



EXACT

Radiant convectors



About the Company

The ISAN trademark represents a traditional Czech manufacturer of heating units with a history that goes back more than 60 years. ISAN Radiátory s.r.o. has been involved in the development and manufacture of convectors for over 18 years. First-rate technological procedures and the progressive thinking of our designers and developers invariably guarantee that ISAN products continue to achieve high-level technical and aesthetic parameters, which have allowed them to become the products of choice among both domestic and foreign customers. We export 90% of our production primarily into EU countries.

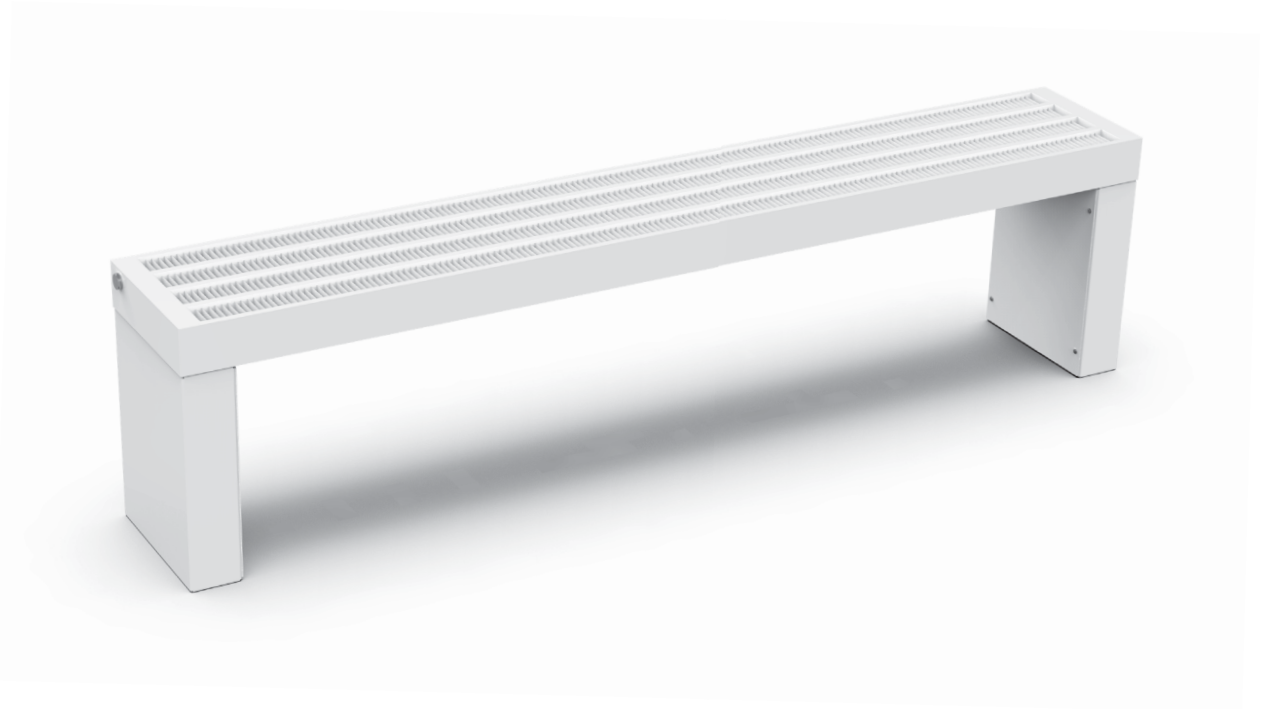
Our primary objective is customer satisfaction. Product processing consistent with ecological best practice and utmost consideration for the environment goes without saying.

The manufacture conforms to ISO 9001:2016. Moreover, all heating units comply with certification requirements applicable to current statutory regulations of individual countries in order to conform to the most stringent standards. The certification process for the Czech Republic was completed at the Testing Institute for Mechanical Engineering in Brno, notified body ES1015.

The complete ISAN portfolio consists of a wide range of radiant convectors and lamella-fitted radiators ISAN EXACT, convectors with a lamella heat exchanger ISAN ECOLITE, convectors ISAN TERMO, column radiators ISAN ATOL, ribbed-tube radiators ISAN SPIRAL, glass radiators ISAN JOY and, last but not least, bathroom radiators ISAN MELODY.

ISAN Radiátory s.r.o. specialises in the manufacture of custom-made radiators according to customer requirements and specifications.

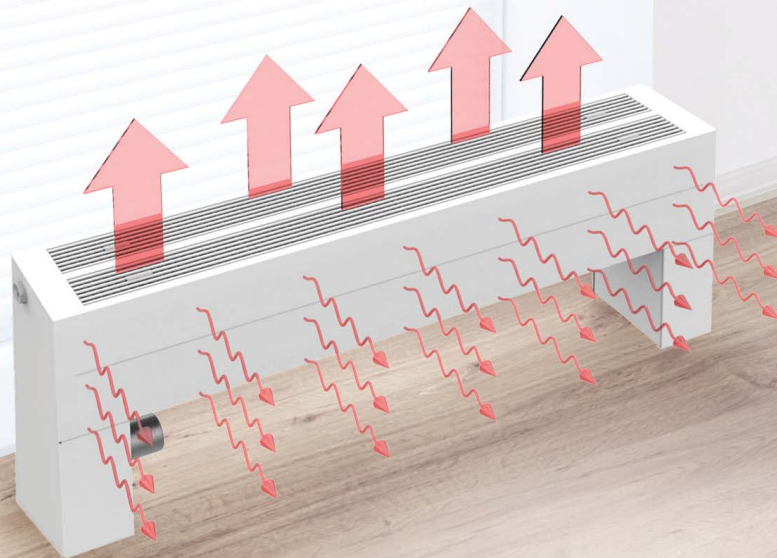
Warmth that will adapt ...



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Exact Basic Information



Application

Radiant convectors are a popular alternative to heating modern interiors. They can be installed in front of large glass walls or windows with low window sills, in the interior open space, as well as on the wall. The units feature a significant convection heating component (heated air flow), while providing a pleasant radiant heat. The broad selection ranges from small, refined models to high-performance, robust heating units. Installations in front of windows require models fitted with a thermal shield (models marked W) to prevent heat from escaping outside.

Lamella-fitted radiators are exclusive wall-mounted units, introducing an aesthetic element to the interior. The smooth front panel with fine lines gives this radiator, made of sturdy steel profiles, the impression of a subdued force. Radiant heaters are ideal for those looking for a solid steel structure, efficient appearance and good heat output. Radiators with additional radiant surfaces and fins on the inside are designed for high performance, often installed in older buildings.

- modern households, luxury interiors
- historic buildings, residences
- corridors, commercial premises

Models without the inner fins and the top grille should be placed in areas with stricter hygiene requirements (clean/sterile environments). All nooks and crannies can be easily wiped clean with a cloth and liquid detergent.

- hospitals
- medical facilities
- waiting rooms

Operation

The heat output of convectors with natural convection is controlled by a thermostatic head mounted on the unit's thermostatic valve. It responds to ambient temperature fluctuations and smoothly controls the flow of the heating fluid through the convector.

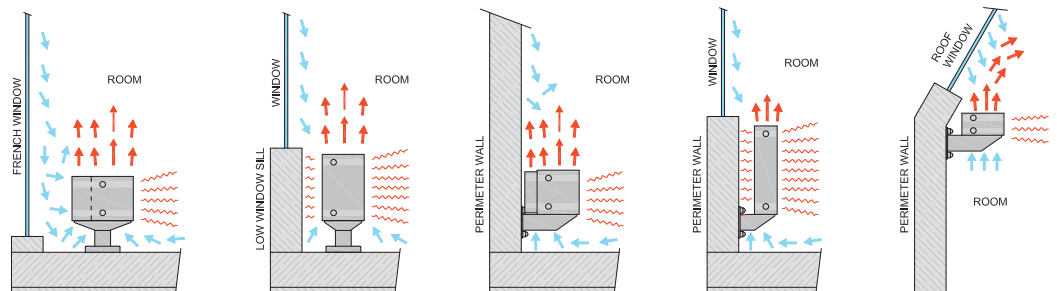
Convectors and lamellar radiators are designed for use within heating systems in both individual houses and buildings with multiple units that rely solely on heating (treated) water supplied via forced circulation.

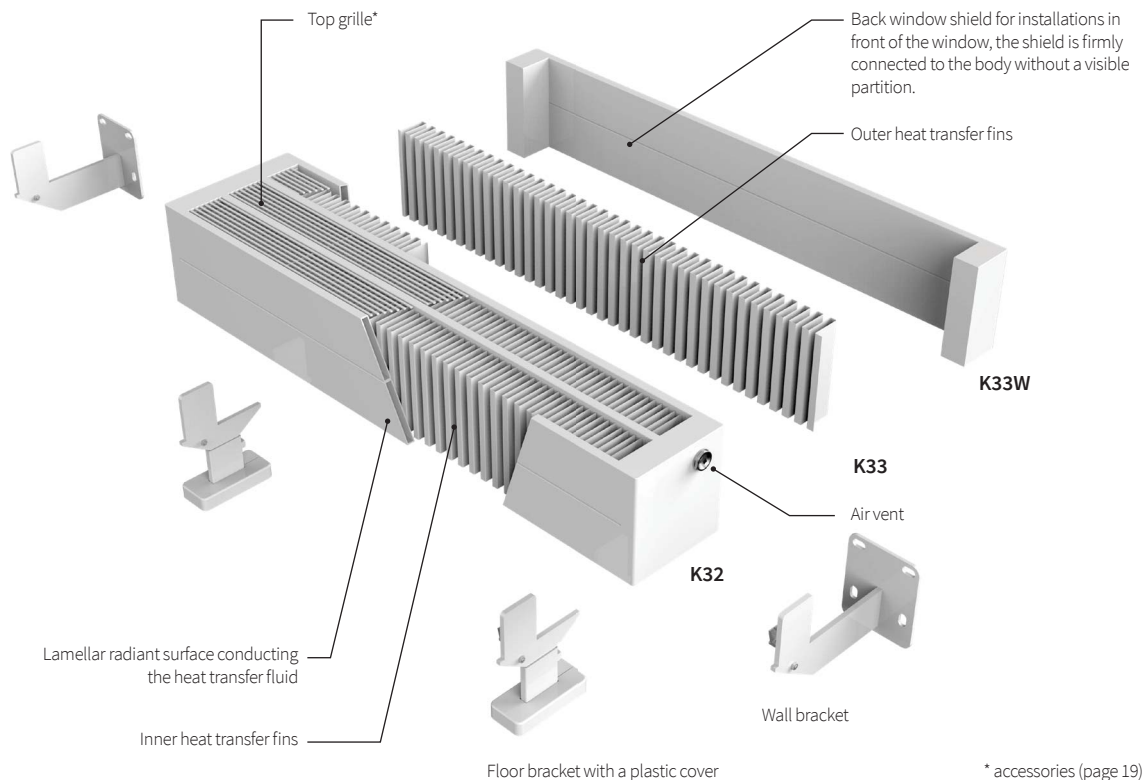
Heat output

The heat output was determined in accordance with EN442. Variables with an adverse effect on the heat output include installation of heating units on other than perimeter walls, failure to maintain the required radiator-to-wall clearance or the use of various covers or window sills. The top grille reduces the heat output by approximately 5%.

Position and function

Convector heaters are normally positioned in front of windows to ensure optimum air circulation in front of the glass surface. Ideally, it is best if the unit occupies as much of the width of the window as practically possible. In addition, the height of each unit should be sized with regard to the character of the room as well as the height of the window sill. Wall-mounted models can be anchored under the window sill or to one of the inner walls.





Design

The EXACT units are characterized by their robust design with a sturdy welded frame. The base structure is made up of 70x11mm rectangular profiles (making it possible to increase the size in 70mm increments) joined to form a single piece. Fins inserted between the lamellar panels provide an additional convection surface, effectively boosting the heat output. The robust design essentially increases the weight of the unit, often exceeding 100 kg, which should be taken into account when planning the installation, i.e. choosing a stable substrate with sufficient load-bearing capacity. The convectors are available in a 6 bar design (10 bar versions available to order) and lamellar radiators in 5 bar versions (10 bar to order).

Identification system

K32	3 radiant surfaces, 2 finned surfaces
K33	3 radiant surfaces, 3 finned surfaces
K33W	3 radiant surfaces, 3 finned surfaces, window shield

Surface finish

The surface finish is applied in a manner that is considerate to the environment, provides a long-term corrosion and mechanical resistance and conforms to sanitary standards. We use epoxy polyester powder coating for the finish. Snow white RAL 9016 is the basic colour. For additional colours see the ISAN Colour Reference Chart, subject to a surcharge based on the colour type. The EXACT radiators are not available in chrome and stainless steel versions.

Atypical design and connection

The Exact heating units are highly flexible in terms of their design and connection options.

Design

- the units can be ordered in 1cm length increments within the length limits of each convector
- atypical height variations available in 70mm increments
- curved and angled convector radiators
- radiators and convectors without grilles and fins – sanitary design
- convectors with a wooden top
- atypical floor stands and wall brackets
- church bench design
- facade heating
- raised floor stands

Alternative connection options

- G3/4" heating fluid connection threads
- 50mm lower connection without a valve insert
- one-sided in-line connection
- single-inlet versions

K21 / K22 / K22W

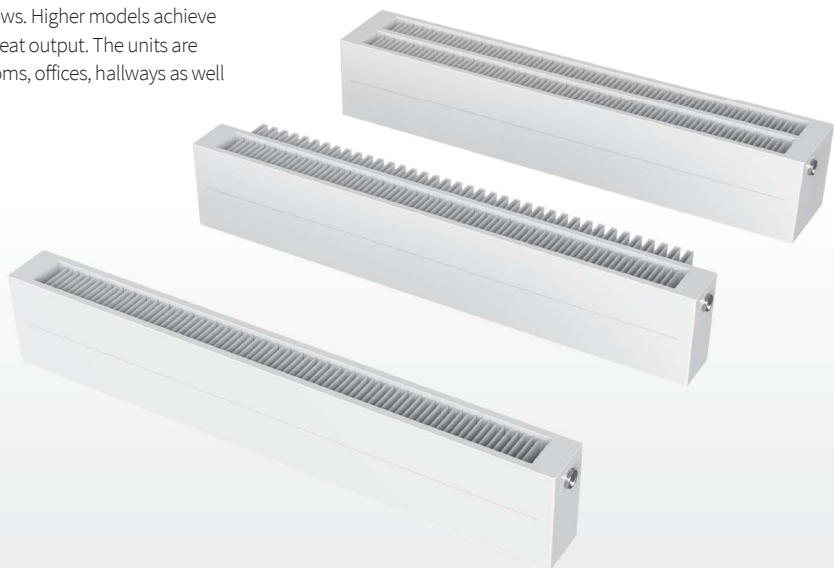
Narrow convectors can both warm up and provide radiant heat to a space. The 70 mm high units can be used as part of façade heating systems or built into church pews. Higher models achieve an optimal radiation-convection ratio, while ensuring an adequate heat output. The units are inconspicuous, aesthetic and efficient. They are a good fit for bedrooms, offices, hallways as well as warehouses, which makes them very versatile in their application.

Basic data

Length L	400–6 000 mm
Height H	70, 140, 210, 280 mm
Connection	4× G1/2"

Operating conditions

Max. operating excess pressure	0,6 MPa (1,0 MPa)
Max. operating temperature	110 °C
Heating system	two-pipe with forced circulation
Ambient temperature	+2 to 45 °C
Relative humidity	20–70 %



Convector dimensions and options

Convector width W [mm]

W = 72



K21

2 radiant surfaces
1 finned surface

W = 111



K22

2 radiant surfaces
2 finned surfaces

W = 133



K22W

2 radiant surfaces
2 finned surfaces
window shield W

Convector height H [mm]



H = 70 mm



H = 140 mm



H = 210 mm



H = 280 mm

Heating outputs W/m at ΔT50 (ΔT30)

Model	K21	K22, K22W
H = 70 mm	336 W (173 W)	435 W (223 W)
H = 140 mm	524 W (270 W)	693 W (357 W)
H = 210 mm	683 W (352 W)	900 W (465 W)
H = 280 mm	826 W (425 W)	1 077 W (558 W)

Installation

Floor installation



Wall installation



Coding

K22-	0140	2600	VR	F1	D	01	N
Model	Height H [mm]	Length L [mm]	Connection type	Mounting	Grille	Colour	Atypical
K21-	0070	0400 (in step 100)	AB, CD side	F1 floor Subtle	– no grille (standard)	As per RAL colour chart	– standard design
K22-	0140	0500	AD, CB diagonal	F4 floor Tall	L linear	Structured colours	N atypical design
K22W	0210	...	EF, FE bottom	S1 floor Block	D rectangle	Metallic colours	X design 1 MPa (10 bar)
	0280	2000	SM, MS middle	W1 wall Subtle	V perforated	see colour reference chart p. 40	T design 1 MPa (10 bar) and atypical design
		2200 (in step 200)	VL, VR with valve	R1 floor			
		2400	SR, ML middle with valve	R2 (VDI6036, class 3)			
	For additional types see p. 20				
	6000	6000					

◀ connection options → 20

⊕ connection fittings → 22

⊕ accessories → 19

📄 technical drawings → 33

K32 / K33 / K33W

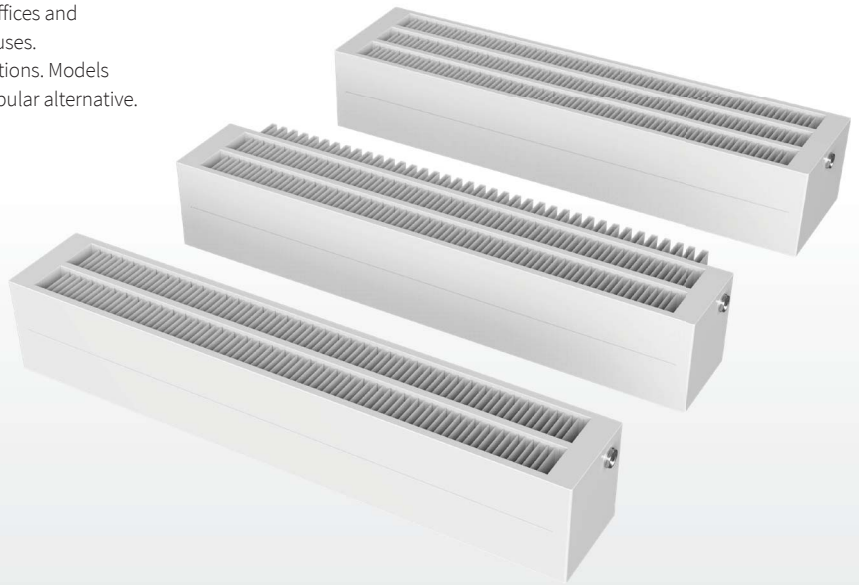
The most popular convectors, compact adequate dimensions with a sufficient heat output for most applications ranging from apartments, offices and commercial premises to waiting rooms, hallways and warehouses. The convectors are available in a wide range of connection options. Models fitted with a choice of wooden tops remain an exceedingly popular alternative.

Basic data

Length L	400–6 000 mm
Height H	70, 140, 210, 280 mm
Connection	4× G1/2"

Operating conditions

Max. operating excess pressure	0,6 MPa (1,0 MPa)
Max. operating temperature	110 °C
Heating system	two-pipe with forced circulation
Ambient temperature	+2 to 45 °C
Relative humidity	20–70 %



Convector dimensions and options

Convector width W [mm]



K32

3 radiant surfaces
2 finned surfaces



K33

3 radiant surfaces
3 finned surfaces



K33W

3 radiant surfaces
3 finned surfaces
window shield W

Convector height H [mm]



H = 70 mm



H = 140 mm



H = 210 mm



H = 280 mm

Heating outputs W/m at ΔT50 (ΔT30)

Model	K32	K33, K33W
H = 70 mm	578 W (298 W)	666 W (342 W)
H = 140 mm	903 W (466 W)	1 060 W (546 W)
H = 210 mm	1 176 W (606 W)	1 378 W (712 W)
H = 280 mm	1 422 W (732 W)	1 648 W (854 W)

Installation

Floor installation



Wall installation



Coding

K22-	0140	2600	VR	F1	D	01	N
Model	Height H [mm]	Length L [mm]	Connection type	Mounting	Grille	Colour	Atypical
K32-	0070	0400 (in step 100)	AB, CD side	F1 floor Subtle	– no grille (standard)	As per RAL colour chart	– standard design
K32-	0140	0500	AD, CB diagonal	F4 floor Tall	L linear	Structured colours	N atypical design
K32W	0210	...	EF, FE bottom	S1 floor Block	D rectangle	Metallic colours	X design 1 MPa (10 bar)
	0280	2000	SM, MS middle	W1 wall Subtle	V perforated	see colour reference chart p. 40	T design 1 MPa (10 bar) and atypical design
		2200 (in step 200)	VL, VR with valve	R1 floor			
		2400	SR, ML middle with valve	R2 (VDI6036, class 3)			
	For additional types see p. 20				
	6000	6000					

◀ connection options → 20

⊙ connection fittings → 22

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K43 / K44 / K44W

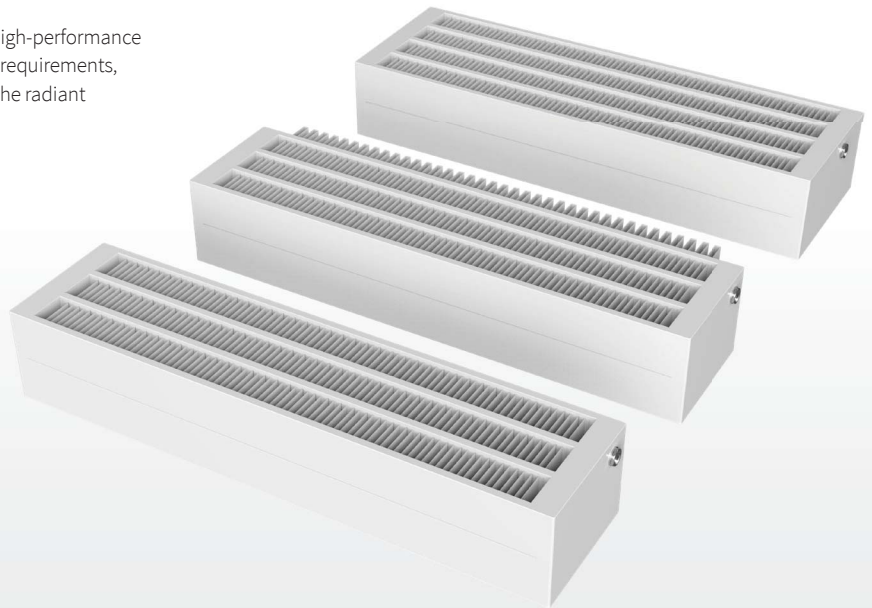
Not all interiors lend themselves to conventional high radiators. High-performance units with 4 radiant surfaces make it possible to meet higher heat requirements, especially in systems with lower heating medium temperatures. The radiant component is substantially complemented by convection heat.

Basic data

Length L	400–6 000 mm
Height H	70, 140, 210, 280 mm
Connection	4× G1/2"

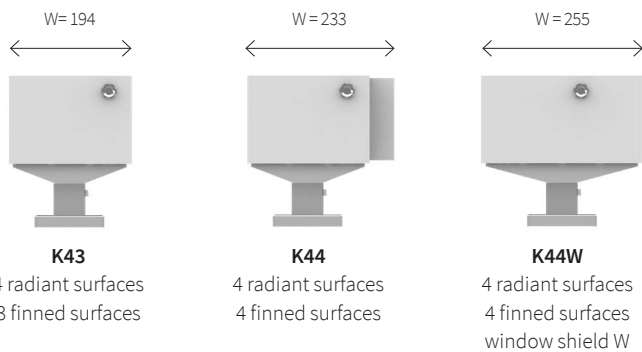
Operating conditions

Max. operating excess pressure	0,6 MPa (1,0 MPa)
Max. operating temperature	110 °C
Heating system	two-pipe with forced circulation
Ambient temperature	+2 to 45 °C
Relative humidity	20–70 %



Convector dimensions and options

Convector width W [mm]



Convector height H [mm]



Heating outputs W/m at ΔT50 (ΔT30)

Model	K43	K44, K44W
H = 70 mm	809 W (418 W)	891 W (457 W)
H = 140 mm	1 263 W (651 W)	1 417 W (730 W)
H = 210 mm	1 645 W (847 W)	1 841 W (951 W)
H = 280 mm	1 990 W (1 024 W)	2 202 W (1 141 W)

Installation

Floor installation



Wall installation



Coding

K22-	0140	2600	VR	F1	D	01	N
Model	Height H [mm]	Length L [mm]	Connection type	Mounting	Grille	Colour	Atypical
K43-	0070	0400 (in step 100)	AB, CD side	F1 floor Subtle	– no grille (standard)	As per RAL colour chart	– standard design
K44-	0140	0500	AD, CB diagonal	F4 floor Tall	L linear	Structured colours	N atypical design
K44W	0210	...	EF, FE bottom	S1 floor Block	D rectangle	Metallic colours	X design 1 MPa (10 bar)
	0280	2000	SM, MS middle	W1 wall Subtle	V perforated	see colour reference chart p. 40	T design 1 MPa (10 bar) and atypical design
		2200 (in step 200)	VL, VR with valve	R1 floor			
		2400	SR, ML middle with valve	R2 (VDI6036, class 3)			
		...	For additional types see p. 20				
		6000					

connection options → 20

connection fittings → 22

accessories → 19

technical drawings → 33

K54 / K55 / K55W

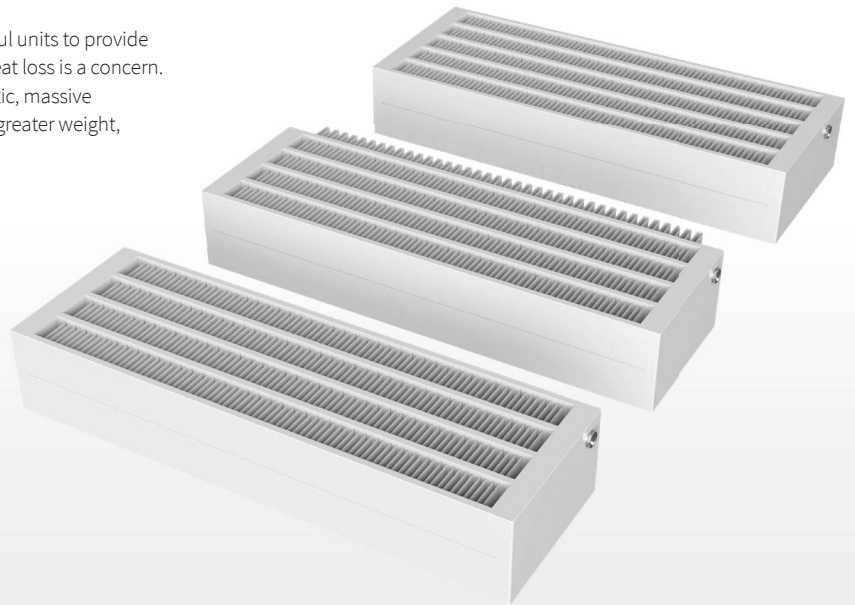
Open-plan and high-ceiling spaces in particular require powerful units to provide adequate heating. Common in historic buildings where high heat loss is a concern. Some models can be integrated into a shaft or used as an artistic, massive monolith. Higher radiant and convection heat output but also greater weight, which should be compensated for by appropriate anchoring.

Basic data

Length L	400–6 000 mm
Height H	70, 140, 210, 280 mm
Connection	4× G1/2"

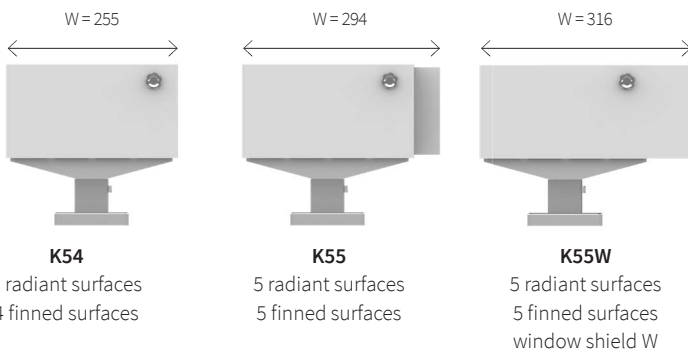
Operating conditions

Max. operating excess pressure	0,6 MPa (1,0 MPa)
Max. operating temperature	110 °C
Heating system	two-pipe with forced circulation
Ambient temperature	+2 to 45 °C
Relative humidity	20–70 %

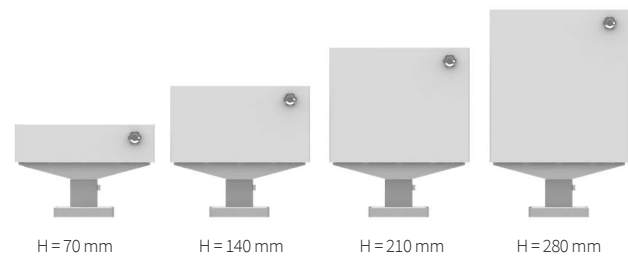


Convector dimensions and options

Convector width W [mm]



Convector height H [mm]



K54
5 radiant surfaces
4 finned surfaces

K55
5 radiant surfaces
5 finned surfaces

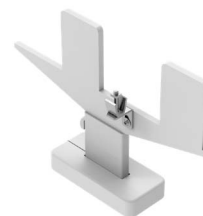
K55W
5 radiant surfaces
5 finned surfaces
window shield W

Heating outputs W/m at ΔT_{50} (ΔT_{30})

Model	K54	K55, K55W
H = 70 mm	1 028 W (531 W)	1 100 W (570 W)
H = 140 mm	1 606 W (828 W)	1 766 W (909 W)
H = 210 mm	2 092 W (1 078 W)	2 295 W (1 185 W)
H = 280 mm	2 530 W (1 302 W)	2 745 W (1 422 W)

Installation

Floor installation



Wall installation



Coding

K22-	0140	2600	VR	F1	D	01	N
Model	Height H [mm]	Length L [mm]	Connection type	Mounting	Grille	Colour	Atypical
K54-	0070	0400 (in step 100)	AB, CD side	F1 floor Subtle	– no grille (standard)	As per RAL colour chart	– standard design
K55-	0140	0500	AD, CB diagonal	F4 floor Tall	L linear	Structured colours	N atypical design
K55W	0210	...	EF, FE bottom	S1 floor Block	D rectangle	Metallic colours	X design 1 MPa (10 bar)
	0280	2000	SM, MS middle	W1 wall Subtle	V perforated	see colour reference chart p. 40	T design 1 MPa (10 bar) and atypical design
		2200 (in step 200)	VL, VR with valve	R1 floor			
		2400	SR, ML middle with valve	R2 (VDI6036, class 3)			
		...	For additional types see p. 20				
		6000					

◀ connection options → 20

⊙ connection fittings → 22

⊕ accessories → 19

📄 technical drawings → 33

Floor stands and wall brackets

The supplied stands and brackets allow for the unit to be fixed securely to the wall or floor. The mounting system has been designed to provide an adequate support to the considerable weight of the Exact convectors. The load-bearing capacity of the substrate is equally important. Possible solutions may include structure reinforcement or the use of additional supports. The anchoring system is flexible and can be tailor-made to meet customer-specified requirements regarding clearance or design modifications. Please direct all your requests to the ISAN Technical Department. The floor stands and wall brackets are not supplied with the heating units. They are packaged and shipped separately as optional accessories.

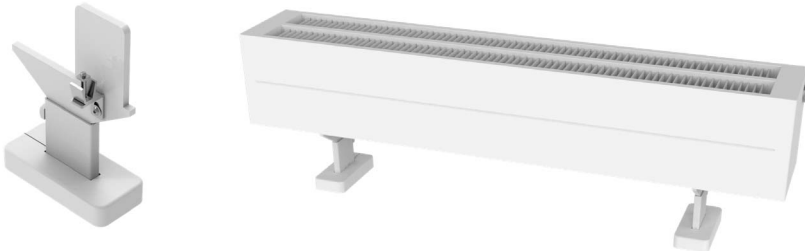
Standard stands – Subtle, Tall and Block

The stands allow for correct and safe positioning of each unit in the interior. While supporting the radiant convectors, they ensure proper anchoring and resistance of the installed unit during normal use and stress. At the same time, the stands complete the design aesthetic. The near-invisible and slim Subtle stands allow the robustness of the metal body to stand out. The Block stands are prominent, forming an integral component of the overall appearance. They provide a visible and solid connection to the floor structure. The Tall stands are the preferred choice for commercial buildings with double flooring. They are of sufficient height and strength to support the unit above ground, even when anchored to the underlying rough concrete floor.

Flat floor stands Subtle

Identification coding: F1

Flat floor stands made of strip steel. Each floor stand includes a plastic cover and fastening components with a locking mechanism to prevent the unit from disengaging. The convector type must be fully specified when placing an order.



Covers

Available plastic covers 110 × 50 mm

Unless the order specifies otherwise, the covers are automatically selected to match the colour of the convector.



RAL 9016



RAL 9006



RAL 7024



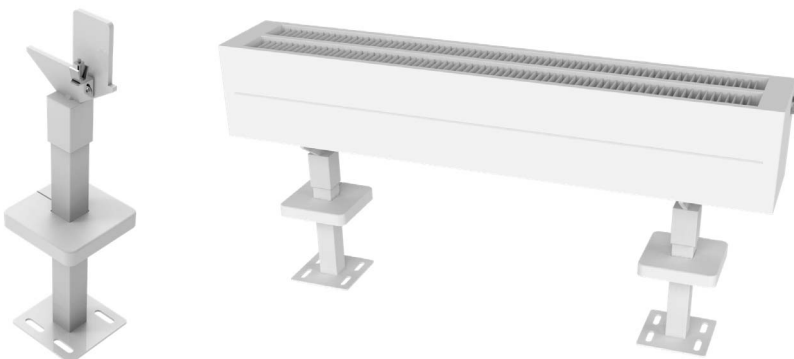
RAL 9005

The convector height above ground when mounted on floor stands: **100 mm**

Double flooring floor stands Tall

Identification coding: F4

Installation into bonded or sandwich (double) floors requires the use of double flooring stands. The standard clear height of the floor stands is 450 mm, which can be as required on site to conform to the floor composition.



Covers

Available plastic covers 110 x 110 mm

Unless the order specifies otherwise, the covers are automatically selected to match the colour of the convector.



RAL 9016



RAL 9006



RAL 7024



RAL 9005

The maximum stand height is **450 mm**; can be adjusted on site

Floor stands Block

Identification coding: S1

A compact unit with steel column feet. The Block floor stands require an alternative mounting arrangement on the convector body; the order specify which unit the stands are for. In the case of a connection with the valve placed inside the foot (EF, FE, EE, FF connection options), one foot will have an opening to facilitate installation of the thermostatic valve and the thermostatic head. Use the Z-TD001 valve to ensure proper alignment with the opening.

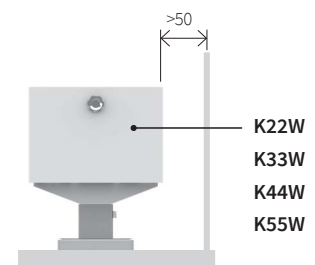
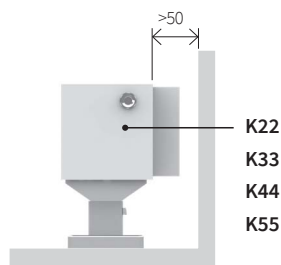
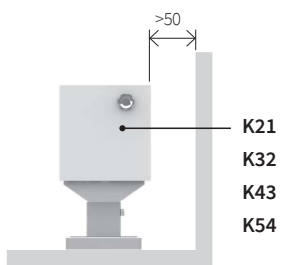


The height of the stand is **140 mm**.

Notice

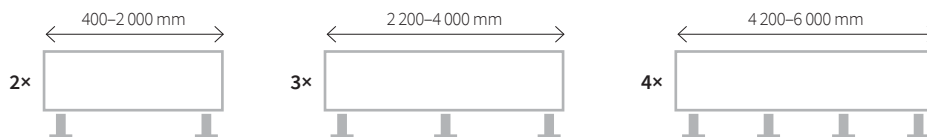
For VR VL valve connections where the heating medium lines on the side are 50 mm apart, the Block stands are positioned 150 mm from the edge of the convector.

Convector mounting

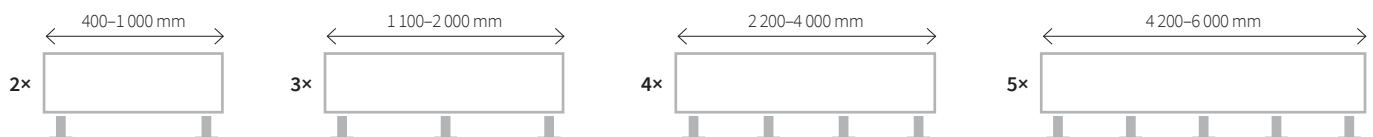


The number of floorstands as per the unit length

K21, K22, K22W, K32, K33, K33W, K43, K44, K44W



K54, K55, K55W



RIGID R1, R2, R3 stands meeting the VDI 6036 Class 3 criteria (for installations with strict anchoring requirements).

The stands are designed for use in public environments where the heating unit is exposed to greater stress and shocks. People leaning against or sitting/placing objects on the radiators is expected. Collisions with cleaning machines or luggage trolleys may also occur. In school settings, gross negligence and sometimes intentional abuse cannot be ruled out. In sports facilities, the units can be subjected to sudden impacts from multiple people.

After installation, the unit must be able to maintain the correct position to avoid any damage to the heating system connection or other components.

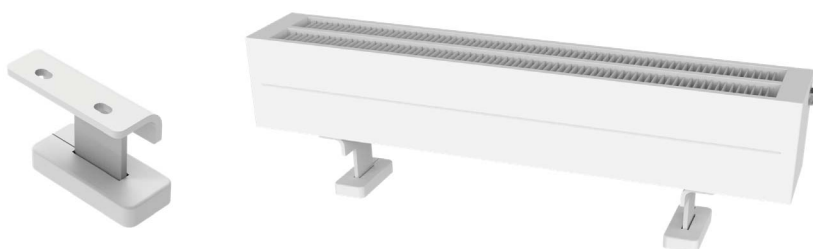
- airports, train stations, barracks
- schools, sports facilities, youth centers
- swimming pools, churches
- rest areas, public toilets
- correctional facilities, psychiatric facilities
- hallways with escape routes

Fixed low stand Rigid R1

Identification coding: R1

The rigid design guarantees secure mounting of the convector. The stands are bolted to the convector.

Design fixed rigid stand
Material thick-walled strip steel



Covers

Available plastic covers 110 × 50 mm

Unless the order specifies otherwise, the covers are automatically selected to match the colour of the convector.



RAL 9016



RAL 9006



RAL 7024



RAL 9005

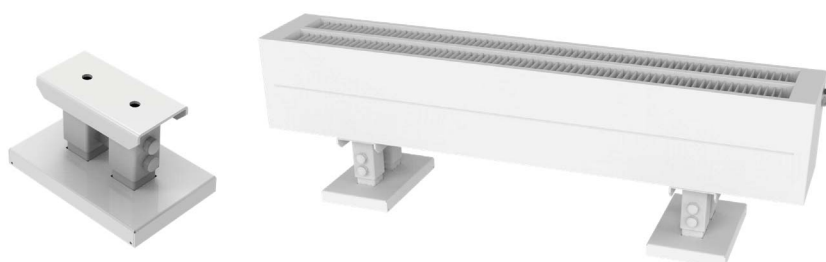
Stand height: **100 mm**

Adjustable stand Rigid R2

Identification coding: R2

The rigid design with two support sections allows for installation on uneven surfaces. The stands are bolted to the convector.

Design optional 10-mm height adjustment
Material steel, doubled square sections



Covers

Metal covers 170 × 110 mm

(to be ordered separately)

The steel covers are supplied in the colour of the convector



C1 cover

Fitted on the stand during convector installation
Code: O11963-COV-01...



C2 cover

Can be fitted after installation is complete
Code: O11963-COV-02...

Stand height: **100-110 mm**

High double flooring stand Rigid R3

Identification coding: R3

The lower section of the stand can be cut to the required height to fit the double flooring on site. A minimum spacing of 40 mm must be maintained between the final and rough floor.

Design for double flooring installation
Material reinforced doubled square sections

Covers

Metal covers 170 × 110 mm
 (to be ordered separately)

The steel covers are supplied in the colour of the convector



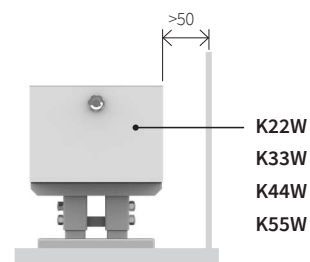
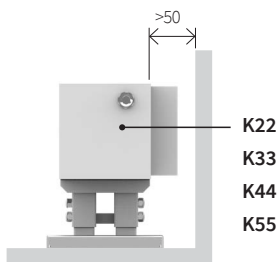
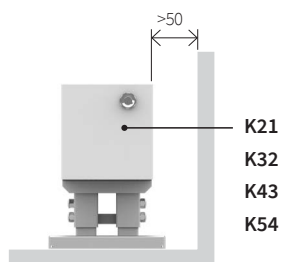
C1 cover
 Fitted on the stand during convector installation
 Code: O11963-COV-01...



C2 cover
 Can be fitted after installation is complete
 Code: O11963-COV-02...

The maximum stand height is **450 mm**; can be adjusted on site
 Note: The stand is not compatible with the K21 and K22 models.

Convector mounting



The number of floor stands as per the unit length

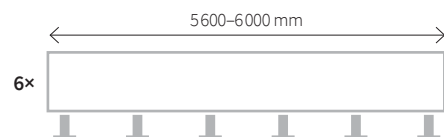
K21, K22, K22W, K32, K33, K33W, K43



K44, K44W, K54, K55, K55W



K44, K44W, K54, K55, K55W



Wall brackets

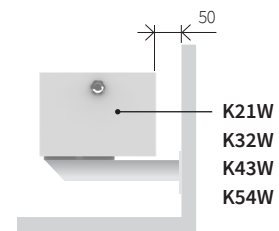
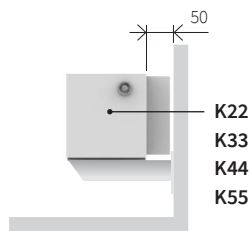
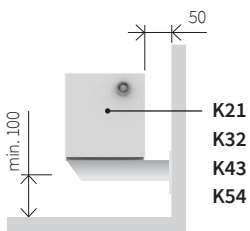
Wall brackets Subtle

Identification coding: W1

Flat wall-mounting brackets made of thick strip steel. Each wall bracket includes fastening components with a locking mechanism to prevent the unit from sliding out. The type must be fully specified when placing an order.



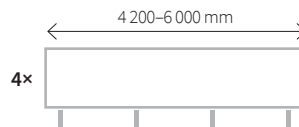
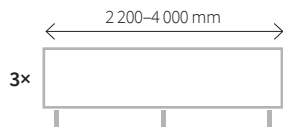
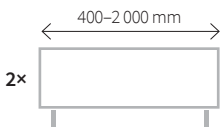
Wall-mounting brackets



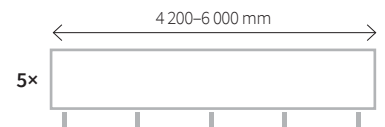
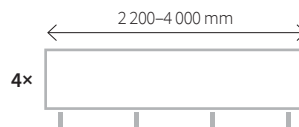
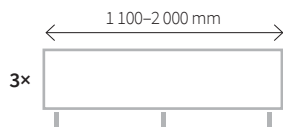
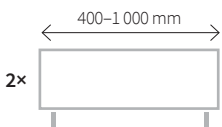
The rear surface of the „W” convectors is cold. This prevents heat loss through the wall.

The number of wall brackets as per the unit length

K21, K22, K22W, K32, K33, K33W, K43, K44, K44W



K54, K55, K55W



Accessories

Top grille

The convectors are supplied without a grille as standard. The exposed transition surface finning can be covered with an upper grille. The grille matches the color of the convector.

Linear grille

Identification coding: L



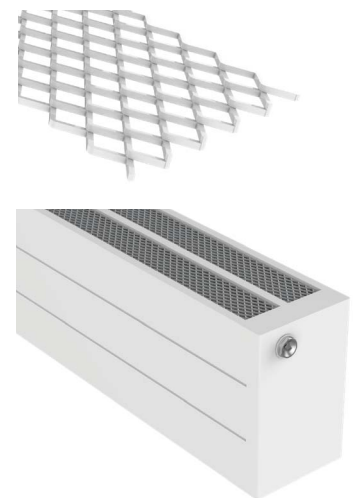
Grille with rectangular holes

Identification coding: D



Perforated sheet metal grille

Identification coding: V



Magnetic rail

To facilitate preheating or cloth drying the convector can be fitted with designer accessories such as magnetic rails and hooks. The components are available in a chrome finish.

A magnetic rail in three length variations (sized up to the outer edges)



Description

Rail 260 mm
Rail 430 mm
Rail 550 mm

Identification

015MD80-02
015MD80-03
015MD80-04



Magnetic hook

A magnetic hook with \varnothing 54 mm base.



Description

Magnetic hook

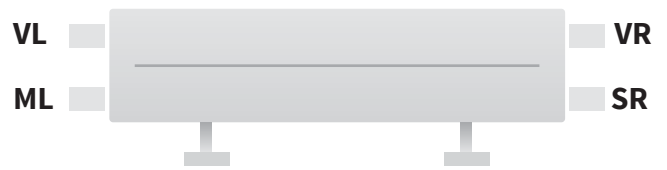
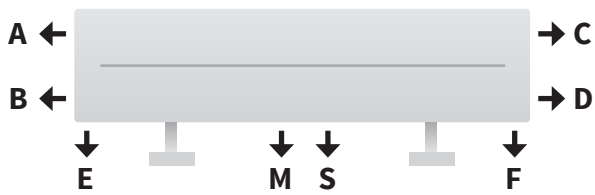
Identification

015MD80-01



Heating System Connection

To ensure correct connection of the unit, specify the order code of the selected convector design. The basic identification consists of letter codes in the following layout:



Connection types

AB one-sided



CD one-sided



AD diagonal



CB diagonal



BD bottom continuous



DB bottom continuous



AC continuous



CA continuous

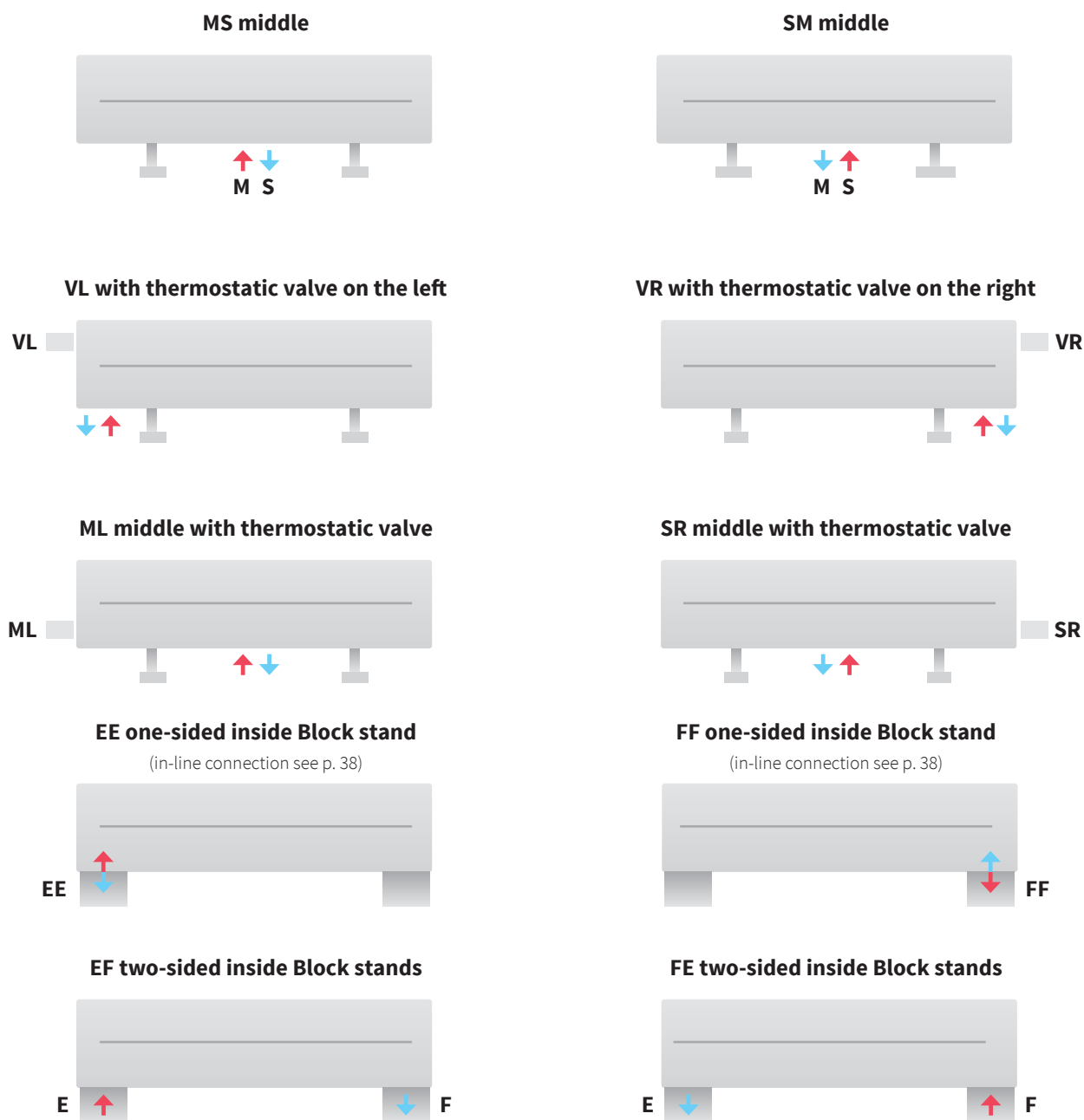


EF bottom



FE bottom





Connection thread

High-performance units with greater heating medium flows require a large-diameter connection thread. To meet this requirement, we offer radiators with a G3/4" connection thread (instead of the standard G1/2"). This option is also recommended when connecting multiple convectors in a line, e.g. AC + AC + AB (see page 34).



G1/2" connection thread (standard)



G3/4" connection thread

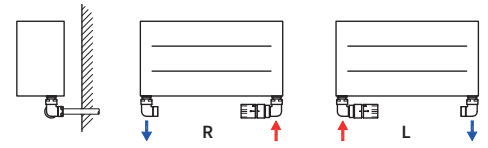
Thermostatic Packs

Thermostatic set

Angular – triax



illustration image



Pack nr. 101L / white / left / Code: O37BUCL101
Pack nr. 101R / white / right / Code: O37BUCR101
Connection to copper pipes Ø 15 mm
 Thermostatic head / white
 Angular thermostatic valve and lockshield valve / white
 Clamping fittings for copper pipes / chrome

Pack nr. 103L / chrome / left / Code: O37CUCL103
Pack nr. 103R / chrome / right / Code: O37CUCR103
Connection to copper pipes Ø 15 mm
 Thermostatic head / chrome
 Angular thermostatic valve and lockshield valve / chrome
 Clamping fittings for copper pipes / chrome

Pack nr. 105L / INOX / left / Code: O37NUCL105
Pack nr. 105R / INOX / right / Code: O37NUCR105
Connection to copper pipes Ø 15 mm
 Thermostatic head / INOX
 Angular thermostatic valve and lockshield valve / INOX
 Clamping fittings for copper pipes / INOX

Pack nr. 102L / white / left / Code: O37BUAL102
Pack nr. 102R / white / right / Code: O37BUAR102
Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm
 Thermostatic head / white
 Angular thermostatic valve and lockshield valve / white
 Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 104L / chrome / left / Code: O37CUAL104
Pack nr. 104R / chrome / right / Code: O37CUAR104
Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm
 Thermostatic head / chrome
 Angular thermostatic valve and lockshield valve / chrome
 Clamping fittings for Al/PE-X, Al/PERT / chrome

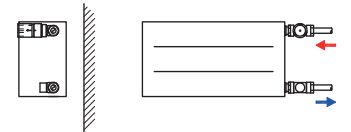
Pack nr. 106L / INOX / left / Code: O37NUAL106
Pack nr. 106R / INOX / right / Code: O37NUAR106
Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm
 Thermostatic head / INOX
 Angular thermostatic valve and lockshield valve / INOX
 Clamping fittings for Al/PE-X, Al/PERT / INOX

Thermostatic set

Direct



illustration image



Pack nr. 107 / white / Code: O37BPC-107
Connection to copper pipes Ø 15 mm
 Thermostatic head / white
 Direct thermostatic valve and lockshield valve / white
 Clamping fittings for copper pipes / chrome

Pack nr. 109 / chrome / Code: O37CPC-109
Connection to copper pipes Ø 15 mm
 Thermostatic head / chrome
 Direct thermostatic valve and lockshield valve / chrome
 Clamping fittings for copper pipes / chrome

Pack nr. 111 / INOX / Code: O37NPC-111
Connection to copper pipes Ø 15 mm
 Thermostatic head / INOX
 Set – Direct thermostatic valve and lockshield valve / INOX
 Clamping fittings for copper pipes / INOX

Pack nr. 108 / white / Code: O37BPA-108
Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm
 Thermostatic head / white
 Direct thermostatic valve and lockshield valve / white
 Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 110 / chrome / Code: O37CPA-110
Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm
 Thermostatic head / chrome
 Direct thermostatic valve and lockshield valve / chrome
 Clamping fittings for Al/PE-X, Al/PERT / chrome

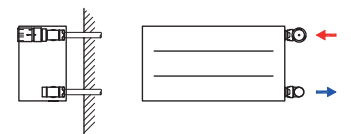
Pack nr. 112 / INOX / Code: O37NPA-112
Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm
 Thermostatic head / INOX
 Direct thermostatic valve and lockshield valve / INOX
 Clamping fittings for Al/PE-X, Al/PERT / INOX

Thermostatic set

Corner



illustration image



Pack nr. 113 / white / Code: O37BRC-113
Connection to copper pipes Ø 15 mm
 Thermostatic head / white
 Corner thermostatic valve and lockshield valve / white
 Clamping fittings for copper pipes / chrome

Pack nr. 115 / chrome / Code: O37CRC-115
Connection to copper pipes Ø 15 mm
 Thermostatic head / chrome
 Corner thermostatic valve and lockshield valve / chrome
 Clamping fittings for copper pipes / chrome

Pack nr. 117 / INOX / Code: O37NRC-117
Connection to copper pipes Ø 15 mm
 Thermostatic head / INOX
 Corner thermostatic valve and lockshield valve / INOX
 Clamping fittings for copper pipes / INOX

Pack nr. 114 / white / Code: O37BRA-114
Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm
 Thermostatic head / white
 Corner thermostatic valve and lockshield valve / white
 Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 116 / chrome / Code: O37CRA-116
Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm
 Thermostatic head / chrome
 Corner thermostatic valve and lockshield valve / chrome
 Clamping fittings for Al/PE-X, Al/PERT / chrome

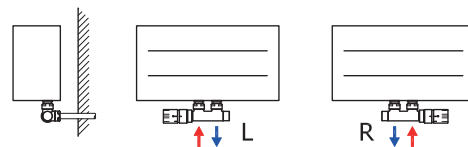
Pack nr. 118 / INOX / Code: O37NRA-118
Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm
 Thermostatic head / INOX
 Corner thermostatic valve and lockshield valve / INOX
 Clamping fittings for Al/PE-X, Al/PERT / INOX

Thermostatic valve

Corner – middle



illustration image



Pack nr. 119L / white / left / Code: O37BWCL119
Pack nr. 119R / white / right / Code: O37BWC119
 Connection to copper pipes Ø 15 mm
 Thermostatic head / white
 Corner thermostatic valve and lockshield valve / white
 Clamping fittings for copper pipes / chrome

Pack nr. 123L / INOX / left / Code: O37NWCL123
Pack nr. 123R / INOX / right / Code: O37NWC123
 Connection to copper pipes Ø 15 mm
 Thermostatic head / INOX
 Corner thermostatic valve and lockshield valve / INOX
 Clamping fittings for copper pipes / INOX

Pack nr. 221L / black matt / left / Code: O39SWCL221
Pack nr. 221R / black matt / right / Code: O39SWCR221
 Connection to copper pipes Ø 15 mm
 Thermostatic head / black matt
 Corner thermostatic valve and lockshield valve / black matt
 Clamping fittings for copper pipes / chrome

Pack nr. 120L / white / left / Code: O37BWAL120
Pack nr. 120R / white / right / Code: O37BWAR120
 Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm
 Thermostatic head / white
 Corner thermostatic valve and lockshield valve / white
 Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 124L / INOX / left / Code: O37NWAL124
Pack nr. 124R / INOX / right / Code: O37NWAR124
 Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm
 Thermostatic head / INOX
 Corner thermostatic valve and lockshield valve / INOX
 Clamping fittings for Al/PE-X, Al/PERT / INOX

Pack nr. 222L / black matt / left / Code: O39SWAL222
Pack nr. 222R / black matt / right / Code: O39SWAR222
 Připojení na Al/PEX, Al/PERT trubky Ø 16x2 mm
 Thermostatic head / black matt
 Corner thermostatic valve and lockshield valve / black matt
 Clamping fittings for Al/PE-X a Al/PERT / chrome

Pack nr. 121L / chrome / left / Code: O37CWCL121
Pack nr. 121R / chrome / right / Code: O37CWC121
 Connection to copper pipes Ø 15 mm
 Thermostatic head / chrome
 Corner thermostatic valve and lockshield valve / chrome
 Clamping fittings for copper pipes / chrome

Pack nr. 122L / chrome / left / Code: O37CWAL122
Pack nr. 122R / chrome / right / Code: O37CWAR122
 Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm
 Thermostatic head / chrome
 Corner thermostatic valve and lockshield valve / chrome
 Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 219L / black / left / Code: O37SWCL219
Pack nr. 219R / black / right / Code: O37SWCR219
 Connection to copper pipes Ø 15 mm
 Thermostatic head / black
 Corner thermostatic valve and lockshield valve / black
 Clamping fittings for copper pipes / chrome

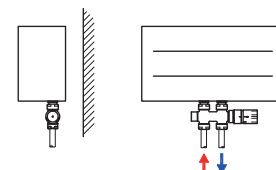
Pack nr. 220L / black / left / Code: O37SWAL220
Pack nr. 220R / black / right / Code: O37SWAR220
 Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm
 Thermostatic head / black
 Corner thermostatic valve and lockshield valve / black
 Clamping fittings for Al/PE-X a Al/PERT / chrome

Thermostatic valve

Direct – middle



illustration image



Pack nr. 125 / white / Code: O37BFC-125
 Connection to copper pipes Ø 15 mm
 Thermostatic head / white
 Direct thermostatic valve and lockshield valve / white
 Clamping fittings for copper pipes / chrome

Pack nr. 127 / chrome / Code: O37CFC-127
 Connection to copper pipes Ø 15 mm
 Thermostatic head / chrome
 Direct thermostatic valve and lockshield valve / chrome
 Clamping fittings for copper pipes / chrome

Pack nr. 129 / INOX / Code: O37NFC-129
 Connection to copper pipes Ø 15 mm
 Thermostatic head / INOX
 Direct thermostatic valve and lockshield valve / INOX
 Clamping fittings for copper pipes / INOX

Pack nr. 126 / white / Code: O37BFA-126
 Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm
 Thermostatic head / white
 Direct thermostatic valve and lockshield valve / white
 Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 128 / chrome / Code: O37CFA-128
 Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm
 Thermostatic head / chrome
 Direct thermostatic valve and lockshield valve / chrome
 Clamping fittings for Al/PE-X, Al/PERT / chrome

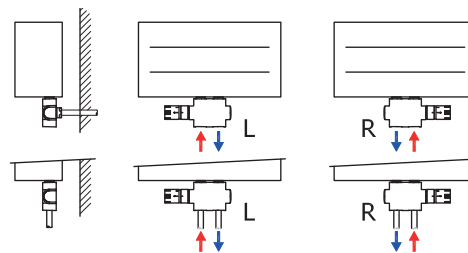
Pack nr. 130 / INOX / Code: O37NFA-130
 Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm
 Thermostatic head / INOX
 Direct thermostatic valve and lockshield valve / INOX
 Clamping fittings for Al/PE-X, Al/PERT / INOX

Thermostatic valve

Universal – middle



illustration image



Pack nr. 131L / white / left / Code: O37BUCL131
Pack nr. 131R / white / right / Code: O37BUCR131
 Connection to copper pipes Ø 15 mm
 Thermostatic head / white
 Universal centre thermostatic valve and lockshield valve / white
 Clamping fittings for copper pipes / chrome

Pack nr. 133L / chrome / left / Code: O37CUCL133
Pack nr. 133R / chrome / right / Code: O37CUCR133
 Connection to copper pipes Ø 15 mm
 Thermostatic head / chrome
 Universal centre thermostatic valve and lockshield valve / chrome
 Clamping fittings for copper pipes / chrome

Pack nr. 132L / white / left / Code: O37BUAL132
Pack nr. 132R / white / right / Code: O37BUAR132
 Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm
 Thermostatic head / white
 Universal centre thermostatic valve and lockshield valve / white
 Clamping fittings for Al/PE-X, Al/PERT / chrome

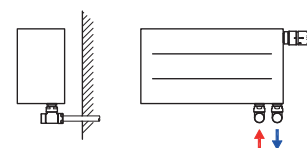
Pack nr. 134L / chrome / left / Code: O37CUAL134
Pack nr. 134R / chrome / right / Code: O37CUAR134
 Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm
 Thermostatic head / chrome
 Universal centre thermostatic valve and lockshield valve / chrome
 Clamping fittings for Al/PE-X, Al/PERT / chrome

LockShield set

corner



illustration image



Pack nr. 181 / white / Code: O37BRC-181

Connection to copper pipes Ø 15 mm

Thermostatic head / white
2 × corner lockshield valve / white
Clamping fittings for copper pipes / chrome

Pack nr. 183 / chrome / Code: O37CRC-183

Connection to copper pipes Ø 15 mm

Thermostatic head / chrome
2 × corner lockshield valve / chrome
Clamping fittings for copper pipes / chrome

Pack nr. 185 / INOX / Code: O37NRC-185

Connection to copper pipes Ø 15 mm

Thermostatic head / INOX
2 × corner lockshield valve / INOX
Clamping fittings for copper pipes / INOX

Pack nr. 182 / white / Code: O37BRA-182

Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm

Thermostatic head / white
2 × corner lockshield valve / white
Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 184 / chrome / Code: O37CRA-184

Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm

Thermostatic head / chrome
2 × corner lockshield valve / chrome
Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 186 / INOX / Code: O37NRA-186

Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm

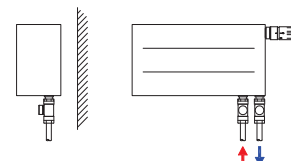
Thermostatic head / INOX
2 × corner lockshield valve / INOX
Clamping fittings for Al/PE-X, Al/PERT / INOX

LockShield set

direct



illustration image



Pack nr. 187 / white / Code: O37BPC-187

Connection to copper pipes Ø 15 mm

Thermostatic head / white
2 × direct lockshield valve / white
Clamping fittings for copper pipes / chrome

Pack nr. 189 / chrome / Code: O37CPC-189

Connection to copper pipes Ø 15 mm

Thermostatic head / chrome
2 × direct lockshield valve / chrome
Clamping fittings for copper pipes / chrome

Pack nr. 191 / INOX / Code: O37NPC-191

Connection to copper pipes Ø 15 mm

Thermostatic head / INOX
2 × direct lockshield valve / INOX
Clamping fittings for copper pipes / INOX

Pack nr. 188 / white / Code: O37BPA-188

Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm

Thermostatic head / white
2 × direct lockshield valve / white
Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 190 / chrome / Code: O37CPA-190

Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm

Thermostatic head / chrome
2 × direct lockshield valve / chrome
Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 192 / INOX / Code: O37NPA-192

Connection to Al/PE-X, Al/PERT pipes Ø 16×2 mm

Thermostatic head / INOX
2 × direct lockshield valve / INOX
Clamping fittings for Al/PE-X, Al/PERT / INOX

A separate thermostatic head



White

Code: 484111350



Chrome

Code: 484111360



INOX

Code: 484111370



Black gloss

Code: 484000920



Black matt

Code: 484000936

A thermostatic valve and fittings for the Block floor stands

Z-TD001 - Thermostatic valve for convector inlet

Parameters

- Size: DN15, NF standard
- Connecting thread: M30×1,5 mm
- Max. operating temperature 120 °C
- Max. operating pressure PN10
- Option to change pre-setting of kv-value
- kv value (m³/h) range 0.10-0.89
- kv value (m³/h) for zone 2K 0.52
- Parameters identical to the Siemens VDN215 valve



Z-TD001
direct thermostatic valve

Z-RD001 - LockShield valve connection to the convector outlet

Parameters

- Size: DN15
- Value kvs
- direct 0.30-1.80
- corner 0.30-3.00
- Max. operating temperature: 110 °C
- Max. operating overpressure: 10 bar



Z-RD001
direct screw connection

T - Speed	0,5	1	1,5	2	2,5	3	3,5	4	5	6	Max.
Kv (m ³ /h) – straight type	0,3	0,55	0,75	0,91	1,05	1,25	1,33	1,4	1,6	1,7	1,8
Kv (m ³ /h) – angled type	0,2	0,29	0,4	0,5	0,69	0,8	1	1,2	1,55	1,9	2,2

Convector Parameters

Heating medium volume

The reference heating medium volume inside the convector [l / m]

Height/Model	K21	K22, K22W	K32	K33, K33W	K43	K44, K44W	K54	K55, K55W
70 mm	1,2	1,2	1,8	1,8	2,5	2,5	3,2	3,2
140 mm	2,3	2,3	3,7	3,7	5,0	5,0	6,4	6,4
210 mm	3,5	3,5	5,5	5,5	7,6	7,6	9,6	9,6
280 mm	4,7	4,7	7,4	7,4	10,1	10,1	12,8	12,8

Weight specifications

Reference convector weight data [kg/m]

Height/Model	K21	K22	K22W	K32	K33	K33W	K43	K44	K44W	K54	K55	K55W
70 mm	6,0	7,0	9,7	9,6	10,6	13,4	13,3	14,3	17,1	17,0	18,0	20,7
140 mm	12,3	14,3	19,4	19,6	21,7	26,9	27,1	29,1	34,5	34,6	36,6	42,1
210 mm	18,5	21,6	29,3	29,6	32,7	40,6	40,9	44,0	52,0	52,1	55,2	63,1
280 mm	24,7	28,9	39,0	39,6	43,8	54,4	54,6	58,8	69,3	69,7	73,9	84,8

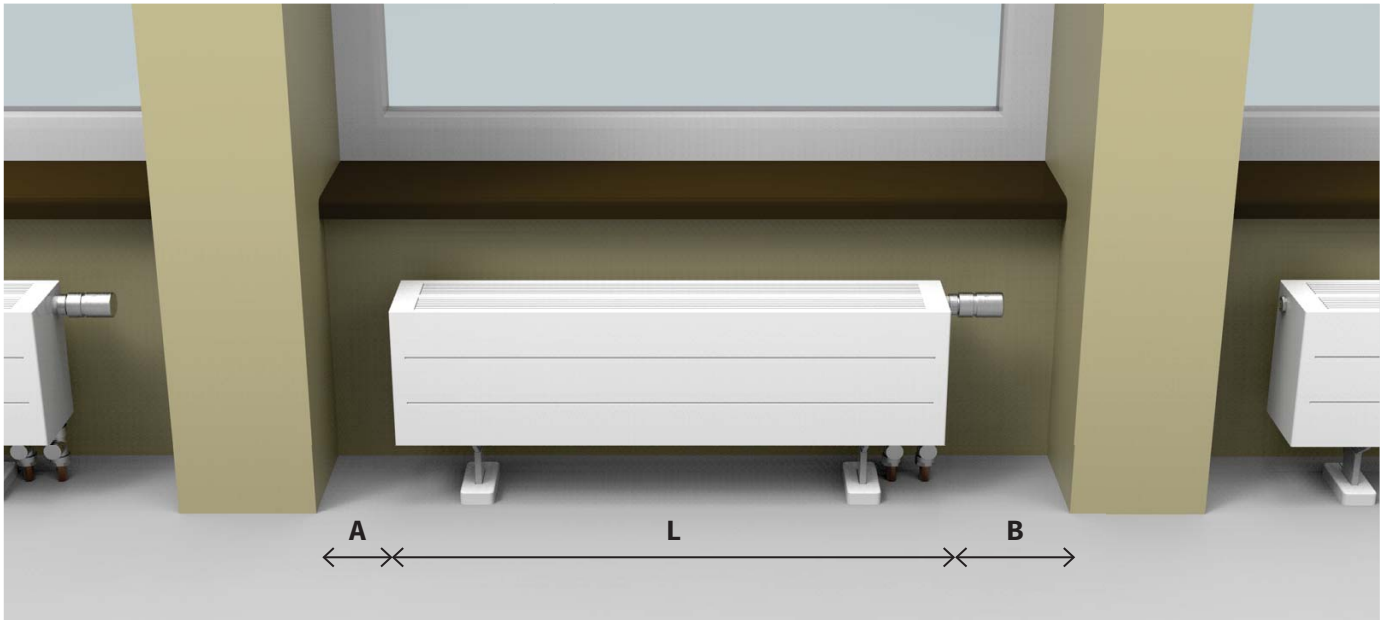
Note:

- the table applies to empty 6 bar units
- to calculate the weight of the 10 bar versions multiply the 6 bar by 1.2

Convector Design Options

Atypical lengths

In applications where the length needs to match the space in alcoves or between pillars, all convector radiators can be ordered in lengths with 1cm increments. When determining the total length of a convector, consideration must also be given to the size of the thermostatic head, connection piping and/or access to the air vent. The units are available in lengths of up to 6 meters. Measure the unit length **L** and add length **A** for access to the air vent and length **B** for convector control as shown above.



Curve

Not all interiors feature a strictly square layout. In fact, curved walls are not that uncommon when it comes to both historic and modern buildings.

The manufacturer should be consulted first about this convector option to confirm the suitability of the curved design for a particular model and the required bend radius. The curvature should match the wall whose radius rarely corresponds to design documentation. This means that an on-site measurement is a must.



Suspended convectors

Church interiors, for example, are practically impossible to heat to a comfortable temperature. Convectors suspended below church pews provide effective local heating. The concealed installation offers an optimal solution for large halls where people spend time and where it is not efficient or feasible to heat the entire space. Assembly halls, waiting rooms, train stations, corridors, airports, church buildings, presbyteries, castles...

Convectors up to 6 meters in length or in-line connection options (AB - AC combination) allow for installation from one end of the pew.



One-side in-line connection of convectors hooked to a single backbone piping.

Facade radiant convector

Windows in entrance areas and lobbies can sometimes reach up to several floors high. Heating located at ground level is consequently not sufficiently effective to heat the air throughout the height of the room. This can be readily by the installation of facade convectors at each floor level.

Individual convectors can also be connected on one side from the backbone heating water line.

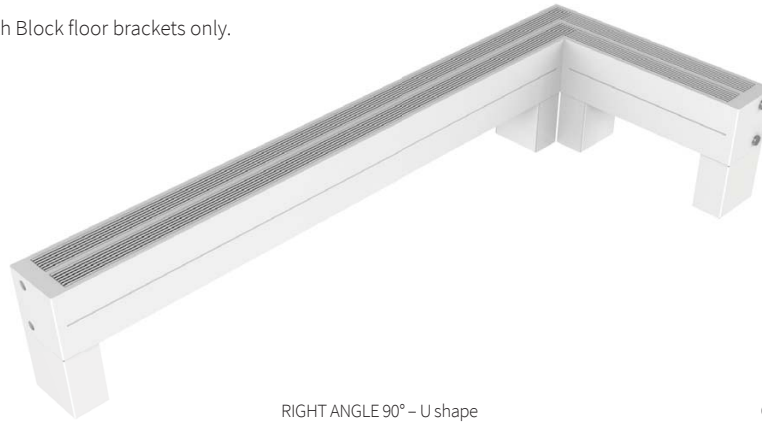
The method of anchoring can be modified based on specific project requirements.



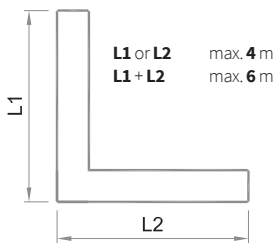
Angled radiant convector

Radiant convectors can also be installed in interiors with an irregular layout, in corners and in alcoves. Corner and angled convector radiators are suitable both for modern interiors with angled glazing and for remodeled historic buildings with numerous alcoves. Given the broad variety of convector shapes and heating system connection configurations, it is important that the right sequence of steps is followed when an order is placed, starting with the basic measurements and dimensional sketching. The customer is subsequently sent a draft drawing for approval. The approved drawing becomes a binding document for the manufacture of the angled convector radiator.

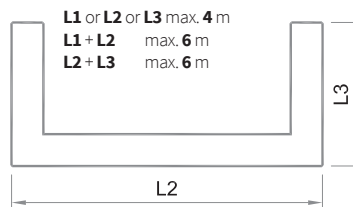
The heating units are available with Block floor brackets only.



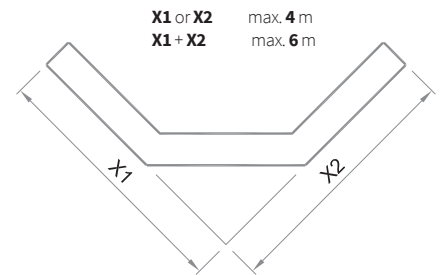
RIGHT ANGLE 90° – L shape



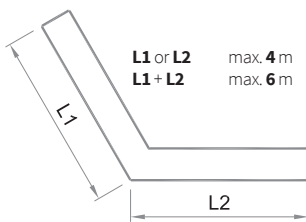
RIGHT ANGLE 90° – U shape



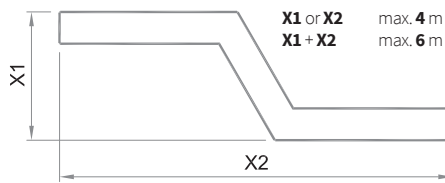
OBTUSE ANGLE – open U shape



OBTUSE ANGLE – open L shape



ANGLED – Z shape



Convectors for sanitary environments

In sanitary environments, a particular emphasis is placed on the ease of cleaning the convector surfaces. This requires an open design that facilitates the removal of dust and debris from all inner and outer surfaces of the heating unit. Convectors for sanitary environments have been modified to make this possible.

The convector comes without the top grille and the inner fin surfaces.



Reference output ΔT_{50} (75/65/20 °C) [W/m]

Height / Model	K20	K30	K40	K50
H = 70 mm	208 W	285 W	354 W	415 W
H = 140 mm	308 W	433 W	546 W	649 W
H = 210 mm	408 W	581 W	738 W	882 W
H = 280 mm	508 W	728 W	930 W	1116 W

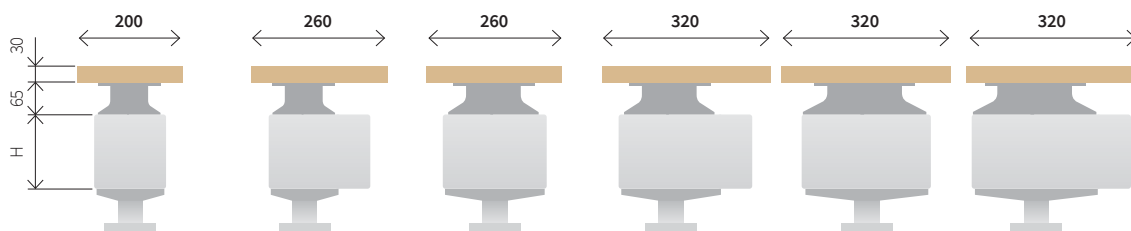
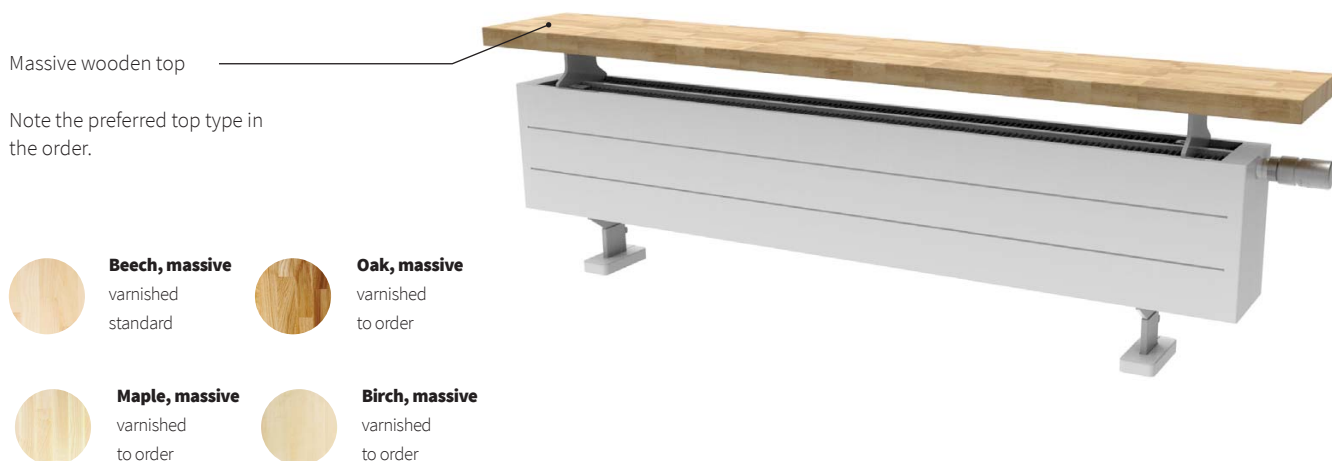
Convectors with a wooden top

A stylish wooden top turns a heating unit into a practical designer piece. It can be used as a bench, shelf or a handy countertop. Its applications include hallways, waiting rooms, auditoriums or lobbies to sit or place garments on when putting on shoes.

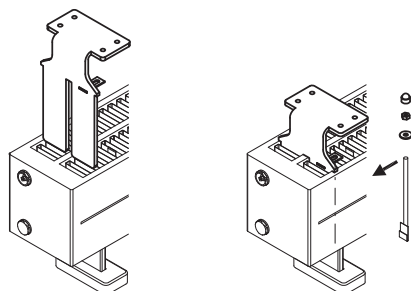
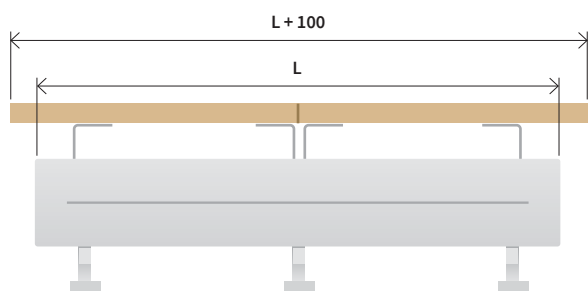
The wooden top is available for K32, K33W, K43, K44W, K54 and K55W models. Wooden top units come without the top grille.

Available wooden top designs

The top boards come in four versions made of solid wood. All tops are coated with a clear varnish. For other options, including the use of different wood or your own board, contact the ISAN Technical Department.



Standard connection	K32	K33W, K43		K44W, K54	K55W	
Middle connection	K32	K33W	K43	K44W	K54	K55W



Length L [mm]	Top [pc]	Bracket [pc]
400–2 000	1	2
>2 000–2 600	1	3*
>2 600–4000	2	4
>4 000–5 300	2	6
>5 300–6 000	3	6

* K54, K55W in the range >2 000-2 600 mm there are 2 wooden tops and 4 brackets

Complementary products

If you want original heating units in your home, try designing your own thick-walled steel radiators. Thanks to the manual manufacture of EXACT convectors, we are able to offer a variety of alternatives to our products. Given their increased size, these heating units are regarded as radiators.

To differentiate them from standard products, all modified models are identified with the letter F (K convectors). If you are interested in any of these products, we will be happy to provide you with more details.

Horizontal radiators with heat transfer fins

A robust designer piece that provides an alternative to commercially produced heating units.

Lamellar radiators are essentially higher convectors with modified wall mounting hardware. They are compatible with most types of connection to the heating system, just like standard convectors. The radiator height can be adjusted in 70 mm increments and their length in steps of 1 cm. The products are available in a wide range of shades as per the ISAN colour coding or the basic RAL colour chart.



Top views

F11H



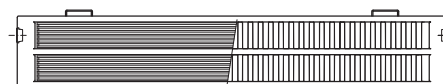
F22H



F21H



F32H



Model	Height	Width	Length	No. of radiant surfaces	No. of convection surfaces
F11H	280, 420, 560, 700 mm	50 mm*	400-3000 mm **	1	1
F21H	280, 420, 560, 700 mm	72 mm	400-3000 mm **	2	1
F22H	280, 420, 560, 700 mm	133 mm	400-3000 mm **	2	2
F32H	280, 420, 560, 700 mm	133 mm	400-3000 mm **	3	2

* VR, VL valve connection, depth 61 mm

** The maximum length is limited by the unit's weight of 150 kg

Horizontal radiators without fins

Light-weight radiant heating units

“Maximum” output is not always the most important aspect of a radiator. At a time when low-energy or passive homes are on the rise, there are tangible benefits in opting for large radiant units that look great at the same time.

The available range of sizes works well for heating both small and large rooms where the radiant component is essential to ensuring a comfortable environment inside. Larger heating units are more suitable for low thermal gradients.

Suitable for:

- family houses and apartments
- foyers and large halls
- auditoriums, lecture halls
- theatres, historic buildings

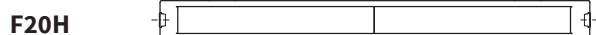
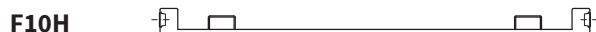


... sanitary environments

Buildings where strict hygiene requirements are a concern can be equipped with F10H and F20H units without top grilles. These units provide easy access to all inner and outer surfaces for thorough cleaning.

Suitable for:

- hospitals, hospices
- areas with stricter sanitary requirements
- schools, preschools
- auditoriums, lecture halls
- theatres, historic buildings



Model	Height	Width	Length	No. of radiant surfaces	No. of convection surfaces
F10H	280, 420, 560, 700 mm	50 mm (61 mm*)	400-3000 mm	1	0
F20H	280, 420, 560, 700 mm	72 mm	400-3000 mm	2	0

* depth 61 mm in models with VL, VR connection

Vertical radiators without fins

Turning standard design radiators upright gives the lamellar units an entirely new appearance.

Vertically mounted heating units will bring elegance to any interior. With the width starting at 280 mm and the height ranging up to 3000 mm, they can be customized to fit any project. The F10L model features a full size mirror with a perimeter bevel.

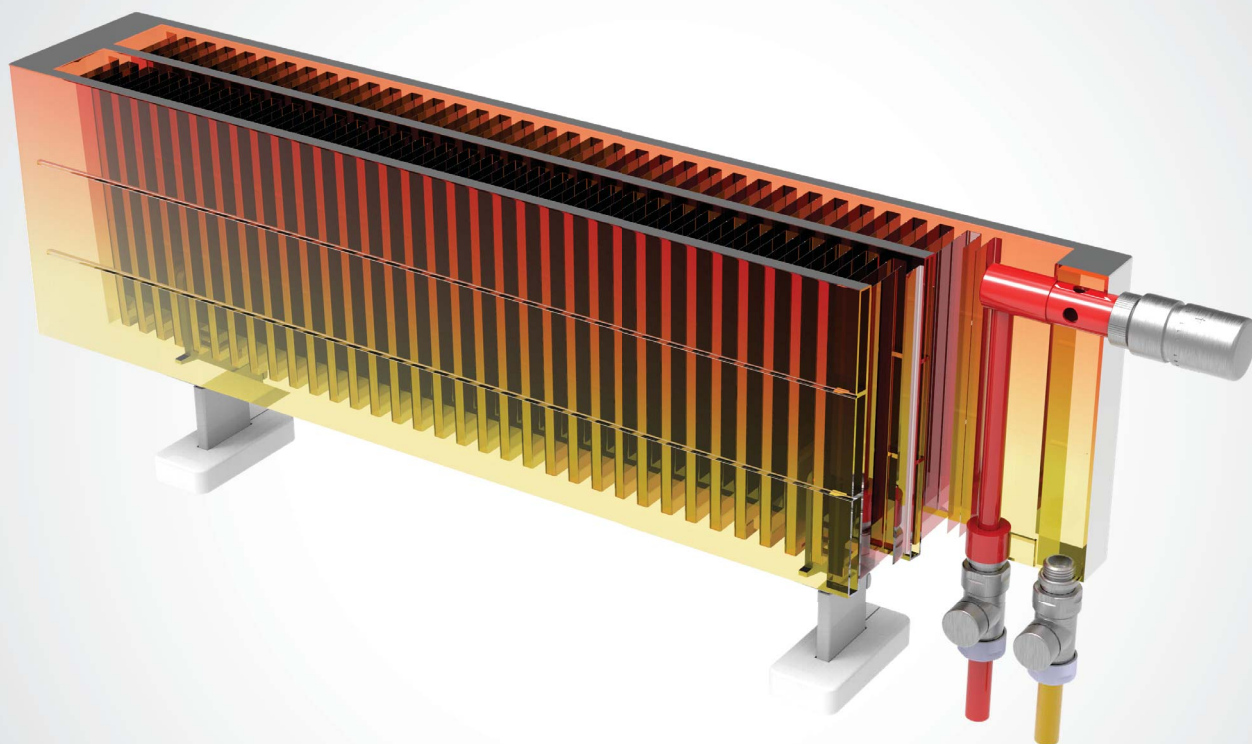
The F10L radiator comes with a practical hook and the mirror fixtures can also be used for hanging various items. It is a practical unit that is ideal for hallways and entrance areas.

While the F10 and F10L models have a sheet metal cover on the side, the F20V is fitted with a side grille.



Model	Height	Width	Length	No. of radiant surfaces	No. of convection surfaces
F10V	400-2000 mm	50 mm	280, 420, 560, 700 mm	1	0
F10L	1600, 1800 mm	50 mm	560, 700 mm	1	0
F20V	400-3000 mm	72 mm	280, 420, 560, 700 mm	2	0

Exact Convector Technical Drawings



34-39

Convector drawings and connections

AB, CD, AD, CB, BD, DB, AC, CA, EF, FE

CONNECTION OPTIONS p. 34

VR, VL CONNECTION OPTIONS p. 35

SM, MS CONNECTION OPTIONS p. 36

SR, ML CONNECTION OPTIONS p. 37

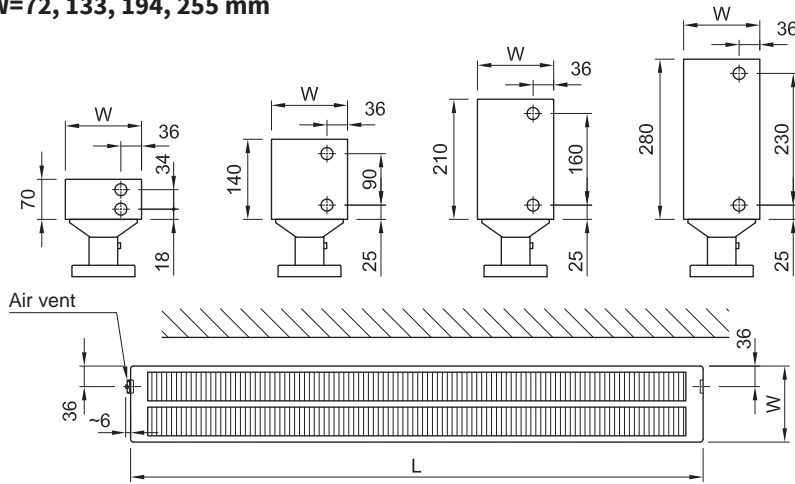
BLOCK FLOOR BRACKETS

EE, FF CONNECTION OPTIONS p. 38

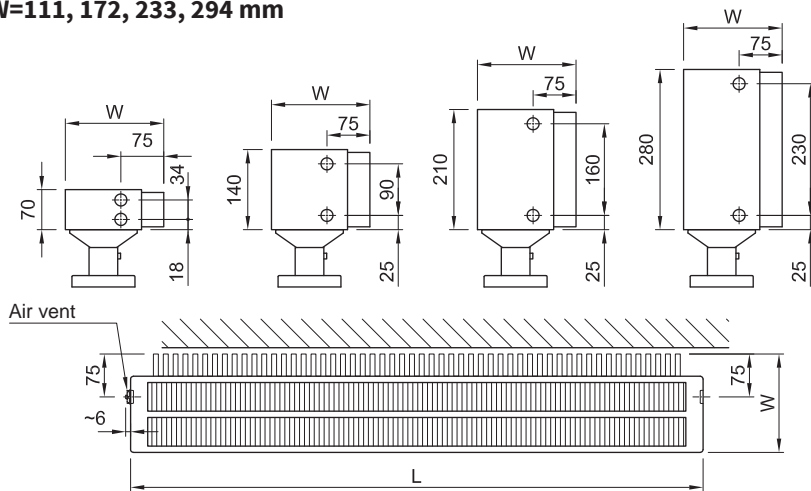
EF, FE CONNECTION OPTIONS p. 39

AB, CD, AD, CB, BD, DB, AC, CA, EF, FE connection options

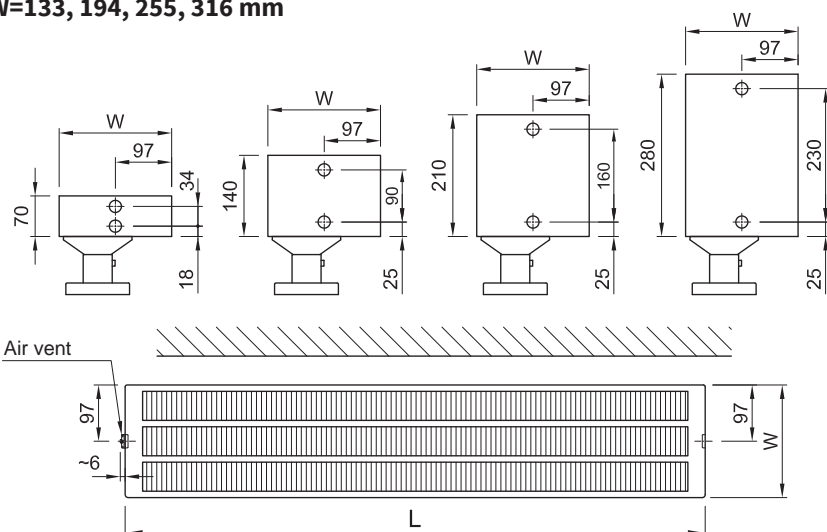
K21, K32, K43, K54
W=72, 133, 194, 255 mm



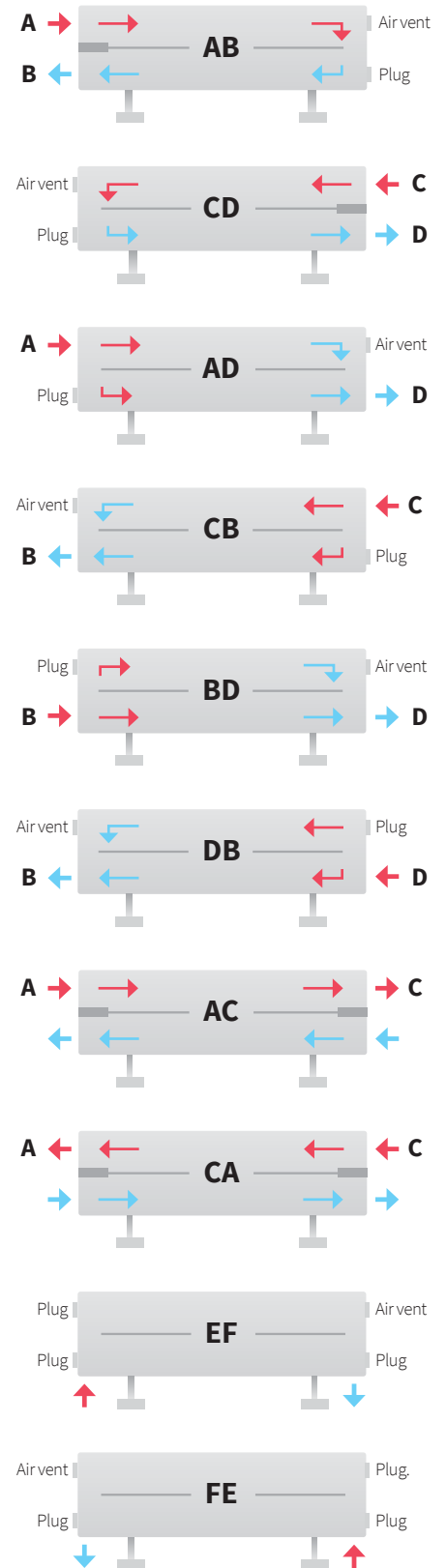
K22, K33, K44, K55
W=111, 172, 233, 294 mm



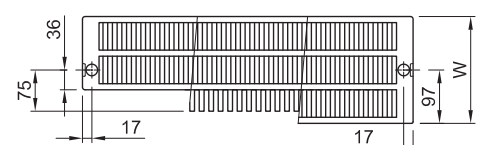
K22W, K33W, K44W, K55W
W=133, 194, 255, 316 mm



Heating system connection



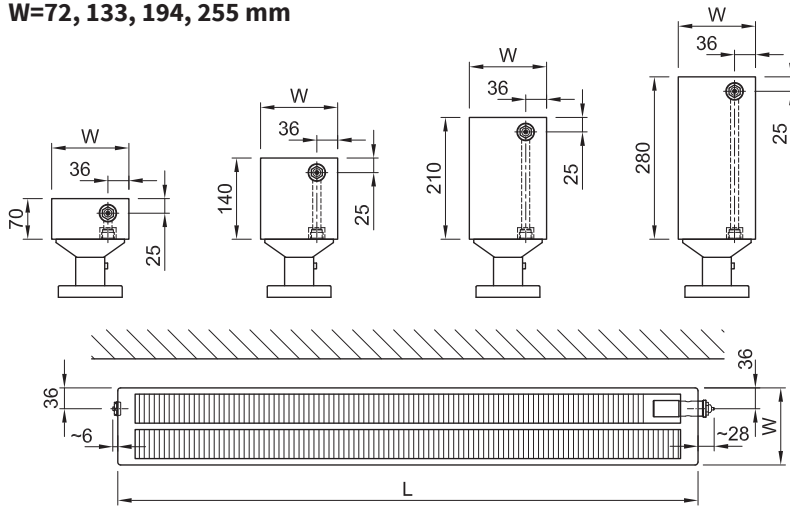
EF, FE connection – bottom view



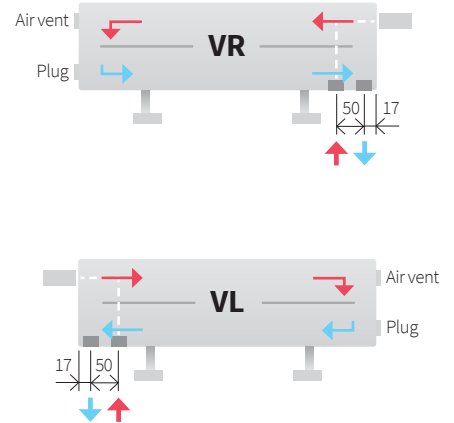
VR, VL connection options

K21, K32, K43, K54

W=72, 133, 194, 255 mm

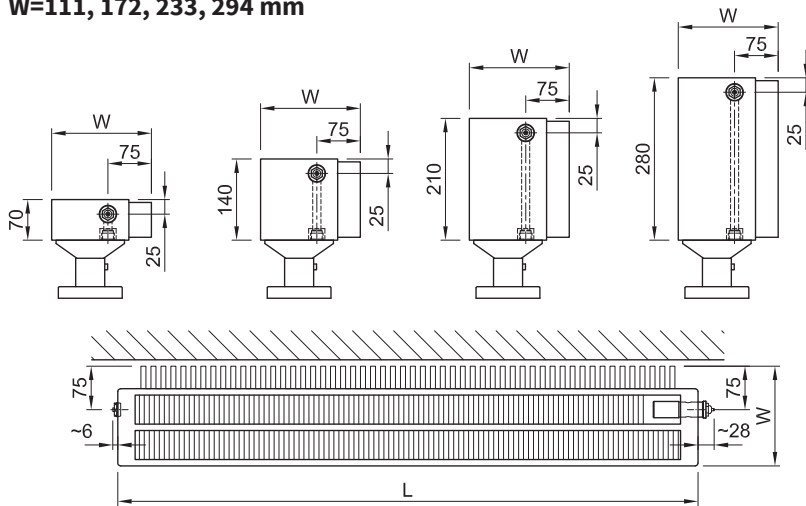


Heating system connection

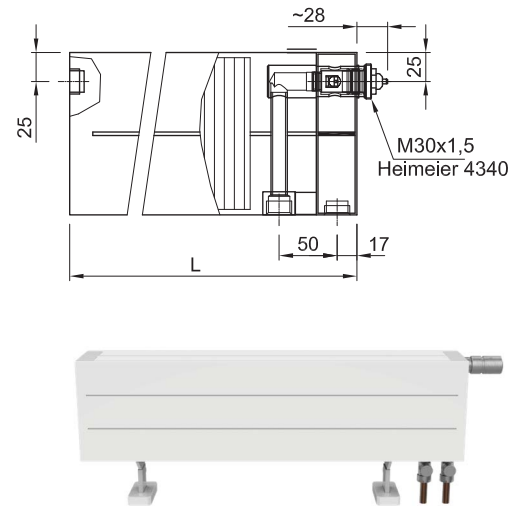


K22, K33, K44, K55

W=111, 172, 233, 294 mm

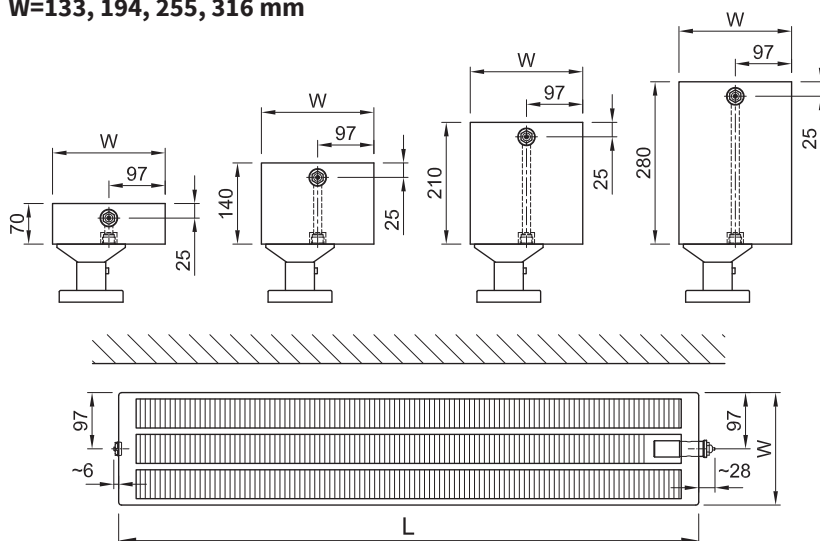


VR connection - detail

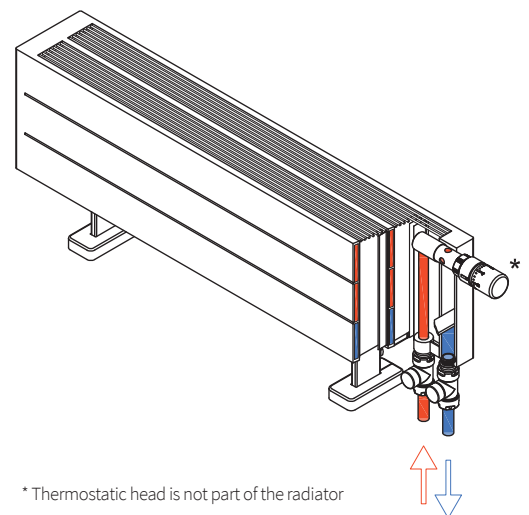


K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



Operating principle

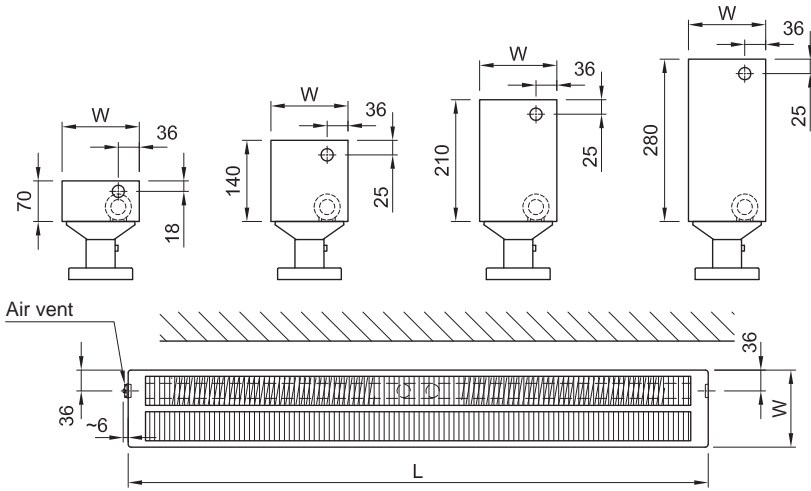


* Thermostatic head is not part of the radiator

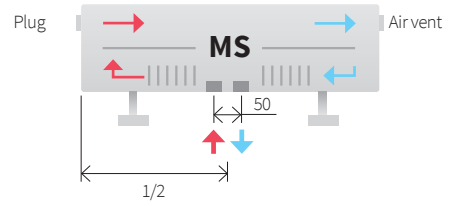
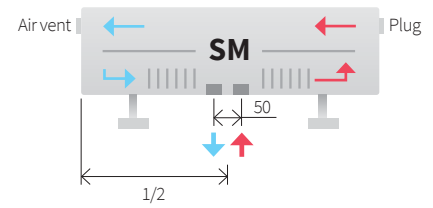
SM, MS connection options

K21, K32, K43, K54

W=72, 133, 194, 255 mm

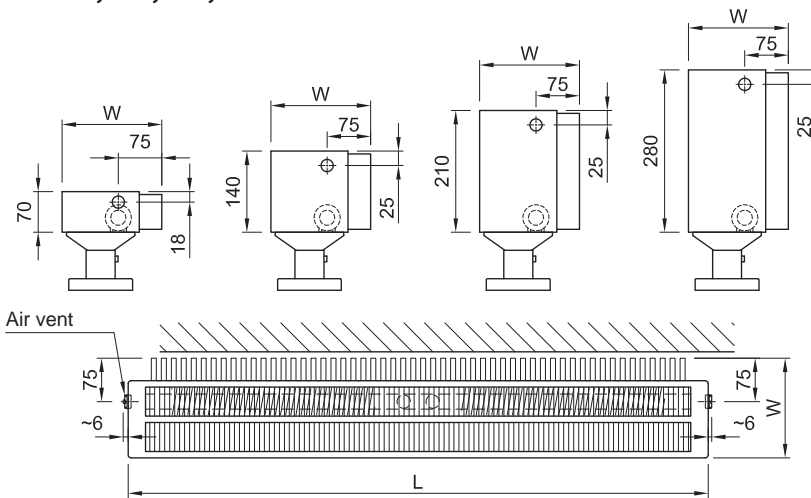


Heating system connection



K22, K33, K44, K55

W=111, 172, 233, 294 mm

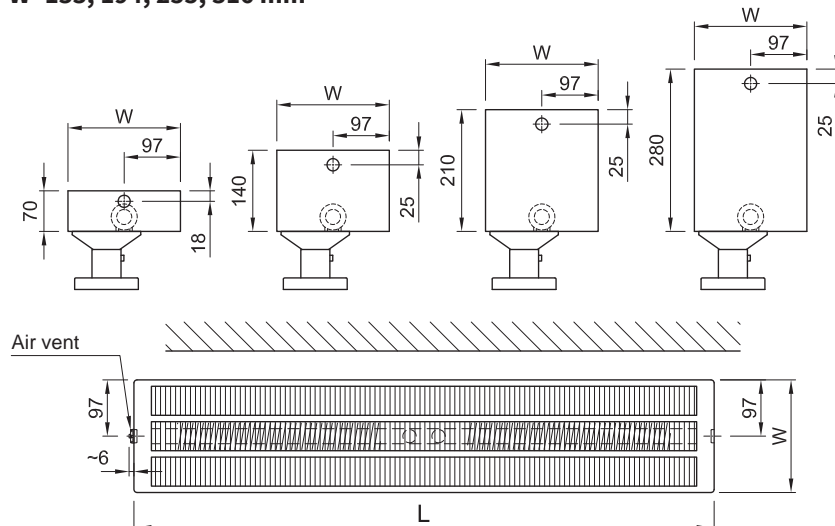


Front view of the convector

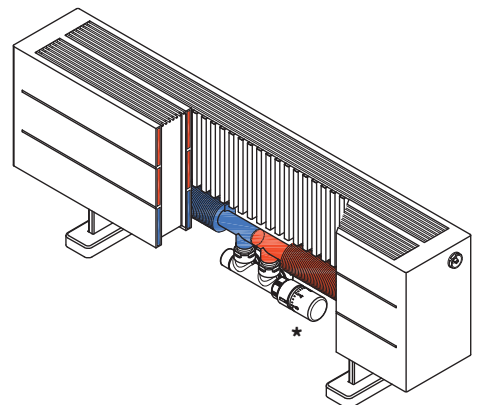


K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



Operating principle

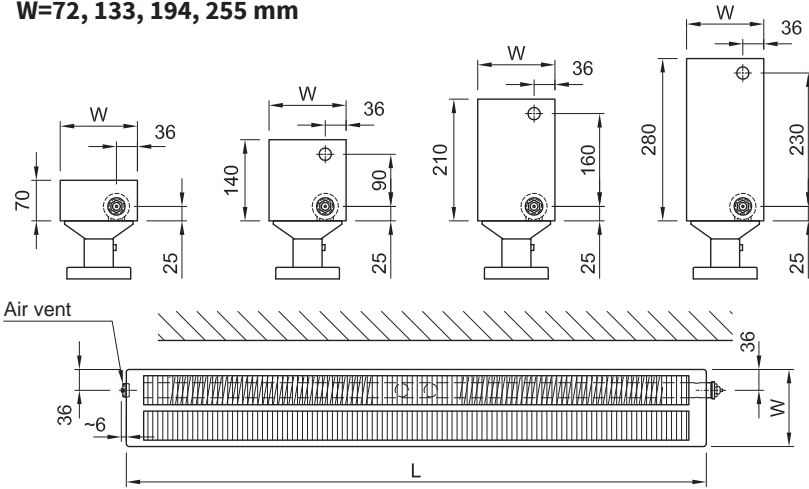


* The thermostatic head must be ordered separately

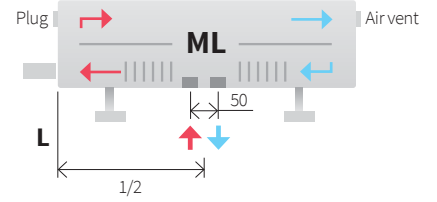
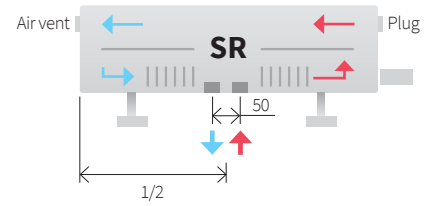
SR, ML connection options

K21, K32, K43, K54

W=72, 133, 194, 255 mm

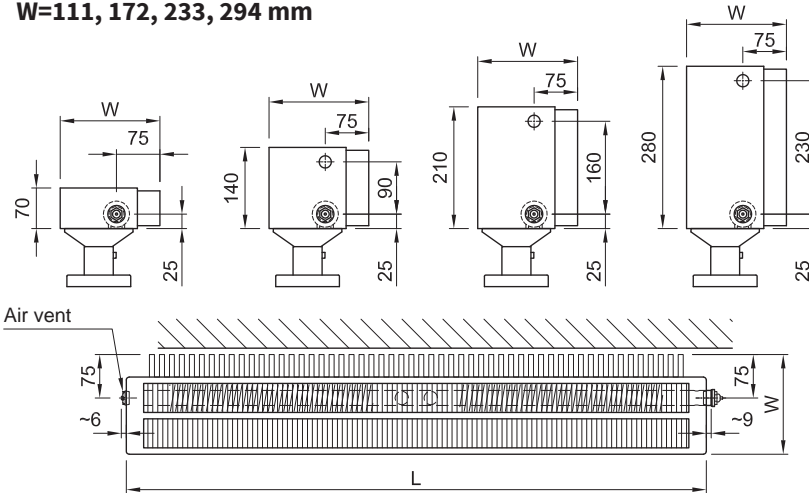


Heating system connection



K22, K33, K44, K55

W=111, 172, 233, 294 mm

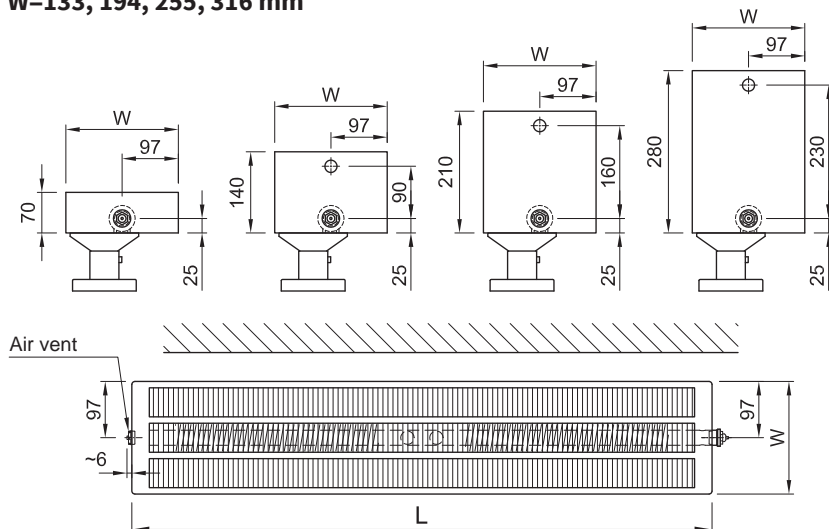


Front view of the convector

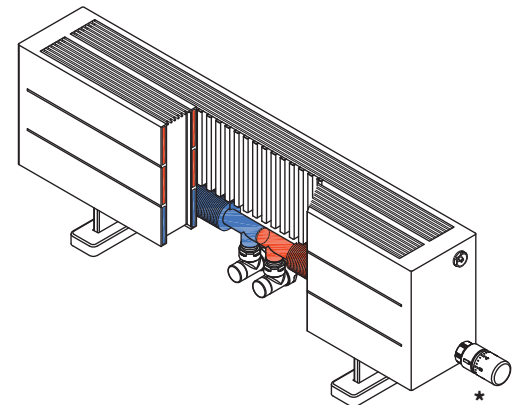


K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



Operating principle

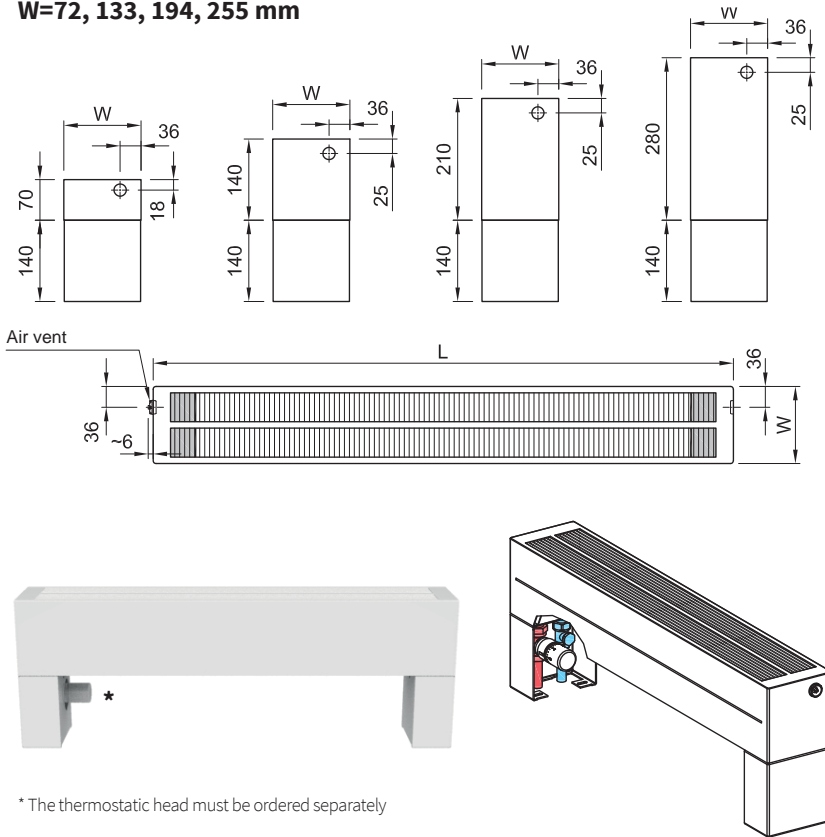


* The thermostatic head must be ordered separately

EE, FF connection options - Block floor brackets

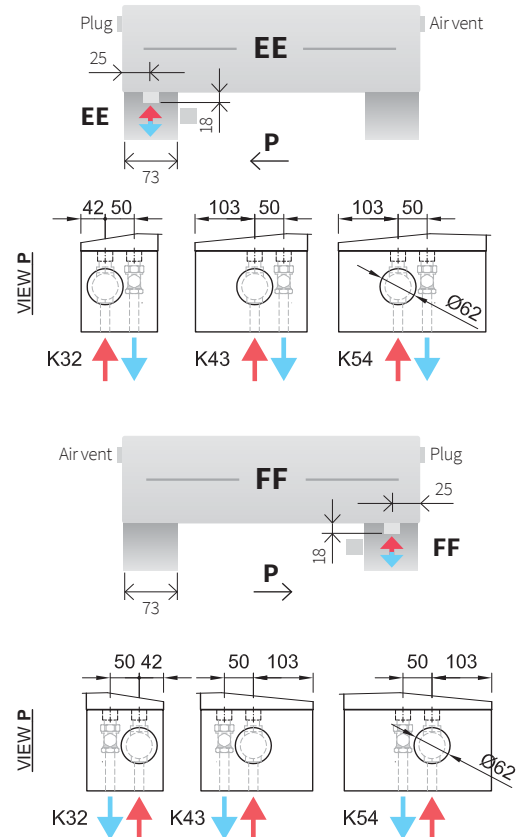
K32, K43, K54

W=72, 133, 255 mm



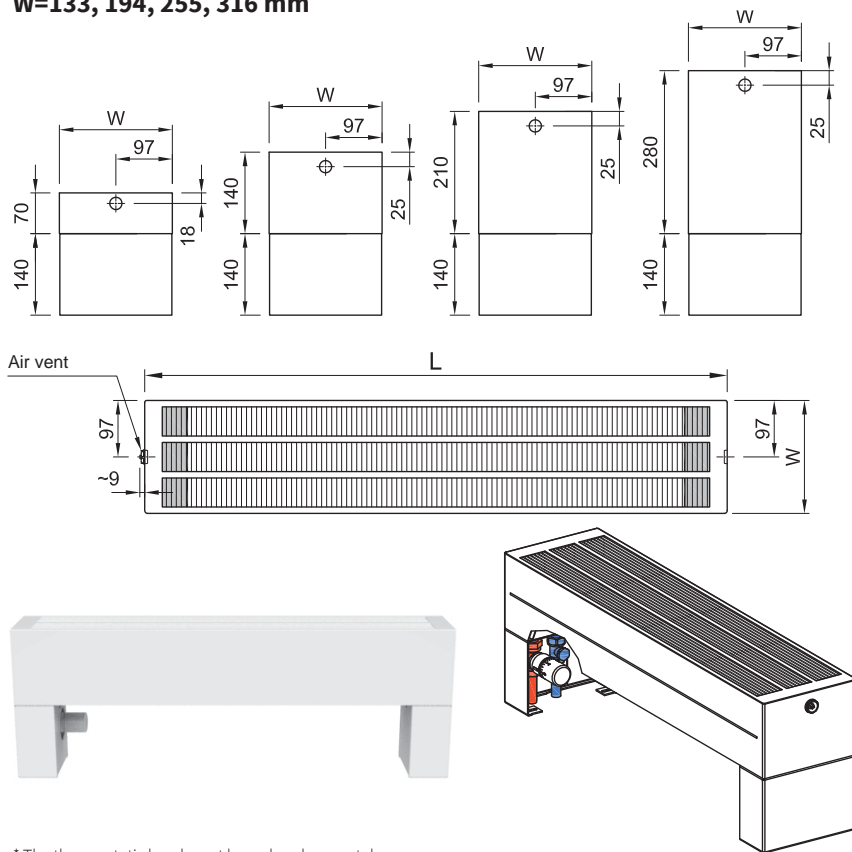
* The thermostatic head must be ordered separately

Heating system connection



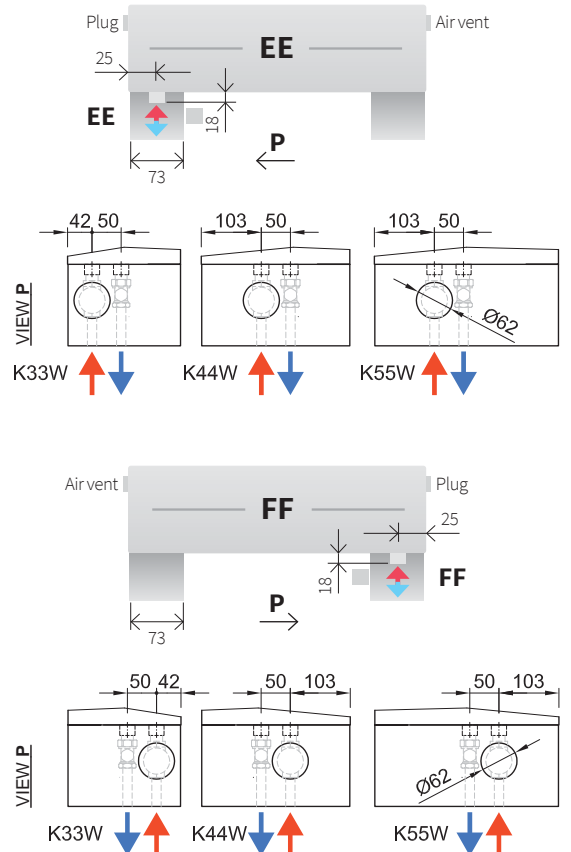
K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



* The thermostatic head must be ordered separately

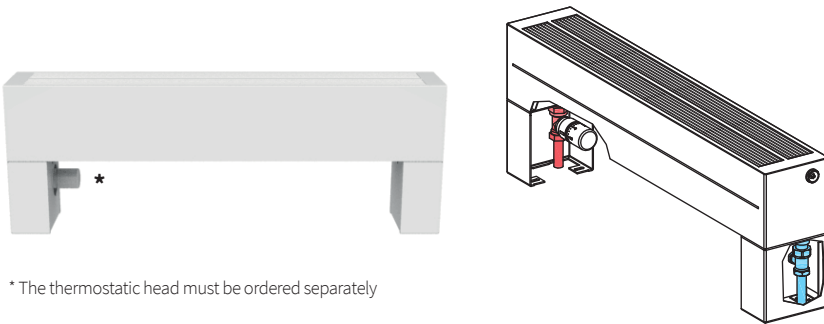
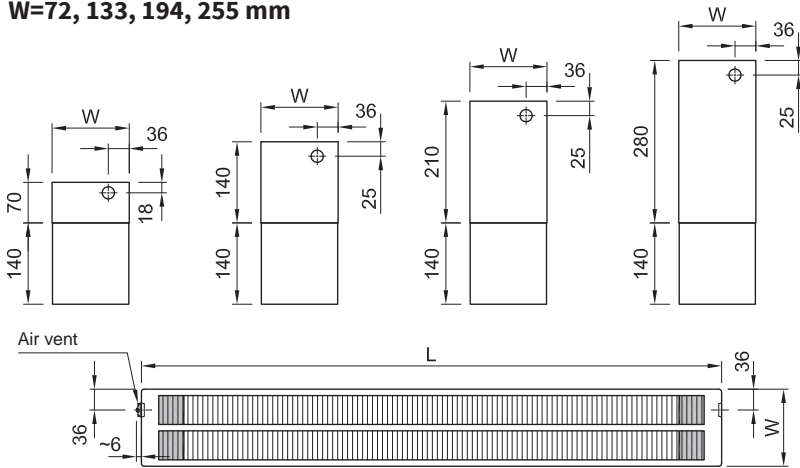
Heating system connection



EE, FF connection options - Block floor brackets

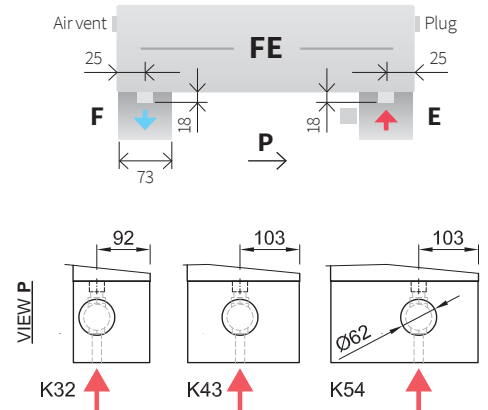
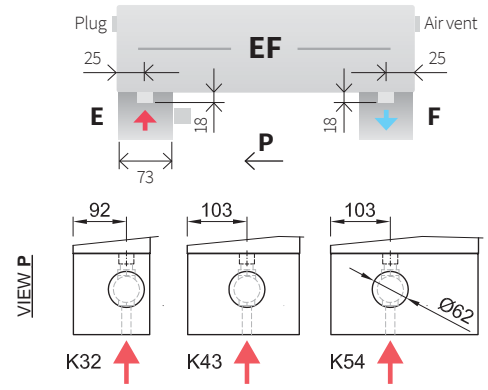
K32, K43, K54

W=72, 133, 255 mm



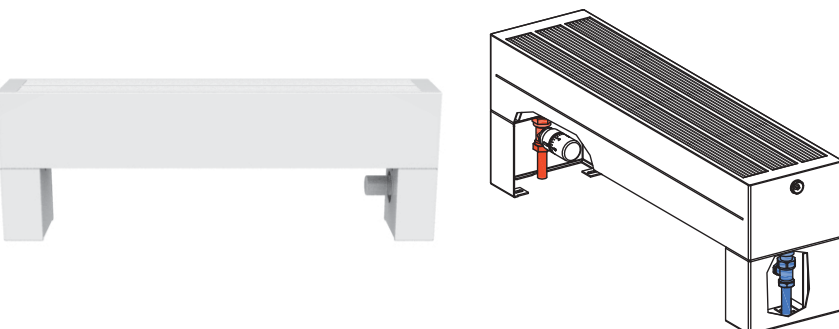
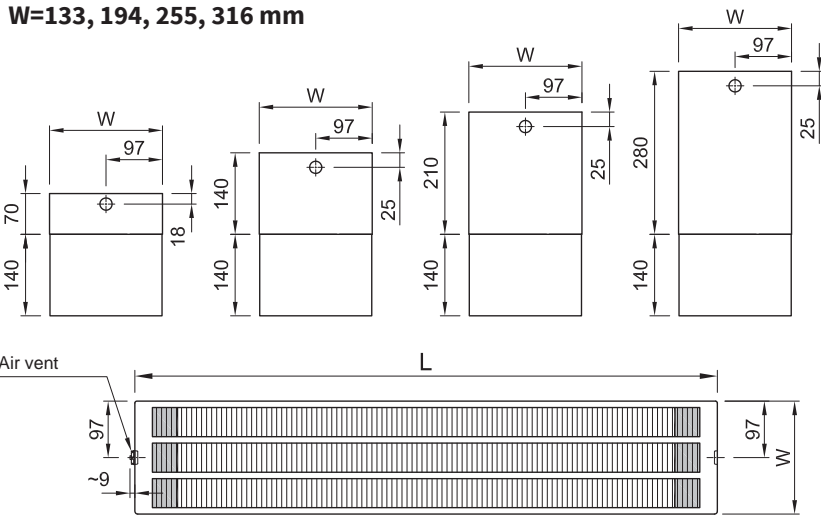
* The thermostatic head must be ordered separately

Heating system connection

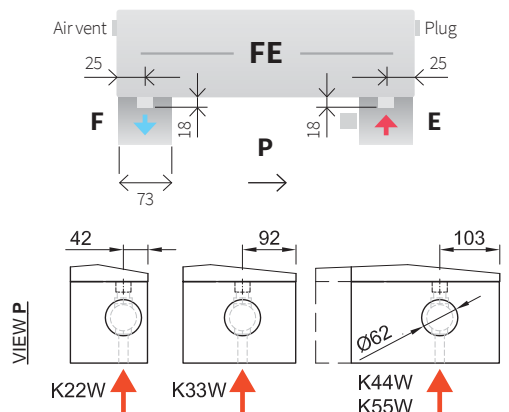
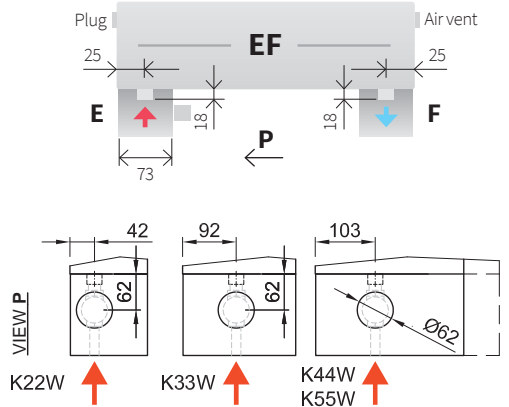


K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm




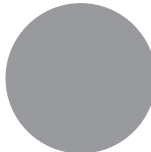
Heating system connection



Colour Reference Chart

	colour series RAL 9016 shade snow-white finish - extra charge - order code 01		colour series S09 shade snow-white finish texture extra charge 20 % order code 68		colour series RAL 9001 shade ivory finish - extra charge 20 % order code 04
	colour series S31 shade champagne finish metallic extra charge 20 % order code 25		colour series RAL 9018 shade papyrus finish - extra charge 20 % order code 14		colour series S08 shade ivory finish texture extra charge 20 % order code 67
	colour series S27 shade khaki finish texture extra charge 20 % order code 21		colour series S36 shade antique gold finish metallic extra charge 20 % order code 48		colour series S32 shade pink coral finish texture extra charge 20 % order code 26
	colour series RAL 3002 shade fiery red finish - extra charge 20 % order code 08		colour series S34 shade ruby finish - extra charge 20 % order code 28		colour series S13 shade sandstone finish texture extra charge 20 % order code 72
	colour series S28 shade gold olive finish texture extra charge 20 % order code 22		colour series RAL 6021 shade linden green finish - extra charge 20 % order code 06		colour series S29 shade aquamarine finish metallic extra charge 20 % order code 23
	colour series RAL 5014 shade pigeon blue finish - extra charge 20 % order code 07		colour series S30 shade sapphire finish texture extra charge 20 % order code 24		colour series S33 shade lava ash finish texture extra charge 20 % order code 27
	colour series S03 shade copper finish metallic extra charge 20 % order code 62		colour series S19 shade brass finish metallic extra charge 20 % order code 83		colour series S38 shade dark grey finish texture extra charge 20 % order code 50
	colour series S05 shade silver finish metallic extra charge 20 % order code 64		colour series S37 shade light grey finish texture extra charge 20 % order code 49		colour series S02 shade anthracite finish metallic extra charge 20 % order code 61
	colour series S35 shade cinnamon finish texture extra charge 20 % order code 29		colour series S10 shade slate finish texture extra charge 20 % order code 69		colour series RAL 9005 shade black finish - extra charge 20 % order code 19
	colour series S40 shade black velvet finish mat extra charge 20 % order code 51				

Special treatment

	colour series S41 shade RAL 9016 finish antibacterial* extra charge 20 % order code 88		colour series S20 shade transparent paint finish transparent paint extra charge 20 % order code 84
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RAL surcharge

Other K7 CLASSIC chart colours 30 %
Metallic and neon colours, over 10 pc individual calculation

*A silver-ion antibacterial finish provides protection against a wide range of bacteria and fungi.

The printed version of the colour chart is for reference only and does not correspond to the actual surface treatment shades.

Coding

1-4				5-8				9-12				13-14		15-16		17	18-19		20	
K	2	2	W	0	2	1	0	1	6	5	0	A	B	F	1	D	0	1	T	
PRODUCT				HEIGHT				LENGTH				CONNECTION		SUPPORT		GRILLE		COLOUR		ATYPICAL/ STANDARD

The K22W radiant convector, with two radiant and two convection heat-transfer surfaces and a window shield to prevent heat escaping through the window, convector height 210 mm, atypical length 1,650 mm, one-sided AB connection on the unit's left side, stands Subtle, grille with rectangular holes, snow white RAL9016, atypical design for operating overpressure of 10 bar (1.0 MPa).

1-4 PRODUCT	K21-	convector depth 72 mm, 2× radiant surface, 1× finned heat-transfer surface
	K32-	convector depth 133 mm, 3× radiant surface, 2× finned heat-transfer surface
	K43-	convector depth 194 mm, 4× radiant surface, 3× finned heat-transfer surface
	K54-	convector depth 255 mm, 5× radiant surface, 4× finned heat-transfer surface
	K22-	convector depth 111 mm, 2× radiant surface, 2× finned heat-transfer surface
	K33-	convector depth 172 mm, 3× radiant surface, 3× finned heat-transfer surface
	K44-	convector depth 233 mm, 4× radiant surface, 4× finned heat-transfer surface
	K55-	convector depth 294 mm, 5× radiant surface, 5× finned heat-transfer surface
	K22W	convector depth 133 mm, 2× radiant surface, 2× finned heat-transfer surface, window shield
	K33W	convector depth 194 mm, 3× radiant surface, 3× finned heat-transfer surface, window shield
	K44W	convector depth 255 mm, 4× radiant surface, 4× finned heat-transfer surface, window shield
K55W	convector depth 316 mm, 5× radiant surface, 5× finned heat-transfer surface, window shield	
5-8 HEIGHT [mm]	70	0070
	140	0140
	210	0210
	280	0280
9-12 LENGTH [mm]	400 - 2000 in step 100 mm	0400, 0500, 0600, 0700, 0800, 0900, 1000, 1100,2000
	2200 - 6000 in step 200 mm	2200, 2400, 2600, 2800, 3000, 3200, 3300, 6000
13-14 CONNECTION	AB	one-sided (left)
	CD	one-sided (right)
	AD	diagonal (inlet on the left)
	CB	diagonal (inlet on the right)
	BD	bottom continuous (inlet on the left)
	DB	bottom continuous (inlet on the right)
	AC	continuous (inlet on the left)
	CA	continuous (inlet on the right)
	EF	bottom (inlet on the left)
	FE	bottom (inlet on the right)
	MS	middle (inlet on the left)
	SM	middle (inlet on the right)
	VL	with the thermostatic valve on the left
	VR	with the thermostatic valve on the right
	ML	middle with the thermostatic valve on the left
	SR	middle with the thermostatic valve on the right
	EE	bottom one-sided in-line, left (the Block floor brackets version only)
	FF	bottom one-sided in-line, right (the Block floor brackets version only)
15-16 SUPPORT	F1	flat floor stands – Subtle
	F4	double flooring floor stands Tall
	W1	wall brackets – Subtle
	S1	floor stands – Block
	R1	fixed low stand Rigid R1, the stands meet the criteria of the VDI 6036 Class 3
	R2	adjustable stand Rigid R2, the stands meet the criteria of the VDI 6036 Class 3
	R3	high double flooring stand Rigid R3, the stands meet the criteria of the VDI 6036 Class 3

17 GRILLE	-	no grille (standard)
	L	linear grille
	D	grille with rectangular holes
	V	perforated sheet metal grille
18-19 COLOUR	01	standard Snow White RAL 9016 (see the ISAN chart on p. 40)
	99	colour different than the ISAN chart
	structured colours	
	metallic colours	
	colours as per RAL colour chart	
20 ATYP	-	standard design without modifications
	N	atypical design, to be specified in the note after the product code (e.g. length 1265 mm)
	X	design 1.0 MPa (10 bar)
	T	design 1.0 MPa (10 bar) + atypical convector design



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