

REPLACEMENT  
PROGRAMME.



heating through innovation.



CONTENTS.



-  Cloakroom
-  Living room
-  Kitchen
-  Bathroom
-  Bedroom
-  Playroom
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Our collection of replacement radiators offers the perfect radiator for any living area. The pictograms above serve as orientation aids and will help you to work through this folder.

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## OUR CLAIM.

### 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 heating 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.

### **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.**



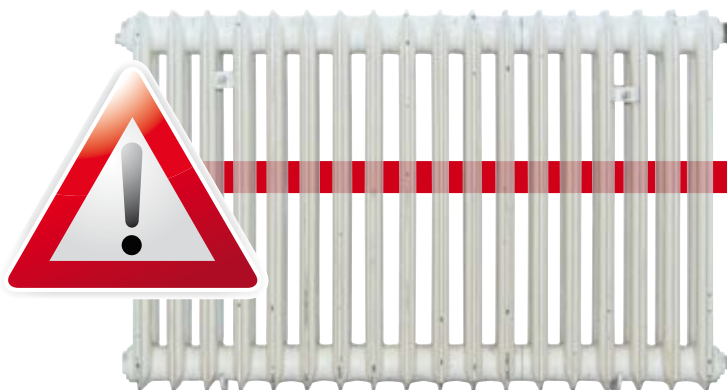
NOW LET'S  
PUT A STOP TO  
CLIMATE CHANGE.

### It's high time!

We, as human beings, have hugely encroached on natural processes as a result of our actions! CO<sub>2</sub> emissions have changed the climate drastically: the polar ice caps are melting, the sea level is rising and some regions of the earth are drying out, whilst others are flood-stricken.

### Our contribution

The operation of inefficient sectional radiators and a heating system that is not coordinated, also damage the environment and cost the user a great deal of money. Therefore, living areas that are equipped with outdated heating systems do not simply cost many billions of euros in unnecessary energy costs across Europe, but also contribute approximately one third of all greenhouse gas emissions.



Out with the OLD ...



WHAT WE CAN DO.

### Replacement solutions

Modern radiators help to slow down the climate change caused by human beings, to preserve the earth's resources and to save energy. It is therefore not only the heat sources that require our attention, but the importance of the heat emission system must also be identified.

#### What it comes down to

The heating system consists of the heat source, the distribution system and the heat emission system through radiators. These three sections have to be coordinated with one another. In order to achieve sustainable renovation, it is best to replace the entire system. The radiator is given a decisive role: if only the heat source is replaced (e.g. the boiler), old sectional radiators hardly offer any more efficiency when it comes to heat emission!

...in with the NEW!





WE HAVE IT IN HAND.



### Systematic renovation

The practical and dirt-free installation of **VOGEL&NOOT** replacement radiators immediately increases the efficiency of heat emission and allows you to reduce your heating costs dramatically. What is more, despite paying significantly less for your heating, you can benefit from a higher level of thermal comfort than with sectional radiators.

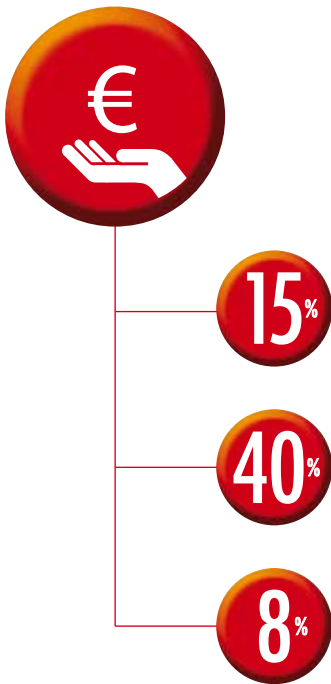
### Simple assembly

The **VOGEL&NOOT** replacement radiators fit all existing connection dimensions.





**ECONOMICALLY  
VIABLE  
HEAT EMISSION.**



### ECO = ECONomic = Savings

There are low tank and distribution losses, due to the low system temperatures, which render it possible to operate **VOGEL&NOOT** panel radiators in an efficient manner.

#### Average savings

when replacing radiators/sectional radiators (with the energy source remaining the same)\*.

#### Maximum saving potential

when replacing radiators/sectional radiators (with the energy source remaining the same and in the case of severe technical obsolescence of the structure of the building)\*.

#### Minimum saving potential

even in the case of renovated buildings and insulated pipes including tank loss, a saving of 8% ensues.\*

### Well worth it!

#### Huge reductions in heating costs

By installing **VOGEL&NOOT** T6 centre-connection radiators or replacement radiators in place of outdated sectional radiators, you can save a great deal of money and also reduce CO<sub>2</sub> emissions. The average potential saving is approximately 15%!

The comparison was made on the basis of an old building with an area of 190 m<sup>2</sup> to be heated (19 rooms, 26 radiators).

	Outdated sectional radiator	Replacement radiator
Standard building heating load	39,6 kW	39,6 kW
Specific heating load	180 W/m <sup>2</sup>	180 W/m <sup>2</sup>
Annual heat required	80.366 kWh/a	80.366 kWh/a
Energy necessary to cover heating requirement	185.872 kWh/a	157.488 kWh/a
Annual oil requirement	18.587 litres	15.748 litres
Annual costs**	11.524 €	9.764 €
<b>Potential annual cost savings</b>		<b>1.760 €</b>
<b>Saving after 10 years</b>		<b>17.600 €</b>
<b>Saving after 20 years</b>		<b>35.200 €</b>

\* According to test results from Pinkafeld University of Applied Sciences

\*\* According to the 2009 Oil Price Index

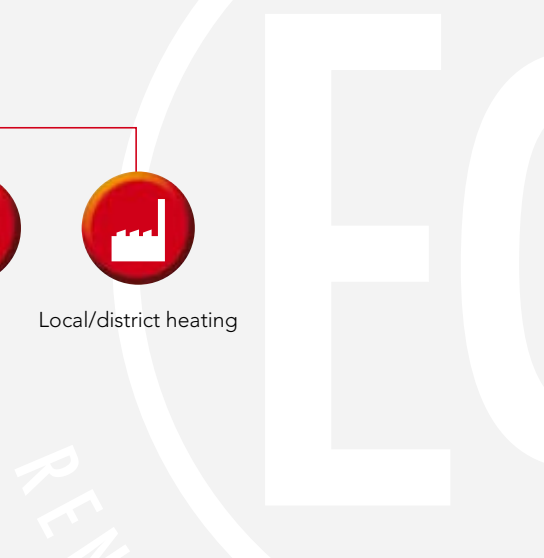
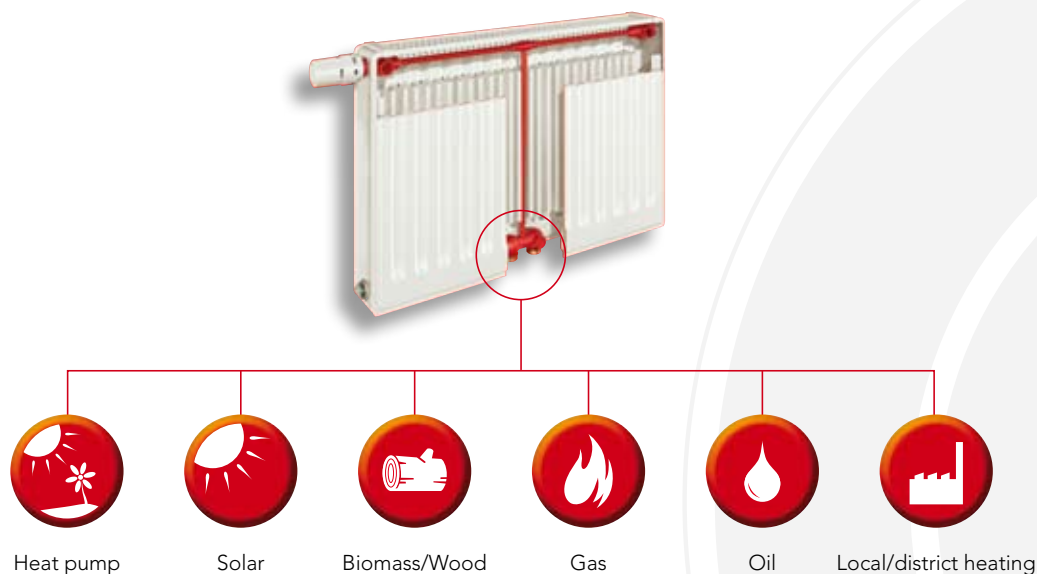


REDUCTION IN THE AMOUNT OF ENERGY USED DUE TO COMPATIBILITY.

### ECO = Renewable Energy COmpatible

The **VOGEL&NOOT** replacement radiators carry the ECO seal of approval, which indicates their compatibility with all renewable energy sources and is therefore proof of the maximum level of flexibility and efficiency in the distribution of heat and also guarantees the highest level of comfort.

Replacement radiators have a very extensive range of flow temperatures, meaning that they are compatible with all energy sources. Whether heat pumps, solar, biomass/wood, local/district heating, oil or gas, the efficient distribution of heat and a high level of comfort are always offered.







### ECO = ECOlogic = CO<sub>2</sub> reduction

The ECO seal of approval for the **VOGEL&NOOT** replacement radiators indicate their compatibility with all (renewable) energy sources and is therefore proof of their economically and ecologically efficient heat emission. The flow temperatures, which range from 35°C to 90°C, enable you to have a flexible choice of heat source.



#### CO<sub>2</sub> reduction

Due to the broad compatibility with heat pumps (low temperature), solar energy (environmentally friendly) and biomass (CO<sub>2</sub>-neutral), **VOGEL&NOOT** panel radiators make a positive contribution to reducing CO<sub>2</sub>.



#### Ecological balance sheet

The operation of **VOGEL&NOOT** replacement radiators with the ECO seal of approval reduces energy consumption and ensures a lasting improvement in the ecological balance sheet when heating a room.



REVOLUTIONARY  
REPLACEMENT.

### The T6: the best choice for renovation projects

In the case of a complete replacement of the heating system from the ground up, we recommend the installation of high-performance **VOGEL&NOOT** T6 panel radiators. These radiators guarantee proven optimum comfort, the most rapid method of heating rooms and the highest level of energy efficiency, due to compatibility with a broad range of flow temperatures.



#### **Innovative technology**

The T6 centre-connection radiator revolutionises not only planning and assembly, but thanks to the patented technology and the special design of the convecter plates, it also provides extremely high heating power. The replacement adapter also enables installation to take place without problems, even in the case of different boss spacings.

### High performance

Professor Michael Graf: "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 a strong heating performance and therefore numbers among the leading models of panel radiator. The special convector plate design of the T6 supplies rooms with evenly distributed warmth rapidly and reliably and ensures the highest level of thermal comfort.

### Optimum values for comfort

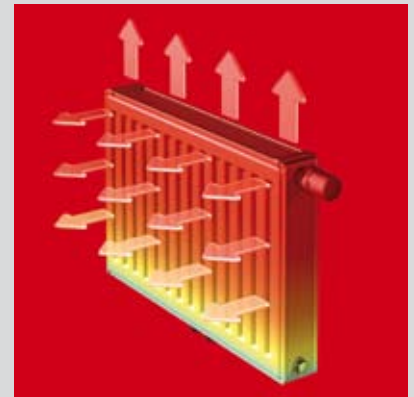
In an independent series of studies carried out at Pinkafeld University of Applied Sciences, the comparative tests showed that the T6 stood out from a range of other European radiator models, offering optimum comfort even at low system temperatures – the low PPD index\*\* is the proof!

### Flexible positioning

The T6 centre-connection radiator enables optimum flexibility – and not only thanks to the ease of installation. A patented pipe guide allows users to choose where to position the thermostat head.

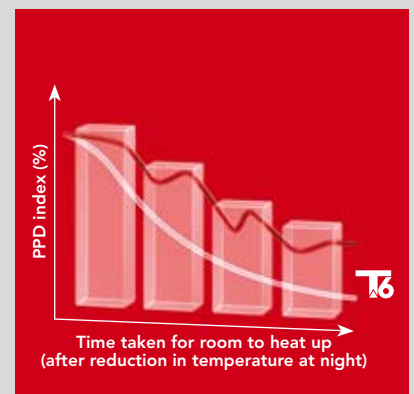
### Pre-set valve cores

Installation is simplified and speeded up by the fact that the valves have been precisely adjusted to the heating power in the factory. This results in less work for the fitter, increased quality of regulation and a more energy-efficient emission of heat.



### High performance and rapid room heating

Outstanding heating performance for the highest level of energy efficiency and the fastest emission of heat.



### Optimum values for comfort

Beautifully warm rooms for comfort and a high quality of life.

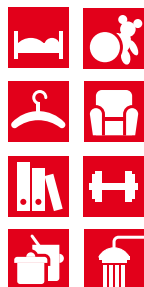


### Flexible positioning

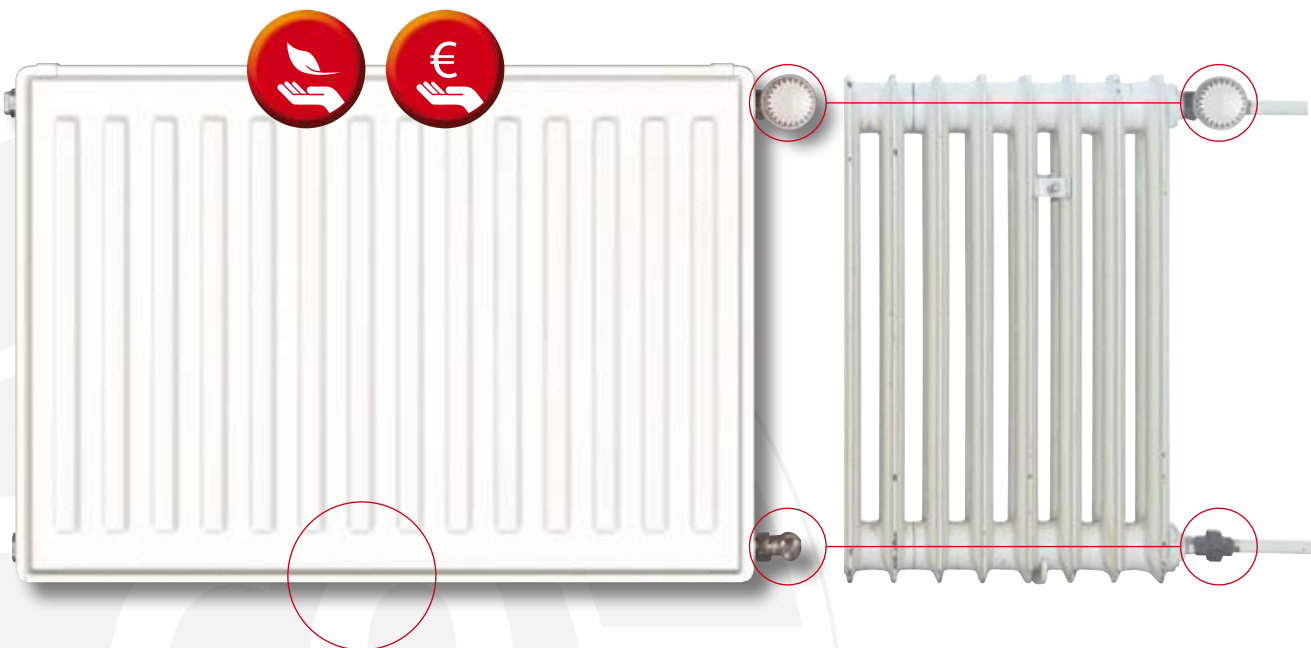
Always be prepared for a new installation.

\* On average, in comparison with old sectional radiators, test results from Pinkafeld University of Applied Sciences  
 \*\* Percentage of those unsatisfied

PANEL  
RADIATORS.



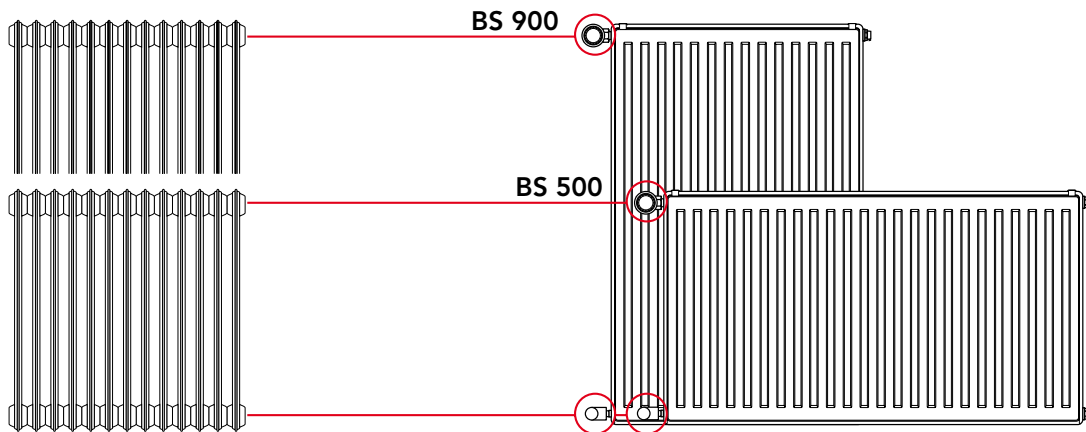
**Replacement radiators** offer precisely the right solution when it comes to replacing outdated sectional radiators simply, quickly and with no mess. The boss spacings are compatible with those of the sectional radiators that have been used in the past.



**The benefit to you:**  
The replacement radiators fit the boss spacings of the old radiators exactly.



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



DIN-sectional radiators					Replacement with panel radiators				
Boss spacing [mm]	Type [mm]	Construction depth [mm]	Construction height [mm]	Heat output [W/running metre] 90/70/20 °C	Type	Construction depth [mm]	Construction height [mm]	Heat output [W/running metre]	
								90/70/20 °C	75/65/20 °C
200	200/250	250	300	1540	33**	166	300	1990	1561
350	350/160	160	450	1480	22	105	400	1737	1357
	350/220	220	450	1980	33	166	400	2479	1936
500	500/110	110	600	1460	21	80	554	1647	1295
	500/160	160	600	1980	22	105	554	2075	1626
	500/220	220	600	2560	33	166	554	2902	2277
900	900/110	110	1000	2440	22	105	954	3018	2362
	900/160	160	1000	3140	22	105	954	3018	2362
	900/220	220	1000	4080	33**	166	900	4123	3221

\*\* Connection with replacement adapter  
 Comment: the examples above serve as guidance.

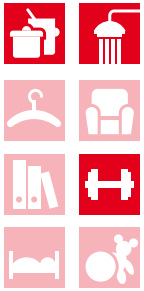
The complete replacement programme can be found on page 21.

\* In the average comparison with old sectional radiators, test results according to Pinkafeld University of Applied Sciences.

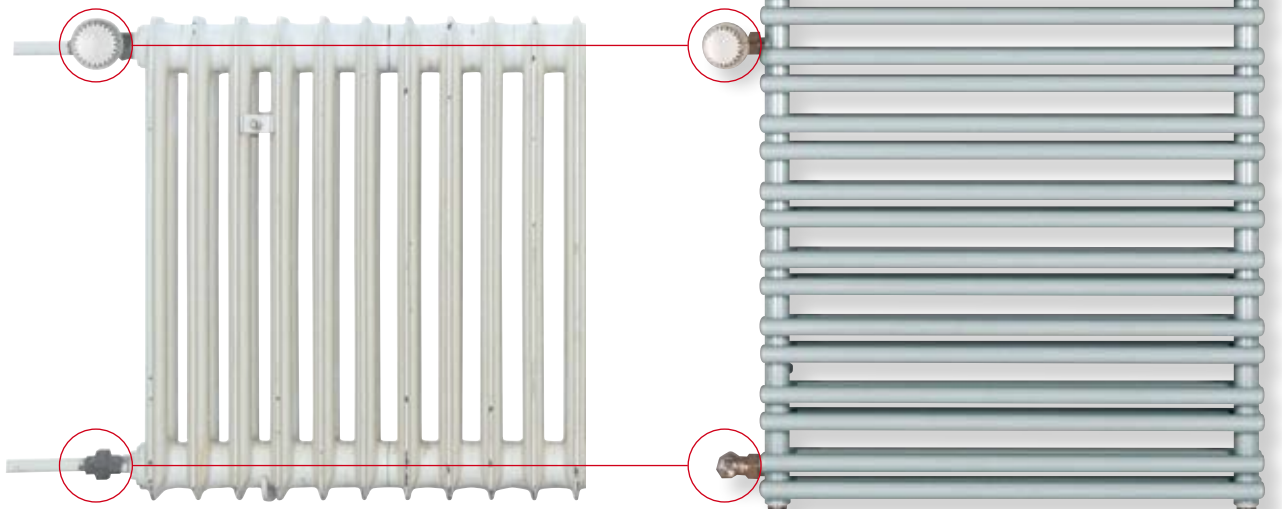


Classic aesthetics and a timeless use of lines are demonstrated in the **VOGEL&NOOT Bawa-T** replacement radiator model. The pipes are positioned in pairs and therefore produce a balanced unit, which helps rooms achieve a restrained ambience.

## BAWA-T DESIGN RADIATORS.



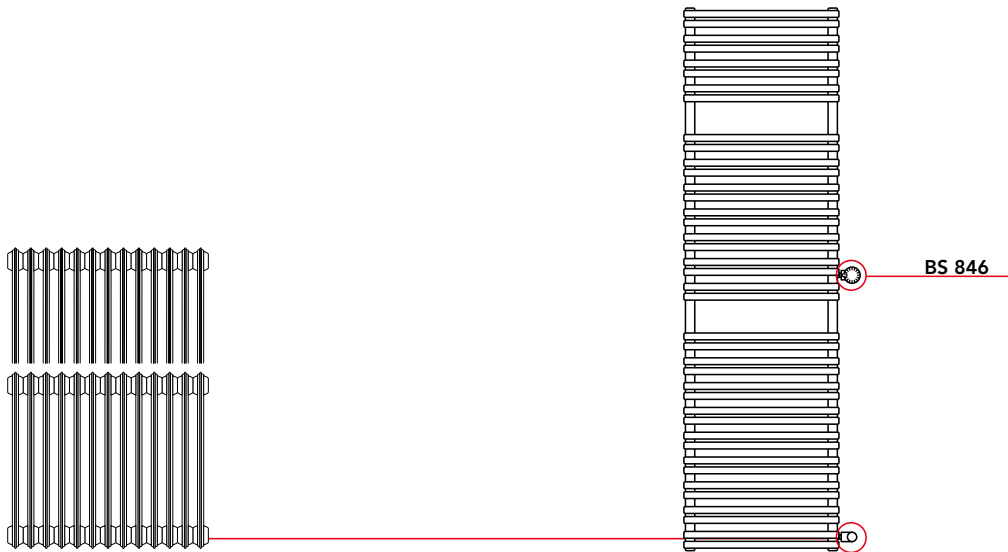
The benefit to you:  
The perfect combination of function and  
aesthetic design.











Ton Kinsbergen/arcaid

- Fits all old connections
- Rapid replacement with no dirt
- Suitable for low temperature systems



DIN sectional radiators				
 Boss spacing [mm]	Type [mm]	 Construction depth [mm]	 Construction height [mm]	Heat output [W/running metre] 90/70/20 °C
500	500/220	220	600	2560
900	900/110	110	1000	2440
900	900/160	160	1754	3140

Comment: the examples above serve as guidance.

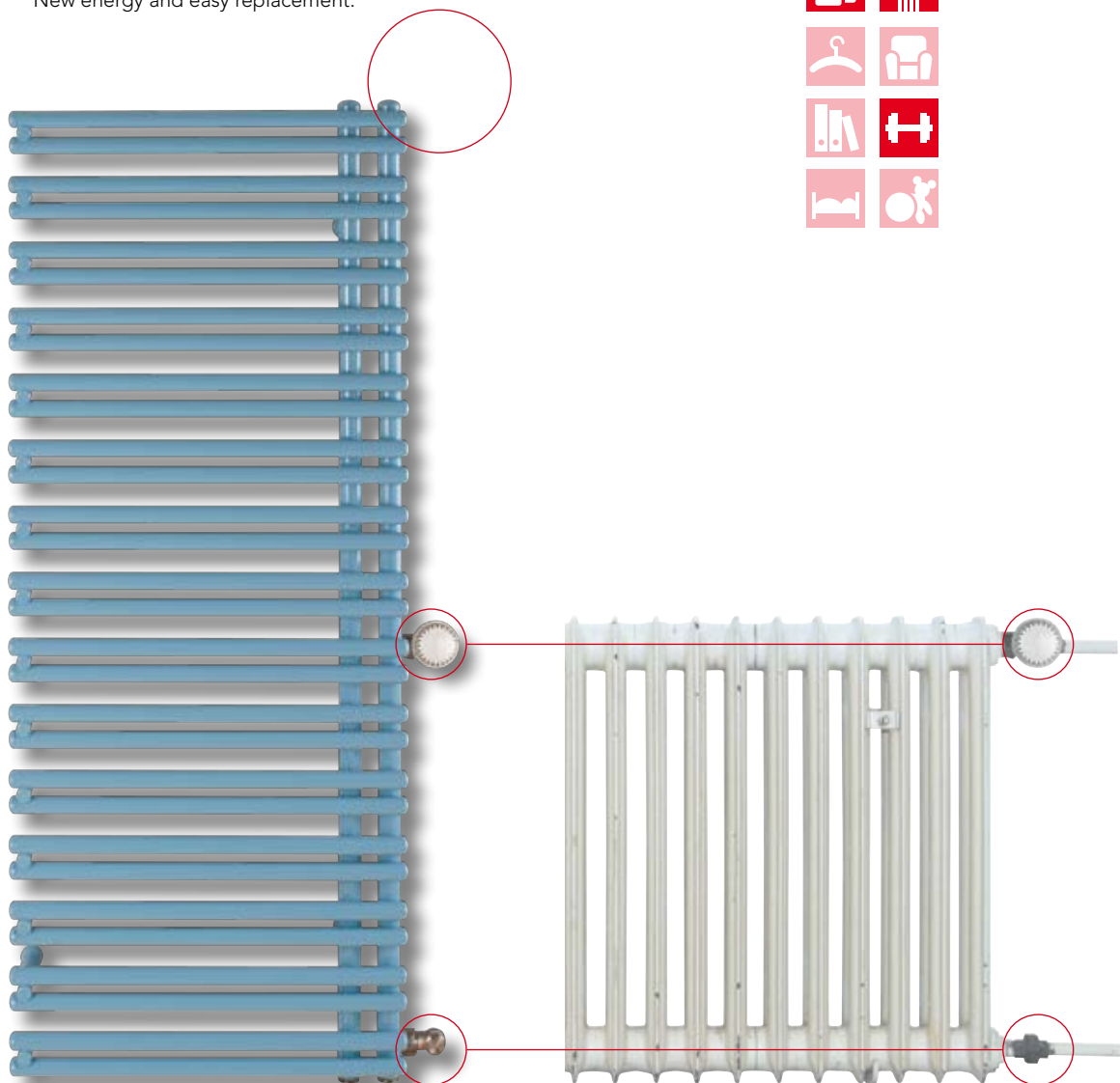
Replacement with design radiators					
New model	 Construction depth [mm]	 Construction length [mm]	 Construction height [mm]	Heat output [W/running metre]	
				90/70/20 °C	75/65/20 °C
BAWA-T	113	600	1754	1844	1466
BAWA-T	113	600	1754	1844	1466
BAWA-T	113	600	1754	1844	1466

The complete replacement programme can be found on page 21.

The **Fatala** model combines finely designed shapes and a high level of functionality. The simple 1:1 replacement functions due to the fact that the **VOGEL&NOOT** replacement radiators have the same boss spacings. A wide selection of all RAL colours and sanitary colours give rooms a fresh burst of energy!

## FATALA DESIGN RADIATORS.

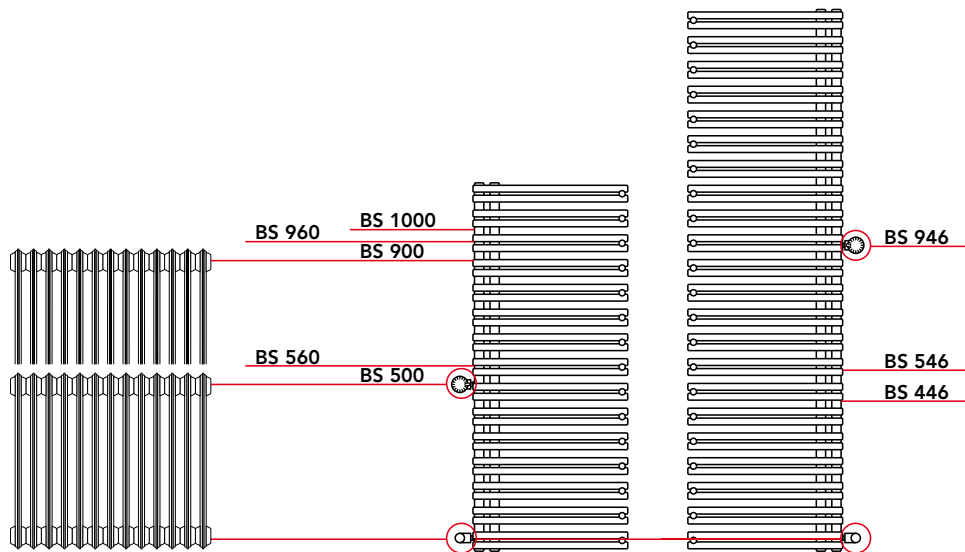
The benefit to you:  
New energy and easy replacement.





Marc Gerritsen/arcaid

- Conforms with existing connection dimensions
- Energy saving due to efficient heat emission
- Also available as a left and right-hand design



DIN sectional radiators				
↕ Boss spacing [mm]	Type [mm]	→ Construction depth [mm]	↕ Construction height [mm]	Heat output [W/running metre] 90/70/20 °C
350	350/160	160	450	1480
500	500/110	110	600	1460

Comment: the examples above serve as guidance.

Replacement with design radiators					
New model	→ Construction depth [mm]	↔ Construction length [mm]	↕ Construction height [mm]	Heat output [W/running metre]	
				90/70/20 °C	75/65/20 °C
FATALA	97	600	1756	1356	1081
FATALA	97	600	1756	1356	1081

The complete replacement programme can be found on page 21.

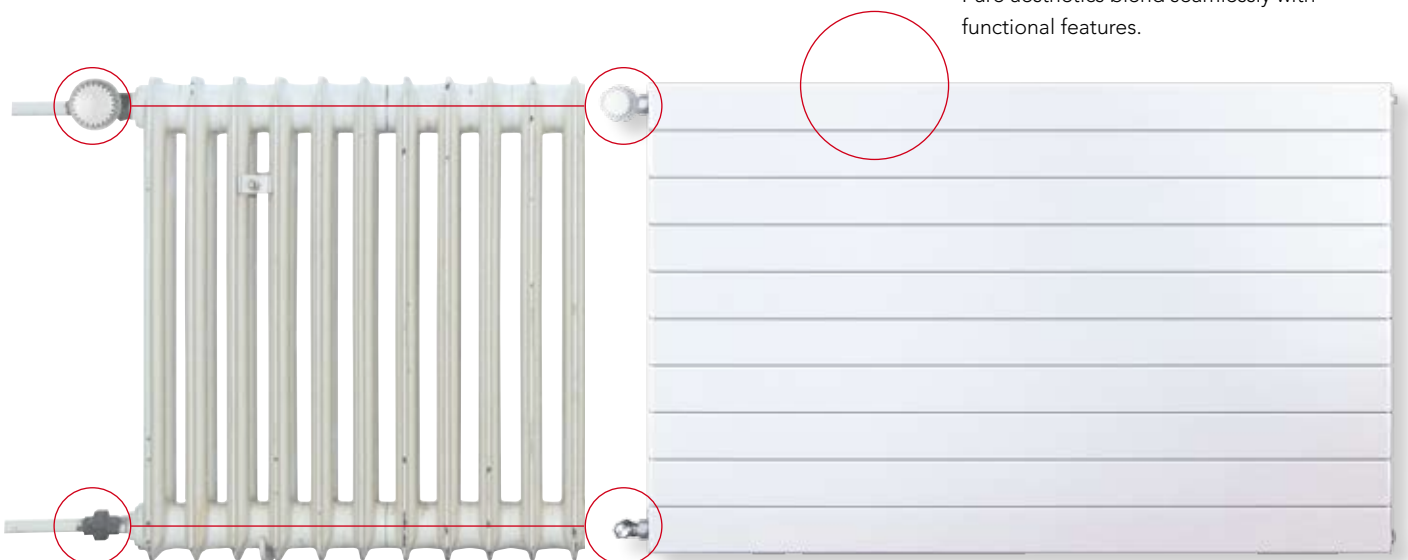


## CONVECTORS & HEATING PANELS.



The **convectors and heating panels** for replacement show that a clear use of form and convincing functionality go hand in hand. They create a good quality ambience with a high level of comfort for your room.

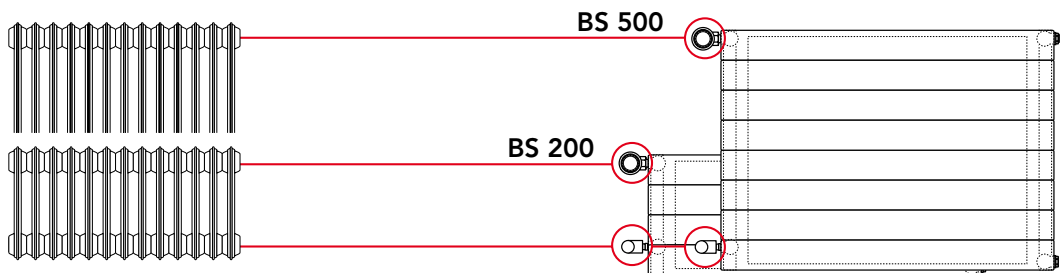
**The benefit to you:**  
Pure aesthetics blend seamlessly with functional features.







- No visible welded connections
- High-quality finish
- Rapid assembly brackets make the installation process more simple
- Very high level of heat output.



DIN-Gliederradiatoren				
Boss spacing [mm]	Type [mm]	Construction depth [mm]	Construction height [mm]	Heat output [W/running metre] 90/70/20 °C
200	200/250	250	300	1540
500	500/110	110	600	1460
500	500/160	160	600	1980

Replacement with convectors and heating panels				
New model	Construction depth [mm]	Construction height [mm]	Heat output [W/running metre]	
			90/70/20 °C	75/65/20 °C
KK 34	175	286	2216	1723
KH 22	93	574	2045	1592
KH 22	93	574	2045	1592

Comment: the examples above serve as guidance.

The complete replacement programme can be found on page 21.

REPLACEMENT  
ADAPTER.



Ton Kinsbergen/arcaid

**VOGEL&NOOT** even has a solution for boss spacings which are not deemed to be standard specification: Any correction in spacings can be made in a flash and without problems using the **replacement adapter** for panel radiators.



**The benefit to you:**  
Old spacings or spacings which are not deemed to be standard specification are adapted simply and quickly.

- Flexible combination with boss spacing & construction height
- Specifically for 200, 300, 500, 900 and 1000 mm spacings
- No renovation work or special orders required

REPLACEMENT OVERVIEW.

Replacement with panel radiators	
<b>All old DIN sectional radiators with</b>	<b>Replacement panel radiators</b>
BS 500 mm (CD = 110 mm and 160 mm)	CH 554 mm, BS 500 mm Types 21, 22, 33
BS 900 mm (CD = 110 mm and 160 mm)	CH 954 mm, BS 900 mm Types 22



Replacement with replacement adapter	
<b>All old DIN sectional radiators with</b>	<b>Panel radiators with replacement adapter</b>
BS = 200/300/500/600/900/1000 mm	Replacement adapter for <b>compact radiators</b> and <b>T6 centre-connection radiators</b>



Replacement with design radiators	
<b>All old DIN sectional radiators and panel radiators</b>	<b>BAWA, BAWA TWIN and FATALA</b>
from BS 446 mm to 1000 mm	CH = 1200 mm and 1800 mm, CH = 500 mm, 600 mm, 750 mm, BS 500 mm, 900 mm, 1000 mm and BS 446 mm, 546 mm, 846 mm, 946 mm as well as 560 mm and 960 mm



Replacement with convectors and heating panels	
<b>All old DIN sectional radiators with</b>	<b>Replacement panel radiators</b>
BS 200 mm	Type 34 CH = 286 mm, BS = 200 mm
BS 500 mm	Type 22 CH = 574 mm, BS = 500 mm
Panel radiator CH = 300 mm, BS 246 mm, Type 22 and 33	Type 34 CH = 286 mm, BS = 246 mm further specific solutions on request!



BS = boss spacing, CH = construction height, CD = construction depth, CH = construction length

## SANITARY COLOURS.

Aegean VNF 6901	Capri VNF 5901	Greenwich VNF 6904	Calypso VNF 6902	Edelweiss VNF 9901	Alba VNF 9902	Pergamon VNF 1904	Jasmine VNF 1903	Natura VNF 1905
Anemone VNF 1901	Bahama beige VNF 1902	Banana VNF 1907	Flannel VNF 7905	Manhattan VNF 7902	Chincilla VNF 7901	Magnolia VNF 3901	Stella VNF 7903	Sunset VNF 3902
Crocus VNF 6903	Key West VNF 5902	Aloa VNF 5903						

## RAL COLOURS.

Beige RAL 1001	Golden yellow RAL 1004	Oyster white RAL 1013	Light ivory RAL 1015	Traffic yellow RAL 1023	Pastel yellow RAL 1034	Flame red RAL 3000	Ruby red RAL 3003	Wine red RAL 3005
Black red RAL 3007	Beige red RAL 3012	Raspberry red RAL 3027	Purple violet RAL 4007	Ultramarine blue RAL 5002	Sapphire blue RAL 5003	Signal blue RAL 5005	Steel blue RAL 5011	Pigeon blue RAL 5014
Distant blue RAL 5023	Pastel blue RAL 5024	Moss green RAL 6005	Pastel green RAL 6019	Mint green RAL 6029	Silver grey RAL 7001	Slate grey RAL 7015	Anthracite grey RAL 7016	Graphite grey RAL 7024
Stone grey RAL 7030	Light grey RAL 7035	Dusty grey RAL 7037	Window grey RAL 7040	Telegrey RAL 7047	Chocolate brown RAL 8017	Cream RAL 9001	Grey white RAL 9002	Pure white RAL 9010
Traffic white RAL 9016	Jet black RAL 9005	Traffic black RAL 9017	Cocoa RAL 050 40 20	Terracotta RAL 050 60 30	Cappuccino RAL 060 60 20			

## METALLIC COLOURS.

Pearl night blue RAL 5026	Pearl opal green RAL 6036	Pearl beige RAL 1035	Pearl gold RAL 1036	Pearl orange RAL 2013	Grey aluminium RAL 9007	White aluminium RAL 9006	Stainless steel look VNF 7906
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The colours shown here are not binding. Colours may differ due to printing technology.  
Further colours available on request!

## PRODUCT DESCRIPTION & SCOPE OF DELIVERY.

**VOGEL&NOOT** replacement radiators are high-quality brand products that excel in all areas due to their wide range of connection options. For your specific use, you can select from the following designs, which are all supplied in protective packaging ready for assembly:

### Panel radiators

Available in a compact design. Delivery includes the upper cover and closed sides.

### Design radiator

Delivery with classic connection including wall-mounting set in the same colour as the respective radiator.

### Kontec

Delivery ready for connection with 2 x ½" IG connectors including sides. Horizontal designs with upper covers.

### Replacement adapters

Makes installation easier in the case of boss spacings which are not deemed to be of standard specification.

### Operating conditions

A maximum operating temperature of 110°C has been determined for all models of replacement radiators.

### Surface treatment

High-quality, environmentally friendly double-layer paint in accordance with DIN 55900, completely painted and branded with an electrostatic powder coating.



### Brand products of certified quality

**VOGEL&NOOT** offers strong products that meet the highest quality standards during manufacture and operation. All information on the quality and performance of **VOGEL&NOOT** panel radiators is verified and confirmed by renowned European institutes on an ongoing basis. This means you can be certain of obtaining the highest heating power and the best product quality.



More information is available at [www.vogelundnoot.com](http://www.vogelundnoot.com)





**VOGEL&NOOT**

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**heating**through**innovation.**