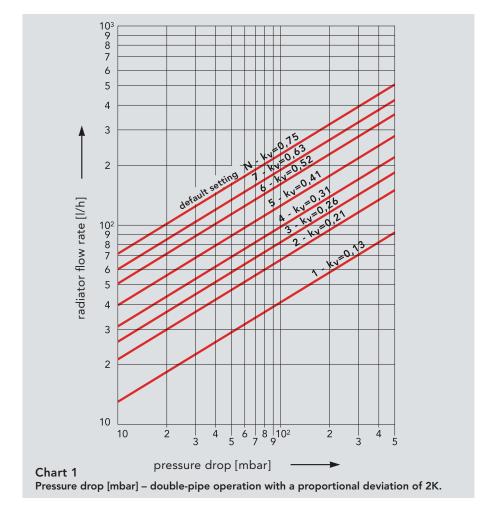
Setting instructions:

VOGEL&NOOT valve radiators are factory-fitted for double-pipe installations. Each individual radiator is fitted with a pre-adjusted valve insert, appropriate to the radiator output. The preset k_{ν} -value is also marked in colour on the front surface.

Please note:

Should customised adjustments be required, the pre-set k_{ν} -values can be altered as needed.

Radiator are delivered with protective caps. After removing the protective cap (pos. A) the following thermostat heads can be fitted directly to the built-in valve (pos. B): "RA 2000", "RAW" by Danfoss, "VK" by Heimeier, "D" by Herz, "thera DA" by MNG and "UNI XD" by Oventrop.





k _v -value chart					
Pre-setting	1,1	3,9	5,2	6,5	N
k _V -value up to	0,13	0,30	0,43	0,58	0,75
Colour of the adjustment ring					

Of course it is also possible to change the pre-adjusted valve setting when the equipment is operating at pressure.

MULTI-FUNCTIONAL VALVE RADIATOR 27 Single-pipe operation - factory-adjusted built-in valve

Single-pipe operation - factory-adjusted built-in valve Danfoss RA 2000 50 external thread G 3/4 One pipe manifold water supply element (1) return element (2)

union nut

cover for

throttle screw ball valve

external thread 3/4"

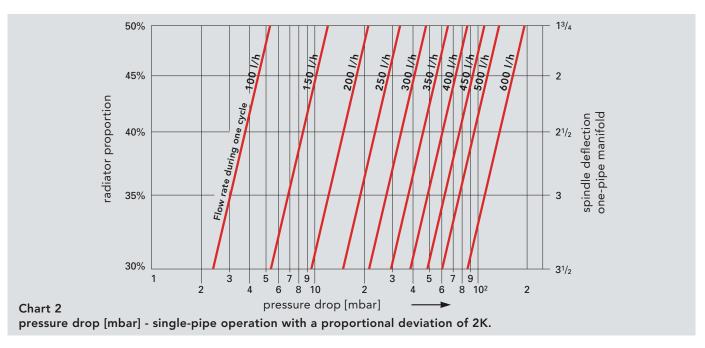
In single-pipe operation, setting the built-in valve on N.

The radiator will be delivered with a protective cap. After removing the protective cap (item A) the following thermostat heads can be installed directly onto the built-in valve (item B): "RA 2000" and "RAW" by Danfoss, "VK" by Heimeier, "theraDA" by MNG, as well as "UNI XD" by Oven-

Caution:

During the installation take care that the return element (2) has been installed at the water return, and the supply element (1) at the water supply.

Changing the built-in valve from the right- to the left-hand side can easily be done at any time.



Default setting:

radiator proportion 30%: 3,50 revolutions * radiator proportion 35%: 3,00 revolutions * radiator proportion 40%: 2,50 revolutions * radiator proportion 45%: 2,00 revolutions * radiator proportion 50%: 1,75 revolutions * *...when starting, turn the bypass spindle of the one-pipe manifold to the right as far as it will go..

Of course it is also possible to change the pre-adjusted valve setting when the equipment is operating at pressure.

Please take into account the maximum power per cycle (regarding single-pipe installations) of about 10 kW

 $\Delta T = T_1 - T_2 = 20 \text{ K (at } T_1 = 90 \text{ °C)}.$



Heat emission

The specification was verified in accordance with DIN EN 442 at The Technical University, Stuttgart (Registration at WSP-Cert Product Certification Centre, Stuttgart), under the numbers:

Type 10	0443
Type 11 K	0445
Type 21 K-S	0447
Type 22 K	0448
Type 33 K	0449

and in accordance with OENORM (Austrian standard) EN 442 at the Technological Commercial Museum, Vienna.

Material

COMPACT RADIATORS are made of cold-rolled sheet steel, and in accordance with EN 442-1, with a stylish and robust fluting, with ribs at 40 mm intervals.

Equipment

Each COMPACT RADIATOR is equipped with wall brackets that are welded onto the back. The radiator types 11 K, 21 K-S, 22 K and 33 K are equipped with a detachable top cover and two closed side panels.

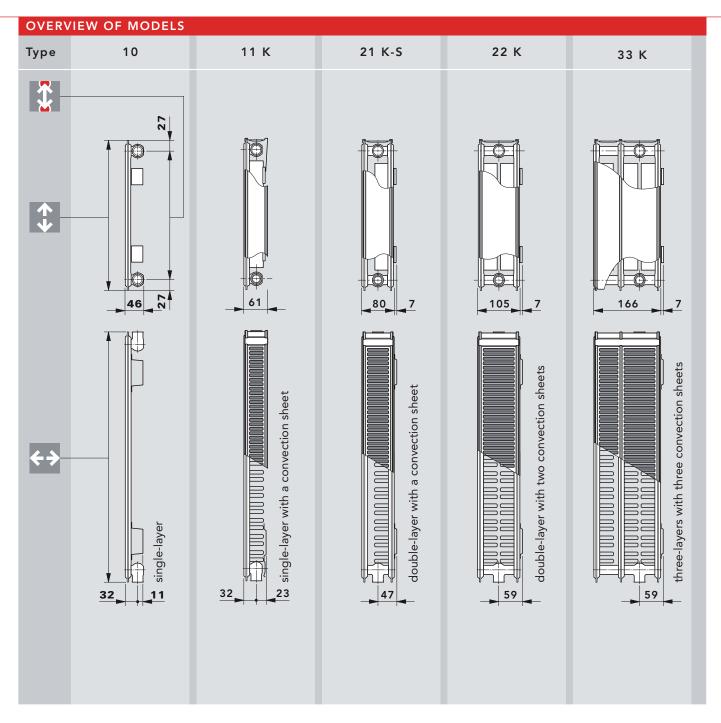
Paint coating

- 1. Undercoating in accordance with DIN 55900 part 1, stoved at 190° C.
- 2. Finish in accordance with DIN 55900 part 2, in standard colour 9016 (on request available in many standard colours and sanitary-ware colours at an extra charge), applied electrostatically in a modern powder coating facility. This especially resistant coating is stoved at an object temperature of 210° C.

Packaging

- 1. Cardboard packaging
- 2. Edge protection
- 3. Shrink foil

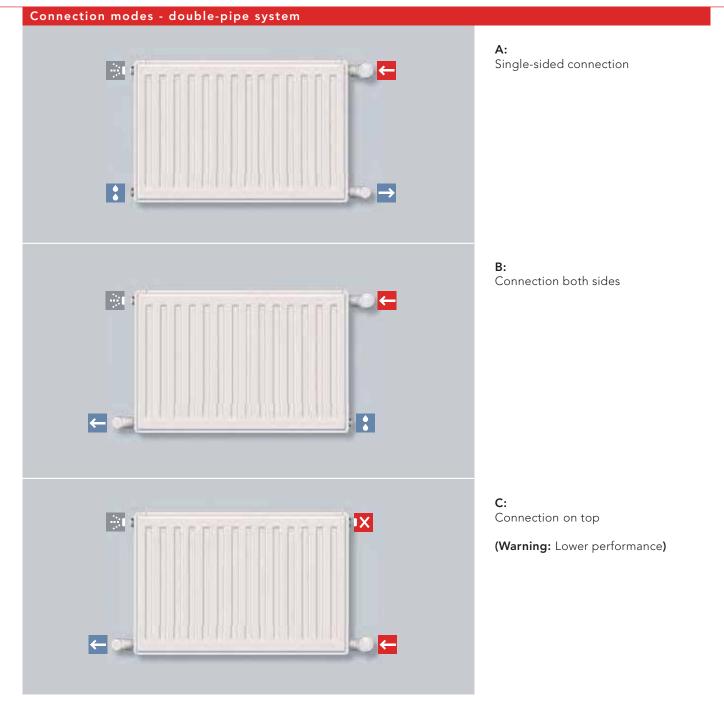
COMPACT RADIATOR 29 Overview of models



Type			10					11 k	(2	1 K-	S			:	22 k	(;	33 k	(
Height [mm]	300 400 500 600 90 n] gth				900	300	400	500	600	900	300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Length +> [mm]	սլ to 120	5	to	to	up to 1400	u t 24	0	t	o 000	up to 2000	u t 24	0	u to 30	0	up to 2000		u t ^c 30	0		up to 2000	up to 3000		up to 2200		up to 2000
Steps			all	overa	II leng	th star	ting v	with 4	00 m	m avail	able ii	n step	s of 2	200 m	m, ado	ditiona	lly 52	0, 72	0, 920), 1120	and 1	320 r	nm		

30 COMPACT RADIATOR

Connection modes - double-pipe and single-pipe system





COMPACT RADIATORS can easily be converted for a single-pipe connection, provided that four-way valves with a by-pass pipe are used.

T6-RADIATOR / MULTI-FUNCTIONAL RADIATOR / COMPACT RADIATOR 31 Temperature pairing 90/70/20° C



0/70/	20° C					ıd top c																				
		Ra	adiato	r pow	er da	ta in w	atts, ii	n acco	rdand	e wit	h DIN	EN 44	2 st	pply	temp	erature	1 - 0 9	eturn	temp	eratu	re 70 -	room	temp	eratui	re 20 °	, C
1	Height [mm]			300					400					500					600					900		
+ >	Туре	10	11 K	21 K-S 21 KV-S		33 K 33 KV	10		21 K-S 21 KV-S		33 K 33 KV	10				33 K 33 KV	10		21 K-S 21 KV-S		33 K 33 KV	10	11 K	21 K-S 21 KV-S		33 KV
Length [mm]	Power		11 VM	21 VM-S	22 VM	33 VM		11 VM	21 VM-S	22 VM	33 VM		11 VM	21 VM-S	22 VM	33 VM		11 VM	21 VM-S	22 VM	33 VM		11 VM	21 VM-S	22 VM	33 VM
400	Watt	176	288	427	558	796	224	362	534	695	992	271	430	625	787	1140	317	478	689	875	1251	446	659	949	1173	1649
520	Watt	228	374	555	725	1035	292	470	694	903	1289	353	559	812	1023	1482	412	621	896	1138	1626	579	856	1233	1524	2144
600	Watt	263	432	640	837	1194	337	543	801	1042	1488	407	645	937	1181	1710	475	717	1034	1313	1877	668	988	1423	1759	2474
720	Watt	316	518	769	1005	1433	404	651	961	1250	1785	488	774	1124	1417	2052	570	860	1241	1576	2252	802	1186	1707	2111	2969
800	Watt	351	576	854	1116	1592	449	723	1068	1389	1984	543	859	1249	1574	2280	634	955	1379	1751	2502	891	1318	1897	2345	3299
920	Watt	404	662	982	1284	1830	516	832	1229	1598	2281	624	988	1437	1810	2622	729	1099	1585	2013	2878	1025	1515	2182	2697	3793
1000	Watt	439	720	1067	1395	1990	561	904	1335	1737	2479	678	1074	1562	1968	2850	792	1194	1723	2188	3128	1114	1647	2371	2931	4123
1120	Watt	492	806	1195	1563	2228	628	1013	1496	1945	2777	760	1203	1749	2204	3192	887	1338	1930	2451	3503	1247	1845	2656	3283	4618
1200	Watt	527	864	1281	1674	2388	673	1085	1602	2084	2975	814	1289	1874	2361	3420	951	1433	2068	2626	3753	1337	1977	2846	3518	4948
1320	Watt		950	1409	1842	2626		1194	1763	2292	3273	895	1418	2061	2598	3762	1046	1577	2275	2889	4129	1470	2174	3130	3869	5443
1400	Watt		1008	1494	1953	2786		1266	1870	2431	3471	950	1504	2186	2755	3990	1109	1672	2412	3064	4379		2306	3320	4104	5772
1600	Watt		1152	1708	2232	3183		1447	2137	2778	3967	1085	1719	2499	3149	4560	1268	1911	2757	3501	5004		2635	3794	4690	6597
1800	Watt		1296	1921	2511	3581		1628	2404	3126	4463	1221	1934	2811	3542	5130	1426	2150	3102	3939	5630		2965	4269	5276	7422
2000	Watt		1440	2135	2790	3979		1809	2671	3473	4959	1357	2149	3123	3936	5700	1585	2389	3446	4377	6255		3294	4743	5863	8246
2200	Watt		1584	2348	3069	4377		1989	2938	3820	5455	1492	2363	3435	4329	6271	1743	2628	3791	4814	6881					
2400	Watt		1728	2562	3348	4775		2170	3205	4168		1628	2578	3748	4723		1901	2866	4136	5252						
2600	Watt				3627	5173				4515			2793	4060	5116		2060	3105	4480	5690						
2800	Watt				3907	5571				4862				4372	5510				4825	6127						
3000	Watt				4186	5969				5210				4685	5904				5169	6565						
Radiatorex	oponent n	1,274	1,330	1,327	1,329	1,331	1,283	1,342	1,334	1,353	1,357	1,292	1,330	1,323	1,334	1,351	1,301	1,319	1,310	1,343	1,333	1,305	1,332	1,321	1,340	1,354
	orexponent n 1,274 1,330 1,327 1,329 1,331 1,283 1,342 1,334 1,353 1,38																TED RAD					,				
'ype bro	orogramme COMPACT RADIATOR The availability of any type of radiator, as well as range of size																								O IX	

32 T6-RADIATOR / MULTI-FUNCTIONAL RADIATOR / COMPACT RADIATOR Temperature pairings 75/65/20° C and 70/55/20° C

5/65/	20° C		S	ide pa	nels ar	nd top c	over of	СОМ	PACT-,	T6- ar	nd MUL	TI-FUN	CTION	AL VA	LVE RA	ADIATO	RS are	taken i	nto co	nsider	ation in	the pe	rforma	nce da	ata	
J/ 0J/ /	20 C	Ra	adiato	r pow	er da	ta in w	atts, i	n accc	rdano	e wit	h DIN	EN 44	2 su	pply	tempe	erature	75 - 1	eturn	temp	eratu	re 65 -	room	temp	eratu	re 20°	С
1	Height [mm]			300					400					500					600					900		
< >	Туре	10		21 K-S 21 KV-S		33 K 33 KV	10		21 K-S 21 KV-S	22 K 22 KV	33 K 33 KV	10		21 K-S	22 K 22 KV	33 K 33 KV	10		21 K-S	22 K 22 KV	33 K 33 KV	10		21 K-S	22 K 22 KV	
Length [mm]	Power				22 VM						33 VM				22 VM						33 VM				22 VM	
400	Watt	139	226	335	438	624	178	283	419	543	774	214	337	491	617	891	250	376	543	685	981	351	517	746	918	1288
520	Watt	181	294	436	569	812	231	368	544	706	1007	279	438	638	802	1159	325	488	706	891	1276	457	672	969	1194	167
600	Watt	209	339	503	657	937	266	425	628	814	1162	322	506	736	926	1337	375	563	814	1028	1472	527	775	1118	1378	193
720	Watt	251	407	603	788	1124	320	510	754	977	1394	386	607	883	1111	1604	450	676	977	1233	1766	632	930	1342	1653	2319
800	Watt	278	452	670	876	1249	355	566	838	1086	1549	429	674	982	1234	1782	500	751	1086	1370	1962	702	1034	1491	1837	257
920	Watt	320	520	771	1007	1436	408	651	963	1248	1781	493	776	1129	1420	2050	575	864	1248	1576	2257	808	1189	1715	2112	296
1000	Watt	348	565	838	1095	1561	444	708	1047	1357	1936	536	843	1227	1543	2228	625	939	1357	1713	2453	878	1292	1864	2296	322
1120	Watt	390	633	939	1226	1748	497	793	1173	1520	2168	600	944	1374	1728	2495	700	1052	1520	1919	2747	983	1447	2088	2572	360
1200	Watt	418	678	1006	1314	1873	533	850	1256	1628	2323	643	1012	1472	1852	2674	750	1127	1628	2056	2944	1054	1550	2237	2755	386
1320	Watt		746	1106	1445	2061		935	1382	1791	2556	708	1113	1620	2037	2941	825	1239	1791	2261	3238	1159	1705	2460	3031	425
1400	Watt		791	1173	1533	2185		991	1466	1900	2710	750	1180	1718	2160	3119	875	1315	1900	2398	3434	1229	1809	2610	3214	450
1600	Watt		904	1341	1752	2498		1133	1675	2171	3098	858	1349	1963	2469	3565	1000	1502	2171	2741	3925		2067	2982	3674	515
1800	Watt		1017	1508	1971	2810		1274	1885	2443	3485	965	1517	2209	2777	4010	1125	1690	2443	3083	4415		2326	3355	4133	579
2000	Watt		1130	1676	2190	3122		1416	2094	2714	3872	1072	1686	2454	3086	4456	1250	1878	2714	3426	4906		2584	3728	4592	644
2200	Watt		1243	1844	2409	3434		1558	2303	2985	4259	1179	1855	2699	3395	4902	1375	2066	2985	3769	5397					
2400	Watt		1356	2011	2628	3746		1699	2513	3257		1286	2023	2945	3703	5347	1500	2254	3257	4111	5887					
2600	Watt				2847	4059				3528			2192	3190	4012	5793	1625	2441	3528	4454	6378					
2800	Watt				3066	4371				3800			2360	3436	4320	6238		2629	3800	4796	6868					
3000	Watt				3285	4683				4071			2529	3681	4629	6684		2817	4071	5139	7359					
Radiatorex	ponent n	1,274	1,330	1,327	1,329	1,331	1,283	1,342	1,334	1,353	1,357	1,292	1,330	1,323	1,334	1,351	1,301	1,319	1,310	1,343	1,333	1,305	1,332	1,321	1,340	1,35
Type prod	gramme		CON	1PAC	T RAD	IATOR	2						T6-CE	NTRA	LLY CO	ONNECT	ΓED RA	DIATO	R and	MULT	I-FUNC	TIONA	L VAL\	/E RAI	DIATOF	?
JI 1.**.	e programme COMPACT RADIATOR The availability of any type of radiator, as well as range of sizes,																									

70/55/	20° C																RS are									
		Ra	adiato	r pow	er da	ta in w	atts, i	n acco	rdand	e wit	h DIN	EN 44	2 su	pply	temp	erature	e 70 - 1	return	temp	eratu	re 55 -	- room	temp	eratu	re 20 °	С
	Height [mm]			300					400					500					600					900		
←→	Туре	10		21 K-S 21 KV-S		33 KV	10		21 K-S 21 KV-S		33 K 33 KV	10		21 K-S 21 KV-S		33 K	10		21 K-S 21 KV-S		33 K	10		21 K-S 21 KV-S		
Length [mm]	Power			21 VM-S					21 VM-S							33 VM			21 VM-S					21 VM-S		
400	Watt	113	182	270	353	503	144	228	337	436	621	174	272	396	497	716	202	303	439	551	790	284	416	602	739	1034
520	Watt	147	237	351	459	654	187	296	438	566	807	226	353	515	646	930	263	394	570	716	1027	369	541	782	960	1344
600	Watt	170	273	405	529	754	216	342	506	654	932	261	407	594	745	1073	304	455	658	826	1185	426	624	902	1108	1551
720	Watt	204	328	486	635	905	260	410	607	784	1118	313	489	713	894	1288	364	546	790	991	1422	511	749	1083	1330	1861
800	Watt	226	364	540	706	1006	288	455	674	871	1242	348	543	792	994	1431	405	606	877	1102	1580	568	832	1203	1477	2068
920	Watt	260	419	621	812	1157	332	524	775	1002	1429	400	625	911	1143	1646	465	697	1009	1267	1817	653	957	1384	1699	2378
1000	Watt	283	455	675	882	1257	360	569	843	1089	1553	434	679	990	1242	1789	506	758	1097	1377	1975	710	1041	1504	1847	2585
1120	Watt	317	510	756	988	1408	404	638	944	1220	1739	487	761	1108	1391	2003	567	849	1228	1542	2212	795	1165	1684	2068	2895
1200	Watt	340	546	811	1059	1509	433	683	1011	1307	1863	521	815	1188	1491	2147	607	909	1316	1652	2370	852	1249	1805	2216	3102
1320	Watt		601	892	1165	1660		751	1113	1438	2050	574	896	1306	1640	2361	668	1000	1448	1818	2607	938	1374	1985	2438	3412
1400	Watt		637	946	1235	1760		797	1180	1525	2174	608	951	1386	1739	2504	708	1061	1535	1928	2765	994	1457	2106	2585	3618
1600	Watt		728	1081	1412	2012		911	1349	1743	2485	695	1087	1584	1988	2862	809	1212	1755	2203	3160		1665	2406	2955	4135
1800	Watt		819	1216	1588	2263		1025	1517	1961	2795	782	1222	1781	2236	3220	911	1364	1974	2479	3555		1873	2707	3324	4652
2000	Watt		910	1351	1765	2515		1139	1686	2178	3106	869	1358	1979	2485	3578	1012	1516	2193	2754	3951		2081	3008	3693	5169
2200	Watt		1001	1486	1941	2766		1252	1854	2396	3416	956	1494	2177	2733 2981	3935	1113	1667 1819	2413	3030	4346					
2400	Watt		1092	1621	2118	3018		1366	2023	2614		1043	1630	2375	3230		1315	1970		3580						
2600	Watt				2294	3269				2832 3050			1766	2573 2771	3478		1313	17/0	2852 3071	3856						
2800	Watt				2470 2647	3521 3772				3050				2969	3727				3290	4131						
3000	Watt				2047	3//2				3200				2707	3121				3270	7101						
Radiatore	xponent n	1,274	1,330	1,327	1,329	1,331	1,283	1,342	1,334	1,353	1,357	1,292	1,330	1,323	1,334	1,351	1,301	1,319	1,310	1,343	1,333	1,305	1,332	1,321	1,340	1,354
Type pro	gramme		CON	/РАСТ	ΓRAD	IATOF	?						T6-CE	ENTRA	LLY C	ONNEC	TED RA	DIATO	OR and	MULT	I-FUNC	CTIONA	L VAL\	/E RAD	OTAIC	₹
	The a	vailal	oility o	of any	type	of radi	ator, a	s well	as ra	nge of	f sizes,	is in a	ccord	ance	with t	he pro	duction	n prog	gramm	e, as	stated	in the	price	list.		

T6-RADIATOR / MULTI-FUNCTIONAL RADIATOR / COMPACT RADIATOR 33 Temperature pairings 55/45/20° C and 45/40/20° C

5/45/2	20° C																					the pe				
1	Height	Ka	adiato	•	er da	ta in w	atts, II	n accc		e witi	n DIN	EN 44	Z St	,	temp	erature	9 33 - 1	eturn		eratu	re 45	- room	temp		re 20°	C
$ \Psi $	[mm]			300					400					500					600					900		
< >	Туре	10		21 K-S 21 KV-S		33 K 33 KV	10		21 K-S 21 KV-S		33 K 33 KV	10		21 K-S 21 KV-S	22 K 22 KV	33 K 33 KV	10	11 K	21 K-S 21 KV-S		33 K 33 KV	10		21 K-S 21 KV-S	22 K 22 KV	33 I
Length [mm]	Power			21 VM-S					21 VM-S					21 VM-S					21 VM-S					21 VM-S		
400	Watt	73	115	170	222	316	92	143	212	272	387	111	171	250	312	447	129	191	278	345	497	180	262	380	463	64
520	Watt	95	149	221	289	411	120	185	275	354	503	144	222	325	406	581	167	249	361	449	646	234	340	494	602	83
600	Watt	109	172	255	333	475	138	214	318	408	581	166	256	375	468	670	193	287	417	518	745	271	393	570	695	96
720	Watt	131	206	306	400	570	166	257	381	490	697	199	308	450	562	805	232	345	500	621	894	325	471	684	834	116
800	Watt	146	229	340	444	633	184	285	424	544	774	222	342	500	624	894	257	383	556	690	993	361	523	760	926	129
920	Watt	167	264	391	511	728	212	328	487	626	890	255	393	574	718	1028	296	440	639	794	1142	415	602	873	1065	148
1000	Watt	182	286	425	555	791	231	357	530	680	968	277	427	624	781	1117	322	479	695	863	1242	451	654	949	1158	161
1120	Watt	204	321	477	622	886	258	400	593	762	1084	310	479	699	874	1252	360	536	778	966	1391	505	733	1063	1297	180
1200	Watt	218	344	511	667	949	277	428	635	816	1161	332	513	749	937	1341	386	574	834	1035	1490	541	785	1139	1390	193
1320	Watt		378	562	733	1044		471	699	898	1278	366	564	824	1030	1475	425	632	917	1139	1639	595	864	1253	1529	212
1400	Watt		401	596	778	1107		499	741	952	1355	388	598	874	1093	1564	450	670	973	1208	1738	631	916	1329	1621	225
1600	Watt		458	681	889	1266		571	847	1088	1549	443	684	999	1249	1788	515	766	1112	1380	1987		1047	1519	1853	258
1800	Watt		516	766	1000	1424		642	953	1224	1742	499	769	1124	1405	2011	579	861	1251	1553	2235		1178	1709	2085	290
2000	Watt		573	851	1111	1582		713	1059	1360	1936	554	855	1249	1561	2235	643	957	1390	1725	2483		1309	1899	2316	322
2200	Watt		630	936	1222	1740		785	1165	1496	2129	610	940	1374	1717	2458	708	1053	1529	1898	2732					
2400	Watt		687	1021	1333	1898		856	1271	1632		665	1026	1499	1873		772	1149	1668	2070						
2600	Watt				1444	2057				1768			1111	1623	2030		836	1244	1807	2243						
2800	Watt				1555	2215				1904				1748	2186				1946	2415						
3000	Watt				1666	2373				2040				1873	2342				2085	2588						
Radiatorex	ponent n	1,274	1,330	1,327	1,329	1,331	1,283	1,342	1,334	1,353	1,357	1,292	1,330	1,323	1,334	1,351	1,301	1,319	1,310	1,343	1,333	1,305	1,332	1,321	1,340	1,3
Type prod	gramme		CON	1PAC	T RAD	DIATOR	3						T6-CF	ENTRA	LLY CO	ONNEC	TED RA	DIATO	OR and	MULT	I-FUNC	CTIONA	L VAL	/E RAD	DIATOR	₹
, F - F - 6	gramme COMPACT RADIATOR The availability of any type of radiator, as well as range of sizes, is																									

5/40/	20° C					ıd top c																				
	-0 0	R	adiato	r pow	er da	ta in w	atts, ii	n acco	rdanc	e wit	h DIN	EN 44	2 su	pply	tempe	erature	45 - r	eturn	temp	eratu	re 40 -	room	temp	eratur	e 20 °	С
1	Height [mm]			300					400					500					600					900		
< >	Туре	10	11 K	21 K-S 21 KV-S		33 K 33 KV	10		21 K-S 21 KV-S		33 K 33 KV	10		21 K-S	22 K 22 KV	33 K 33 KV	10		21 K-S 21 KV-S		33 K 33 KV	10	11 K	21 K-S 21 KV-S	22 K	
Length [mm]	Power			21 VM-S							33 VM				22 VM				21 VM-S					21 VM-S		
400	Watt	50	78	116	152	216	64	97	144	184	262	76	117	171	213	303	88	131	191	234	339	124	178	260	315	437
520	Watt	66	102	151	197	280	83	126	188	240	341	99	152	222	277	394	115	170	248	305	440	161	232	338	410	568
600	Watt	76	117	174	227	324	96	145	216	276	393	115	175	256	319	455	133	196	286	352	508	186	268	390	473	655
720	Watt	91	141	209	273	388	115	175	260	332	472	138	210	307	383	545	159	236	343	422	609	223	321	467	567	786
800	Watt	101	156	232	303	432	128	194	289	369	524	153	233	341	425	606	177	262	381	469	677	248	357	519	630	874
920	Watt	116	180	267	349	496	147	223	332	424	603	176	268	393	489	697	204	301	439	539	779	285	410	597	725	1005
1000	Watt	126	195	290	379	539	159	242	361	461	655	191	291	427	532	758	221	327	477	586	846	310	446	649	788	1092
1120	Watt	141	219	325	424	604	179	272	404	516	734	214	326	478	596	849	248	367	534	656	948	347	500	727	882	1223
1200	Watt	151	234	349	455	647	191	291	433	553	786	229	350	512	638	909	265	393	572	703	1016	372	535	779	945	1311
1320	Watt		258	383	500	712		320	476	608	865	252	385	563	702	1000	292	432	629	774	1117	409	589	857	1040	1442
1400	Watt		274	407	531	755		339	505	645	917	267	408	598	745	1061	310	458	667	821	1185	434	625	909	1103	1529
1600	Watt		313	465	606	863		388	577	737	1048	306	466	683	851	1212	354	524	763	938	1354		714	1039	1260	1748
1800	Watt		352	523	682	971		436	649	829	1179	344	525	768	957	1364	398	589	858	1055	1523		803	1169	1418	1966
2000	Watt		391	581	758	1079		485	722	922	1310	382	583	854	1064	1515	442	655	953	1172	1693		892	1299	1575	2184
2200	Watt		430	639	834	1187		533	794	1014	1441	420 459	641	939	1170	1667	487 531	720 786	1049	1289 1407	1862					
2400	Watt		469	697	910	1295		582	866	1106 1198		459	700 758	1024	1276 1383		531	851	1239	1524						
2600	Watt				985	1402				1198			730	1110	1489			031	1335	1641						
2800	Watt				1061	1510 1618				1382				1280	1595				1430	1758						
3000	Watt				113/	1010				1302				1200	1373				1400	1750						
Radiatore	xponent n	1,274	1,330	1,327	1,329	1,331	1,283	1,342	1,334	1,353	1,357	1,292	1,330	1,323	1,334	1,351	1,301	1,319	1,310	1,343	1,333	1,305	1,332	1,321	1,340	1,354
Type pro	gramme		CON	/РАСТ	ΓRAD	IATOF	?						T6-CI	ENTRA	LLY C	ONNEC	TED RA	DIATO	OR and	MULT	I-FUNC	TIONA	L VAL\	/E RAC	IATOF	₹
	The a	vailal	oility o	of any	type	of radi	ator, a	s well	as ra	nge o	f sizes,	is in a	ccord	ance	with t	he pro	duction	prog	ramm	e, as	stated	in the	price	list.		

34 T6-RADIATOR / MULTI-FUNCTIONAL RADIATOR / COMPACT RADIATOR Weights

1	Height [mm]		30	00		400					50	00			60	00		900				
ength	Type weight	11 KV 11 VM	21KV-S 21VM-S	22 KV 22 VM	33 KV 33 VM	11 KV 11 VM	21KV-S 21VM-S	22 KV 22 VM	33 KV 33 VM	11 KV 11 VM	21KV-S 21VM-S	22 KV 22 VM	33 KV 33 VM	11 KV 11 VM	21KV-S 21VM-S	22 KV 22 VM	33 KV 33 VM	11 KV 11 VM	21KV-S 21VM-S	22 KV 22 VM	33 KV 33 VN	
400	kg	5,67	7,75	8,94	12,93	7,08	9,78	11,50	16,74	7,91	11,34	13,10	19,10	8,69	12,83	14,63	21,35	12,03	18,48	21,13	31,0	
520	kg	6,80	9,53	11,08	16,13	8,62	12,18	14,44	21,14	9,66	14,18	16,48	24,16	10,64	16,08	18,42	27,03	14,96	23,37	26,85	39,5	
600	kg	7,56	10,72	12,51	18,27	9,64	13,78	16,41	24,08	10,83	16,07	18,73	27,53	11,95	18,25	20,95	30,81	16,92	26,63	30,67	45,2	
720	kg	8,69	12,50	14,65	21,48	11,17	16,18	19,35	28,48	12,58	18,90	22,11	32,59	13,90	21,49	24,74	36,49	19,85	31,52	36,39	53,8	
800	kg	9,45	13,69	16,08	23,61	12,20	17,78	21,31	31,42	13,75	20,79	24,37	35,96	15,21	23,66	27,27	40,27	21,80	34,78	40,20	59,5	
920	kg	10,58	15,54	18,31	26,95	13,73	20,24	24,34	35,96	15,50	23,70	27,83	41,16	17,16	26,98	31,15	46,08	24,73	39,74	46,01	68,2	
1000	kg	11,34	16,72	19,74	29,09	14,75	21,84	26,30	38,90	16,66	25,59	30,09	44,53	18,47	29,14	33,68	49,87	26,68	43,00	49,83	73,9	
1120	kg	12,48	18,51	21,88	32,30	16,28	24,24	29,24	43,30	18,42	28,42	33,47	49,59	20,43	32,39	37,47	55,54	29,61	47,89	55,55	82,5	
1200	kg	13,23	19,69	23,31	34,44	17,31	25,84	31,21	46,24	19,58	30,32	35,72	52,96	21,73	34,56	40,00	59,33	31,56	51,15	59,37	88,2	
1320	kg	14,62	21,48	25,45	37,64	19,14	28,24	34,15	50,64	21,64	33,15	39,10	58,02	23,99	37,81	43,80	65,01	34,80	56,03	65,09	96,8	
1400	kg	15,37	22,73	26,97	39,91	20,17	29,90	36,20	53,72	22,81	35,11	41,44	61,53	25,30	40,04	46,41	68,93	36,75	59,36	68,99	102,6	
1600	kg	17,26	25,70	30,54	45,26	22,72	33,90	41,10	61,06	25,72	39,83	47,07	69,96	28,56	45,46	52,74	78,39	41,63	67,51	78,53	116,9	
1800	kg	19,16	28,84	34,30	50,84	25,28	38,07	46,20	68,64	28,64	44,73	52,90	78,63	31,82	51,04	59,25	88,09	46,51	75,83	88,26	131,4	
2000	kg	21,05	31,81	37,87	56,18	27,84	42,07	51,10	75,98	31,56	49,46	58,53	87,06	35,08	56,46	65,57	97,55	51,40	83,98	97,80		
2200	kg	22,94	34,78	41,44	61,52	30,39	46,07	56,01	83,32	34,48	54,19	64,17	95,49	38,34	61,87	71,89	107,01					
2400	kg	25,33	37,75	45,02	66,87	33,56	50,06	60,91		38,01	58,91	69,80		42,21	67,29	78,22						
2600	kg			48,59	72,21			65,82		40,93	63,64	75,43		45,47	72,70	84,54						
2800	kg			52,16	77,55			70,72			68,37	81,07			78,12	90,86						
3000	kg			55,73	82,89			75,63			73,09	86,70			83,54	97,18						
ype pro	gramme		T6-CF	NTRAI	LY CON	INFCTE	D RAD	IATOR	and MI	II TI-EII	NCTIO	NIAI W	AIVE DA	NDIATO	P							

OMP	ACT									W	eight	in kg	g of	СОМ	IPAC	T RA	DIATO	ORS								
↑	Height [mm]		300				400					500					600					900				
<>	Туре	10	11 K	21 K-S	22 K	33 K	10	11 K	21 K-S	22 K	33 K	10	11 K	21 K-S	22 K	33 K	10	11 K	21 K-S	22 K	33 K	10	11 K	21 K-S	22 K	33
Length [mm]	weight																									
400	kg	3,29	4,91	6,99	8,18	12,17	4,01	6,31	9,01	10,73	15,97	4,73	7,12	10,55	12,31	18,31	5,42	7,86	12,01	13,80	20,53	7,71	11,14	17,59	20,23	30
520	kg	4,00	6,05	8,78	10,33	15,38	4,93	7,84	11,41	13,67	20,37	5,88	8,87	13,38	15,69	23,37	6,77	9,82	15,26	17,60	26,20	9,74	14,07	22,48	25,96	38
600	kg	4,47	6,81	9,96	11,76	17,52	5,55	8,87	13,01	15,63	23,31	6,64	10,03	15,28	17,94	26,74	7,67	11,12	17,42	20,13	29,99	11,09	16,02	25,74	29,77	44
720	kg	5,18	7,94	11,75	13,90	20,72	6,47	10,40	15,40	18,58	27,71	7,78	11,79	18,11	21,32	31,80	9,02	13,08	20,67	23,92	35,66	13,12	18,95	30,63	35,50	52
800	kg	5,66	8,70	12,93	15,33	22,86	7,09	11,42	17,00	20,54	30,65	8,54	12,95	20,00	23,57	35,17	9,91	14,39	22,84	26,45	39,45	14,48	20,91	33,89	39,31	58
920	kg	6,37	9,83	14,78	17,56	26,20	8,02	12,96	19,47	23,57	35,19	9,68	14,70	22,90	27,04	40,36	11,26	16,34	26,15	30,33	45,26	16,51	23,83	38,84	45,12	67
1000	kg	6,84	10,59	15,97	18,99	28,34	8,63	13,98	21,07	25,53	38,13	10,45	15,87	24,79	29,29	43,74	12,16	17,65	28,32	32,86	49,05	17,86	25,79	42,10	48,94	73
1120	kg	7,55	11,72	17,75	21,13	31,54	9,56	15,51	23,47	28,47	42,53	11,59	17,62	27,63	32,67	48,79	13,51	19,60	31,57	36,65	54,72	19,89	28,72	46,99	54,66	81
1200	kg	8,02	12,48	18,94	22,56	33,68	10,18	16,53	25,07	30,43	45,47	12,35	18,79	29,52	34,93	52,17	14,41	20,91	33,74	39,18	58,51	21,25	30,67	50,25	58,48	87
1320	kg		13,86	20,72	24,70	36,89		18,37	27,47	33,38	49,87	13,67	20,85	32,36	38,31	57,22	15,94	23,17	36,98	42,97	64,18	23,46	33,90	55,14	64,20	95
1400	kg		14,62	21,98	26,21	39,16		19,39	29,13	35,42	52,94	14,43	22,01	34,31	40,65	60,73	16,83	24,47	39,22	45,59	68,11	24,81	35,86	58,47	68,10	101
1600	kg		16,51	24,95	29,79	44,50		21,95	33,13	40,33	60,29	16,60	24,93	39,04	46,28	69,16	19,35	27,73	44,63	51,91	77,57		40,74	66,62	77,64	
1800	kg		18,40	28,09	33,55	50,08		24,51	37,30	45,43		18,60	27,85	43,94	52,11	77,84	21,69	30,99	50,22	58,43	87,27		45,62	74,94	87,37	
2000	kg		20,30	31,06	37,12	55,43		27,06	41,30	50,33	75,21	20,51	30,77	48,67	57,74	86,27	23,93	34,26	55,63	64,75	96,73		50,50	83,09	96,91	144
2200	kg		22,19	34,03	40,69	60,77		29,62	45,29	55,24	82,55	22,41	33,68	53,39	63,37	94,70	26,18	37,52	61,05	71,07	106,19					
2400	kg		24,58	37,00	44,26	66,11		32,78	49,29	60,14		24,31	37,21	58,12	69,01		28,43	41,39	66,47	77,39						
2600	kg				47,83	71,45				65,05			40,13	62,85	74,64		30,68	44,65	71,88	83,71						
2800	kg				51,41	76,80				69,95				67,57	80,28				77,30	90,04						
3000	kg				54,98	82,14				74,86				72,30	85,91				82,71	96,36						
Type prog	gramme		CON	/РАСТ	RAD	IATOR																				



ATORS and T6 HYGIENE CENTRE-**CONNECTION RADIATORS** in rooms with particular hygienic requirements is highlighted by the hygiene certificate issued by Ernst Moritz Arndt University of Greifswald.

The HYGIENE RADIATORS have been specially designed for use in hospitals and for installation in rooms subject to particular hygiene requirements.

- covers or sides
- Large inner separation distance without small-scale structures
- Easy to clean
- Rounded corners and edges, finished to a high level

In order to offer the necessary alternatives for installation as well as complying with the hygiene requirements and guidelines, the hygiene radiators are available in T6 and compact designs.

cine Installation in Raumen mit Desonderen nygjennsenen Amoruerungen zu stellen sind, Die Verarheitung weist eine gute Oualität auf. Bevonders hervorzu steren sine. Die verarnenung weist eine guie Quantat auf. Bevonders Nervor zuheben ist hierbei der großeißeige Innenabstand ohne kleinräumige Strukturen. zunenen ist merner der gronzugige innenanstand onne kienraumige Mrukturen. Hohlräume und Plabe sowie die gute Verarbeitung mit gerundeten Ecken und Kanton sowie der Utweicht auf zusärslage. Mach beistelnen. Hohlräume und Pfalze sowie die gute Verarbeitung mit gerundeten Eeken und Kanten sowie der Verzicht auf zusätzliebe Verkieldungen.

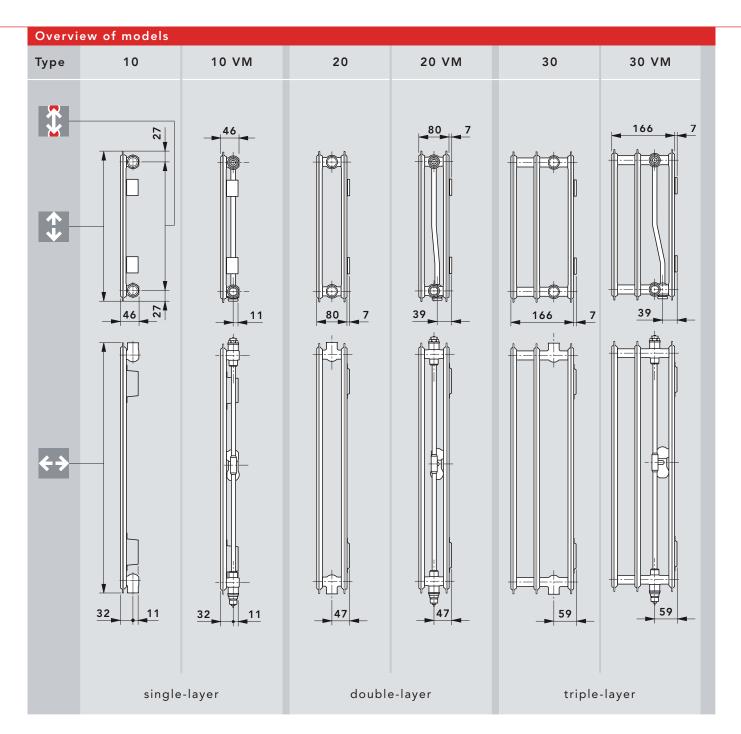
Desiafektionsmittein wurde innerhalb dieses Outachtens geprüft.

Desiafektionsmittein wurde innerhalb dieses Outachtens geprüft. Desintektionsmittein wurde, innernath dieses Gutachtens gepruit.

Dabei wurden mit den Präpiralen Ultrasol F (Wirkstoffbasis: Ouat+Aldehyd) Danci wurden mit den Praparaten Ultrasol F (Wirkstoffbasis: Ouat+Aidehyd)
1%, AHD2000 (Wirkstoffbasis: Alkohol) unverdönnt, Trichlorol (Chloromin T) 1%, AMD2000 (wirestollasse Alkoho)) unvertunat, Irtenforo (Chiorania 1) 0.75%, und Wolasterii (Peroxiverbindung 0.5% entsprechend den Anssendungsbangsmirationen der DGHM-Livie winder zum Verwisch mit Wateret. 0.75% und wolasterii (Peroxivernindung 0.5% entspreenend den Amvendungskonzentrationen der DGHM-Liste sowie zum Vergleich mit Wasser Anwendungskonzentrationen der DOHM-Liste sowie zum vergiesen mit wasset auf definierten Flächen jeweik 500 Desinfektionen durchgeführt. Nach diesen Desinfektionen haus Wassersanwondung waren auf allen behandelten Flächen. Desinfektionen bzw. Wasseranwendung waren auf allen nenanuetten Fisienen weder makroskopisch noch mikroskopisch Mattrialveränderungen gegenüber dem Annanan-keld Gantralffag. Inchassandaren die Welterstandsfejfistekeijt orionnlichte dem Ausgangsbild leutseliber, inspessondere die widerstandstangkeit gegenüber Wofdsteril das bekanntermaßen ein sehr aggressives Flichendesinfektionsenlitel ist in einer zweiten Versuchsteilne in 3° iner Konzentration neuteit wurde ohne Wolasterii, das bekanniermaßen ein sehr aggressives vasenengesinierkuonsmittet in und in einer zweiten Versuchsreihe in 5% iger Konzentralion gepräft wurde, ohne med in einer zweiten verstensteine in 5%iger Konzentration geprati wurde, onne das Materialveränderungen sichtbar wurden, unterstreicht die sehr gute Beschichtung dieser Heizkörper. Beschiemung aleser Heuzkorper.
Bei experimenteller Spröhkontamination mit einem Textkeim (E. coli) konnten alle bei experimentener sprunxontammation mit einem Testkeim (E. coh) konnten alle Flächen mit o.g. Prüpartiten problemios gereifaigt und desinfiziert werden, wobei nach anach Francesche Transcracketzsische John Dentermannen und desinfiziert werden, wobei Flaction mit o.g. Proparation pronomies gereinigt und desmitziert werden, wober nach anschließender Tupferabstrichkontrolle der Prüfkeim nicht mehr nachweis.

Prof. Dr. med. A. Kramer Anlage: Testmethodik/Einzelergebe

36 HYGIENE compact radiators / T6-HYGIENE centre-connection radiators Overview of models



Type		10	/ 10 V	/M			20	/ 20 \	/M		30 / 30 VM							
Height [mm]	300	400	500	600	900	300	400	500	600	900	300	400	500	600	900			
Length (+) [mm]	up 12	to 00				up 24		up 30		up to 2000	up to 3000		up to 2200		up to 1800			
Gradation			All c	verall len	gths from	400 m in g	gradation	s of 200 r	nm; also !	520, 720, 9	920, 1120	and 1320	mm					

Twin-pipe operation, single-pipe operation, types of connection

N.B.:

Please refer to the appropriate sections concerning the **T6 CENTRE-CONNECTION RADIATOR** on pages 17 - 21 for technical information on the connection settings.



0/70/	20° C	Outp	ut data in	watts in ac	cordance wi	th DIN EN	1 442 and/o	or ÖNORM	EN 442	Feed tempe	erature 90	- return ter	mperature ?	70 - room t	emperatur	e 20 °C
1	Height [mm]		300			400			500			600			900	
+ >	Туре	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30
Length [mm]	Output	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM
400	watts	176	298	432	224	376	541	271	452	645	317	524	747	446	729	1047
520	watts	228	387	561	292	489	703	353	587	839	412	681	971	579	948	1361
600	watts	263	447	647	337	565	811	407	677	968	475	786	1121	668	1094	1570
720	watts	316	536	777	404	678	973	488	813	1162	570	943	1345	802	1313	1884
													1459	2093		
920 watts 404 685 993 516 866 1244 624 1039												1205	1718	1025	1677	2407
1000	watts	439	745	1079	561	941	1352	678	1129	1614	792	1310	1868	1114	1823	2617
1120	watts	492	834	1208	628	1054	1514	760	1265	1807	887	1467	2092	1247	2042	2931
1200	watts	527	894	1295	673	1129	1622	814	1355	1936	951	1572	2241	1337	2188	3140
1320	watts		983	1424		1242	1785	895	1490	2130	1046	1729	2466	1470	2407	3454
1400	watts		1043	1510		1318	1893	950	1581	2259	1109	1834	2615	1559	2553	3663
1600	watts		1192	1726		1506	2163	1085	1807	2582	1268	2096	2989		2917	4187
1800	watts		1341	1942		1694	2434	1221	2032	2905	1426	2358	3362		3282	4710
2000	watts		1489	2158		1882	2704	1357	2258	3227	1585	2620	3736		3647	5233
2200	watts		1638	2373		2071	2974	1492	2484	3550	1743	2881	4109			
2400	watts		1787	2589		2259		1628	2710		1901	3143				
2600	watts			2805					2936		2060	3405				
2800	watts			3021					3162			3667				
3000	watts			3237					3387			3929				
Radiator e	xponent n	1,274	1,278	1,288	1,283	1,282	1,288	1,292	1,287	1,288	1,301	1,291	1,288	1,305	1,294	1,317
Model	range		HYGIEN	NE compa	ct radiato	rs and Té	-HYGIEN	E centre-c	onnectio	n radiato	rs					
		Th			nd dimensi							set out ir	the price	list.		

38 HYGIENE compact radiators / T6-HYGIENE centre-connection radiators Outputs - temperature group 75/65/20° C and 70/55/20° C

75/65/	20° C	Outpu	t data in w	atts in acco	ordance wit	h DIN EN	442 and/or	ÖNORM E	N 442	Feed temp	perature 75	- return to	emperature	e 65 - room	temperati	ıre 20 °C
1	Height [mm]		300			400			500			600			900	
+ >	Туре	10 10 VM	20 20 VM	30	10 10 VM	20	30 30 VM	10 10 VM	20	30	10 10 VM	20 20 VM	30	10 10 VM	20 20 VM	30
Length [mm]	Output	10 VIVI	20 VIVI	30 VM	10 VIVI	20 VM	30 VIVI	TO VIVI	20 VM	30 VM	10 VIVI	20 VIVI	30 VM	10 VIVI	20 VIVI	30 VM
400	watts	139	236	341	178	298	428	214	357	510	250	414	591	351	576	823
520	watts	181	307	444	231	387	556	279	464	664	325	538	768	457	749	1070
600	watts	209	354	512	266	447	641	322	536	766	375	621	886	527	864	1235
720	watts	251	425	614	320	536	770	386	643	919	450	745	1063	632	1037	1482
800 watts 278 472 682 355 596 855 429 714 1021 500 82										828	1182	702	1152	1646		
920	watts	320	543	785	408	685	983	493	822	1174	575	952	1359	808	1325	1893
1000	watts	348	590	853	444	745	1069	536	893	1276	625	1035	1477	878	1440	2058
1120	watts	390	661	955	497	834	1197	600	1000	1429	700	1159	1654	983	1613	2305
1200	watts	418	708	1024	533	894	1283	643	1072	1531	750	1242	1772	1054	1728	2470
1320	watts		779	1126		983	1411	708	1179	1684	825	1366	1950	1159	1901	2717
1400	watts		826	1194		1043	1497	750	1250	1786	875	1449	2068	1229	2016	2881
1600	watts		944	1365		1192	1710	858	1429	2042	1000	1656	2363		2304	3293
1800	watts		1062	1535		1341	1924	965	1607	2297	1125	1863	2659		2592	3704
2000	watts		1180	1706		1490	2138	1072	1786	2552	1250	2070	2954		2880	4116
2200	watts		1298	1877		1639	2352	1179	1965	2807	1375	2277	3249			
2400	watts		1416	2047		1788		1286	2143		1500	2484				
2600	watts			2218					2322		1625	2691				
2800	watts			2388					2500			2898				
3000	watts			2559					2679			3105				
Radiator ex	xponent n	1,274	1,278	1,288	1,283	1,282	1,288	1,292	1,287	1,288	1,301	1,291	1,288	1,305	1,294	1,317
Model	range	T'			ct radiato								.1 .	1: .		

70/55/	20° C	Outpu	t data in w	atts in acc	ordance wit	h DIN EN	442 and/or	ÖNORM I	EN 442	Feed temp	erature 70	- return te	mperature	55 - room	temperatu	re 20 °C
1	Height [mm]		300			400			500			600			900	
< >	Туре	10 10 VM	20 20 VM	30 30 VM	10 10 VM	20 20 VM	30 30 VM	10 10 VM	20 20 VM	30 30 VM	10 10 VM	20 20 VM	30 30 VM	10 10 VM	20 20 VM	30 30 VM
Length [mm]	Output	10 1111	20 1111	30 1111	10 1111	20 1111	30 VIII	10 1111	20 1111	30 VIII	10 1111	20 1111	00 1111	10 1111	20 7111	30 7111
400	watts	113	192	277	144	242	347	174	290	414	202	336	479	284	467	665
520	watts	147	249	360	187	315	451	226	377	538	263	436	623	369	607	864
600	watts	170	288	415	216	363	520	261	435	621	304	503	719	426	700	997
720	watts	204	345	498	260	436	624	313	522	745	364	604	863	511	840	1196
800	watts	226	384	553	288	484	694	348	580	828	405	671	958	568	933	1329
920	watts	260	441	637	332	556	798	400	667	952	465	772	1102	653	1073	1529
1000	watts	283	479	692	360	605	867	434	724	1035	506	839	1198	710	1167	1661
1120	watts	317	537	775	404	677	971	487	811	1159	567	940	1342	795	1307	1861
1200	watts	339	575	830	433	726	1041	521	869	1242	607	1007	1438	852	1400	1994
1320	watts		633	913		798	1145	574	956	1366	668	1108	1581	938	1540	2193
1400	watts		671	969		847	1214	608	1014	1449	708	1175	1677	994	1634	2326
1600	watts		767	1107		968	1387	695	1159	1656	809	1342	1917		1867	2658
1800	watts		863	1245		1089	1561	782	1304	1863	911	1510	2157		2100	2991
2000	watts		959	1384		1210	1734	869	1449	2070	1012	1678	2396		2334	3323
2200	watts		1055	1522		1331	1908	956	1594	2277	1113	1846	2636			
2400	watts		1151	1660		1452		1043	1739		1214	2014				
2600	watts			1799					1884		1315	2182				
2800	watts			1937					2029			2349				
3000	watts			2076					2173			2517				
Radiator ex	xponent n	1,274	1,278	1,288	1,283	1,282	1,288	1,292	1,287	1,288	1,301	1,291	1,288	1,305	1,294	1,317
Model	range		HYGIEN	IE compa	ct radiato	rs and Té	S-HYGIENI	E centre-c	onnectio	n radiato	rs					
		The	e radiator	models a	nd dimensi	ons that r	may be ord	ered are b	ased on t	he produc	tion range	set out ir	the price	list.		

5/45/2	20° C	Outpu	t data in w	vatts in acc	ordance wit	h DIN EN	442 and/o	r ÖNORM I	EN 442	Feed temp	erature 55	- return te	emperature	45 - room	temperatu	re 20°C
↑	Height [mm]		300			400			500			600			900	
< >	Туре	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30 30 VM
Length [mm]	Output	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VIV
400	watts	73	123	177	92	155	221	111	185	264	129	214	306	180	297	420
520	watts	94	160	230	120	201	288	144	241	344	167	278	398	234	387	546
600	watts	109	184	265	138	232	332	166	278	397	193	321	459	271	446	630
720	watts	131	221 318 166 279 399 199 333 476 232 385 551 325										325	535	756	
800	watts 145 246 353 184 310 443 222 370 529 257 428 612											361	595	840		
920	watts	167	283	406	212	356	509	255	426	608	296	492	704	415	684	966
1000	watts	182	307	442	231	387	554	277	463	661	322	535	765	451	743	1050
1120	watts	203	344	495	258	433	620	310	518	740	360	599	857	505	833	1176
1200	watts	218	369	530	277	464	664	332	555	793	386	642	918	541	892	1260
1320	watts		406	583		511	731	366	611	872	425	706	1010	595	981	1386
1400	watts		430	618		542	775	388	648	925	450	749	1071	631	1041	1470
1600	watts		492	707		619	886	443	740	1057	515	856	1224		1189	1680
1800	watts		553	795		697	997	499	833	1190	579	963	1377		1338	1890
2000	watts		614	883		774	1107	554	926	1322	643	1070	1530		1487	2100
2200	watts		676	972		851	1218	610	1018	1454	708	1177	1683			
2400	watts		737	1060		929		665	1111		772	1284				
2600	watts			1148					1203		836	1391				
2800	watts			1237					1296			1498				
3000	watts			1325					1388			1605				
Radiator ex	cponent n	1,274	1,278	1,288	1,283	1,282	1,288	1,292	1,287	1,288	1,301	1,291	1,288	1,305	1,294	1,31
Model	range		HYGIEN	NE compa	ct radiato	rs and Té	S-HYGIEN	E centre-c	onnectio	n radiato	rs					

45/40/	20° C	Outpu	t data in w	atts in acc	ordance wit	h DIN EN	442 and/or	ÖNORM I	N 442	Feed temp	erature 45	- return te	emperature	40 - room	temperatu	re 20 °C
1	Height [mm]		300			400			500			600			900	
<>	Туре	10	20	30	10	20	30	10	20	30	10	20	30	10	20	30
Length [mm]	Output	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM
400	watts	50	85	122	64	107	153	76	128	183	88	148	211	124	205	288
520	watts	65	111	159	83	139	199	99	166	237	115	192	275	161	266	374
600	watts	75	128	183	96	161	229	115	192	274	133	221	317	186	307	431
720	watts	91	153	220	115	193	275	138	230	329	159	266	380	223	369	518
800	watts	101	170	244	128	214	306	153	256	365	177	295	423	248	410	575
920	watts	116	196	281	147	246	352	176	294	420	204	340	486	285	471	661
1000	watts	126	213	305	159	268	382	191	320	456	221	369	528	310	512	719
1120	watts	141	238	342	179	300	428	214	358	511	248	413	592	347	574	805
1200	watts	151	255	366	191	321	459	229	384	548	265	443	634	372	615	863
1320	watts		281	402		353	504	252	422	602	292	487	697	409	676	949
1400	watts		298	427		375	535	267	447	639	310	517	740	434	717	1007
1600	watts		340	488		428	612	306	511	730	354	590	845		820	1150
1800	watts		383	549		482	688	344	575	821	398	664	951		922	1294
2000	watts		425	610		535	764	382	639	913	442	738	1056		1025	1438
2200	watts		468	671		589	841	420	703	1004	487	812	1162			
2400	watts		511	732		642		459	767		531	886				
2600	watts			793					831		575	960				
2800	watts			854					895			1033				
3000	watts			915					959			1107				
Radiator e	xponent n	1,274	1,278	1,288	1,283	1,282	1,288	1,292	1,287	1,288	1,301	1,291	1,288	1,305	1,294	1,317
Model	range		HYGIEN	NE compa	ct radiato	rs and Té	-HYGIENI	E centre-c	onnectio	n radiator	'S					
	-	The			nd dimensi							set out ir	the price	list.		

40 HYGIENE compact radiators / T6-HYGIENE centre-connection radiators Weight

1	Height [mm]		300			400			500			600			900	
<>	Туре	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VM	10 VM	20 VM	30 VN
Length [mm]	Weight															
400	kg	4,05	6,30	9,16	4,78	7,76	11,35	5,53	9,24	13,54	6,25	10,66	15,64	8,60	15,24	22,4
520	kg	4,76	7,69	11,23	5,71	9,59	14,07	6,67	11,51	16,93	7,59	13,33	19,64	10,63	19,26	28,4
600	kg	5,23	8,62	12,62	6,33	10,80	15,88	7,43	13,02	19,17	8,49	15,12	22,30	11,99	21,95	32,4
720	kg	5,94	10,01	14,69 7,25 12,63 18,61 8,57 15,27 22,56 9,84 17,79									26,29	14,01	25,97	38,4
800	kg	6,41	10,94										28,95	15,38	28,65	42,5
920	kg	7,12	12,39	18,29	8,79	15,73	23,29	10,47	19,11	28,32	12,08	22,31	33,09	17,40	32,75	48,6
1000	kg	7,59	13,32	19,67	9,41	16,96	25,10	11,23	20,62	30,58	12,99	24,10	35,75	18,75	35,43	52,6
1120	kg	8,30	14,72	21,75	10,33	18,78	27,83	12,39	22,88	33,95	14,34	26,77	39,75	20,79	39,46	58,6
1200	kg	8,78	15,64	23,12	10,95	19,99	29,65	13,15	24,39	36,20	15,23	28,55	42,41	22,14	42,13	62,6
1320	kg		17,03	25,20		21,82	32,36	14,46	26,66	39,58	16,76	31,23	46,41	24,35	46,16	68,7
1400	kg		18,02	26,72		23,10	34,32	15,23	28,22	41,97	17,66	33,08	49,21	25,70	48,92	72,8
1600	kg		20,34	30,18		26,14	38,85	17,40	32,00	47,60	20,18	37,54	55,87		55,63	82,8
1800	kg		22,83	33,88		29,36	43,64	19,39	35,93	53,47	22,51	42,16	62,77		62,50	93,1
2000	kg		25,15	37,33		32,40	48,17	21,30	39,71	59,09	24,76	46,62	69,42		69,21	103,1
2200	kg		27,47	40,79		35,43	52,72	23,20	43,48	64,72	27,00	51,08	76,09			
2400	kg		29,79	44,25		38,48		25,11	47,24		29,25	55,55				
2600	kg			47,70					51,02		31,50	60,00				
2800	kg			51,16					54,78			64,46				
3000	kg			54,62					58,56			68,92				

HYGIENE COMPACT Weights in kg for HYGIENE compact radiators 400 900 300 500 600 Туре 10 10 10 20 30 20 30 10 20 10 20 30 20 30 Weight kg 3,29 5,55 8,41 4,01 6,99 10,57 4,73 8,45 12,75 5,42 9,83 14,82 7,70 14,34 21,56 4,94 13,30 5,87 10,71 12,51 9,74 27,57 520 kg 4,00 6,94 10,48 8,82 16,14 6,77 18,81 18,36 21,48 11,09 21,05 31,58 600 kg 4,48 7,87 11,87 5,55 10,03 15,11 6,64 12,23 18,38 7,67 14,29 5,19 17,84 7,78 21,77 9.01 16.96 25.47 13,12 25.07 37.60 720 kg 9,26 13,94 6,48 11,86 14,48 800 kg 13,07 19,66 8.54 15.99 24,01 18.75 28,13 14,48 27,76 41,61 17,53 27,53 31,86 920 kg 6,37 24,33 10,44 19,82 29,78 12,17 23,27 34,93 17,86 34,53 51,77 6.84 12.56 18.91 8.64 16.18 1000 1120 7,55 13.96 20.99 9,56 18,00 27.05 11,59 22.09 33,16 13,51 25,95 38,93 19,90 38,56 57,79 1200 kg 14,89 22,37 10,18 19,22 28,87 12,35 23,60 35,41 14,41 27,73 41,59 21,25 41,24 61,80 13,67 30,40 45,27 67,81 1320 kg 16,28 24,45 21,05 31,59 25,86 kg 17,27 25,97 22,33 33,55 14,44 27,43 41,18 32,26 24,81 48,03 71,96 1400 46.81 19.35 36.71 55.05 54.73 19,59 25,37 16.60 31.21 81.99 1600 kg 29,43 38.08 1800 kg 33,12 28.58 42.87 18.60 35,14 52,67 21,69 41,34 61,61 92,25 68,32 102,28 2000 kg 2200 kg 26,71 40,04 34,66 51,95 22,41 42,68 63,93 26,18 50,25 75,26 kg 2400 29.04 43.50 37,70 24,32 46,45 28,43 54,72 2600 kg 46,95 50,22 59,18 kg 50,41 53,99 63,64 kg 53,87 57,77 68,10 3000 Model range HYGIENE compact radiators

The radiator models and dimensions that may be ordered are based on the production range set out in the price list.



Heat emission

The specification was verified in accordance with DIN EN 442 at The Technical University, Stuttgart (Registration at WSP-Cert Product Certification Centre, Stuttgart), under the numbers:

Type 21 K-S 0447 0448 Type 22 K 0449 Type 33 K

and in accordance with OENORM (Austrian standard) EN 442 at the Technological Commercial Museum, Vienna.

Material

UPGRADE RADIATORS upgrade radiators are made of cold-rolled sheet steel, in accordance with EN 442-1, with a stylish and robust fluting with ribs at 40 mm intervals.

Equipment

Each UPGRADE RADIATOR is equipped with wall brackets that are welded onto the back. The radiator types 21 K-S, 22 K and 33 K are equipped with a detachable top cover and two closed side panels. With every UPGRADE RA-DIATOR you get a fit-up aid, made of cardboard.

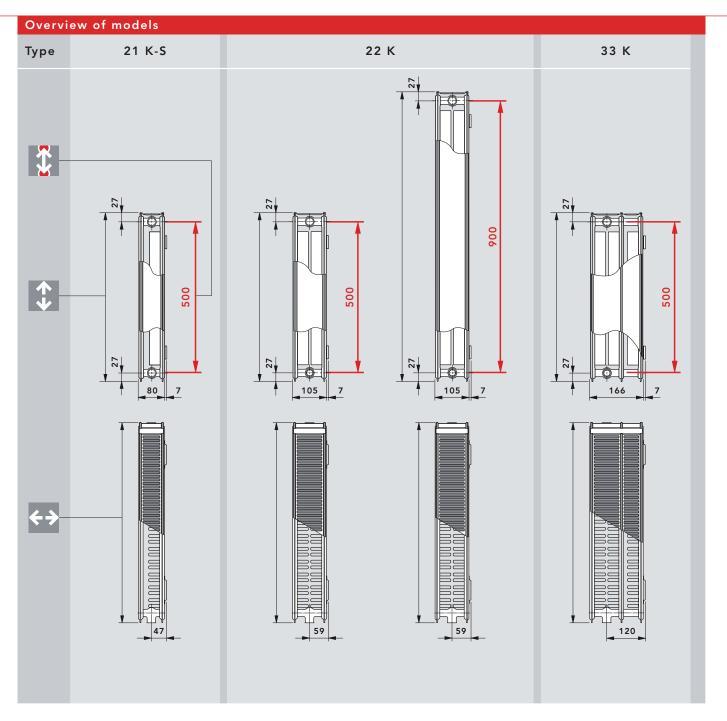
Paint coating

- 1. Undercoating in accordance with DIN 55900 part 1, stoved at 190° C.
- 2. Finish in accordance with DIN 55900 part 2, in standard colour 9016 (on request available in many standard colours and sanitary-ware colours at an extra charge), applied electrostatically in a modern powder coating facility. This especially resistant coating is stoved at an object temperature of 210° C.

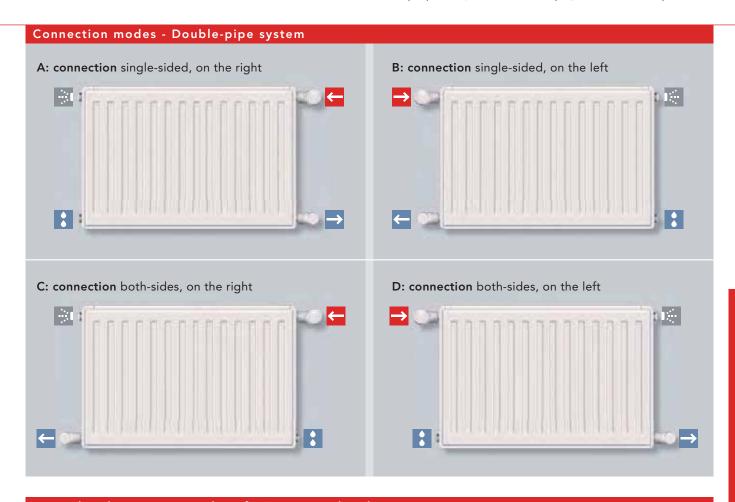
Packaging

- 1. Cardboard packaging
- 2. Edge protection
- 3. Shrink foil

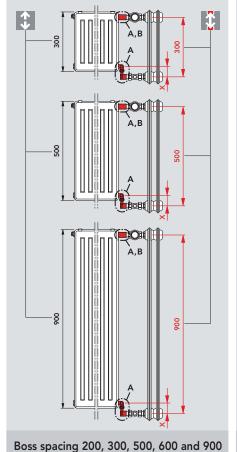
42 UPGRADE RADIATOR Overview of models

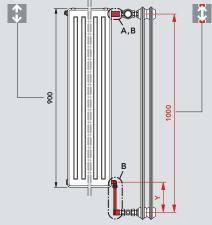


Type	21 K-S	22	K	33 K
Height [mm]	554	554	954	554
Length [mm]	600 up to 2000	600 up to 2000	400 up to 1600	600 up to 2000
Bossspacing [mm]	500	500	900	500
Steps	а	ny overall length starting with 400 and	d 600 mm available in steps of 200 mr	n









Non-standard distances are not at all a problem!

The upgrade adapter has been developed for non-standard boss spacing. Any distance problems are solved very easily by the use of this adapter.

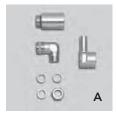
The upgrade adapter comes with a fit-up aid, made of cardboard.

Boss spacing 1000

Upgrade adapter

to replace radiators with a boss spacing of 200, 300, 500, 600 or 900 mm.

Measure X: From 45 mm up to 58 mm continuously adjustable.

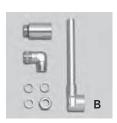


Artikel Nr.: AZ0MM090A0001000

Upgrade adapter

to replace radiators with a boss spacing of 1000 mm.

Measure Y: from 145 up to 158 mm continuously adjustable.



Artikel Nr.: AZ0MM100A0001000

By trimming the pipe by a maximum of 85 mm, the measure \mathbf{Y} can be reduced (from 60 up to 73 mm).

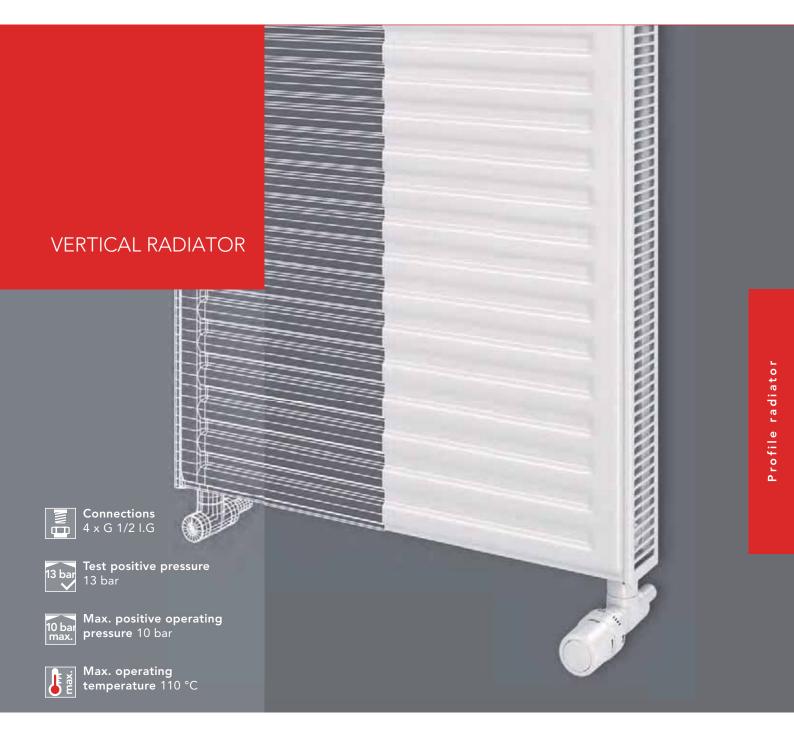
44 UPGRADE RADIATOR Temperature pairings and weights



	Wei	ight ir	n kg		
1	Height [mm]		554		954
< >	Туре	21 K-S	22 K	33 K	22 K
Length [mm]	Weight				
400	kg				20,91
600	kg	16,51	19,19	28,59	30,78
800	kg	21,63	25,22	37,61	40,65
1000	kg	26,82	31,34	46,77	50,60
1200	kg	31,94	37,36	55,79	60,47
1400	kg	37,13	43,48	64,95	70,42
1600	kg	42,25	49,51	73,98	
1800	kg	47,54	55,73	83,24	
2000	kg	52,67	61,76	92,26	
Type pr	ogramme		UPGRAD	E RADIAT	OR
The avai	lability of ar	vy type (of radiat	or as w	ءد الم

The availability of any type of radiator, as well as range of sizes, is in accordance with the production programme, as stated in the price list.

			S	ide par	nels and	top cove	er of UF	GRADE	RADIA	ORS are	taken	into cor	nsiderati	on in the	perfo	mance	data				
						R	adiator	power o	data in w	atts, in a	ccordan	ce with	DIN EN	442							
Temperature	e pairings	90)/70/	'20°	C*	75	6/65/	'20° (C*	70)/55/	′20° (C*	55	5/45/	'20°	C*	45	5/40/	'20° (C*
1	Height [mm]		554		954		554		954		554		954		554		954		554		954
+ >	Туре	21 K-S	22 K	33 K	22 K	21 K-S	22 K	33 K	22 K	21 K-S	22 K	33 K	22 K	21 K-S	22 K	33 K	22 K	21 K-S	22 K	33 K	22 K
Length [mm]	Power																				
400	Watt				1207				945				759				475				323
600	600 Watt 988 1245 1741 1811 777 976 1366										785	1100	1139	396	493	692	713	271	336	472	484
800	800 Watt 1317 1660 2322 2415 1036 1301 1822									836	1047	1467	1519	528	657	923	951	362	448	629	646
1000	Watt	1647	2075	2902	3018	1295	1626	2277	2362	1045	1309	1834	1898	660	822	1154	1188	452	559	787	807
1200	Watt	1976	2489	3483	3622	1554	1951	2732	2834	1254	1570	2201	2278	793	986	1384	1426	542	671	944	968
1400	Watt	2306	2904	4063	4226	1813	2276	3188	3307	1463	1832	2568	2658	925	1150	1615	1663	633	783	1101	1130
1600	Watt	2635	3319	4644		2072	2602	3643		1672	2094	2935		1057	1315	1846		723	895	1259	
1800	Watt	2964	3734	5224		2331	2927	4099		1881	2355	3301		1189	1479	2077		814	1007	1416	
2000	Watt	3294	4149	5805		2590	3252	4554		2091	2617	3668		1321	1643	2307		904	1119	1573	
Radiatorex	cponent n	1,318	1,336	1,331	1,345	1,318	1,336	1,331	1,345	1,318	1,336	1,331	1,345	1,318	1,336	1,331	1,345	1,318	1,336	1,331	1,345
Type pro	gramme		UPGR	ADE R	ADIATO	ORS				* SUI	PPLY TE	MPERA	TURE/R	ETURN T	ГЕМРЕ	RATURE	/ROOM	TEMPER	RATURE		
		7	The rad	iator m	odels a	nd dimer	nsions t	hat ma	y be orc	lered are	based	on the	produc	tion ran	ge set (out in t	he price	list.			



Material

VERTICAL RADIATORS are manufactured from cold-rolled sheet steel in line with EN 442-1 and have an elegant, stable profile with 40 mm beading.

Configuration

Each VERTICAL RADIATOR is equipped with suspension brackets welded onto the rear side. The 20 K radiator model is also supplied with two side grills.

Coating

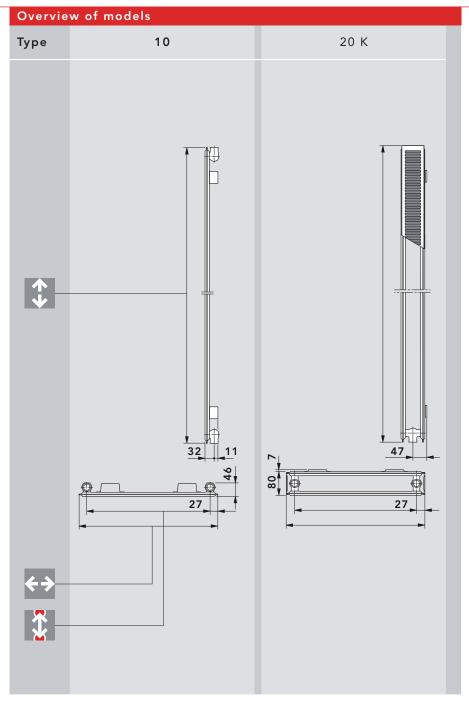
- 1. Primer in accordance with DIN 55900 part 1, fired at 190° C.
- 2. The top coat, in accordance with DIN 55900 part 2, in RAL 9016 (available in many RAL and sanitary colours on request, for a supplement), is applied electrostatically in a modern powder coating plant. The resistant coating, which is particularly important, is fired with the radiator at a temperature of 210° C.

Packaging

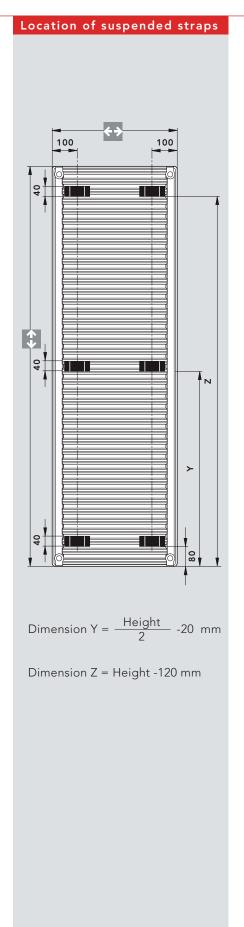
- 1. Cardboard containers
- 2. Edge protection
- 3. Shrink wrap

46 VERTICAL RADIATOR

Overview of models / illustration showing location for welding of suspended straps



Type			10					20 K						
Height [mm]	1800	2000	2200	2400	2600	1800	2000	2200	2400	2600				
Length [mm]		500 und 600 500 und 600												
Hub spacing [mm]		44	46 und 54	46			4-	46 und 54	16					
Gradation		,	All overa	ll heights	s from 18	00 mm in	200 m g	radation	s					



VERTICAL RADIATOR 47 Outputs/weights



Weights in kg for VERTICAL RADIATORS

1	Height [mm]	50	00	60	00
< >	Туре	10	20 K	10	20 K
Length [mm]	Weight				
1800	kg	18,60	36,31	21,69	42,77
2000	kg	20,50	40,22	23,93	47,39
2200	kg	22,41	44,11	26,18	52,01
2400	kg	24,32	48,01	28,43	56,64
2600	kg	26,22	51,91	30,67	61,26
Range of	models		VERTI RADIA	CAL	

The radiator models and dimensions that may be ordered are based on the production range set out in the price list.

The side grills (model 20 K) of the VERTICAL RADIATOR are taken into consideration in the output data

Output data in watts, in accordance with DIN EN 442 and/or ÖNORM EN 442

Temperature	e matches	90	/70/	20°	C*	75	/65/	'20°	C*	70	/55/	′20°	C*	55	/45/	20°	C*	45	/40/	20°	C*	Rad	iator
+ >	Height [mm]	5	00	61	00	50	00	60	00	50	00	60	00	50	00	6	00	50	00	60	00	expo	nent n
\$	Туре	10	20 K	10	20 K	10	20 K	10	20 K	10	20 K	10	20 K	10	20 K	10	20 K	10	20 K	10	20 K	10	20 K
Length [mm]	Output																						
1800	Watt	966	1601	1159	1921	751	1255	901	1506	599	1010	719	1212	370	634	444	761	248	432	298	518	1,385	1,336
2000	2000 Watt 1083 1755 1299 2106 836 1373 10							1003	1648	663	1103	796	1324	404	690	485	828	269	468	322	562	1,421	1,347
2200	Watt	1201	1913	1441	2296	931	1492	1117	1790	741	1195	889	1434	455	743	546	892	304	502	365	602	1,400	1,365
2400	Watt	1333	2075	1600	2490	1037	1613	1244	1935	829	1288	995	1546	513	796	615	955	345	535	414	642	1,378	1,383
2600								1388	2082	927	1381	1113	1658	578	848	694	1017	391	566	469	679	1,358	1,403
Range o	f models		VER ⁻	ΓICAL	RADIA ⁻	TORS						* Flo	ow tem	peratur	e/retu	rn tem	peratur	e/roon	n temp	eratur	е		

The radiator models and dimensions that may be ordered are based on the production range set out in the price list.



Heat emission

The specification was verified in accordance with DIN EN 442 at The Technical University, Stuttgart (Registration at WSP-Cert Product Certification Centre, Stuttgart), under the numbers:

Type 11 PM 0680 Type 21 PM-S 0682 Type 22 PM 0683 Type 33 PM 0684

and in accordance with OENORM (Austrian standard) EN 442 at the Technological Commercial Museum, Vienna.

Material

T6-PLAN CENTRALLY CONNECTED RADIATORS are made of cold-rolled

sheetsteel, in accordance with EN 442-1, and a galvanised front panel (1mm thick).

Equipment

Each T6-PLAN CENTRAL CONNECTION RADIATOR is equipped with an integrated T-valve set, and suitable for double-pipe and single-pipe systems with a single-pipe manifold; it comes with a fitted valve top with a pre-set k_v-value, a protective cap and welded suspension brackets on the back. The drain plug and the pivoting special vent plug, as well as the dummy plug are fitted with seals. All types of radiator are equipped with a detachable top cover and two closed side panels.

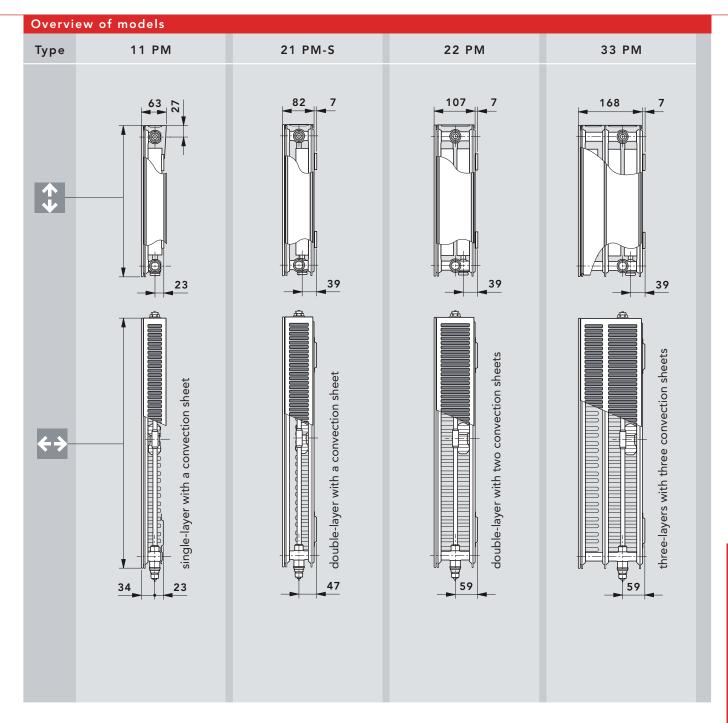
Paint coating

- 1. Undercoating in accordance with DIN 55900 part 1, stoved at 190° C.
- 2. Finish in accordance with DIN 55900 part 2, in standard colour 9016 (on request available in many standard colours and sanitary-ware colours at an extra charge), applied electrostatically in a modern powder coating facility. This especially resistant coating is stoved at an object temperature of 210° C.

Packaging

- 1. Cardboard packaging
- 2. Edge protection
- 3. Shrink foil

T6-PLAN CENTRALLY CONNECTED RADIATOR 49 Overview of models



Type		1	1 PN	/ 1			21	PM	-S			2	22 PI	√ I			3	3 PN	/	
Height [mm]	300	400	500	600	900	300	400	500	600	900	300	400	500	600	900	300	400	500	600	900
Length (+) [mm]	up 24		up 26	to 00	up to 2000	up 24		up 30		up to 2000		up 30	to 000		up to 2000	up to 3000		up to 2200		up to 1800
Steps			all over	all leng	gth start	ing with	400 m	ım avai	lable ir	steps o	of 200 m	ım, ado	ditional	ly 520,	720, 92	0, 1120	and 13	320 mm	ı	

Description and delivery equipment

The T6-PLAN Centrally connected radiator, with its welded-in set of T-shaped valves, sets new standards in the field of centre-connection technology. Beside its elegant appearance, the T6-PLAN Centrally connected radiator attracts attention because of its unique patented features, its all-purpose suitability and easy installation for the heating-installer, leaving aside a multitude of other striking advantages.

Consequently the T6-PLAN Centrally connected radiator truly serves to solve your problems.

To round off all the advantages mentioned above, the versatility of the T6-PLAN Centrally connected radiator regarding style and colouring offers a wide scope for design.

The T6-PLAN Centrally connected radiator radiator is - with its welded in set of T-shaped valves - suitable for double-pipe installations as well as single-pipe installations, using a one-pipe manifold.

Additionally to the central connection from the bottom, the sophisticated design makes possible other connections known from compact radiators, such as the single-sided and two-sided connection. The radiator is delivered ready for double-pipe installation, with a factory-adjusted k-setting, appropriate to the radiator output.

For district heating installations with a big difference between water supply and return temperature, a valve unit with a stepless - and therefore precise - adjustment is available on request.

By using universal supply and return connections, commercially available pipes (external thread 3/4") made of copper, steel, plastic or alloy, can be connected; the corresponding accessories and the commercially obtainable shut-off valve have to be used.

The following thermostat heads can be directly fitted at the radiator: "RA 2000" and "RAW" by Danfoss, "VK" by Heimeier, "D" by Herz, "thera DA" by MNG, as well as "UNI XD" by Oventrop. The radiator will be delivered with a protective cap.

The operation parameters are specified with a positive operating pressure of 10 bar and an operating temperature of 110° C. With single-pipe installations, a cycle's maximum radiator power of about 10 kW at DT=T1-T2=20 K (at T1 = 90 °C) has to be taken into account.

Consequently the T6-PLAN Centrally connected radiator is revolutionary in the field of the new generation of centrally-connected radiator technology.

Thus the T6-PLAN Centrally connected radiator has to be regarded as groundbreaking for the new generation of centrally-connected radiators. With this type of radiator - with its ideal functioning of the whole radiator-valve unit, its superb heating output, combined with the motivation to install thermostat heads, saving heating energy becomes evident.

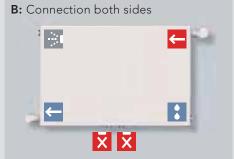
Our valve radiators' connections (external thread G 3/4) comply in construction and tolerance with the specifications, in accordance with DIN V 3838. If conically sealed drain cocks are used (single-pipe and double-pipe operation), where an adjustment of tolerance of distance to the centre is not possible, we must repudiate liability for any damage connected to this.

Therefore we recommend to use only flat sealed drain cocks, or drain cocks where an adjustment of tolerance of the distance to the centre is possible.



Connection modes - Double-pipe system A: Single-sided connection

Caution: When using the T6-PLAN CENTRALLY CONNECTED RADIATOR as a compact radiator, the 3/4" screwing caps made of plastic have to be



replaced by nickel-plated brass caps (accessory). Available under the item number: AZ0PL000C0002000. Additionally the plastic part of the special



vent plug has to be removed. Further information on double and single pipe operation you will find on page 17 -

T6-PLAN CENTRALLY CONNECTED RADIATOR 51 Temperature pairings 90/70/20° C and 75/65/20° C

90/70/	20° C			Side pa	nels and	l top co	ver of ⁻	T6-PLA	N Centra	ally conr	nected r	adiator	s are tal	ken into	conside	eration	in the po	erforma	nce dat	a	
	20 C	Radi	ator po	wer da	ta in wa	tts, in a	accorda	nce wi	th DIN	EN 442	supp	ly tem	perature	e 90 - r	eturn te	mpera	ture 70	- room	temper	ature 2	:0° C
1	Height [mm]		30	00			40	00			50	00			60	00			90	00	
< >	Туре	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM
Length [mm]	Power																				
400	Watt	270	399	544	796	336	503	681	994	398	595	774	1091	428	660	852	1233	611	901	1150	1612
520	Watt	352	518	707	1035	437	654	885	1293	518	773	1006	1419	556	858	1108	1603	794	1172	1495	2096
600	Watt	406	598	815	1194	504	755	1021	1492	598	892	1160	1637	642	990	1278	1850	916	1352	1725	2418
720	Watt	487	718	978	1433	605	906	1225	1790	717	1071	1392	1964	770	1188	1534	2220	1099	1622	2070	2902
800	Watt	541	798	1087	1592	672	1006	1362	1989	797	1190	1547	2182	856	1320	1704	2466	1222	1802	2300	3224
920	Watt	622	917	1250	1831	773	1157	1566	2287	916	1368	1779	2510	984	1518	1960	2836	1405	2073	2645	3708
1000	Watt	676	997	1359	1990	840	1258	1702	2486	996	1487	1934	2728	1070	1650	2130	3083	1527	2253	2875	4030
1120	Watt	757	1117	1522	2229	941	1409	1906	2784	1116	1665	2166	3055	1198	1848	2386	3453	1710	2523	3220	4514
1200	Watt	811	1196	1631	2388	1008	1510	2042	2983	1195	1784	2321	3274	1284	1980	2556	3700	1832	2704	3450	4836
1320	Watt	892	1316	1794	2627	1109	1661	2247	3282	1315	1963	2553	3601	1412	2178	2812	4070	2016	2974	3795	5320
1400	Watt	946	1396	1903	2786	1176	1761	2383	3480	1394	2082	2708	3819	1498	2310	2982	4316	2138	3154	4025	5642
1600	Watt	1082	1595	2174	3184	1344	2013	2723	3978	1594	2379	3094	4365	1712	2640	3408	4933	2443	3605	4600	6448
1800	Watt	1217	1795	2446	3582	1512	2264	3064	4475	1793	2677	3481	4910	1926	2970	3834	5549	2749	4055	5175	7254
2000	Watt	1352	1994	2718	3980	1680	2516	3404	4972	1992	2974	3868	5456	2140	3300	4260	6166	3054	4506	5750	
2200	Watt	1487	2193	2990	4378	1848	2768	3744	5469	2191	3271	4255	6002	2354	3630	4686	6783				
2400	Watt	1622	2393	3262	4776	2016	3019	4085		2390	3569	4642		2568	3960	5112					
2600	Watt			3533	5174			4425		2590	3866	5028		2782	4290	5538					
2800	Watt			3805	5572			4766			4164	5415			4620	5964					
3000	Watt			4077	5970			5106			4461	5802			4950	6390					
Radiatore	xponent n	1,311	1,328	1,308	1,314	1,321	1,327	1,328	1,342	1,313	1,299	1,322	1,327	1,303	1,302	1,337	1,333	1,328	1,326	1,349	1,33
Type pro	gramme		T6-PL	AN CE	NTRALL	Y CON	NECTE	D RAD	DIATOR												
	•	ilabilit	y of any	type c	of radiate	or, as w	ell as ra	ange of	f sizes, i	s in acc	ordance	e with t	he prod	luction	progran	nme, as	stated	in the p	rice lis	t.	

3/03/	20° C	Radi	ator po	wer da	ita in wa	atts, in a	accorda	ınce wi	th DIN	EN 442	supp	ly tem	peratur	e 75 - r	eturn te	mpera	ture 65	- room	temper	ature 2	20° C
1	Height [mm]		30	00			40	00			50	00			60	00			90	00	
< >	Type	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 P
ength mm]	Power																				
400	Watt	213	313	428	626	264	395	534	778	314	469	608	857	338	520	668	967	480	708	899	126
520	Watt	277	407	557	814	343	514	695	1012	408	610	790	1114	439	677	868	1257	623	920	1169	164
600	Watt	319	470	643	940	396	593	802	1168	470	704	912	1285	506	781	1001	1451	719	1061	1349	189
720	Watt	383	564	771	1128	475	711	962	1401	564	845	1094	1542	608	937	1202	1741	863	1274	1619	22
800	Watt	426	626	857	1253	528	790	1069	1557	627	938	1216	1714	675	1041	1335	1934	959	1415	1798	252
920	Watt	489	720	985	1441	607	909	1229	1790	721	1079	1398	1971	776	1197	1535	2225	1103	1627	2068	29
1000	Watt	532	783	1071	1566	660	988	1336	1946	784	1173	1520	2142	844	1301	1669	2418	1199	1769	2248	31
1120	Watt	596	877	1200	1754	739	1107	1496	2180	878	1314	1702	2399	945	1457	1869	2708	1343	1981	2518	35
1200	Watt	638	940	1285	1879	792	1186	1603	2335	941	1408	1824	2570	1013	1561	2003	2902	1439	2123	2698	37
1320	Watt	702	1034	1414	2067	871	1304	1764	2569	1035	1548	2006	2827	1114	1717	2203	3192	1583	2335	2967	417
1400	Watt	745	1096	1499	2192	924	1383	1870	2724	1098	1642	2128	2999	1182	1821	2337	3385	1679	2477	3147	44
1600	Watt	851	1253	1714	2506	1056	1581	2138	3114	1254	1877	2432	3427	1350	2082	2670	3869	1918	2830	3597	50
1800	Watt	958	1409	1928	2819	1188	1778	2405	3503	1411	2111	2736	3856	1519	2342	3004	4352	2158	3184	4046	568
2000	Watt	1064	1566	2142	3132	1320	1976	2672	3892	1568	2346	3040	4284	1688	2602	3338	4836	2398	3538	4496	
2200	Watt	1170	1723	2356	3445	1452	2174	2939	4281	1725	2581	3344	4712	1857	2862	3672	5320				
2400	Watt	1277	1879	2570	3758	1584	2371	3206		1882	2815	3648		2026	3122	4006					
2600	Watt			2785	4072			3474		2038	3050	3952		2194	3383	4339					
2800	Watt			2999	4385			3741			3284	4256			3643	4673					
3000	Watt			3213	4698			4008			3519	4560			3903	5007					
Radiatore	xponent n	1,311	1,328	1,308	1,314	1,321	1,327	1,328	1,342	1,313	1,299	1,322	1,327	1,303	1,302	1,337	1,333	1,328	1,326	1,349	1,3
Type pro	ogramme		T6-PL	AN CE	NTRALI	LY CON	NECTE	D RAE	DIATOR												

52 T6-PLAN CENTRALLY CONNECTED RADIATOR Temperature pairings 70/55/20° C and 55/45/20° C

0/55/	20° C			Side pa	nels and	d top co	ver of ⁻	Γ6-PLAI	N Centra	ally conr	nected r	adiator	s are tal	cen into	conside	eration	in the pe	erforma	nce data	a	
0/00/	20 0	Radi	iator po	wer da	ta in wa	atts, in a	accorda	nce wi	th DIN	EN 442	supp	ly tem	perature	70 - re	eturn te	mpera	ture 55	- room	temper	ature 2	10° C
1	Height [mm]		30	00			40	00			50	00			60	00			90	00	
< >	Туре	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM
Length [mm]	Power																				
400	Watt	172	252	346	506	213	318	431	626	253	380	490	690	273	421	537	779	386	570	722	1017
520	Watt	224	328	450	658	277	414	560	814	329	494	638	898	355	548	698	1012	502	742	939	1322
600	Watt	258	379	520	759	319	478	646	939	380	570	736	1036	410	632	806	1168	580	856	1084	1525
720	Watt	310	454	624	911	383	573	775	1127	456	684	883	1243	492	758	967	1402	696	1027	1300	1830
800	Watt	344	505	693	1012	426	637	862	1252	506	760	981	1381	546	842	1074	1558	773	1141	1445	2034
920	Watt	396	581	797	1164	489	732	991	1440	582	874	1128	1588	628	969	1236	1791	889	1312	1662	2339
1000	Watt	430	631	866	1265	532	796	1077	1565	633	950	1226	1726	683	1053	1343	1947	966	1426	1806	2542
1120	Watt	482	707	970	1417	596	892	1206	1753	709	1064	1373	1933	765	1179	1504	2181	1082	1597	2023	2847
1200	Watt	516	757	1039	1518	638	955	1292	1878	760	1140	1471	2071	820	1264	1612	2336	1159	1711	2167	3050
1320	Watt	568	833	1143	1670	702	1051	1422	2066	836	1254	1618	2278	902	1390	1773	2570	1275	1882	2384	3355
1400	Watt	602	883	1212	1771	745	1114	1508	2191	886	1330	1716	2416	956	1474	1880	2726	1352	1996	2528	3559
1600	Watt	688	1010	1386	2024	851	1274	1723	2504	1013	1520	1962	2762	1093	1685	2149	3115	1546	2282	2890	4067
1800	Watt	774	1136	1559	2277	958	1433	1939	2817	1139	1710	2207	3107	1229	1895	2417	3505	1739	2567	3251	4576
2000	Watt	860	1262	1732	2530	1064	1592	2154	3130	1266	1900	2452	3452	1366	2106	2686	3894	1932	2852	3612	
2200	Watt	946	1388	1905	2783	1170	1751	2369	3443	1393	2090	2697	3797	1503	2317	2955	4283				
2400	Watt	1032	1514	2078	3036	1277	1910	2585		1519	2280	2942		1639	2527	3223					
2600	Watt			2252	3289			2800		1646	2470	3188		1776	2738	3492					
2800	Watt			2425	3542			3016			2660	3433			2948	3760					
3000	Watt			2598	3795			3231			2850	3678			3159	4029					
Radiatorex	kponent n	1,311	1,328	1,308	1,314	1,321	1,327	1,328	1,342	1,313	1,299	1,322	1,327	1,303	1,302	1,337	1,333	1,328	1,326	1,349	1,336
Type pro	gramme		T6-PL	AN CE	NTRALI	LY CON	NECTE	D RAD	DIATOR												
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	ilabilit								s in acc	ordance	e with t	he prod	uction	orogran	nme. as	stated	in the p	rice list		

		Kaui	ator po	wer da	ta in wa	atts, in a	accorda	nce wi	th DIN	EN 442	supp	ny tem	perature	9 33 - re	eturn te	mpera	ture 45	- room	temper	ature 2	.U C
	Height [mm]		30	00			40	00			50	00			60	00			90	00	
< >	Туре	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PI
.ength mm]	Power																				
400	Watt	109	159	220	320	134	201	271	392	160	242	310	435	174	268	337	490	244	359	452	638
520	Watt	141	206	285	417	175	261	353	510	209	314	402	565	226	348	438	636	317	467	587	830
600	Watt	163	238	329	481	202	301	407	588	241	362	464	652	260	401	506	734	365	539	677	958
720	Watt	196	286	395	577	242	361	488	706	289	435	557	783	312	482	607	881	438	647	813	114
800	Watt	218	318	439	641	269	402	542	784	321	483	619	870	347	535	674	979	487	718	903	127
920	Watt	250	365	505	737	309	462	624	902	369	556	712	1000	399	615	776	1126	560	826	1039	146
1000	Watt	272	397	549	801	336	502	678	980	401	604	774	1087	434	669	843	1224	609	898	1129	159
1120	Watt	305	445	615	897	376	562	759	1098	449	676	867	1217	486	749	944	1371	682	1006	1264	178
1200	Watt	326	476	659	961	403	602	814	1176	481	725	929	1304	521	803	1012	1469	731	1078	1355	191
1320	Watt	359	524	725	1057	444	663	895	1294	529	797	1022	1435	573	883	1113	1616	804	1185	1490	210
1400	Watt	381	556	769	1121	470	703	949	1372	561	846	1084	1522	608	937	1180	1714	853	1257	1581	223
1600	Watt	435	635	878	1282	538	803	1085	1568	642	966	1238	1739	694	1070	1349	1958	974	1437	1806	255
1800	Watt	490	715	988	1442	605	904	1220	1764	722	1087	1393	1957	781	1204	1517	2203	1096	1616	2032	287
2000	Watt	544	794	1098	1602	672	1004	1356	1960	802	1208	1548	2174	868	1338	1686	2448	1218	1796	2258	
2200	Watt	598	873	1208	1762	739	1104	1492	2156	882	1329	1703	2391	955	1472	1855	2693				
2400	Watt	653	953	1318	1922	806	1205	1627		962	1450	1858		1042	1606	2023					
2600	Watt			1427	2083			1763		1043	1570	2012		1128	1739	2192					
2800	Watt			1537	2243			1898			1691	2167			1873	2360					
3000	Watt			1647	2403			2034			1812	2322			2007	2529					
Radiatore	exponent n	1,311	1,328	1,308	1,314	1,321	1,327	1,328	1,342	1,313	1,299	1,322	1,327	1,303	1,302	1,337	1,333	1,328	1,326	1,349	1,3
Type	ogramme		T4 DI	AN CE	NTRALI	V CON	NECTE	D D A F	NATOR												

T6-PLAN CENTRALLY CONNECTED RADIATOR 53 Temperature pairings 45/40/20° C and weights

5/40/	20° C				nels and					•											
		Radi	ator po	wer da	ita in wa	itts, in a	accorda	ince wi	th DIN	EN 442	supp	ly tem	peratur	e 45 - re	eturn te	mpera	ture 40	- room	temper	ature 2	50° C
1	Height [mm]		30	00			40	00			50	00			60	00			90	00	
< >	Туре	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 P
Length [mm]	Power																				
400	Watt	75	108	151	220	92	137	185	266	110	166	212	297	119	184	230	334	166	246	306	43
520	Watt	97	141	196	285	120	178	241	346	143	216	275	386	155	239	298	434	216	319	398	56
600	Watt	112	163	226	329	138	206	278	400	165	250	317	445	179	276	344	500	249	368	460	65
720	Watt	135	195	271	395	166	247	333	480	198	300	381	534	215	331	413	600	299	442	552	78
800	Watt	150	217	302	439	184	274	370	533	220	333	423	594	238	368	459	667	332	491	613	87
920	Watt	172	249	347	505	212	316	426	613	253	383	487	683	274	423	528	767	382	565	705	100
1000	Watt	187	271	377	549	230	343	463	666	275	416	529	742	298	460	574	834	415	614	766	108
1120	Watt	209	304	422	615	258	384	519	746	308	466	592	831	334	515	643	934	465	688	858	121
1200	Watt	224	325	452	659	276	412	556	799	330	499	635	890	358	552	689	1001	498	737	919	130
1320	Watt	247	358	498	725	304	453	611	879	363	549	698	979	393	607	758	1101	548	810	1011	143
1400	Watt	262	379	528	769	322	480	648	932	385	582	741	1039	417	644	804	1168	581	860	1072	152
1600	Watt	299	434	603	878	368	549	741	1066	440	666	846	1187	477	736	918	1334	664	982	1226	173
1800	Watt	337	488	679	988	414	617	833	1199	495	749	952	1336	536	828	1033	1501	747	1105	1379	195
2000	Watt	374	542	754	1098	460	686	926	1332	550	832	1058	1484	596	920	1148	1668	830	1228	1532	
2200	Watt	411	596	829	1208	506	755	1019	1465	605	915	1164	1632	656	1012	1263	1835				
2400	Watt	449	650	905	1318	552	823	1111		660	998	1270		715	1104	1378					
2600	Watt			980	1427			1204		715	1082	1375		775	1196	1492					
2800	Watt			1056	1537			1296			1165	1481			1288	1607					
3000	Watt			1131	1647			1389			1248	1587			1380	1722					
Radiatorex	kponent n	1,311	1,328	1,308	1,314	1,321	1,327	1,328	1,342	1,313	1,299	1,322	1,327	1,303	1,302	1,337	1,333	1,328	1,326	1,349	1,3
Type pro	gramme		T6-PL	AN CE	NTRALI	Y CON	NECTE	D RAD	IATOR												
-,, ,	•	ailabilit	v of any	type o	of radiat	or. as w	ell as r	ange of	sizes, i	s in acc	ordance	with t	he prod	luction	nrogran	nme. as	stated	in the p	rice lis	t.	

T6-PL	.AN					W	eight	in kg	of T6-	PLAN	CENT	RALL	Y CON	NECT	ED RA	DIAT	ORs				
↑	Height [mm]		30	00			40	00			50	00			60	00			90	00	
(+)	Туре	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PM	11 PM	21PM-S	22 PM	33 PN
Length [mm]	Weight																				
400	kg	6,81	8,89	10,08	14,07	8,59	11,29	13,01	18,25	9,79	13,22	14,98	20,98	10,93	15,07	16,87	23,59	15,38	21,83	24,47	34,3
520	kg	8,28	11,01	12,56	17,62	10,58	14,14	16,40	23,10	12,10	16,61	18,92	26,60	13,56	18,99	21,33	29,94	19,31	27,72	31,20	43,9
600	kg	9,27	12,43	14,22	19,98	11,90	16,04	18,67	26,34	13,64	18,88	21,54	30,34	15,31	21,61	24,31	34,17	21,93	31,64	35,68	50,3
720	kg	10,75	14,55	16,71	23,53	13,88	18,89	22,06	31,20	15,95	22,28	25,49	35,96	17,93	25,53	28,77	40,52	25,86	37,53	42,40	59,8
800	kg	11,73	15,97	18,36	25,89	15,21	20,79	24,32	34,43	17,49	24,54	28,11	39,71	19,69	28,14	31,75	44,75	28,48	41,46	46,88	66,2
920	kg	13,20	18,16	20,93	29,57	17,19	23,70	27,80	39,42	19,80	28,00	32,14	45,46	22,31	32,12	36,30	51,23	32,40	47,41	53,69	75,9
1000	kg	14,19	19,57	22,59	31,94	18,51	25,60	30,06	42,66	21,34	30,27	34,77	49,21	24,06	34,74	39,28	55,47	35,03	51,34	58,17	82,3
1120	kg	15,66	21,69	25,07	35,49	20,50	28,45	33,46	47,52	23,66	33,66	38,71	54,83	26,69	38,66	43,74	61,81	38,95	57,23	64,90	91,89
1200	kg	16,65	23,11	26,73	37,85	21,82	30,35	35,72	50,75	25,20	35,93	41,33	58,57	28,44	41,27	46,72	66,04	41,57	61,16	69,38	98,2
1320	kg	18,37	25,23	29,21	41,40	24,11	33,20	39,11	55,61	27,81	39,32	45,27	64,19	31,37	45,19	51,18	72,39	45,81	67,04	76,10	107,8
1400	kg	19,36	26,71	30,95	43,90	25,43	35,17	41,46	58,98	29,35	41,65	47,99	68,07	33,12	47,87	54,24	76,76	48,43	71,04	80,67	114,3
1600	kg	21,82	30,25	35,09	49,81	28,74	39,92	47,12	67,08	33,20	47,32	54,56	77,44	37,50	54,40	61,68	87,34	54,97	80,85	91,87	130,2
1800	kg	24,28	33,96	39,42	55,96	32,05	44,84	52,97	75,41	37,06	53,15	61,32	87,04	41,88	61,10	69,31	98,15	61,52	90,84	103,27	146,4
2000	kg	26,74	37,50	43,56	61,87	35,35	49,59	58,62	83,50	40,91	58,81	67,88	96,41	46,26	67,64	76,75	108,73	68,07	100,65	114,47	
2200	kg	29,20	41,04	47,70	67,78	38,66	54,34	64,28	91,59	44,76	64,47	74,45	105,77	50,64	74,17	84,19	119,31				
2400	kg	32,16	44,58	51,84	73,69	42,58	59,09	69,93		49,22	70,13	81,02		55,62	80,70	91,63					
2600	kg			55,98	79,60			75,59		53,08	75,79	87,59		60,00	87,24	99,07					
2800	kg			60,12	85,51			81,25			81,45	94,16			93,77	106,51					
3000	kg			64,26	91,42			86,90			87,11	100,72			100,30	113,95					
Type pro	gramme		T6-PLA	N CEN	TRALLY	CONNE	CTED R	ADIATO	OR												

Flat radiators are triple-packed

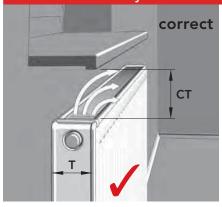
GENERAL TECHNICAL INFORMATION

The packaging is done such that it does not need to be removed during the installation and the connection. The packaging will not be removed until the flat's occupation. That will keep the product pristine, right through to the hand over.

Installation of wrapped radiators, and run of a test heating up to t, 40°C possible.

- 1. Cardboard packaging
- 2. Edge protection
- 3. Shrink foil

Installation under your window and in your alcove





Optimum performance can only be guaranteed, if the air circulation is not restricted. This means that above and below the radiator there must be enough clearance. The clearance above the radiator is usually calculated according to the formula: radiator width + 10 %.

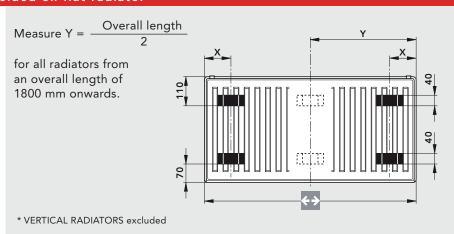
Clearance top $CT = W \times 1,1$

In case this value cannot be maintained, because of constructional constraints, performance will be lower.

Water volume in litre/m of flat	radiator						
Overall height [mm]	300	400	500	554	600	900	954
Radiator type							
10, 11 K, 11 KV, 11 VM, 11 PM	2,0	2,6	3,3	-	3,7	5,1	-
21 K-S, 21 KV-S, 21 VM-S, 21 PM-S	3,9	5,0	6,1	6,7	7,1	10,2	
22 K, 22 KV, 22 VM, 22 PM	3,9	5,0	6,1	6,7	7,1	10,2	11,3
33 K, 33 KV, 33 VM, 33 PM	6,0	7,6	9,4	10,2	10,8	15,6	-

Image of how the brackets are welded on flat radiator*

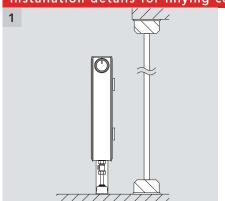
Radiator type	Measure X [mm]
10, 11 K, 11 KV, 11 VM, 11 PM	100
21 K-S, 21 KV-S, 21 VM-S, 21 PM-S	93
22 K, 22 KV, 22 VM, 22 PM	100
33 K, 33 KV, 33 VM, 33 PM	100

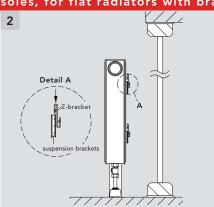


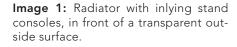
PLAN RADIATED HEAT-REFLECTOR



Installation details for inlying consoles, for flat radiators with brackets

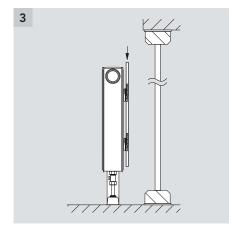








Note: If the length of the radiator is 2000, 2400 or 2800 mm, the Z-brackets must be installed as much as possible in the middle.



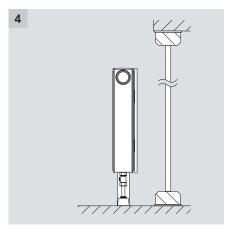


Image 3: Align PLAN RADIATED HEAT-REFLECTOR according to the radiator length; put it into position right over the Z-brackets and push it down.

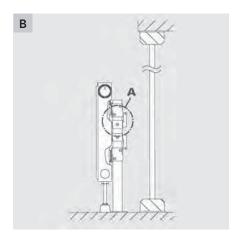
Image 4: Radiator with installed PLAN RADIATED HEAT-REFLECTOR.

Due to production reasons there are drill holes at the flat that must face the ground during the installation.

Installation details for outlying stand consoles, for radiators with brackets

For installing the outlying stand consoles only use - independently from the type of heating surface - mounting brackets with the order number AZ0MS000F0001000 for fixation, including the necessary accessories for installing the PLAN RADIATED-HEAT REFLECTOR (image B, detail A).

Symbol representations on radiators on 400 mm and more in length

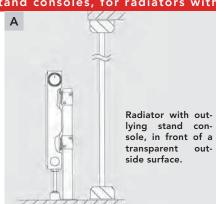


С

Install U-shaped clamp (available as accessory) on the stand console, using the brackets.

Note:

From a radiator length of 1800 mm onwards, also the fixing devices on top have to be installed centrally on the stand console brackets.



Symbol representations on all radiator heights

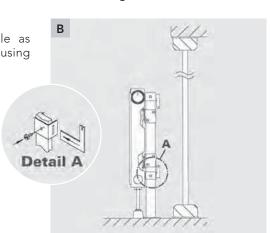


Image C:

Put the PLAN RADIATED HEAT-REFLEC-TOR into the fixing devices on top, aligning it up according to the radiator length. (Attention: The drill holes at the flat must face the ground). Make sure that the PLAN RADIATED HEAT-REFLEC-TOR is aligned in the height according to the top edge of the radiator. Then install the PLAN RADIATED HEAT-REFLECTOR above the suspension brackets using the fixing devices at the bottom.

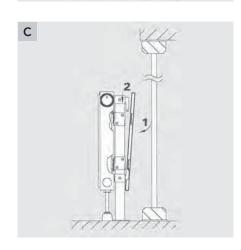
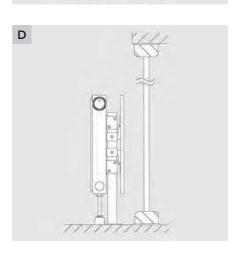
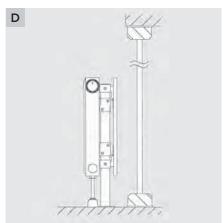


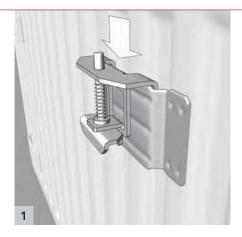
Image D:

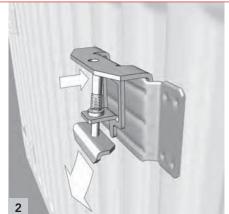
Radiator with installed PLAN RADIA-TED HEAT REFLECTOR.





RAPID-INSTALLATION CONSOLE





Snap-on device with integrated connection and displacement locking devices.

the flexible RAPID-INSTALLATION CONSOLE, done by one man

The RAPID-INSTALLATION CONSOLE (suitable for all radiators with wall brackets that are welded onto the back, except the UPGRADE RADIATORS and the VERTICAL RADIATORS) make possible a simple, fast and secure installation of the radiator, which is still wrapped. The console is suitable for all radiator types, no matter which overall height.

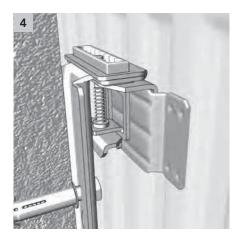
The fact that the RAPID INSTALLATION CONSOLE is equipped with integrated connection and displacement locking devices makes this product outstanding in terms of security. The installation of the T6-CENTRALLY CONNECTED RA-DIATORS and the T6-PLAN CENTRALLY CONNECTED RADIATORS with the RA-PID INSTALLATION CONSOLES is even simpler by using the installation templates.

The RAPID-INSTALLATION SET consists of: 2 consoles with noise control, 2 snap-on devices, 2 mounting screws with dowels and snap rings

Wall rail for OL 300	Overall height [mm]	Measure W [mm]	Measure X [mm]	Wall rail for OL 400 - 900
	300	175	125	radiator top edge
radiator top edge	400	271		× ×
	500	371	129	
	600	471	127	
<u></u> ≥	900	771		
radiator 6	The RAPID INST complies(regardin the requirements	g the physica	I load) with	radiator lower edge



Connection - wall cleara	nce			
Radiator type	Overall height [mm]	Measure Y [mm]	Measure Z [mm] *	Y
10	300 - 900	38	-	
11 K, 11 KV, 11 VM, 11 PM	300 - 900	50	50 **	
21 K-S, 21 KV-S, 21 VM-S, 21 PM-S	300 - 900	74	66	
22 K, 22 KV, 22 VM, 22 PM	300 - 900	86	66	Z
33 K, 33 KV, 33 VM, 33 PM	300 - 900	86	66	



- Only applies to T6-CENTRALLY CONNECTED RADIATORS
- With a special angle-fishplate, a consistent wall distance of 66 mm is possible also for type 11 VM.

FASTENING SET SPECIAL ANGLE-**FISHPLATE**

For surface mounting, consisting of:

- 2 angle-fishplates with sound-absorbing filter
- 2 hexagon head wood screws and
- 2 dowels.



For surface mounting, consisting of:

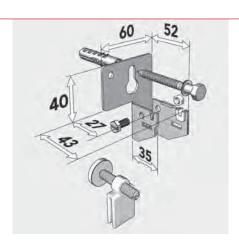
- 2 angle-fishplates with sound-absorbing filter
- 2 spacers,
- 2 hexagon head wood screws and
- 2 dowels.

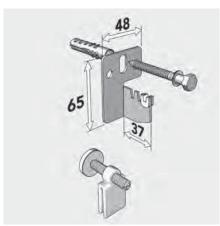
Wall clearance: between finished wall and radiator mounting link = 14, 24 to 34 mm

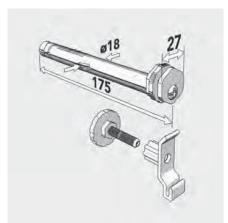
DRILL CONSOLE SET

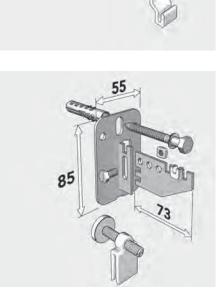
length: 160 mm consisting of: 2 drill consoles and

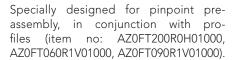
2 spacers







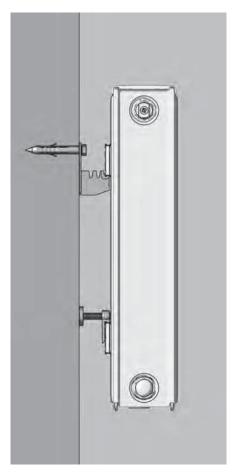




With 11 VM and 11 PM models, wall clearance can be adjusted for multi-layered T6 radiators, in cases where pre-assembly on the assembly bracket was multilayered at the position.

Wall clearance:

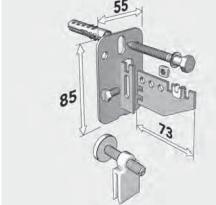
Between finished wall and T6 radiator mounting link = 27 mm to 43 mm



FASTENING SET FOR ALL-PURPOSE ANGLE-FISHPLATE

For finished as well as unfinished wall surfaces, consisting of:

- 2 adjustable angle-fishplates with sound-absorbing filter
- 2 hexagon head wood screws with dowels and
- 2 spacers.



Wall clearance: Between finished wall and radiator mounting link = 11, 20, 30, 46, 56 and

Installation tem	plate				
lmage	Order- number	Article description	COMPACT	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR
	AZ0FT000B1001000	Mounting bracket set external thread G 3/4" for installation on finished wall surfaces: suitable for right-hand, left-hand and central connections, consisting of mounting bracket including connection bow, 2 hexagon head wood screws, 8 x 70-ST DIN 571 galvanised apiece, dowels 10 x 60, washers A 8, 4-ST DIN 125 galvanised, cap pieces G 1/2" - DIN ISO 228, adapter 1/2 - 3/4"		•	•
	AZ0FT000B0001000	Mounting bracket set external thread G 3/4" for installation on unfinished wall surfaces: consisting of mounting bracket including connection bow, 1 specially designed drill console, 2 cap pieces G 1/2" DIN ISO 228, apiece, adapter 1/2 - 3/4"		•	•
	AZ0MT00040001000	Specially designed drill hole for mounting brackets for unfinished wall surfaces: spare part		•	•
200	AZ0MT000A0001000	Adapter panel: as a socket for the mounting rail; vertically for connection on the side or in the centre, in combination with the mounting bracket for unfinished wall surfaces.		•	•
	AZ0MT000C0001000	Cap piece G 1/2" DIN ISO 228 (spare part for mounting bracket set)		•	•
	AZ0MT000E3001000	Flushing device: without any small parts		•	•
	AZ0MT000E2001000	Hollow hexagon wrench: for flushing device		•	•
	AZ0MT000E1001000	Setscrew: for flushing device		•	•

Installation temp	plate				
lmage	Order- number	Article description	COMPACT	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR
	AZ0FT000R0001000	Set of mounting rails, hot-dip galvanised for centre connection consisting of: Horizontal mounting rail, overall length 400 – 2000 mm Vertical mounting rail, overall height 300 – 600 mm Vertical mounting rail, overall height 900 mm for Monclac, Vonomat and drill consoles Individual components in mounting rail set for centre connection, hot-dip galvanised		•	•
11/11/1	AZ0FT200R0H01000 AZ0FT060R0V01000 AZ0FT090R0V01000	Horizontal mounting rail, overall length 400 – 2000 mm Vertical mounting rail, overall height 300 – 600 mm Vertical mounting rail, overall height 900 mm		•	•
MI.		Individual components in mounting rail set for centre connection, in conjunction with the special corner connecting plate AZ0BU00012002000			
	AZ0FT200R0H01000	Horizontal mounting rail, hot-dip galvanised overall length 400 – 2000 mm		•	•
	AZ0FT060R1V01000	Vertical mounting rail, yellow zinc plated overall height 300 – 600 mm		•	•
	AZ0FT090R1V01000	Vertical mounting rail, yellow zinc plated overall height 900 mm		•	•
	AZ0FT132R0H01000	Riser assembly template for VOGEL & NOOT T6 radiators overall length 400 – 1320 mm		•	•
	AZ0FT240R0H01000	Extension spacer overall length 1400 – 2400 mm for riser assembly template (Please note: packing unit 1 item)		•	•
	AZ0FT300R0H01000	Extension spacer overall length 1400 – 3000 mm for riser assembly template (Please note: packing unit 1 item)		•	•
	AZ0MT000M0001000	Riser fastening clamp (only in conjunction with our riser assembly template), necessary when more than 2 risers are required for each radiator (from overall length of 1800 mm) (Please note: packing unit 1 item)		•	•

Wall fastening s	ystems				
lmage	Order- number	Article description	COMPACT	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR
	AZ0BW030V0002000 AZ0BW040V0002000 AZ0BW050V0002000 AZ0BW060V0002000 AZ0BW090V0002000	Wall console: consisting of 2 or 3* wall consoles (galvanised) with sound-absorbing filters and integrated connection and displacement locking device, 2 or 3* balancer holders, 2 or 3* serrated lock washers, screws and dowels, a shrink-wrapped assembly instruction. wall console set 300 (set of 2) wall console set 400 (set of 2) wall console set 500 (set of 2) wall console set 600 (set of 2)) wall console set 900 (set of 2) *set of 3: from OL 1800 mm onwards	•	:	•
	AZ0BW030V0003000 AZ0BW040V0003000 AZ0BW050V0003000 AZ0BW060V0003000 AZ0BW090V0003000	wall console set 300 (set of 3) wall console set 400 (set of 3) wall console set 500 (set of 3) wall console set 600 (set of 3) wall console set 900 (set of 3)	•	•	•
	AZ0BU00012002000	Fastening set special angle-fishplate: applicable for type and 11 PM to achieve a consistent wall clearance of 66 mm, for surface mounting, consisting of 2 angle-fishplates with sound-absorbing filter, 2 spacers, 2 hexagon head wood screws, and 2 dowels.		•	٠
	AZ0BU00010002000	Fastening set angle-fishplate: for surface mounting, consisting of 2 angle-fishplates with sound-absorbing filter, 2 spacers, 2 hexagon head wood screws, and 2 dowels.	٠	•	•
	AZ0BU00040002000	Drill console set: length: 160 mm, consisting of 2 drill consoles and 2 spacers	•	•	•
	AZ0BU00030002000	Fastening set for all-purpose angle-fishplate: (finished as well as unfinished wall surfaces), consisting of 2 adjustable angle-fishplates with sound-absorbing filter, 2 hexagon head wood screws with dowels, and 2 spacers.	٠	•	•

Floor fastening	systems				
lmage	Order- number	Article description	COMPACT	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR
	AZ0BS000F0001000 AZ0BS000R0001000	Stand console SK 20 (for finished floor): Stand console (for unfinished floor) stand console for all single-layered and multilayered heating surfaces, with convector plate, for all heights up to 900 mm, soundproof, with integrated connection locking device.	:	:	:
	AZ0MS000A0001000	Extension adapter for SK20 unfinished floors for special floor constructions Effective extension: 104 mm	•	•	•
	AZ0MS000C0001000	Standpipe cladding: for standpipe (subsequent installation possible)	•	•	•
0	AZ0MS000C2001000	covering surround ASK 11: made of plastics	•	•	•
	AZ0MS000C1001000	Covering surround made of plastic K14-2: to cover up standpipe "35x15 mm"	•	•	•
	AZ0MS000F0001000	Stand console SK 21: stand console for all single-layered flat radiators, from an overall height of 900 mm onwards, and as fastening of outlying installation of stand console (for Plan radiated heat-reflector). The fastening set consists of 1 base plate and 2 clamps.	٠	•	•
	AZ0MS000C5001000	Cover for SK21 riser suitable for retrofitting	•	•	•
	AZ0MS030P0001000 AZ0MS050P0001000 AZ0MS060P0001000 AZ0MS090P0001000	Standpipe for installation in connection with stand console SK 21: Overall height 300 Overall height 400 or 500 Overall height 600 Overall height 900	•	•	•
	AZ0BS000F1002000 AZ0BS000R1002000	Riser set (finished floor) Riser set (unfinished floor) for model 20 radiators, facing inwards	•	•	•
	AZ0BS000F2002000 AZ0BS000R2002000	Riser set (finished floor) Riser set (unfinished floor) for model 30 radiators, facing inwards		•	•

For installation					
Image	Order- number	Article description	COMPACT RADIATOR	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR
00	AZ0PL000C0002000	Screw cap G 3/4 with 0-ring seal, nickel plated brass		•	•
0	AZ0PL000B0001000	Dummy plug G 1/2 with O-ring, nickel plated brass	•	•	•
3==	AZ0PL000V1001000	Special vent plug G 1/2 pivotable, with O-ring, nickel plated brass		•	•
9	AZ0PL000V0001000	Vent plug G 1/2 pivotable, with O-ring, nickel plated brass	•		
	AZ0PL000R0001000	Reducer G1/2 - G3/8 with O-ring, nickel plated brass	•	•	•
9	AZ0PL000D0001000	Drain plug G 1/2 (pressure tight), nickel plated brass with a cap made of plastic	•	•	•
6.0	AZ0PL000D1001000	Drain tube suitable for drain plug Nr. FSW2020ZF	•	•	•
星	AZ0MM000K0001000	Drain device made of plastic	•	•	•
	AZ0SC010C0002000 AZ0SC012C0002000 AZ0SC014C0002000 AZ0SC015C0002000 AZ0SC016C0002000 AZ0SC018C0002000	Clamping screw for Cu steel pipe - 10 mm for Cu steel pipe - 12 mm for Cu steel pipe - 14 mm for Cu steel pipe - 15 mm for Cu steel pipe - 16 mm for Cu steel pipe - 18 mm		•	•
	AZ0CB010C0002000 AZ0CB012C0002000 AZ0CB014C0002000 AZ0CB015C0002000 AZ0CB016C0002000 AZ0CB018C0002000	Supporting collar for Cu steel pipe - 10 mm for Cu steel pipe - 12 mm for Cu steel pipe - 14 mm for Cu steel pipe - 15 mm for Cu steel pipe - 16 mm for Cu steel pipe - 18 mm		•	•
	AZ0SC012P0002000 AZ0SC013P0002000 AZ0SC014P0002000 AZ0SC016P0002000 AZ0SC016P1002000 AZ0SC017P0002000 AZ0SC018P0002000 AZ0SC018P1002000 AZ0SC021P0002000 AZ0SC021P0002000 AZ0SC021P1002000	Clamping screw for plastic pipe 12x2 mm for plastic pipe 13x2,5 mm for plastic pipe 14x2 mm for plastic pipe 16x2 mm for plastic pipe 16x3 mm for plastic pipe 17x2 mm for plastic pipe 18x2 mm for plastic pipe 18x2,5 mm for plastic pipe 20x2 mm for plastic pipe 21x2 mm for plastic pipe 21x2,5 mm		•	•

Note: In double-pipe operation, valve radiators can also be connected by means of through shaped or angular shaped standard radiator bolting.

For installation					
lmage	Order- number	Article description	COMPACT	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR
VL ↑ RL VL VL RL RL	AZ0FW00GG10010T0	Four-way manifold, with spacing 40-50-40 mm, nickel plated, (Fflow, Rreturn).		•	•
	AZ0MV000C0001000	Ball valve cover for 4-way connection		•	•
	FBROTHETWITECGAR9016 FBROTHETWITECGASCHRO	TWINTEC control fittings – the intelligent connecting element between radiators and underfloor heating with cover in RAL 9016 traffic white with chrome cover		•	:
90	FBROTHETWITECAA0	2 adapter nipples including 2 flat gaskets (in combination with TWINTEC control fittings)		•	•
	AZ0SB00GG00020T0	Single ball valve, internal thread G 3/4 external thread G 3/4 pressure tight), through-shaped, suitable for clip bolting.		•	•
= 3 − 3	AZ0SB00GG00020A0	Single ball valve, internal thread G 3/4 external thread G 3/4 (pressure tight), angular-shaped, suitable for clip bolting.		•	•
	AZ0SB00VG00020T0	Single ball valve, internal thread G 3/4 - G 1/2 (pressure tight), through-shaped, suitable for 1/2" steel pipes.		•	•
4-5	AZ0SB00VG00020A0	Single ball valve, internal thread G 3/4 - G 1/2 (pressure tight), angular shaped, suitable for 1/2" steel pipes.		•	•
	AZ0TP00GG00010T0	Two-pipe cock piece, internal thread G 3/4 (pressure tight), through-shaped, suitable for clip bolting.		•	•
<u> </u>	AZ0TP00GG00010A0	Two-pipe cock piece, internal thread G 3/4 (pressure tight), angular shaped, suitable for clip bolting.		•	•
	AZ0SP00GG00010T0	Single-pipe manifold, internal thread G 3/4 - external thread G 3/4 (pressure tight), through-shaped, suitable for clip bolting.		•	•
	AZ0SP00GG00010A0	Single-pipe manifold, internal thread G 3/4 - external thread G 3/4 (pressure tight), angular shaped, suitable for clip bolting.		•	•
00	AZ0MV000C2001000 AZ0MV000C200100SCHRO	Designer cover rosette for twin-pipe valve block Shaped to fit corner, 50 mm centre distance white chrome		•	•
tol.	AZ0MV000C2101000 AZ0MV000C210100SCHRO	Designer cover rosette for twin-pipe valve block Shaped to fit duct, 50 mm centre distance white chrome		•	•

Installation					
Abbildung	Artikel-Nr.	Artikelbezeichnung	COMPACT	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR
	AZ0CP00GG00010T0	Cross piece, internal thread G 3/4 - external thread G 3/4 possible to be closed, pipe distance 50 mm, suitable for interchanged supply and return port.		•	•
22	AZ1-D9VN-KRST001	Cross piece, internal thread G 3/4 angular shaped, possible to be closed, pipe distance 50 mm, suitable for interchanged supply and return port.		•	•
Toman 2	AZ0MV000E0001000	Replacement adaptor 1/2" I.G. + A.G. to balance out different radiator separation distances, extendable, average separation distance 35 - 70 mm		•	•
000	AZ0MM100A0001000	Upgrade adapter, as replacement for radiators with a hub distance of 1000 mm; for range of adjustment, see page 37.	٠	•	•
	AZ0MM090A0001000	Upgrade adapter, as replacement for radiators with a hub distance of 200, 300, 500 or 900 mm; for range of adjustment, see page 37.	•	•	•
3 40	AZ0MV000A1002000	Adapter piece G 1/2 A.G. – G 3/4 A.G. (self-sealing) for direct connection of copper pipes, precision steel pipes and plastic pipes			
	AZ0MV000A0002000	Adapter piece G 1/2 A.G. – G 1/2 I.G. (self-sealing) for direct connection of ½" steel pipes			
	AZ0MV000C1001000	Cover rosette Two-part wall rosette for pipes with diameter from 10 – 22 mm white - pipe separation distance 50 mm		•	•
	AZ0MV000C1101000	Flat cover rosette Two-part wall rosette for pipes with diameter from 10 – 22 mm white - pipe separation distance 50 mm		•	•

For installation					
lmage	Order- number	Article description	COMPACT	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR
	AZ0HE000H1001000	Manual control port, with default setting		•	•
	AZ1HE000T0001000	Danfoss RAS-D thermostat head RAL 9016 traffic white		•	•
Po	AZ1HE000T000100SCHRO	Danfoss RAS-D thermostat head Chrome		•	•
	AZ0MV000K0001000	Plastic conical component for flat-sealing shut-off screw joints in conjunction with Eurokonus G 3/4 A.G.		•	•

For valve radiat	ors with k _v element				
lmage	Order- number	Article description	COMPACT	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR
	AZ0VE00AD0001000 AZ0VE00AD1001000	Valve elements - series 3 (fixing thread G 1/2) Danfoss / type 013G0360 for standard volume flow Danfoss / type 013G0361 for small volume flow, (district heating - with a big difference between water supply and return temperature).		•	•

Plan radiated heat-reflectors							
lmage	Order- number	Article description	COMPACT	T6-CENTRALLY CONNECTED RADIATOR	T6-PLAN CENTRALLY CONNECTED RADIATOR		
FEAT	AZ0MS000S0002000	Installation accessories for Plan radiated heat-reflectors with outlying stand console The parts for fixation are: 2 pieces of U-shaped stirrups and 2 pieces of right-angle brackets. Fixing accessory: U-shaped stirrup with mounting bolt Fixing accessory: right-angle bracket	•	•	•		
3443	AZ0MS000S3004000	Installation accessories for Plan radiated heat-reflector with inlying stand console The parts for fixation are: 4 pieces of connections and 4 pieces of Z-brackets; only suitable for type 11, compact design.		•	•		

The conversion factors in the table state to which extent the heat emission has to be altered under other operating conditions, compared to the following standard-design data:

supply temperature t₂ 65 °C t_r 20 °C return temperature room temperature

Because an average exponent of 1.3 has been used for both the calculation of the performance data and the specification of the conversion factor, a slight performance variation from the calculated value is possible.

The standard heat emission $\Phi_{\mathbf{s}}$ of a radiator covering the required heat $\Phi_{ exttt{HLI}}$ at the chosen operating conditions, is calculated according to the formula:

$$\Phi_{s} = \Phi_{HL,i} \times f$$

= standard heat emission, in accordance with EN 442

= required heat, in accordance with EN 12831

= conversion factor from the table

Example:

The required heat of a room is 1000 W, in accordance with EN 12831. Design data:

t₁ 50 °C t₂ 40 °C t₇ 20 °C

Factor \mathbf{f} according to the table = 2,50

supply tempe- ratur	return tempe- ratur		r	oom te	empera	ture °(:	
°C	°C	12	15	18	20	22	24	26
90	80	0,61	0,64	0,68	0,71	0,74	0,77	0,81
	70	0,67	0,72	0,76	0,80	0,83	0,87	0,91
80	70	0,74	0,79	0,84	0,88	0,93	0,97	1,03
	60	0,83	0,89	0,96	1,01	1,07	1,13	1,20
	50	0,96	1,04	1,13	1,20	1,28	1,37	1,47
75	65	0,82	0,88	0,95	1,00	1,05	1,12	1,18
	60	0,88	0,94	1,02	1,08	1,14	1,21	1,29
	55	0,94	1,01	1,10	1,17	1,24	1,32	1,42
70	65	0,87	0,94	1,01	1,07	1,13	1,19	1,27
	60	0,93	1,00	1,08	1,15	1,22	1,30	1,39
	55	0,99	1,08	1,17	1,25	1,33	1,42	1,53
	50	1,07	1,17	1,28	1,37	1,47	1,58	1,71
65	60	0,98	1,07	1,16	1,23	1,31	1,40	1,50
	55	1,05	1,15	1,26	1,34	1,43	1,54	1,66
	50	1,14	1,25	1,37	1,47	1,59	1,71	1,86
	45	1,24	1,37	1,52	1,64	1,78	1,94	2,13
60	55	1,13	1,23	1,36	1,45	1,56	1,68	1,82
	50	1,22	1,34	1,48	1,60	1,73	1,87	2,05
	45	1,33	1,47	1,65	1,78	1,94	2,13	2,36
	40	1,47	1,64	1,86	2,03	2,24	2,50	2,80
55	50	1,31	1,45	1,62	1,75	1,90	2,07	2,28
	45	1,43	1,60	1,80	1,96	2,15	2,37	2,64
	40	1,59	1,78	2,03	2,24	2,48	2,78	3,15
	35	1,78	2,03	2,36	2,64	2,99	3,43	4,02
50	45	1,56	1,75	1,98	2,17	2,40	2,67	3,00
	40	1,73	1,96	2,25	2,50	2,79	3,15	3,61
	35	1,94	2,24	2,63	2,96	3,38	3,92	4,64
	30	2,24	2,64	3,20	3,70	4,39	5,39	6,99
45	40	1,90	2,17	2,53	2,83	3,19	3,66	4,25
	35	2,15	2,50	2,96	3,37	3,89	4,58	5,52

 $\Phi_{s} = \Phi_{HI}$, x f = 1000 Watt x 2,50 = 2500 Watt

A radiator has to be installed that emits 2500 W under the standard- design (75/65/20).

Exact method for the performance calculation

Using the formula $\Phi = \Phi_s \left[\frac{\Delta T}{\Delta T_s} \right]^n$

any performance differing from the standard can be calculated.

Radiator power [W]

Standard radiator power in Φ_{ς} accordance with EN 442 [W]

 $\Delta T =$ Arithmetic radiator excess temperature [K]

 ΔT_s = Arithmetic radiator excess temperature 50 K, at a standard state of 75 °C / 65 °C / 20 °C

Radiator exponent

Please note: if the condition

$$c = \frac{t_2 - t_r}{t_1 - t_r} < 0.7$$

is met, the excess temperatures will be specified logarithmically.

$$\Delta T_{\text{arithmetic}} = \frac{t_1 + t_2}{2} - tr$$

$$\Delta T_{\text{logarithmic}} = \frac{t_1 - t_2}{\ln \frac{t_1 - t_r}{t_2 - t_r}}$$

Use our radiator power calculator on www.vogelundnoot.com

Item Number **Descriptions**

T6-CENTRALLY CONNECTED RADIATOR

Made of cold-rolled sheet steel, in accordance with EN 442-1; , with a stylish and robust fluting with ribs at 40 mm intervals; undercoating in accordance with DIN 55900 part 1, stoved at 190° C; finished with electrostatic powder coating, in accordance with DIN 55900 part 2, in standard colour 9016; stoved at an object temperature

Equipment

Fitted with an integrated T-valve set; designed for double-pipe and single-pipe systems with a single-pipe manifold; factory-installed built-in valve with pre-set k,-value adjusted to heat output; if needed, adjustable in the range 0.13 to 0.72. With single-pipe systems, the radiator proportion can be set from 30% to 50%. All models are fitted with a protective cap for the built-in valve, welded suspension brackets on the back, a removable top cover and two closed side panels, a drain plug, a pivoting special vent plug and a dummy plug, all of them sealed; the cover system complies with the former BAGUV regulations.

Complete pre-installation fitting is possible using the fitting templates (external thread 3/4"); flush and hydrostatic test using the flush device (accessory); also suitable for connection as a compact radiator (one-sided or twosided); standardised wall clearance for all multi-layer radiators (with a special angle-fishplate also for single-layer radiators); disassembling and assembling of the top cover by means of decor-clips. Verification of heat emission in accordance with EN 442; constant monitoring of production process in accordance with EN-ISO 9001; triplepacked (cardboard packaging, edge protection, shrink foil). Suitable for manual operation as well as thermostat operation. Connection possibilities for copper, steel, plastics or alloy pipes.

Connection

4 x internal thread G 1/2" and 2 x external thread G 3/4", at bottom centre. Thermostatic valve (factory-sealed at top right) subsequently convertible to the left, without having to turn the radiator and without crossing supply and return.

MULTIFUNCTIONAL VALVE RADIATOR with brackets

Material & Surface

Made of cold-rolled sheet steel, in accordance with EN 442-1; a robust and stylish fluting with ribs at 40 mm intervals; undercoating in accordance with DIN 55900 part 1, stoved at 190° C; the finish is an electrostatic powder coating, in accordance with DIN 55900 part 2, in standard colour 9016; stoving at an object temperature of 210° C.

Equipment

Fitted with an integrated valve set; designed for double-pipe and single-pipe systems with a single-pipe manifold; factory-installed built-in valve with pre-set kv-value adjusted to heat output; if needed, adjustable in the range 0.13 to 0.75. With single-pipe systems, the radiator proportion can be set from 30% to 50%. All models are fitted with a protective cap for the built-in valve, welded suspension brackets on the back, a removable top cover and two closed side panels, a drain plug, a pivoting vent plug and a dummy plug, all of them sealed; the cover system complies with the former BAGUV regulations.

Assembly

Pre-installation fitting is possible, using the fitting template - 3/4" (accessory), disassembling and assembling of the top cover by means of decor-clips (in standard colour 9016); quality and performance verification in accordance with EN 442; permanent monitoring of production process in accordance with EN-ISO 9001; triplepacked (cardboard packaging, edge protection, shrink foil); suitable for manual or thermostatic control; connection of pipes made of copper, steel, plastic or alloy is possible.

Connection

4 x internal thread G 1/2" and 2 x external thread G 3/4", bottom right (at special order at bottom left)

Type:	Wattage:
Overall height:	Number of items:
Overall length:	

Item Number **Descriptions**

COMPACT FLAT RADIATOR

Material & Surface

Made of cold-rolled sheet steel, in accordance with EN 442-1; a robust and stylish fluting, with ribs at 40 mm intervals; undercoating in accordance with DIN 55900 part 1, stoved at 190° C; finished with an electrostatic powder coating, in accordance with DIN 55900 part 2, in standard colour 9016; stoved at an object temperature of 210° C.

Equipped with wall brackets that are welded onto the back, and with a detachable top cover and two closed side panels (types 11 K, 21 K-S, 22 K and 33 K); the covering is in accordance with the former BAGUV regulations.

Disassembling and assembling of the top cover by means of decor-clips (in standard colour 9016); performance verification in accordance with EN 442; constant monitoring of production processes in accordance with EN-ISO 9001; triple-packed (cardboard packaging, edge protection, shrink foil).

4 x internal thread G 1/2"

HYGIENE COMPACT RADIATOR

Material & Surface

Made of cold-rolled sheet steel, in accordance with EN 442-1; a robust and stylish fluting, with ribs at 40 mm intervals; undercoating in accordance with DIN 55900 part 1, stoved at 190° C; finished with an electrostatic powder coating, in accordance with DIN 55900 part 2, in standard colour 9016; stoved at an object temperature of 210 $^{\circ}$ C.

Equipped with wall brackets that are welded onto the back, performance verification in accordance with EN 442; constant monitoring of production processes in accordance with EN-ISO 9001; triple-packed (cardboard packaging, edge protection, shrink foil).

Connection

4 x internal thread G 1/2"

T6-HYGIENE CENTRE-CONNECTION RADIATOR

Material & Surface

Made of cold-rolled sheet steel, in accordance with EN 442-1; , with a stylish and robust fluting with ribs at 40 mm intervals; undercoating in accordance with DIN 55900 part 1, stoved at 190° C; finished with electrostatic powder coating, in accordance with DIN 55900 part 2, in standard colour 9016; stoved at an object temperature of 210° C.

Equipment

Fitted with an integrated T-valve set; designed for double-pipe and single-pipe systems with a single-pipe manifold; factory-installed built-in valve with pre-set k, value adjusted to heat output; if needed, adjustable in the range 0.13 to 0.72. With single-pipe systems, the radiator proportion can be set from 30% to 50%. All models are fitted with a protective cap for the built-in valve, welded suspension brackets on the back, a drain plug, a pivoting special vent plug and a dummy plug, all of them sealed.

Complete pre-installation fitting is possible using the fitting templates (external thread 3/4"); flush and hydrostatic test using the flush device (accessory); also suitable for connection as a compact radiator (one-sided or twosided); standardised wall clearance for all multi-layer radiators (with a special angle-fishplate also for single-layer radiators). Verification of heat emission in accordance with EN 442; constant monitoring of production process in accordance with EN-ISO 9001; triple-packed (cardboard packaging, edge protection, shrink foil). Suitable for manual operation as well as thermostat operation. Connection possibilities for copper, steel, plastics or alloy pipes.

Connection

4 x internal thread G 1/2" and 2 x external thread G 3/4", at bottom centre. Thermostatic valve (factory-sealed at top right) subsequently convertible to the left, without having to turn the radiator and without crossing supply and return.

Type:	Wattage:
Overall height:	Number of items:
Overall length:	

Item Number **Descriptions UPGRADE RADIATOR** Material & Surface Made of cold-rolled sheet steel, in accordance with EN 442-1, with a stylish and robust fluting with ribs at 40 mm intervals; undercoating in accordance with DIN 55900 part 1, stoved at 190° C; finished with an electrostatic powder coating, in accordance with DIN 55900 part 2, in standard colour 9016; stoved at an object temperature of . 210° C. Equipped with wall brackets that are welded onto the back, and with a detachable top cover and two closed side panels (for types 21 K-S, 22 K and 33 K); the covering complies with the former BAGUV regulations. Assembly Disassembling and assembling of the top cover by means of decor-clips (in standard colour 9016); verification of heat emission in accordance with EN 442; permanent monitoring of production process in accordance with EN-ISO 9001; a fit-up aid, made of cardboard, is added; triple-packed (cardboard packaging, edge protection, shrink foil). Connection 4 x internal thread G 1/2" **VERTICAL RADIATOR** Material & Surface Made of cold-rolled sheet steel, in accordance with EN 442-1, with a stylish and robust fluting with ribs at 40 mm intervals; undercoating in accordance with DIN 55900 part 1, stoved at 190° C; finished with an electrostatic powder coating, in accordance with DIN 55900 part 2, in standard colour 9016; stoved at an object temperature of 210° C. Equipment Equipped with wall brackets that are welded onto the back and two side grilles (20 K), performance verification in accordance with EN 442; constant monitoring of production processes in accordance with EN-ISO 9001; triplepacked (cardboard packaging, edge protection, shrink foil). Connection 4 x internal thread G 1/2" **T6-PLAN CENTRALLY CONNECTED RADIATOR** Made of cold-rolled sheet steel, in accordance with EN 442-1; galvanised front panel (1mm thick); undercoating in accordance with DIN 55900 part 1, stoved at 190° C; fini-shed with electrostatic powder coating, in accordance with DIN 55900 part 2, in standard colour 9016; stoved at an object temperature of 210° C. Equipment Fitted with an integrated T-valve set; designed for double-pipe and single-pipe systems with a single-pipe manifold; factory-installed built-in valve with pre-set kv-value adjusted to heat output; if needed, adjustable in the range 0.13 to 0.72. With single-pipe systems, the radiator proportion can be set from 30% to 50%. All models are fitted with a protective cap for the built-in valve, welded suspension brackets on the back, a removable top cover and two closed side panels, a drain plug, a pivoting special vent plug and a dummy plug, all of them sealed; the cover system complies with the former BAGUV regulations. Assembly Complete pre-installation fitting is possible using the fitting templates (external thread 3/4"); flush and hydrostatic test using the flush device (accessory); also suitable for connection as a compact radiator (one-sided or two-sided); standardised wall clearance for all multi-layer radiators (with a special angle-fishplate also for single-layer radiators). Verification of heat emission in accordance with EN 442; constant monitoring of production process in accordance with EN-ISO 9001; triple-packed (cardboard packaging, edge protection, shrink foil); suitable for manual operation as well as thermostat operation. Connection possibilities for copper, steel, plastic or alloy pipes. 4 x internal thread G 1/2" and 2 x external thread G 3/4", at bottom centre. Thermostatic valve (factory-sealed at top right) subsequently convertible to the left, without having to turn the radiator and without crossing of supply and return

Type:	Wattage:
Overall height:	Number of items:
Overall length:	



Additional charge for colours (except RAL 9016):

+ 30% Standard colours: Sanitary-ware colours: + 30% Metallic colours: + 30%

The colours shown here are not binding. Chromatic aberrations are possible due to typographic reasons. Additional colours are available on request!



