

The ISan logo is positioned in the top right corner of the advertisement. It consists of the word "ISan" in a bold, blue, sans-serif font. A stylized blue "S" character is integrated into the letter "I", and a blue horizontal line extends from the end of the "S" across the rest of the word.

ISan

EXACT

A photograph of a modern interior space, likely a hallway or lounge area. The ceiling is made of light-colored wooden slats. Long, thin, rectangular pendant lights hang from the ceiling. The floor is covered in a grey carpet with a geometric herringbone pattern. On the right side, there's a long, dark, low-profile radiator. Large windows with dark frames and horizontal blinds are on the right wall, showing a view of greenery outside. In the background, there are a few pieces of furniture: a dark armchair, a white armchair with a small white plant on a stand, and a small white side table. The overall aesthetic is clean, modern, and minimalist.

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 Radiátor s.r.o. has been involved in the development and manufacture of convectors for over 17 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 Radiátor s.r.o. specialises in the manufacture of custom-made radiators according to customer requirements and specifications.

Warmth that will adapt ...

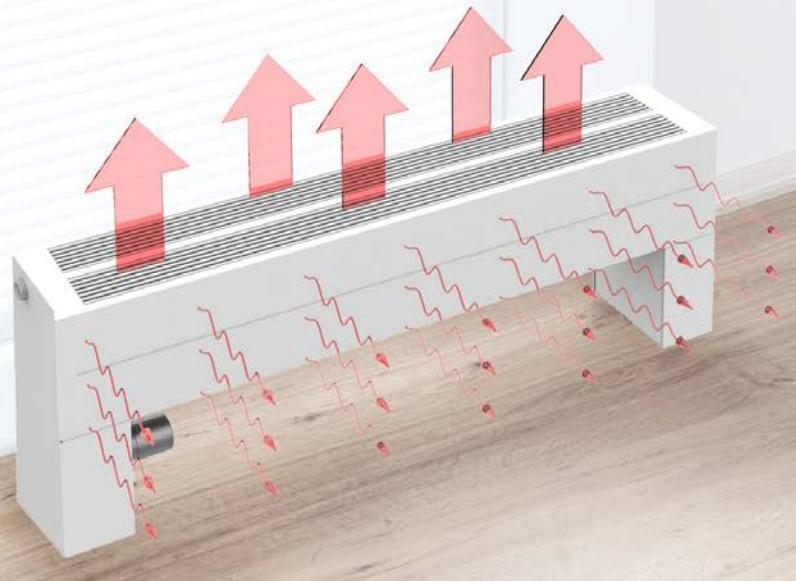


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Exact

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 screen (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.

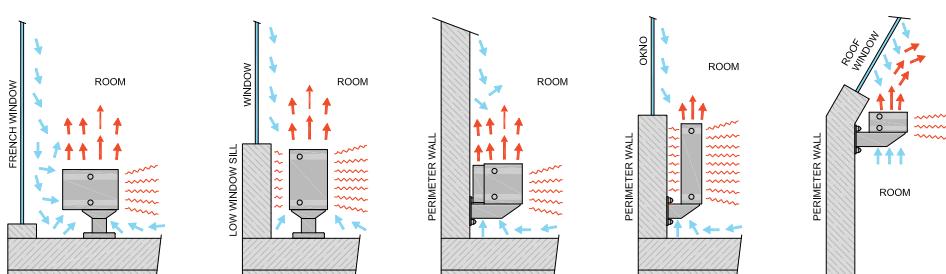
Convector and lamellar radiators are designed for use within heating systems in both individual houses and buildings with multiple units that rely solely on heating (treated) water supplied via forced circulation.

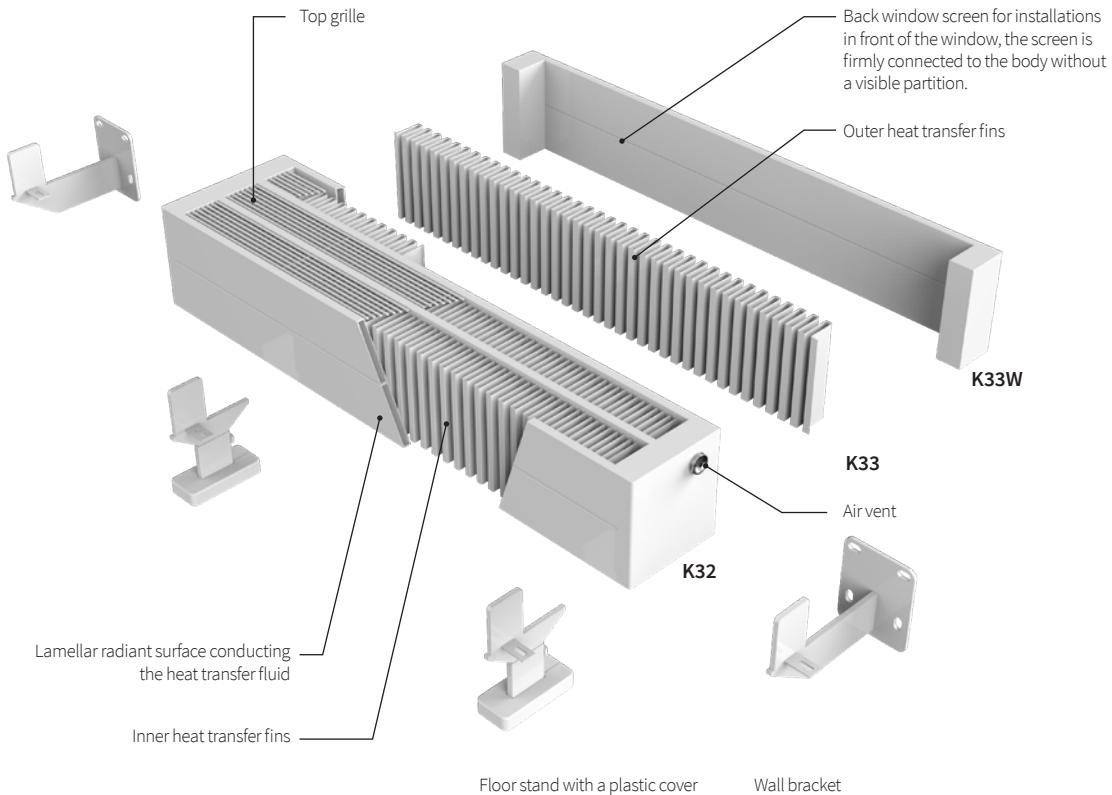
Heat output

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).

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

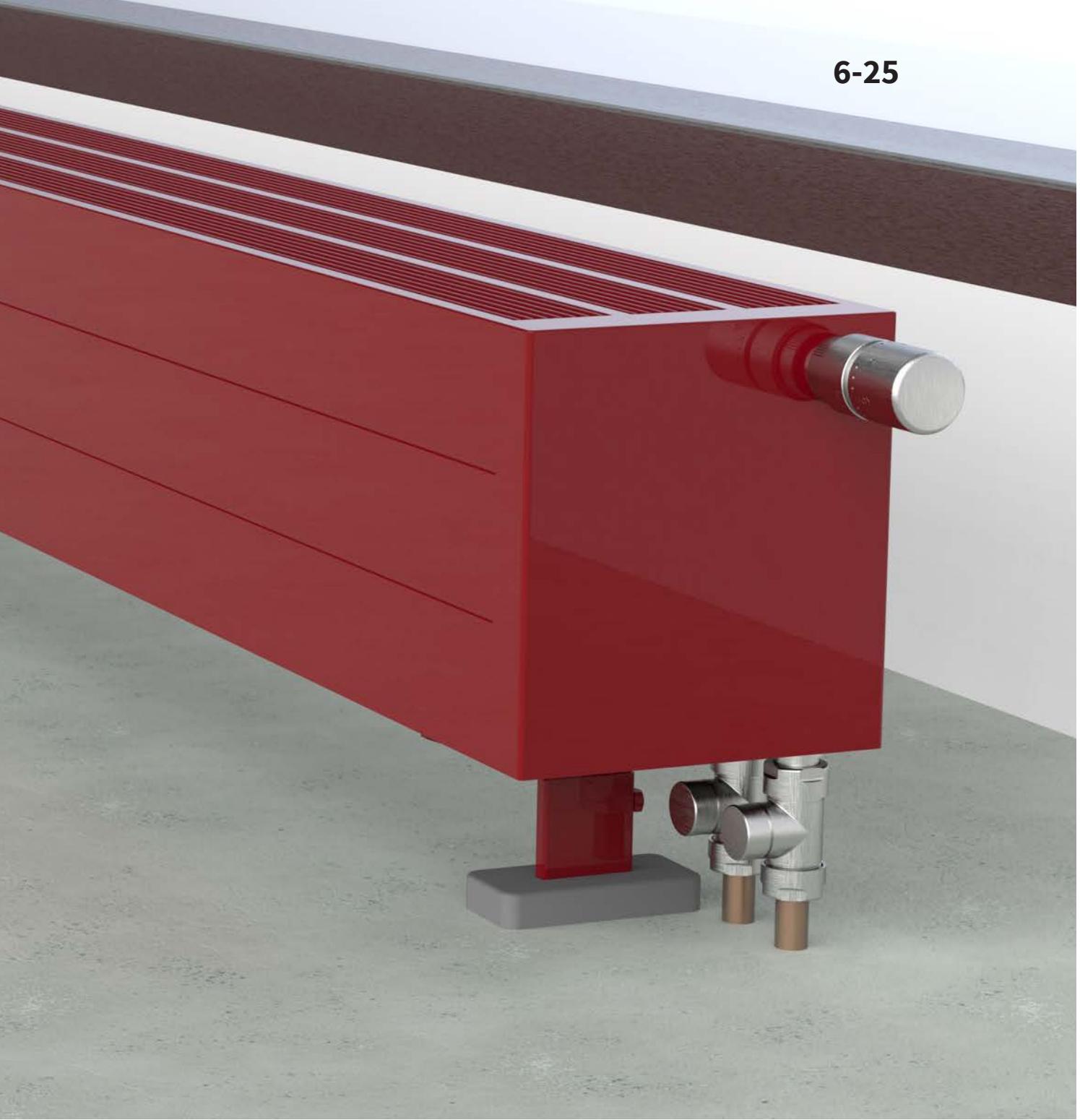
Alternative connection options

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



Radiant convector

6-25



K21 / K22 / K22W

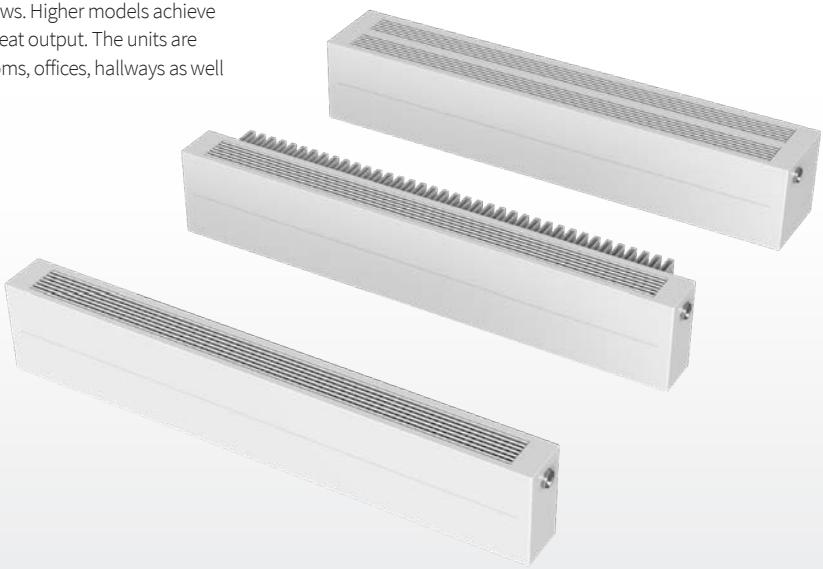
Narrow convectors can both warm up and provide radiant heat to a space. The 70 mm high units can be used as part of façade heating systems or built into church pews. Higher models achieve an optimal radiation-convection ratio, while ensuring an adequate heat output. The units are inconspicuous, aesthetic 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	4x G1/2"

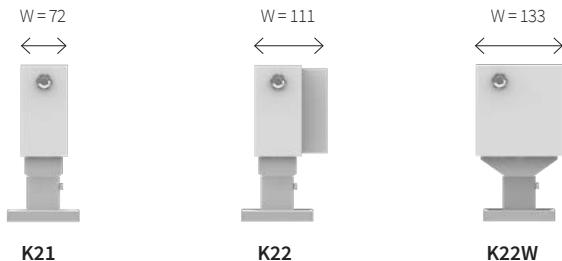
Operating conditions

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]



K21
2 radiant surfaces
1x fin surface

K22
2 radiant surfaces
2x fin surface

K22W
2 radiant surfaces
2x fin surface
window screen W

Convector height H [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 (695 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	– standard design
K22-	0140	0500	AD, CB	diagonal	F4	floor Tall	N atypical design
K22W	0210	...	EF, FE	bottom	S1	floor Block	X design 1 MPa (10 bar)
	0280	2000	SM, MS	middle	W1	wall Subtle	
		2200 (in step 200)	VL, VR	with valve			
		2400	SR, ML	middle with valve			
		...		For additional types see p. 20			
		6000					

► connection options → 20

● connection fittings → 22

◎ accessories → 25

technical data → 32

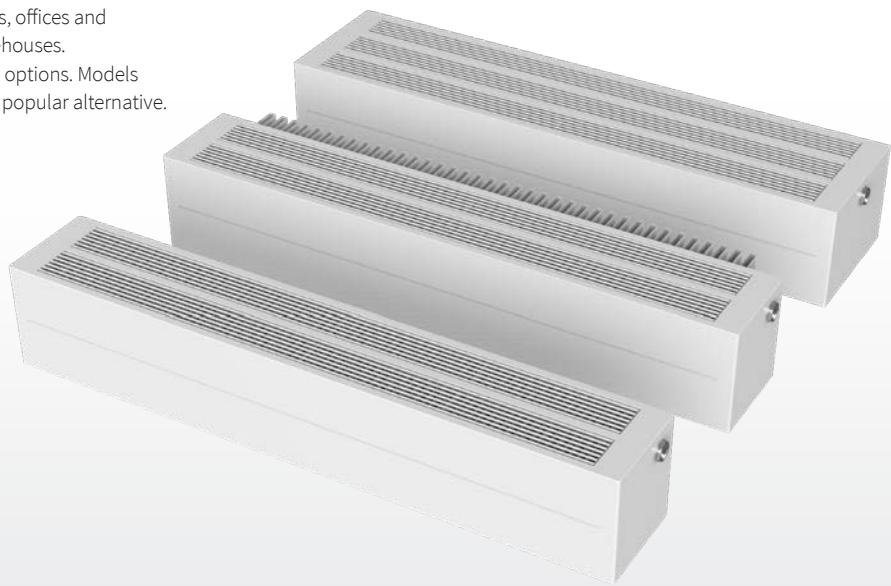
K32 / K33 / K33W

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	4x 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× fin surface

K33
3 radiant surfaces
3× fin surface

K33W
3 radiant surfaces
3× fin surface
window screen 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	– standard design
K32-	0140	0500	AD, CB	diagonal	F4	floor Tall	N atypical design
K32W	0210	...	EF, FE	bottom	S1	floor Block	X design 1 MPa (10 bar)
	0280	2000	SM, MS	middle	W1	wall Subtle	
		2200 (in step 200)	VL, VR	with valve			
		2400	SR, ML	middle with valve			
		...		For additional types see p. 20			
		6000					T design 1 MPa (10 bar) and atypical design

► connection options → 20

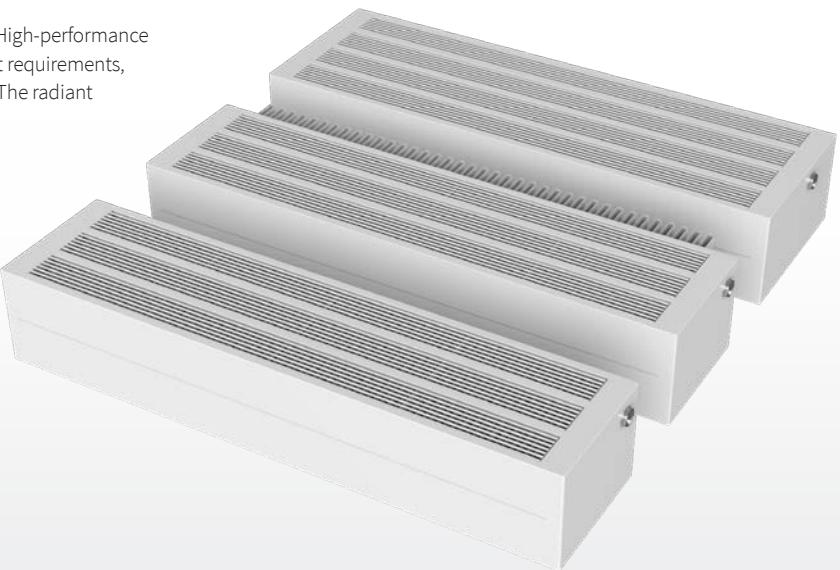
● connection fittings → 22

⊕ accessories → 25

♯ technical data → 32

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	4x 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]



4 radiant surfaces
3x fin surface

4 radiant surfaces
4x fin surface

4 radiant surfaces
4x fin surface
window screen W

Heating outputs W/m at ΔT50 (ΔT30)

Model	K21	K22, K22W
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	L
K44-	0140	0500	AD, CB	diagonal	F4	floor Tall	standard design
K44W	0210	...	EF, FE	bottom	S1	floor Block	N atypical design
	0280	2000	SM, MS	middle	W1	wall Subtle	X design 1 MPa (10 bar)
		2200 (in step 200)	VL, VR	with valve			
		2400	SR, ML	middle with valve			
		...		For additional types see p. 20			
		6000					

► connection options → 20

● connection fittings → 22

◎ accessories → 25

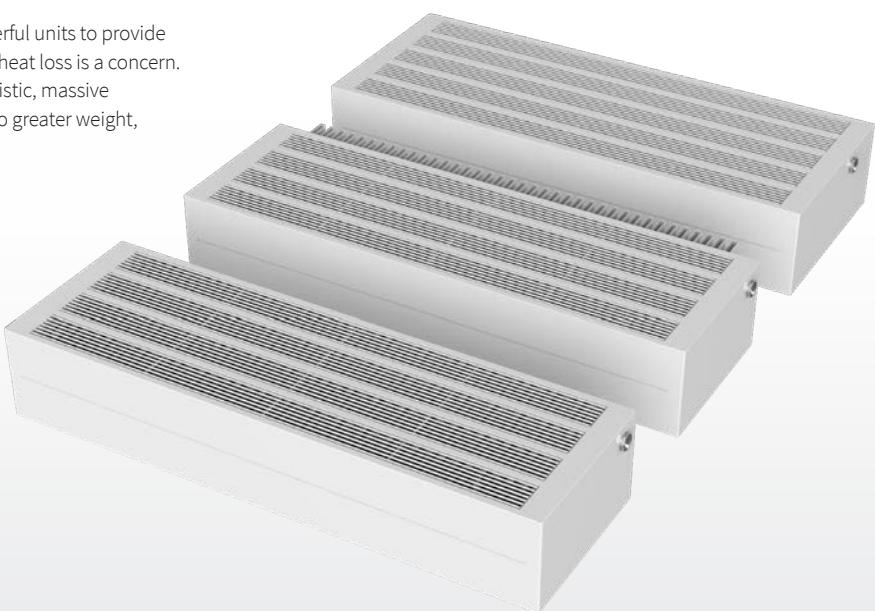
technical data → 32

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	4x 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
4x fin surface

K55
5 radiant surfaces
5x fin surface

K55W
5 radiant surfaces
5x fin surface
window screen W

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	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	– standard design
K55-	0140	0500	AD, CB	diagonal	F4	floor Tall	N atypical design
K55W	0210	...	EF, FE	bottom	S1	floor Block	X design 1 MPa (10 bar)
	0280	2000	SM, MS	middle	W1	wall Subtle	
		2200 (in step 200)	VL, VR	with valve			
		2400	SR, ML	middle with valve			
		...		For additional types see p. 20			
		6000					

► connection options → 20

● connection fittings → 22

⊕ accessories → 25

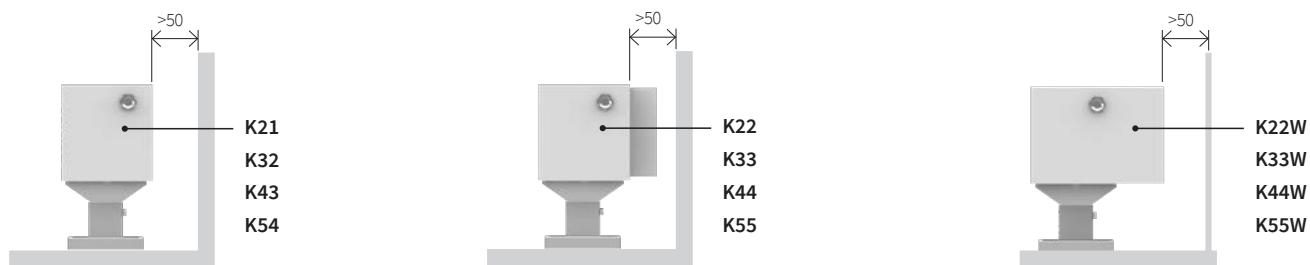
♯ technical data → 32

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.

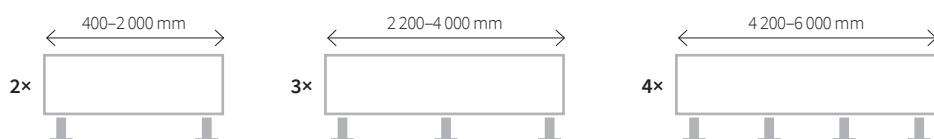
Floor-mounting stands

Convector mounting

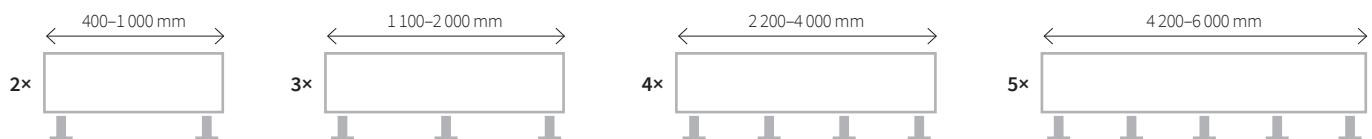


The number of floorstands as per the unit length

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

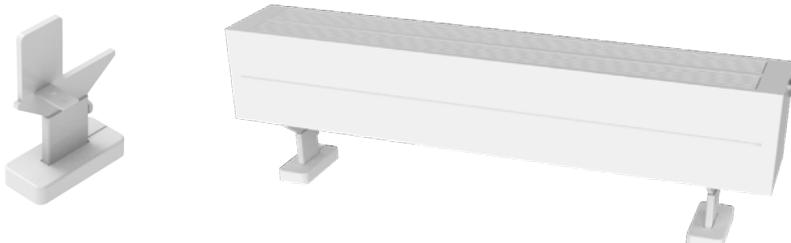


K54, K55, K55W



Flat floor stands – Subtle

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.



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

Covers

Available plastic covers 110 x 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

Identification coding: F1

Double flooring floor stands Tall

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 reduced as required on site to conform to the floor composition.



The maximum convector height above ground when mounted on floor stands is 450 mm.

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

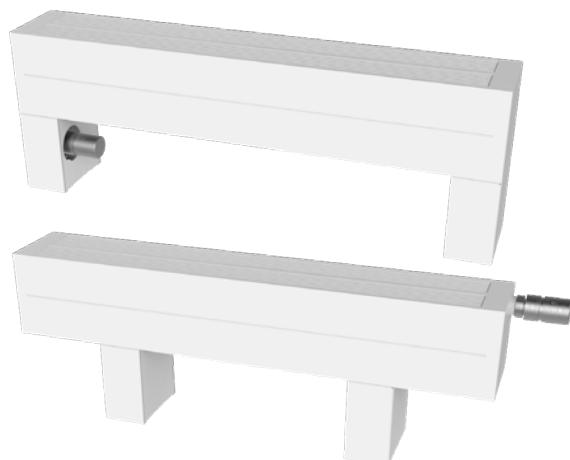
Identification coding: F4

Floor stands – Block

A compact unit with steel column feet. The Block floor stands require an alternative mounting arrangement on the convector body; the order must 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.



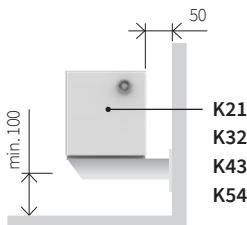
Identification coding: S1

Notice

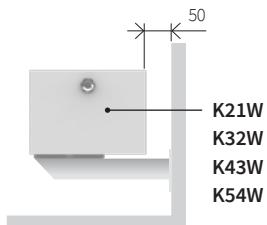
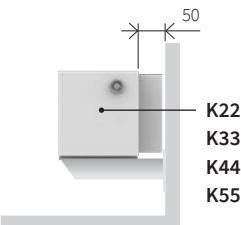
For VR VL valve connections where the heating medium lines on the side are 50 mm apart, the Block stands are positioned 150 mm from the edge of the convector.

Wall brackets

Wall-mounting brackets



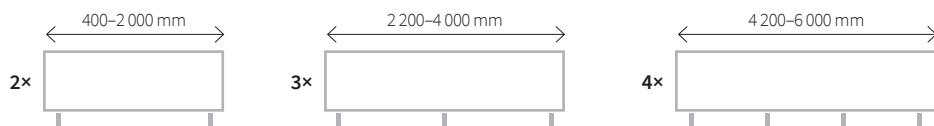
Note: the bracket is not suitable for „W“ convectors (with the window screen for window installations)



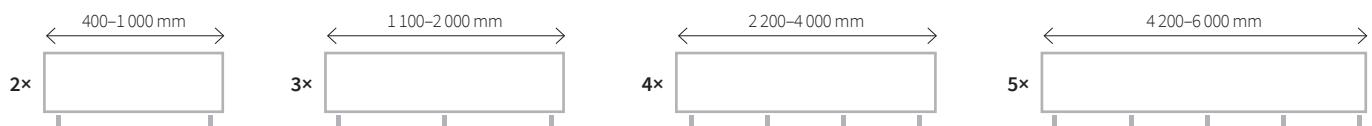
The back surface of the „W“ convectors is cool. This prevents heat loss through the wall.

The number of wall brackets as per the unit length

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



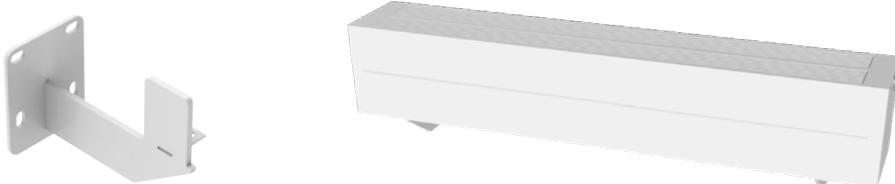
K54, K55, K55W



Wall brackets – Subtle

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 convector type must be fully specified when placing an order.

Identification coding: W1



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

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



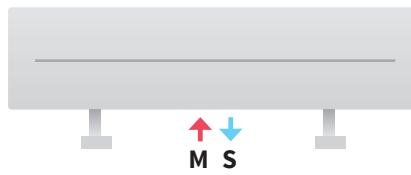
EF bottom



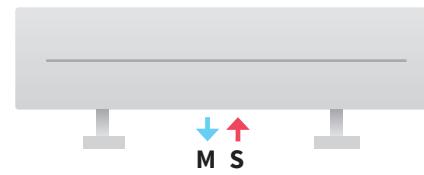
FE bottom



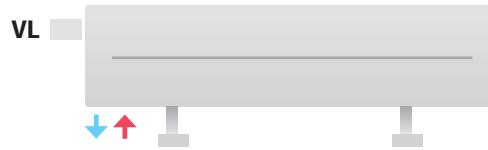
MS middle



SM middle



VL with thermostatic valve on the left



VR with thermostatic valve on the right



ML middle with thermostatic valve



SR middle with thermostatic valve



EE one-sided inside Block stand

(in-line connection see p. 38)

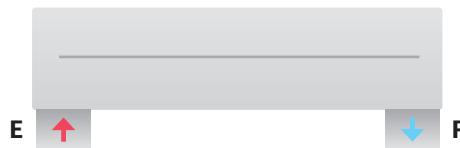


FF one-sided inside Block stand

(in-line connection see p. 39)



EF two-sided inside Block stands



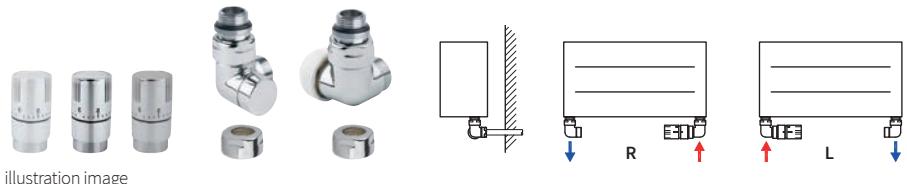
FE two-sided inside Block stands



Thermostatic Packs

Thermostatic set

Angular – triax



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. 102L / white / left / Code: O37BUAL102

Pack nr. 102R / white / right / Code: O37BUAR102

Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm

Thermostatic head / white

Angular thermostatic valve and lockshield valve / white

Clamping fittings for Al/PE-X, Al/PERT / chrome

Pack nr. 103L / chrome / left / Code: O37CUL103

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. 104L / chrome / left / Code: O37CUAL104

Pack nr. 104R / chrome / right / Code: O37CUAR104

Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm

Thermostatic head / chrome

Angular thermostatic valve and lockshield valve / chrome

Clamping fittings for Al/PE-X, Al/PERT / 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. 106L / INOX / left / Code: O37NUAL106

Pack nr. 106R / INOX / right / Code: O37NUAR106

Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm

Thermostatic head / INOX

Angular thermostatic valve and lockshield valve / INOX

Clamping fittings for Al/PE-X, Al/PERT / INOX

Thermostatic set

Direct



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. 108 / white / Code: O37BPA-108

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. 109 / chrome / Code: O37CPC-109

Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm

Thermostatic head / chrome

Direct thermostatic valve and lockshield valve / chrome

Clamping fittings for copper pipes / chrome

Pack nr. 110 / chrome / Code: O37CPA-110

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. 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. 112 / INOX / Code: O37NPA-112

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 set

Corner



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. 114 / white / Code: O37BRA-114

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. 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. 116 / chrome / Code: O37CRA-116

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. 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. 118 / INOX / Code: O37NRA-118

Connection to Al/PE-X, Al/PERT pipes Ø 16x2 mm

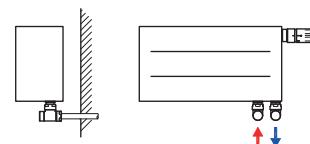
Thermostatic head / INOX

Corner thermostatic valve and lockshield valve / INOX

Clamping fittings for Al/PE-X, Al/PERT / INOX

LockShield set

corner



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

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

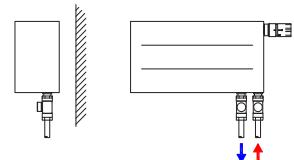
Thermostatic head / INOX

2 × corner lockshield valve / INOX

Clamping fittings for Al/PE-X, Al/PERT / INOX

LockShield set

direct



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. 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. 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. 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. 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. 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

Accessories

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.

Magnetic rail

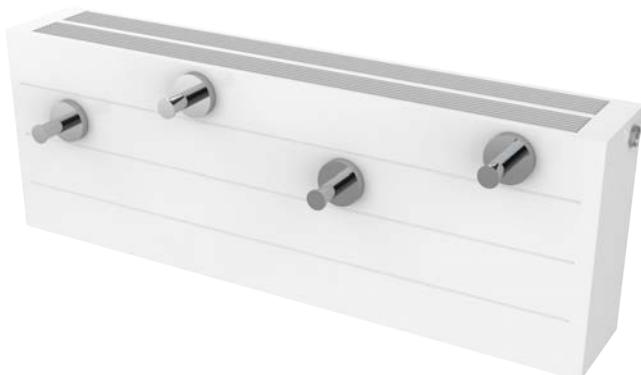
A magnetic rail in three length variations (sized up to the outer edges)



Description	Identification
Rail 260 mm	015MD80-02
Rail 430 mm	015MD80-03
Rail 550 mm	015MD80-04

Magnetic hook

A magnetic hook with ø 54 mm base.



Description	Identification
Magnetic hook	015MD80-01

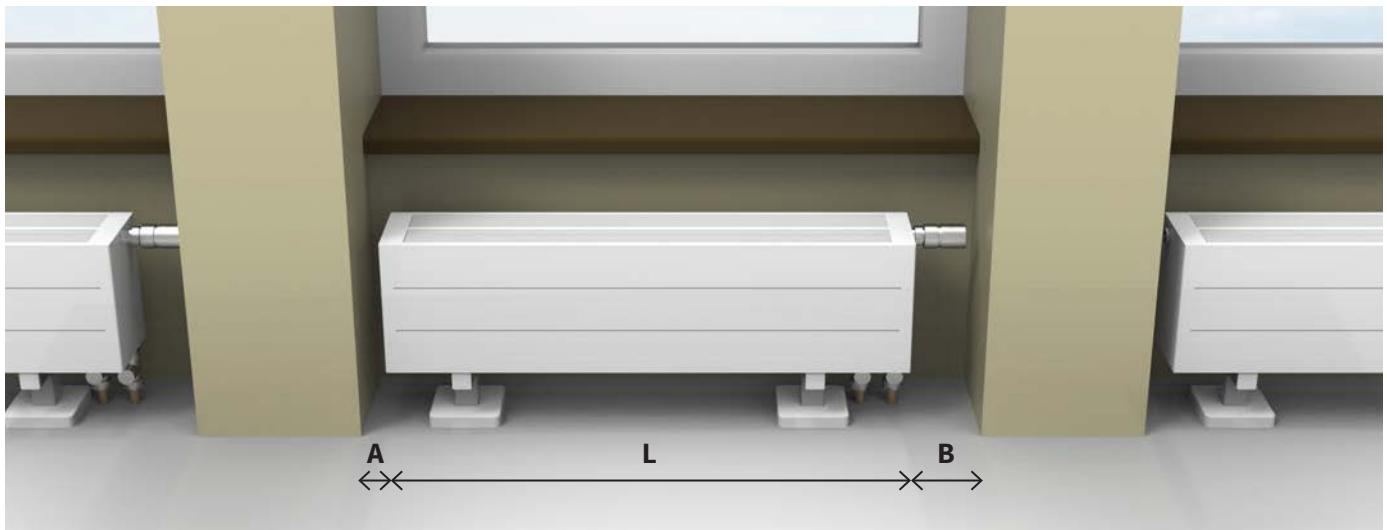
Convector Design Options

26-31

All convector units can be adapted to the architect's requirements.
We are always prepared to answer your questions concerning
the viability of your design solution and adapt the heating units
to the interior.







Atypical lengths

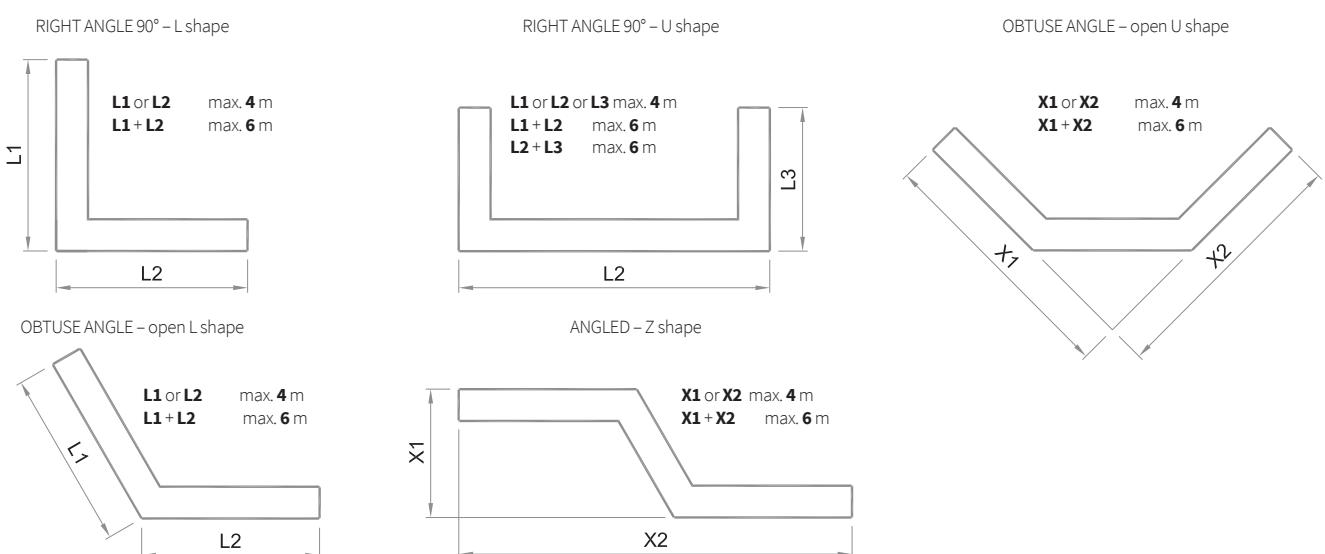
In applications where the length needs to match the space in alcoves or between pillars, all convector radiators can be ordered in lengths with 1cm increments. When determining the total length of a convector, consideration must also be given to the size of the thermostatic head, connection piping and/or 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.

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.





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.

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 resolved 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.



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.

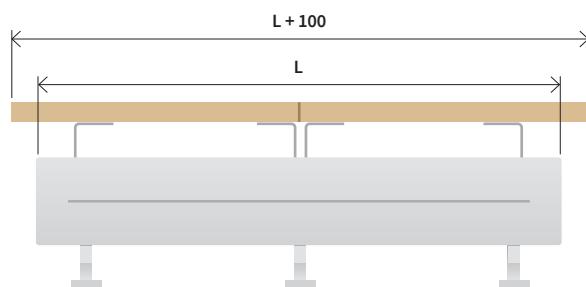
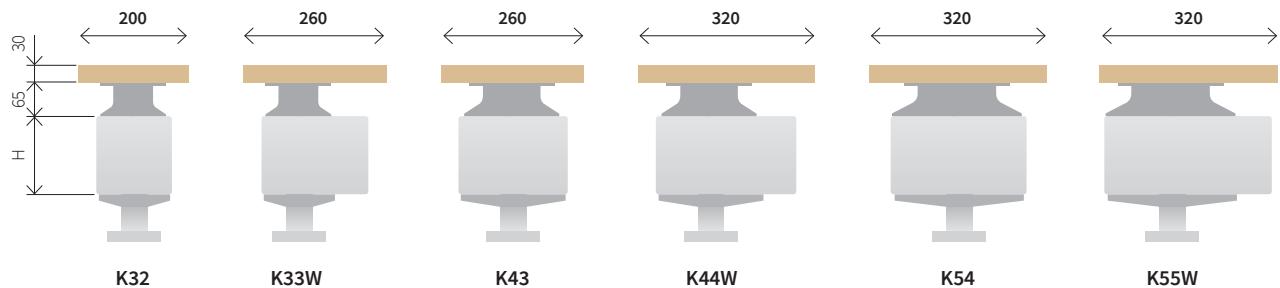
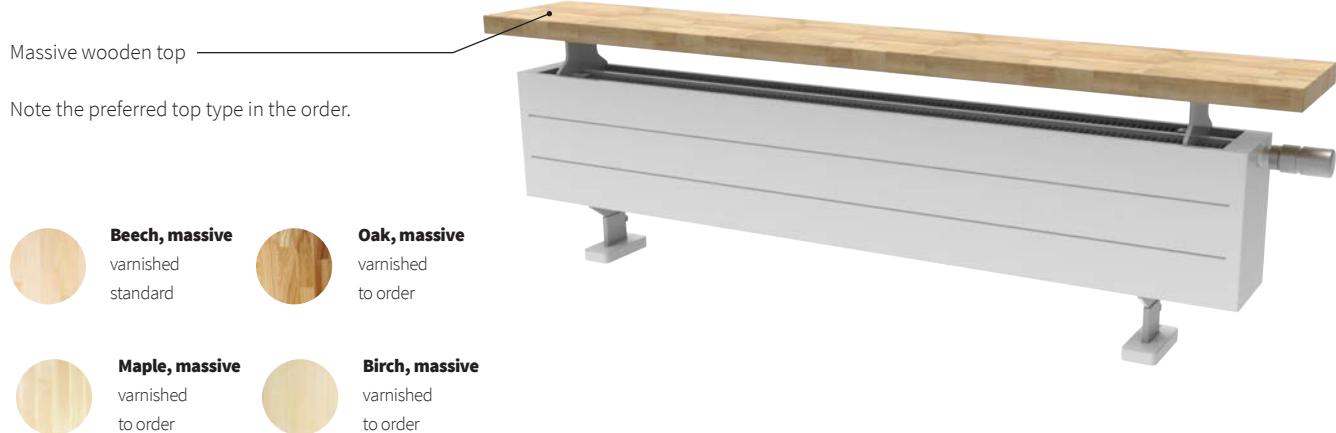
Convector with a wooden top

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.

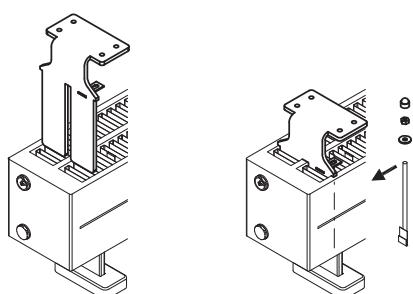
Available wooden top designs

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.



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

* K54, K55W in the range >2000-2600 mm there are 2 wooden tops and 4 brackets



Convector 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. Convector 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

Top grille

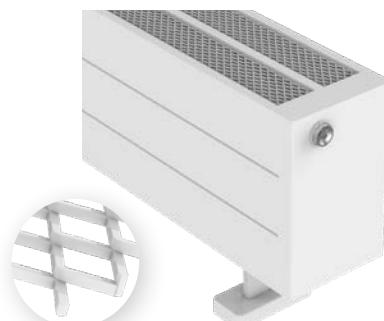
Convector radiators are equipped with a linear, wire top grille as standard. An alternative is a grille with rectangular holes or one made of perforated sheet metal.



L - linear grille (standard)



D - grille with rectangular holes



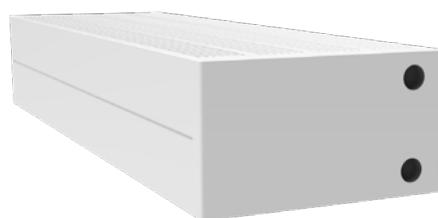
V - perforated sheet metal grille

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).

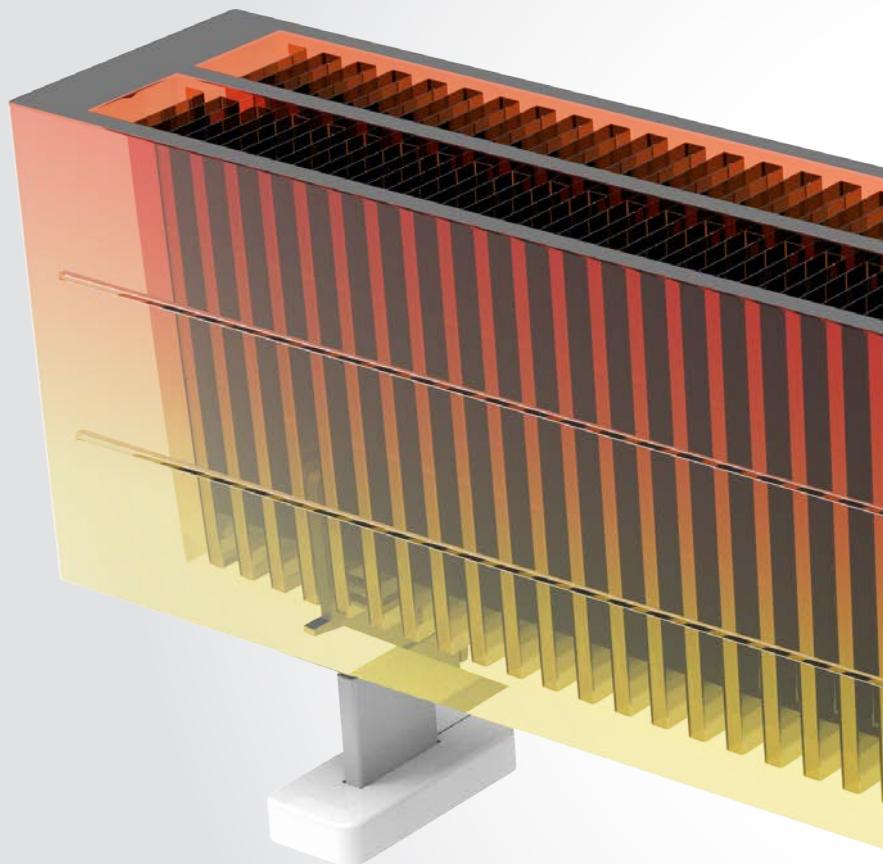


G1/2" connection thread (standard)



G3/4" connection thread

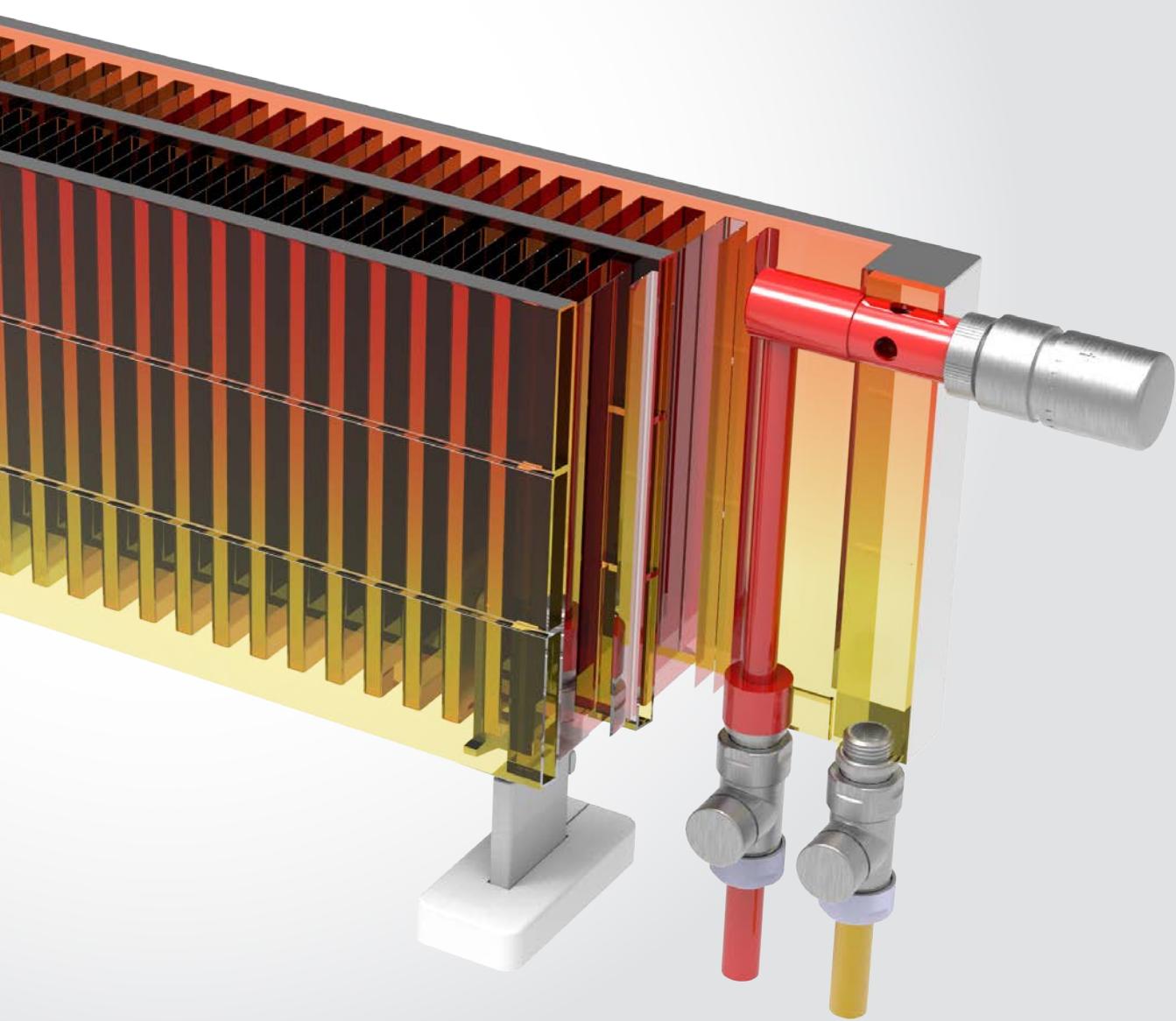
Exact Convector Technical Drawings



32-39

Convector drawings and connections

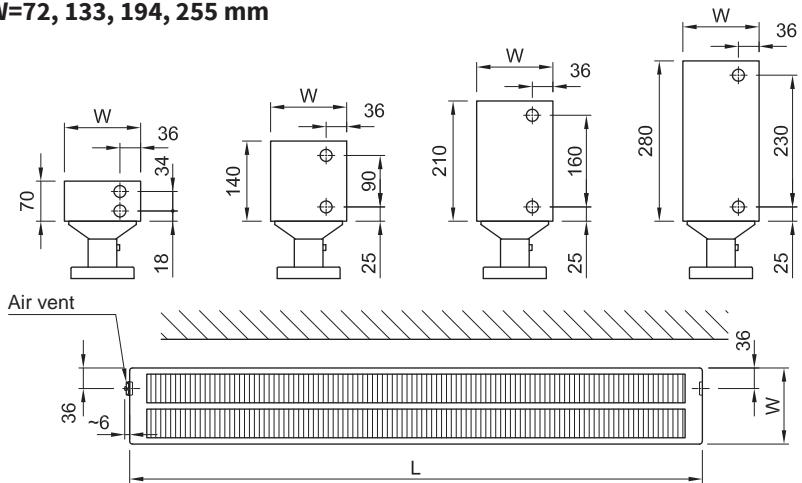
AB, CD, AD, CB, BD, DB, AC, CA, EF, FE	p. 34
CONNECTION OPTIONS	p. 35
VR, VL CONNECTION OPTIONS	p. 36
SM, MS CONNECTION OPTIONS	p. 37
SR, ML CONNECTION OPTIONS	p. 38
BLOCK FLOOR BRACKETS	p. 39
EE, FF CONNECTION OPTIONS	
EF, FE CONNECTION OPTIONS	



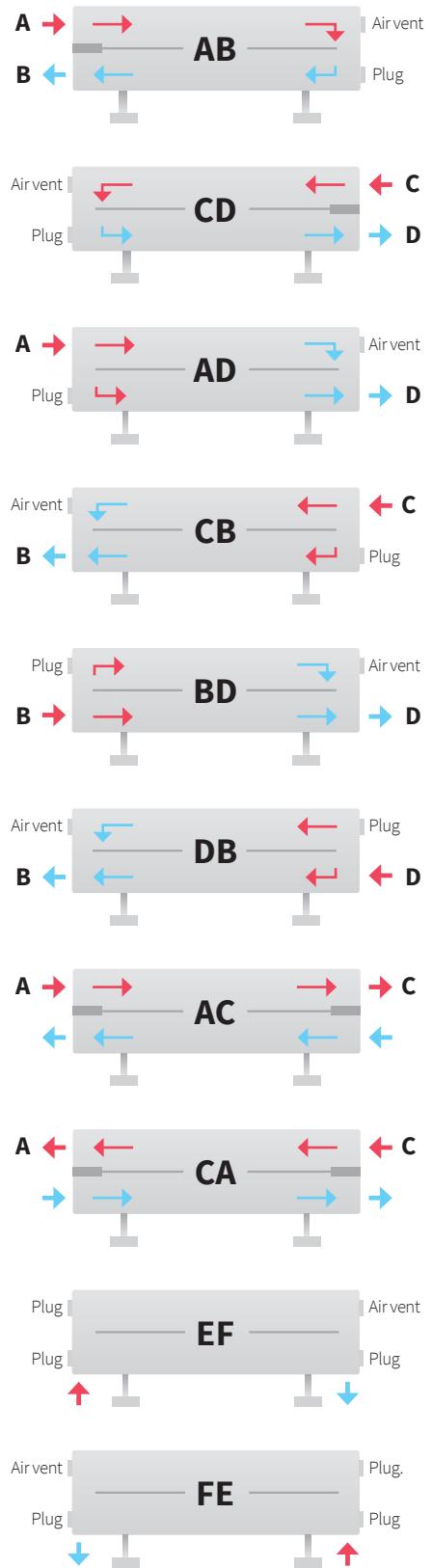
AB, CD, AD, CB, BD, DB, AC, CA, EF, FE connection options

K21, K32, K43, K54

W=72, 133, 194, 255 mm

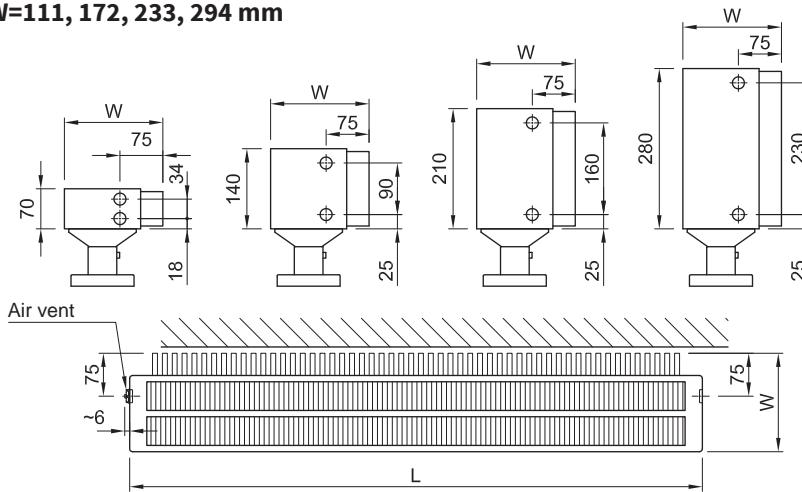


Heating system connection



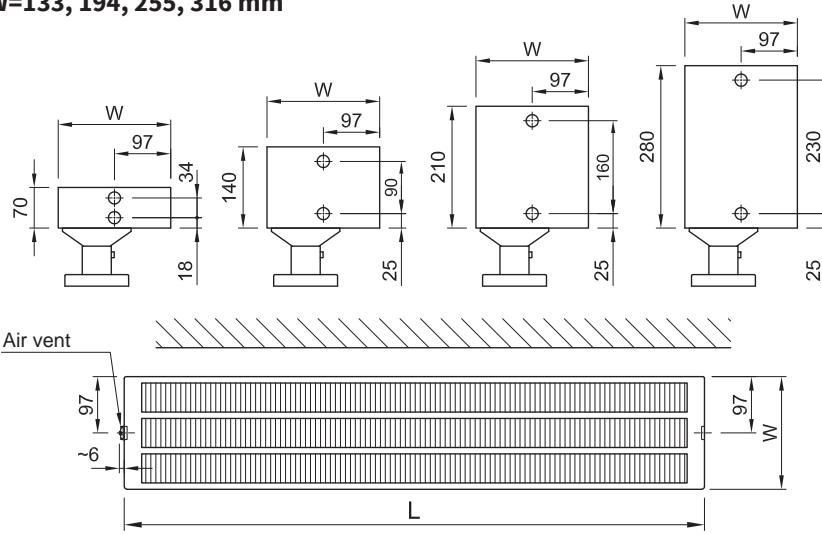
K22, K33, K44, K55

W=111, 172, 233, 294 mm

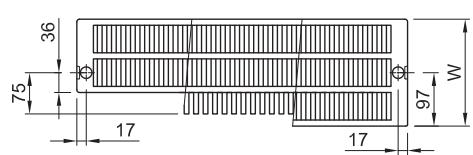


K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



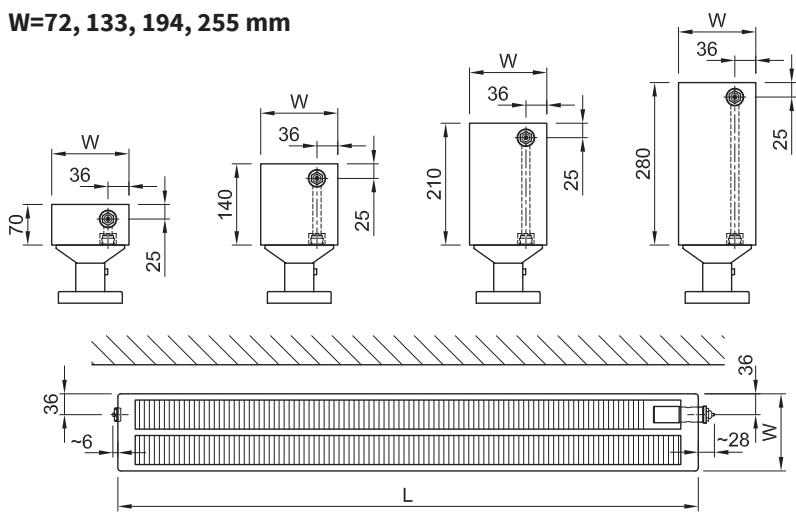
EF, FE connection – bottom view



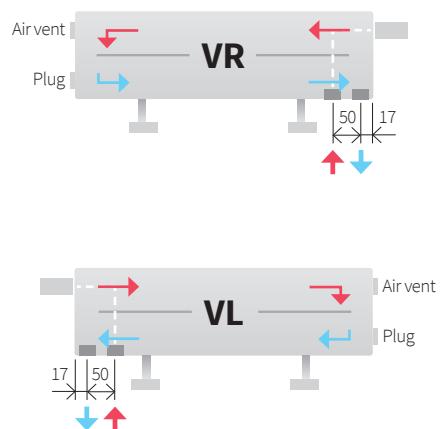
VR, VL connection options

K21, K32, K43, K54

W=72, 133, 194, 255 mm

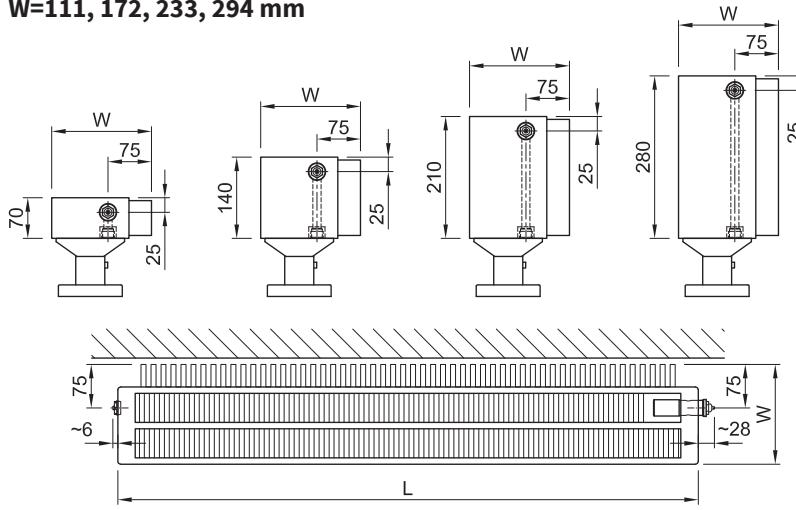


Heating system connection

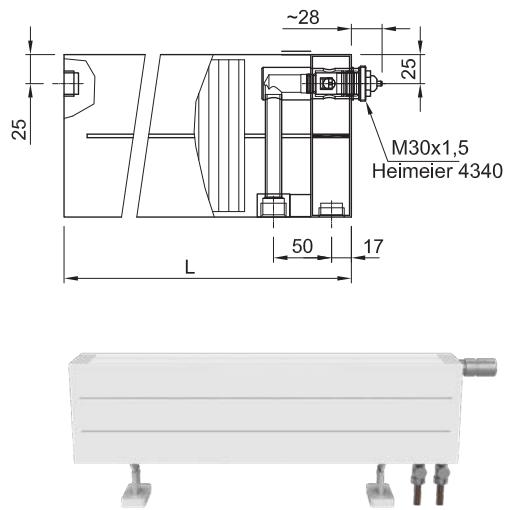


K22, K33, K44, K55

W=111, 172, 233, 294 mm

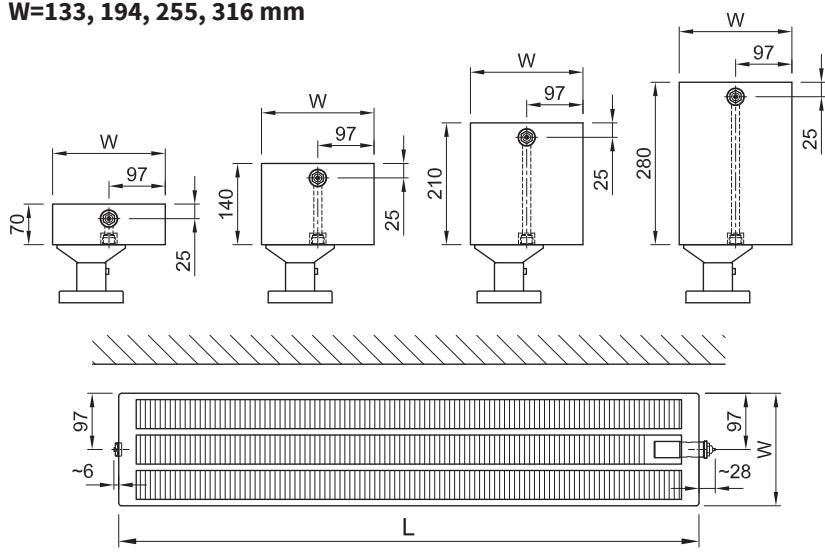


VR connection - detail

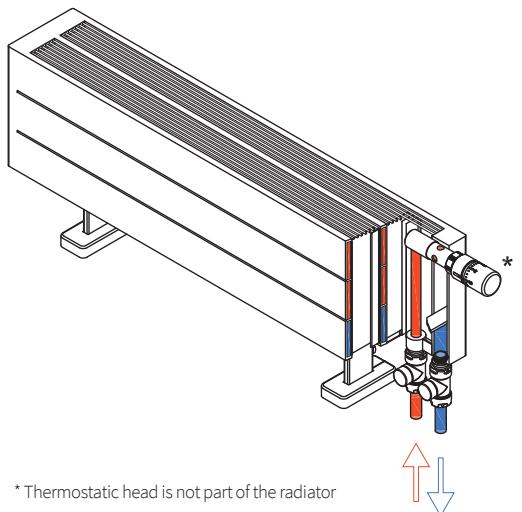


K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



Operating principle

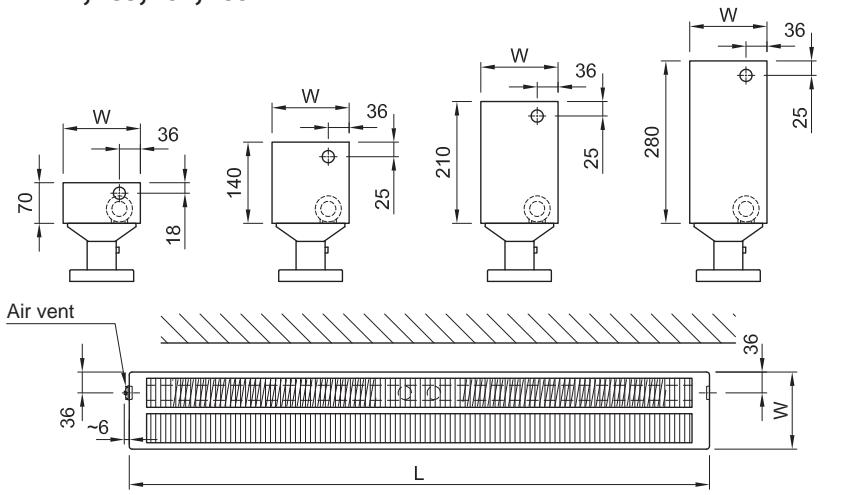


* Thermostatic head is not part of the radiator

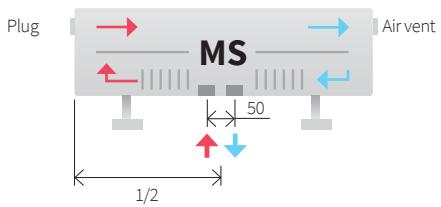
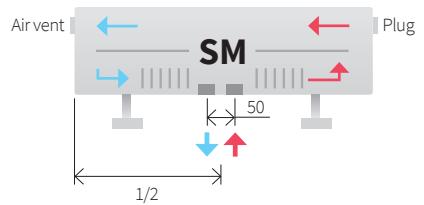
SM, MS connection options

K21, K32, K43, K54

W=72, 133, 194, 255 mm

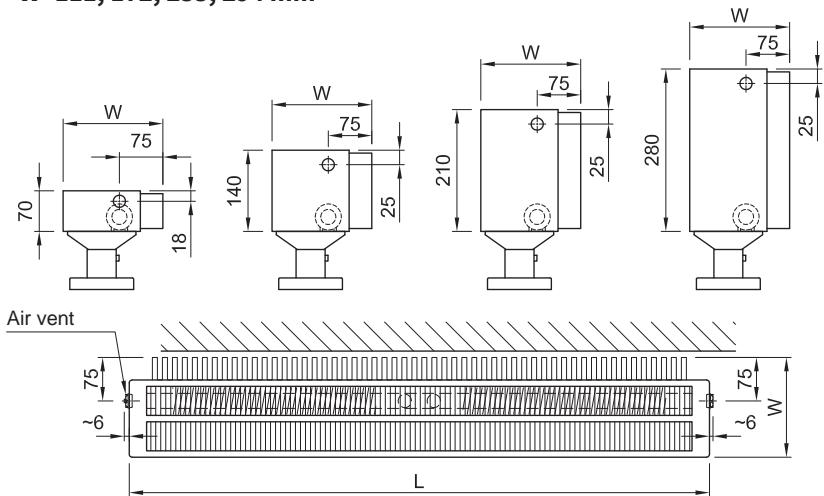


Heating system connection



K22, K33, K44, K55

W=111, 172, 233, 294 mm

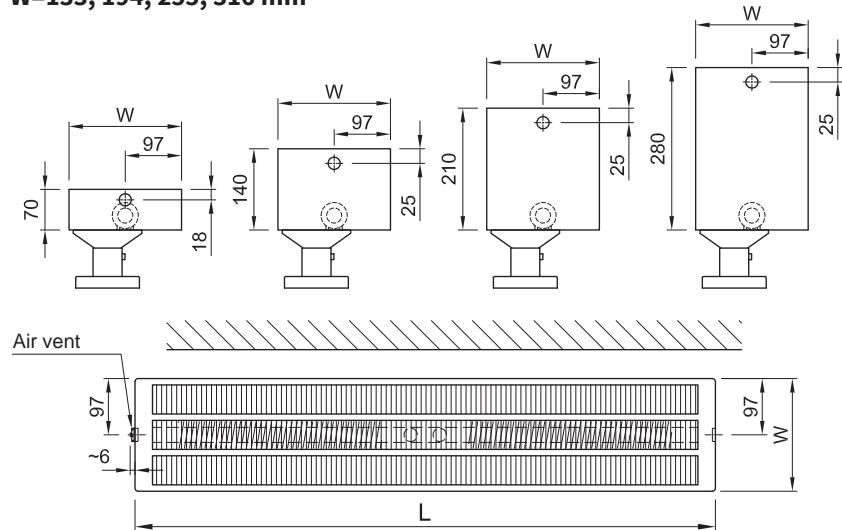


Front view of the convector

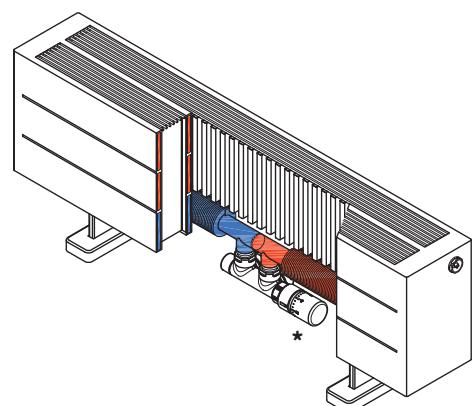


K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



Operating principle

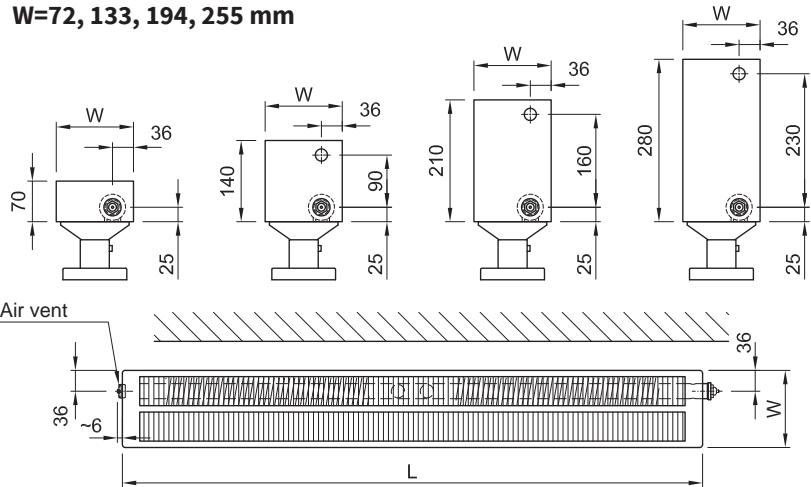


* The thermostatic head must be ordered separately

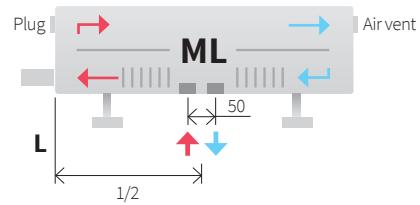
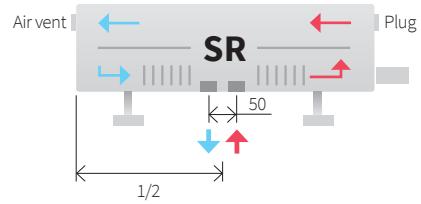
SR, ML connection options

K21, K32, K43, K54

W=72, 133, 194, 255 mm

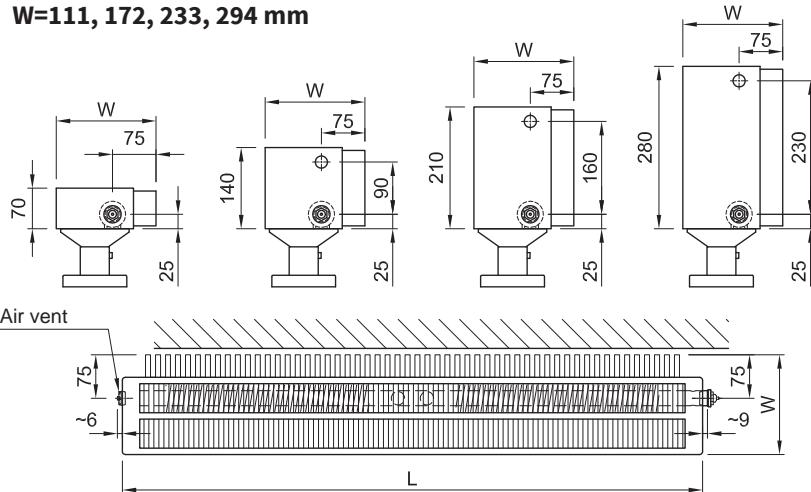


Heating system connection



K22, K33, K44, K55

W=111, 172, 233, 294 mm

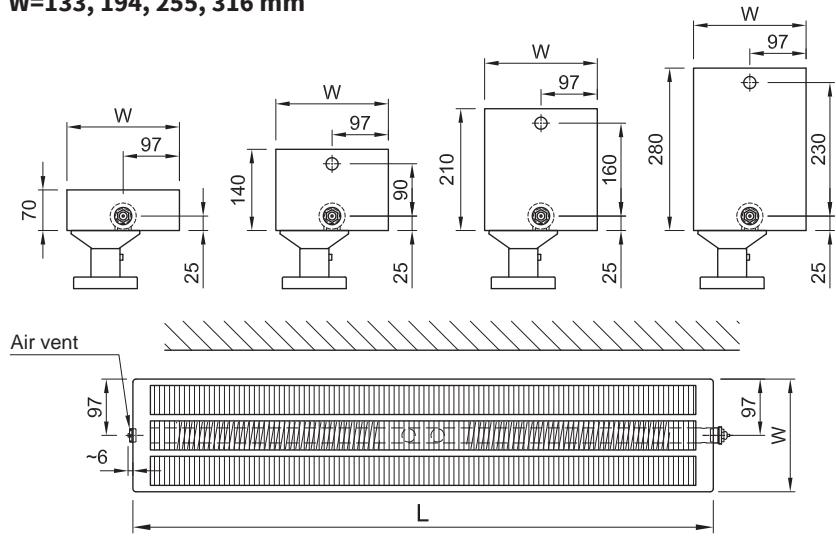


Front view of the convector

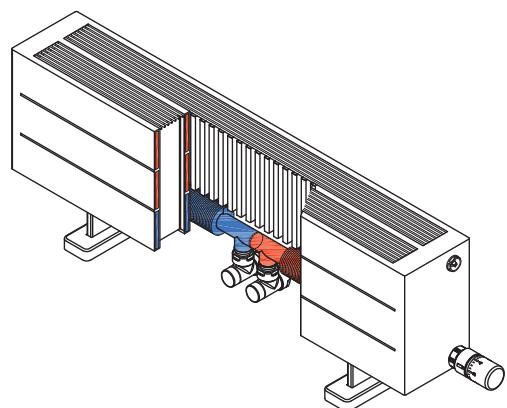


K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



Operating principle

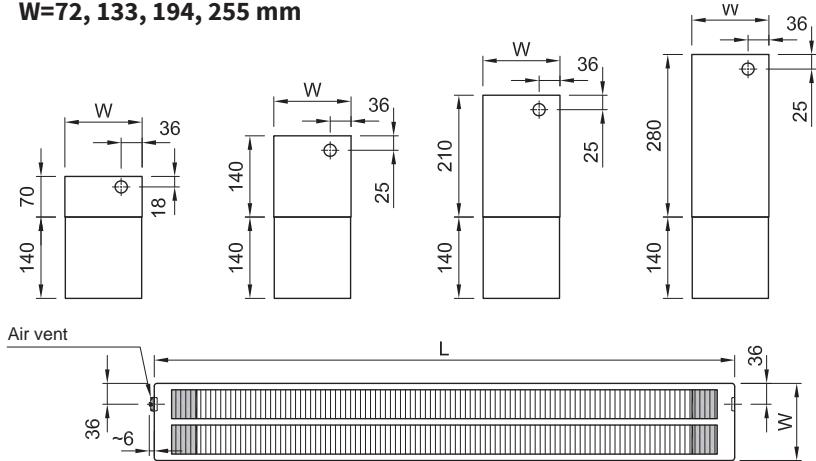


* The thermostatic head must be ordered separately

EE, FF connection options – Block floor brackets

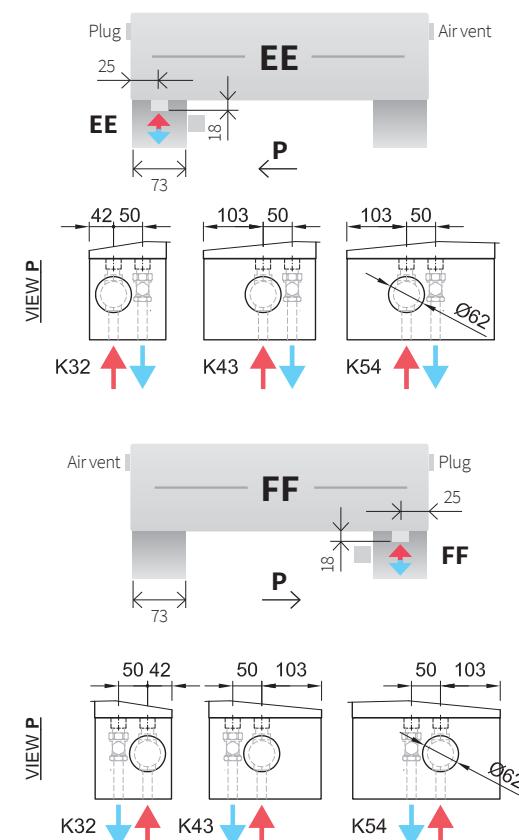
K32, K43, K54

W=72, 133, 194, 255 mm



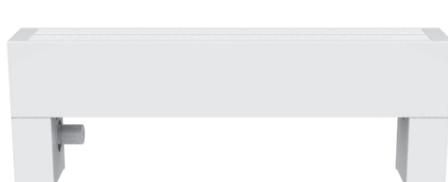
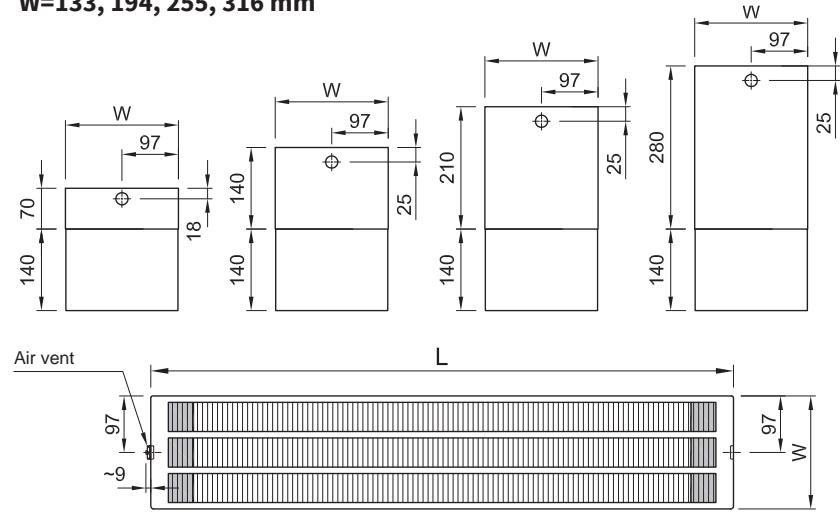
* The thermostatic head must be ordered separately

Heating system connection



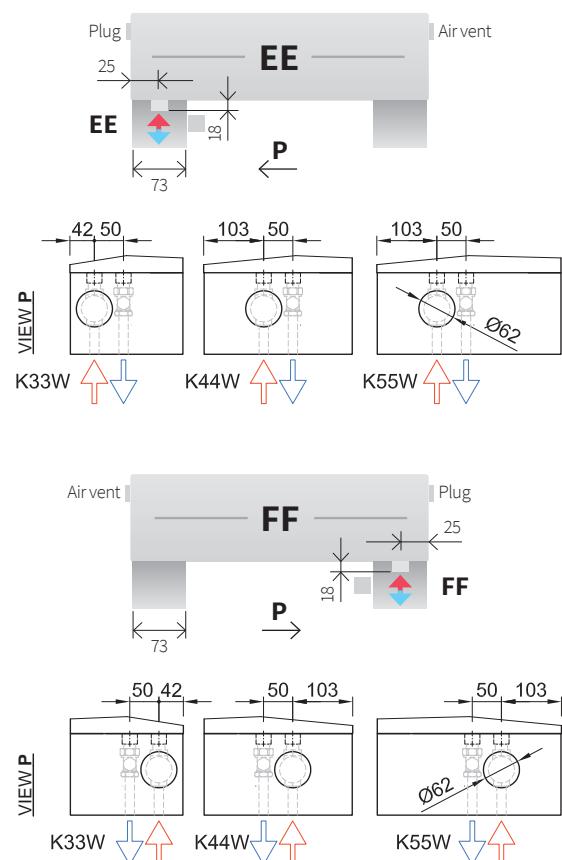
K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



* The thermostatic head must be ordered separately

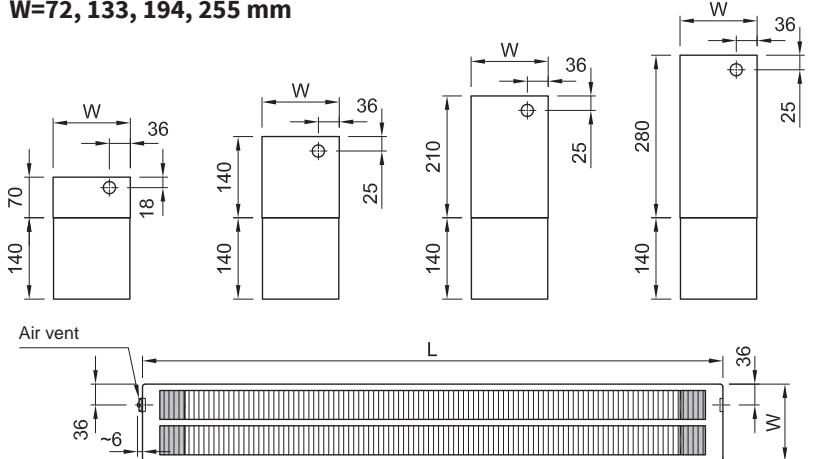
Heating system connection



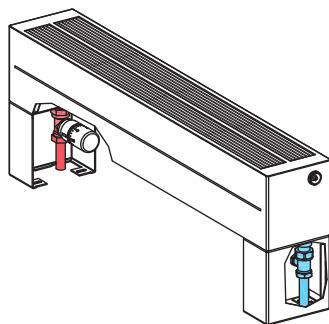
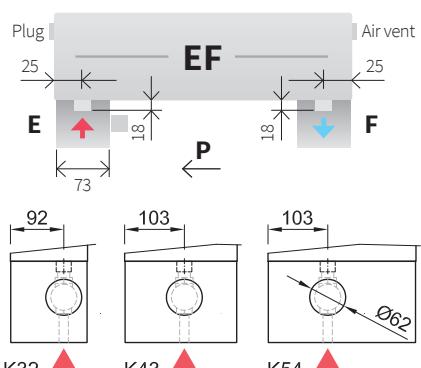
EE, FF connection options – Block floor brackets

K32, K43, K54

W=72, 133, 194, 255 mm



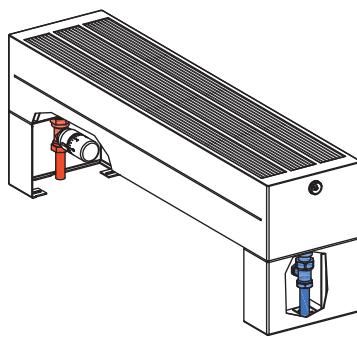
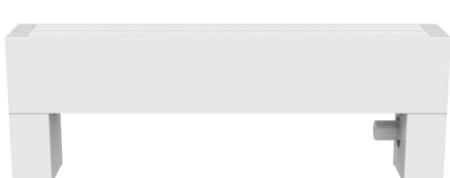
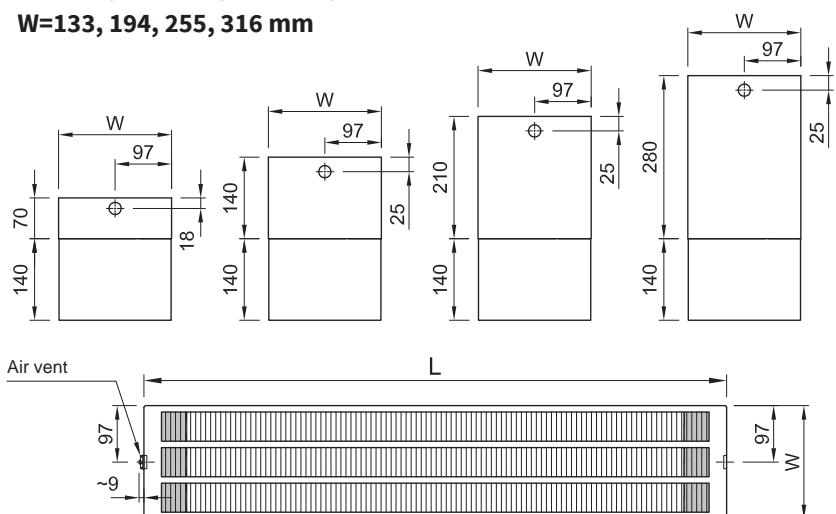
Heating system connection



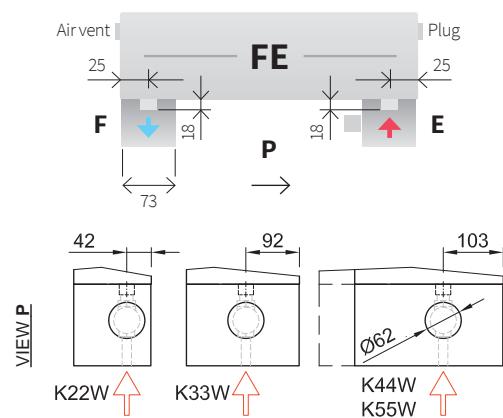
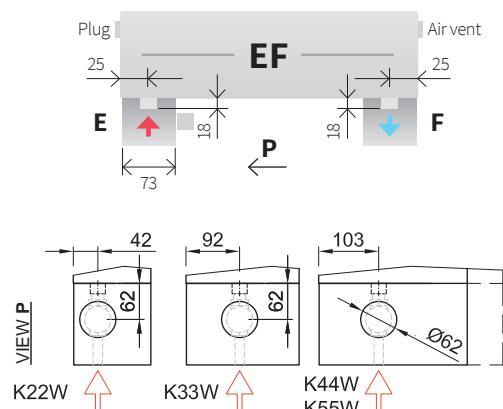
* The thermostatic head must be ordered separately

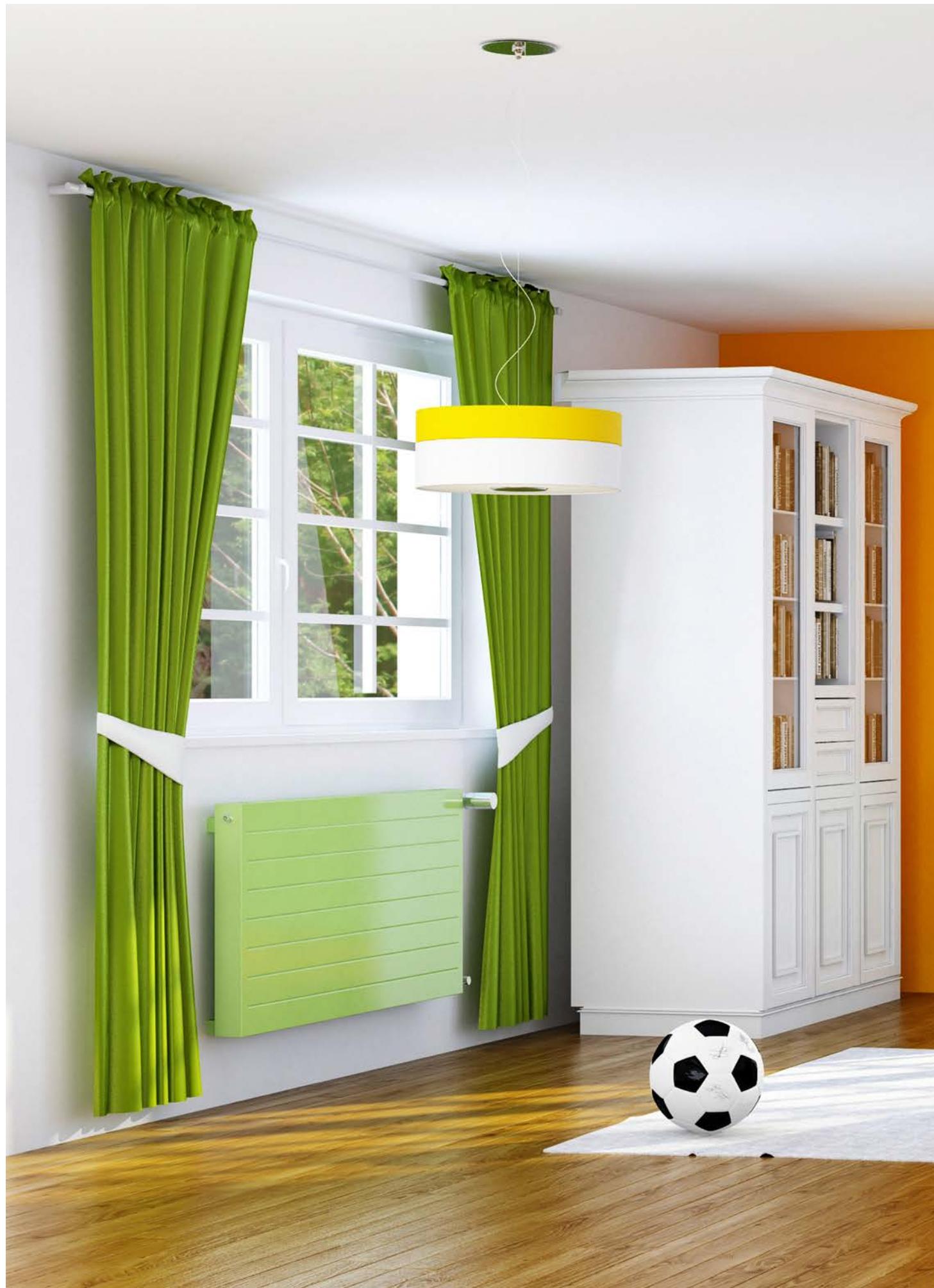
K22W, K33W, K44W, K55W

W=133, 194, 255, 316 mm



Heating system connection





Complementary Products

40-44



Complementary products

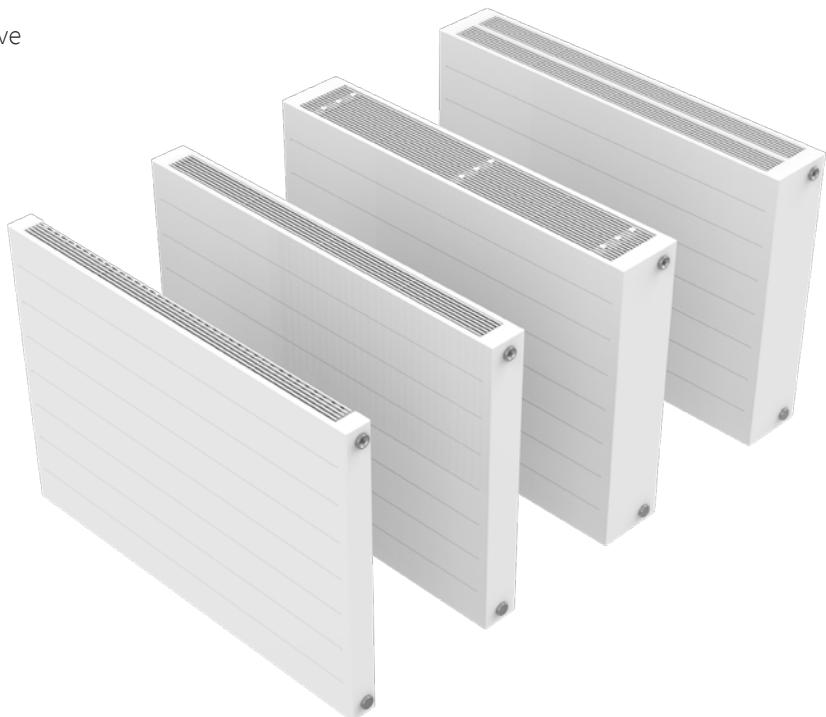
If you want original heating units in your home, try designing your own thick-walled steel radiators. Thanks to the manual manufacture of EXACT convectors, we are able to offer a variety of alternatives to our products. Given their increased size, these heating units are regarded as radiators.

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.

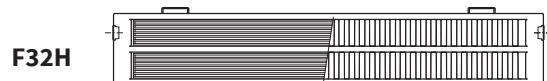
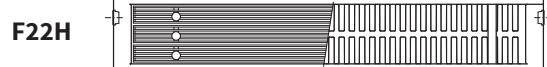
Horizontal radiators with heat transfer fins

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



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



F10H



F20H



Model	Height	Width	Length	No. of radiant surfaces	No. of convection surfaces
F10H	280, 420, 560, 700 mm	50 mm (61 mm*)	400-3 000 mm	1	0
F20H	280, 420, 560, 700 mm	72 mm	400-3 000 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.



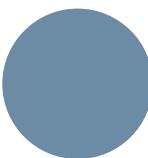
F10V

F10L

F20V

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

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 30 % order code 68		colour series RAL 9001 shade ivory finish - extra charge 30 % order code 04
	colour series S31 shade champagne finish metallic extra charge 30 % order code 25		colour series RAL 9018 shade papyrus finish - extra charge 30 % order code 14		colour series S08 shade ivory finish texture extra charge 30 % order code 67
	colour series S26 shade lime finish - extra charge 30 % order code 09		colour series S27 shade khaki finish texture extra charge 30 % order code 21		colour series S36 shade antique gold finish metallic extra charge 30 % order code 48
	colour series S32 shade pink coral finish texture extra charge 30 % order code 26		colour series RAL 3002 shade fiery red finish - extra charge 30 % order code 08		colour series S34 shade ruby finish - extra charge 30 % order code 28
	colour series S13 shade sandstone finish texture extra charge 30 % order code 72		colour series S28 shade gold olive finish texture extra charge 30 % order code 22		colour series RAL 6021 shade linden green finish - extra charge 30 % order code 06
	colour series S29 shade aquamarine finish metallic extra charge 30 % order code 23		colour series RAL 5014 shade pigeon blue finish - extra charge 30 % order code 07		colour series S30 shade sapphire finish texture extra charge 30 % order code 24
	colour series S33 shade lava ash finish texture extra charge 30 % order code 27		colour series S03 shade copper finish metallic extra charge 30 % order code 62		colour series S19 shade brass finish metallic extra charge 30 % order code 83
	colour series S38 shade dark grey finish texture extra charge 30 % order code 50		colour series S05 shade silver finish metallic extra charge 30 % order code 64		colour series S37 shade light grey finish texture extra charge 30 % order code 49
	colour series S02 shade anthracite finish metallic extra charge 30 % order code 61		colour series S35 shade cinnamon finish texture extra charge 30 % order code 29		colour series S10 shade slate finish texture extra charge 30 % order code 69
			colour series RAL 9005 shade black finish - extra charge 30 % order code 19		colour series S40 shade black velvet finish mat extra charge 30 % order code 51

RAL surcharge

Other RAL colours (1-10 pc) - 40 % surcharge
Other RAL colours (over 10 pc) - individual calculation

Special treatment



colour series	S41
shade	RAL 9016
finish	antibacterial*
extra charge	30 %
order code	88



colour series	S20
shade	transparent paint
finish	transparent paint
extra charge	30 %
order code	84

*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 screen 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, 2x radiant surface, 1x finned heat-transfer surface
	K32-	convector depth 133 mm, 3x radiant surface, 2x finned heat-transfer surface
	K43-	convector depth 194 mm, 4x radiant surface, 3x finned heat-transfer surface
	K54-	convector depth 255 mm, 5x radiant surface, 4x finned heat-transfer surface
	K22-	convector depth 111 mm, 2x radiant surface, 2x finned heat-transfer surface
	K33-	convector depth 172 mm, 3x radiant surface, 3x finned heat-transfer surface
	K44-	convector depth 233 mm, 4x radiant surface, 4x finned heat-transfer surface
	K55-	convector depth 294 mm, 5x radiant surface, 5x finned heat-transfer surface
	K22W	convector depth 133 mm, 2x radiant surface, 2x finned heat-transfer surface, window screen
	K33W	convector depth 194 mm, 3x radiant surface, 3x finned heat-transfer surface, window screen
	K44W	convector depth 255 mm, 4x radiant surface, 4x finned heat-transfer surface, window screen
	K55W	convector depth 316 mm, 5x radiant surface, 5x finned heat-transfer surface, window screen
	70	0070
	140	0140
	210	0210
	280	0280
5-8 HEIGHT [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
	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
13-14 CONNECTION	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)
	F1	flat floor stands – Subtle
	F4	double flooring floor stands Tall
	W1	wall brackets – Subtle
15-16 SUPPORT	S1	floor stands – Block

17 GRILLE	L	linear grille (standard)
	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.)
	99	colour different than the ISAN chart
	structured colours	
	metallic colours	
20 ATYP	colours as per RAL colour chart	
	-	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



ISAN Radiátory s.r.o | Poříčí 26, 678 01 Blansko, CZ
CZ | Tel.: +420 516 489 138 | Fax: +420 516 489 605 | obchod@isan.cz | www.isan.cz
SK | Tel.: +420 516 489 186 | Fax: +420 516 489 605 | obchod@isan.sk | www.isan.sk
Export | Tel.: +420 516 489 190 | Fax: +420 516 489 605 | sales@isan.cz | www.isan.cz