Encased convectors PowerKon F 1.26

Encased convector models with PowerKon heat exchangers

Installation manual

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SYSTEMS FOR HEATING · COOLING · VENTILATING

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1. Correct and proper use

Kampmann Powerkon + F encased convectors have been designed and manufactured in accordance with state-of-the-art engineering and recognised safety regulations. There is nevertheless a risk to persons and property, including damage to the equipment itself, if the equipment is not fitted, operated and used properly.

Powerkon + F encased convectors should only be used indoors, that is to say, in private property, offices and exhibition rooms for example. This equipment is not suitable for use in damp areas, such as swimming pools or outdoors. The equipment should be prevented from becoming wet during installation. If in doubt please contact the manufacturer. Any use not mentioned above will be deemed to be incorrect and improper and any damage resulting from this will be the sole responsibility of the operator/user of the equipment. Correct and proper use is also deemed to include adherence to the installation instructions included in this manual.

The installation of this equipment requires some technical skill and expertise in the field of heating, cooling and ventilation. This knowledge is generally gained in vocational training in heating, cooling and ventilation and is not described in detail here. Any damage resulting from improper installation is the sole responsibiltiy of the user/operator of the equipment.

2. Safety instructions

The fitting, installation and servicing of electrical equipment should only be carried out by a qualified electrician in accordance with VDE (Association of German Electricians') regulations. The equipment should be wired in accordance with current VDE electrical regulations and EVU guidelines.

Non-compliance wih the directives can lead to malfunction of the equipment and possible damage and risk to persons and property. There is a risk of fatal injury if the equipment is wired incorrectly and wired are crossed!

All parts of the system should be disconnected from the mains- before installation work or servicing is carried out and should be prevented from being switched on again acccidentally.

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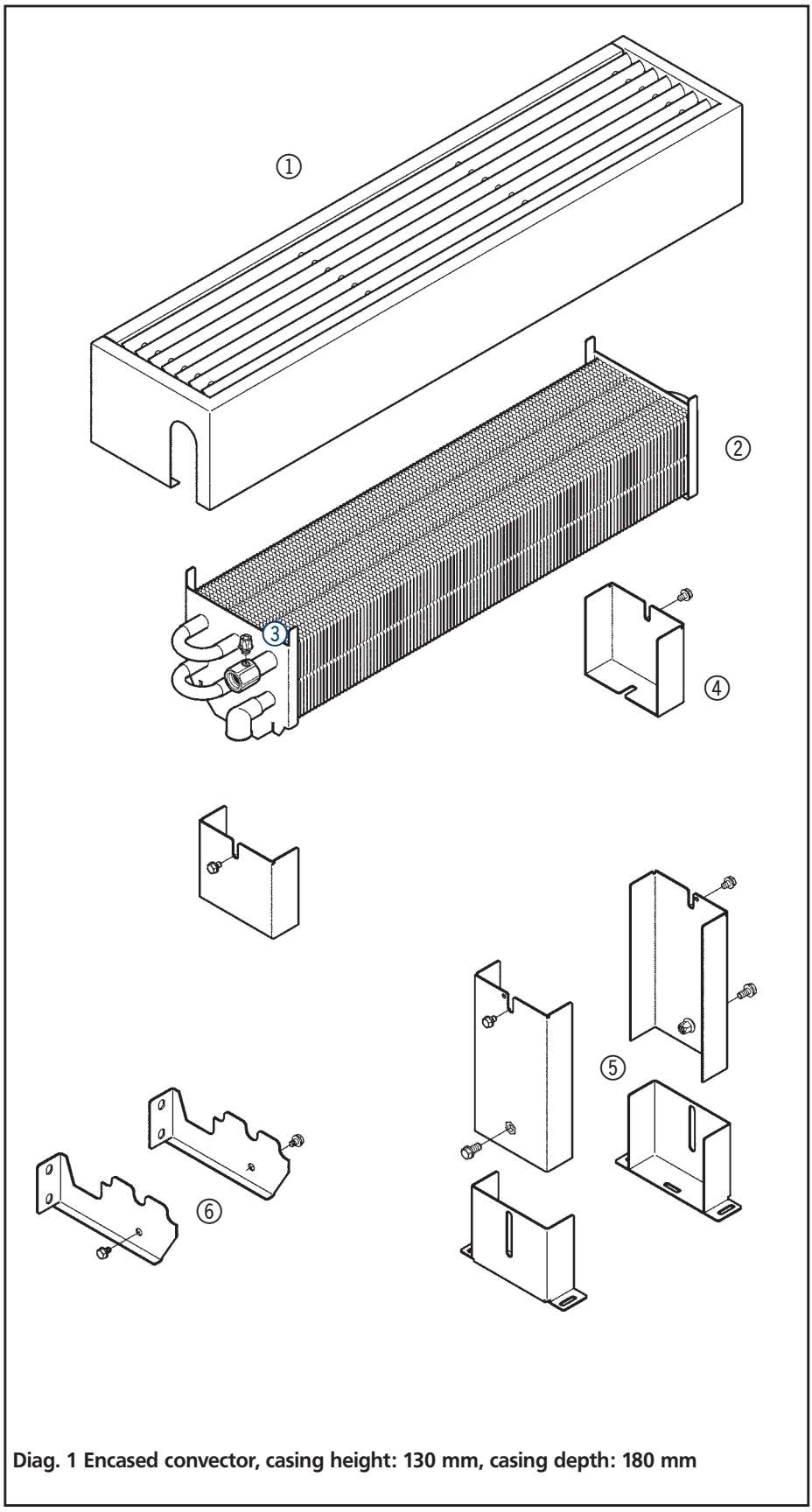


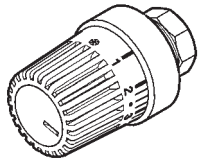
Diag. 1 Encased convector, casing height: 130 mm, casing depth: 180 mm

3. Inventory

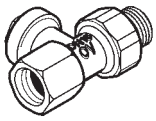
Each encased convector delivery contains the following components:

- 1 no. casing ①, powdercoated, supplied as a one-piece unit, complete with linear grille as a top air outlet grille, with a valve recess at one end.
- 1 no. PowerKon copper-aluminium heat exchanger ② with 1 no. air vent ③, supplied loose.
- Brackets - the number supplied depends on the length of the casing and the model ordered i.e.
  - for finished floor ④,
  - or for unfinished floor ⑤,
  - or wall-mounted ⑥,
- Optional accessories: convector fittings set ⑦, consisting of a
  - thermostatic valve body ½" (axial model)
  - return shut-off valve ½" (straight model)
  - thermostatic valve head, white ⑧

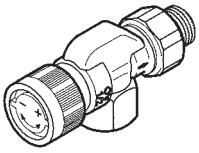
⑧



Diag. 2 Thermostatic valve head, type 110210



⑦



Diag. 3 Convector fitting set, type 126102

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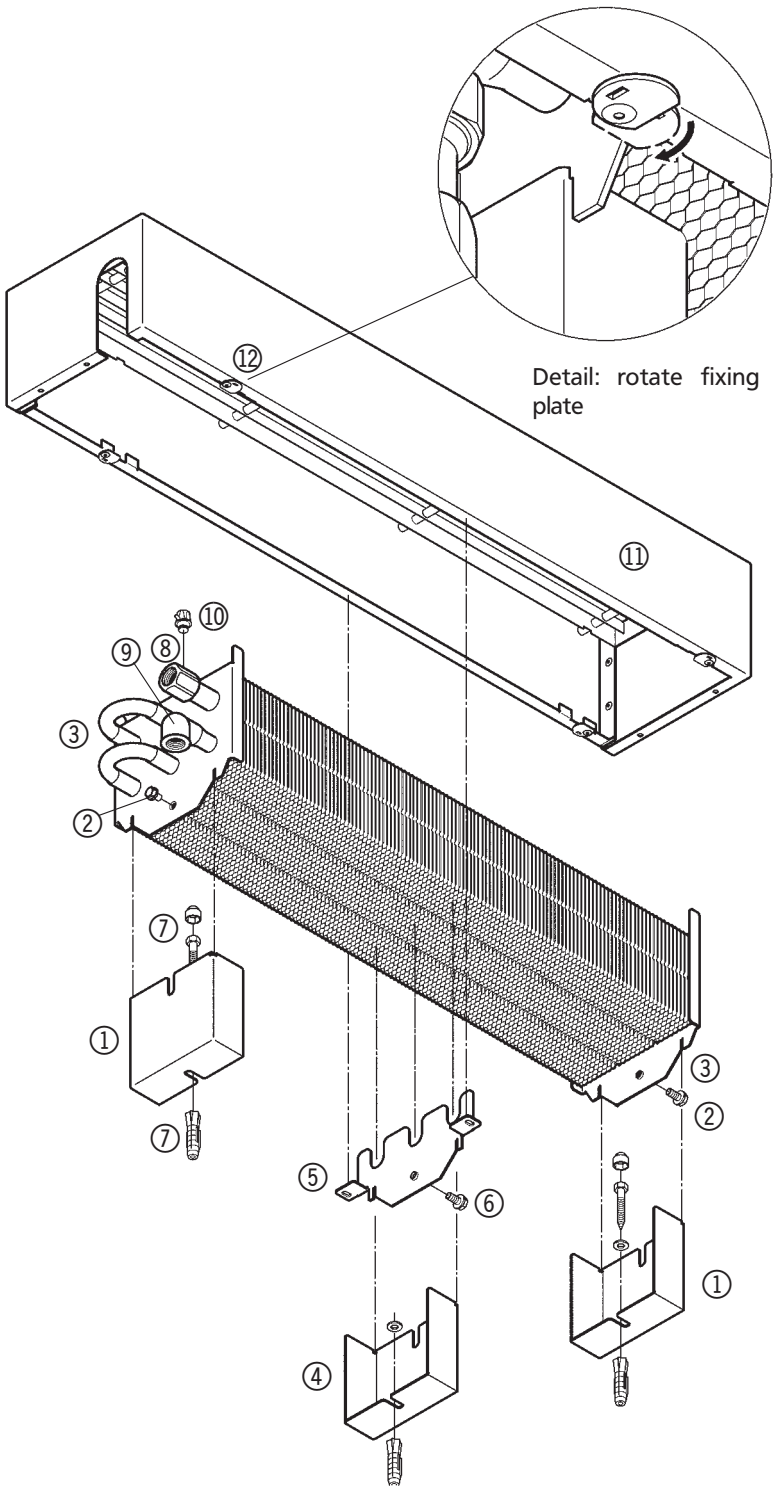


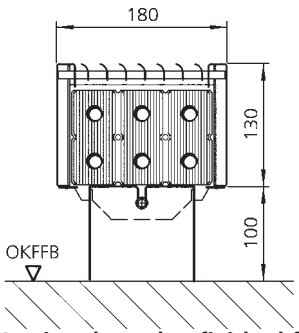
Diag. 4 Encased convector; casing height 130 mm, casing depth180 mm

4. Installing encased convectors on finished floors

- Fix the finished floor brackets ① using the hexagonal screws ② supplied to the support plates at both ends of the PowerKon heat exchanger ③ .

Units longer than 1600mm need a further bracket ④ with support plate ⑤ as a central bracket:

- Fit the brackets using the hexagonal screws supplied ⑥ to the support plate.
- Position the brackets and support plates on the heat exchanger and push the support plate between the fins of the heat exchanger so that the heat exchanger pipes fit into the recesses in the support plates.
- Place the heat exchanger with the brackets fitted onto the floor where it is to be installed and mark the drill holes.
- Fix the brackets using screws and rawl plugs (by others) ⑦ onto the floor and level the unit.
- Connect up the flow ⑧ and return ⑨ pipework. The 1/2" valve set type 126102 and the thermostatic valve head type 110210 from the Kampmann accessories range can be used. Fit the air vent ⑩ to the flow connection.
- Fit the casing ⑪ with the valve cut-outs correctly positioned over the PowerKon heat exchanger and rotate the fixing plates ⑫ (see detail) underneath the convector.



Diag. 5 Section through a finished floor unit.

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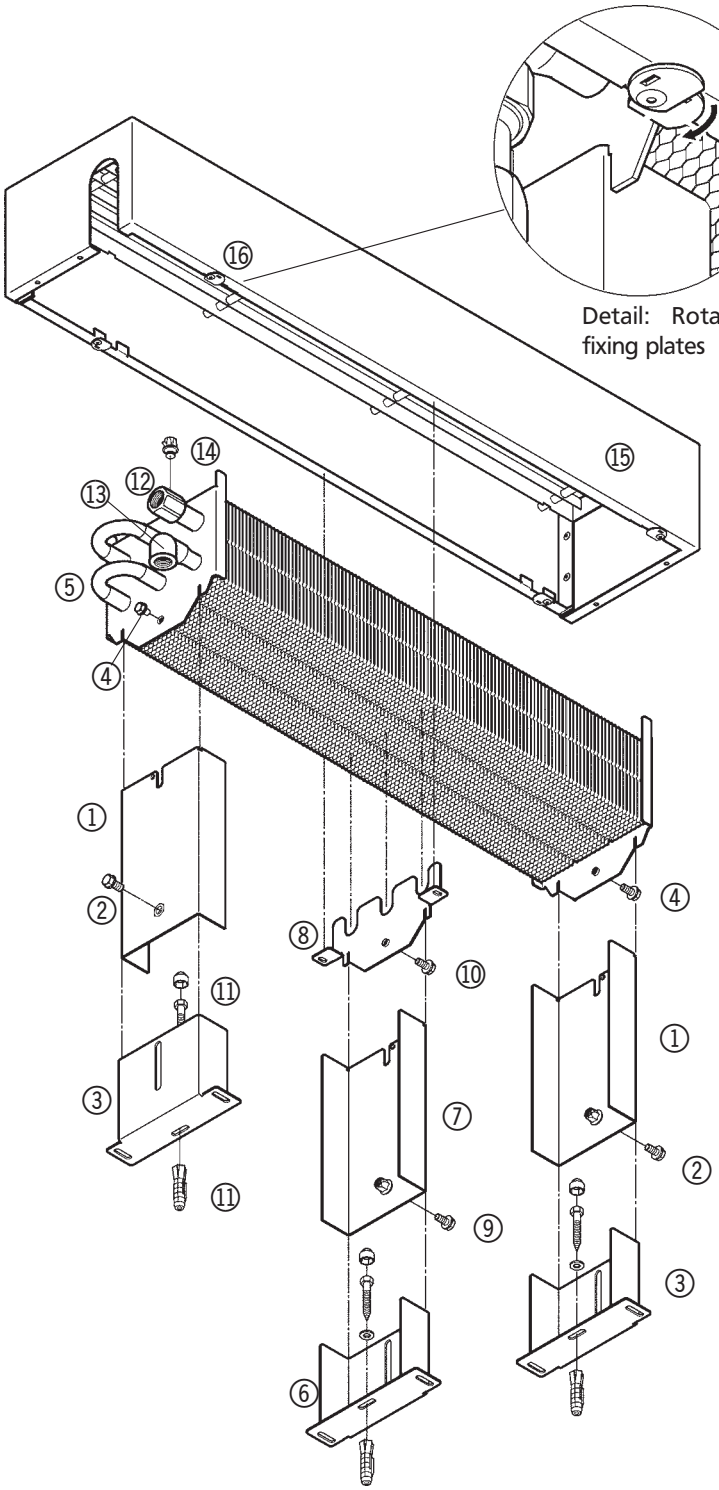


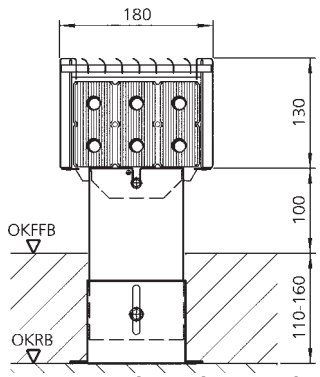
Diag. 6 Encased convector; casing height 130 mm, casing depth 180 mm

5. Installing encased convectors on unfinished floors

- Fix the bracket top parts ① using the hexagonal screws ② supplied to the bracket feet ③ .
- Fix the bracket top parts ① using the hexagonal screws supplied ④ to the support plates ⑤ at the ends of the heat exchanger.

Units longer than 1600 mm need a further bracket foot ⑥ and bracket top part ⑦ and also support plate ⑧

- Fix the bracket top part ⑦ first of all to the bracket foot using the hexagonal screw supplied⑨ .
- Fix the bracket to the support plate ⑧ using the hexagonal screw supplied ⑩ .
- Position the brackets and support plates on the heat exchanger and push the support plate between the fins of the heat exchanger so that the heat exchanger pipes fit into the recesses in the support plates.
- Place the heat exchanger with the brackets fitted onto the floor where it is to be installed and mark the drill holes.
- Fix the brackets using screws and rawl plugs (by others) ⑪ onto the floor and level it.
- Connect up the flow ⑫ and return ⑬ pipework. The 1/2" valve set type 126102 and the thermostatic valve head type 110210 from the Kampmann accessories range can be used. Fit the air vent ⑭ to the flow connection.
- Fit the casing ⑮ with the valve cut-outs correctly positioned over the PowerKon convector and rotate the fixing plates ⑯ (see detail) underneath the convector.



Diag. 7 Section through an unfinished floor unit.

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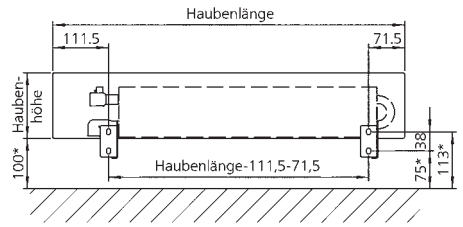
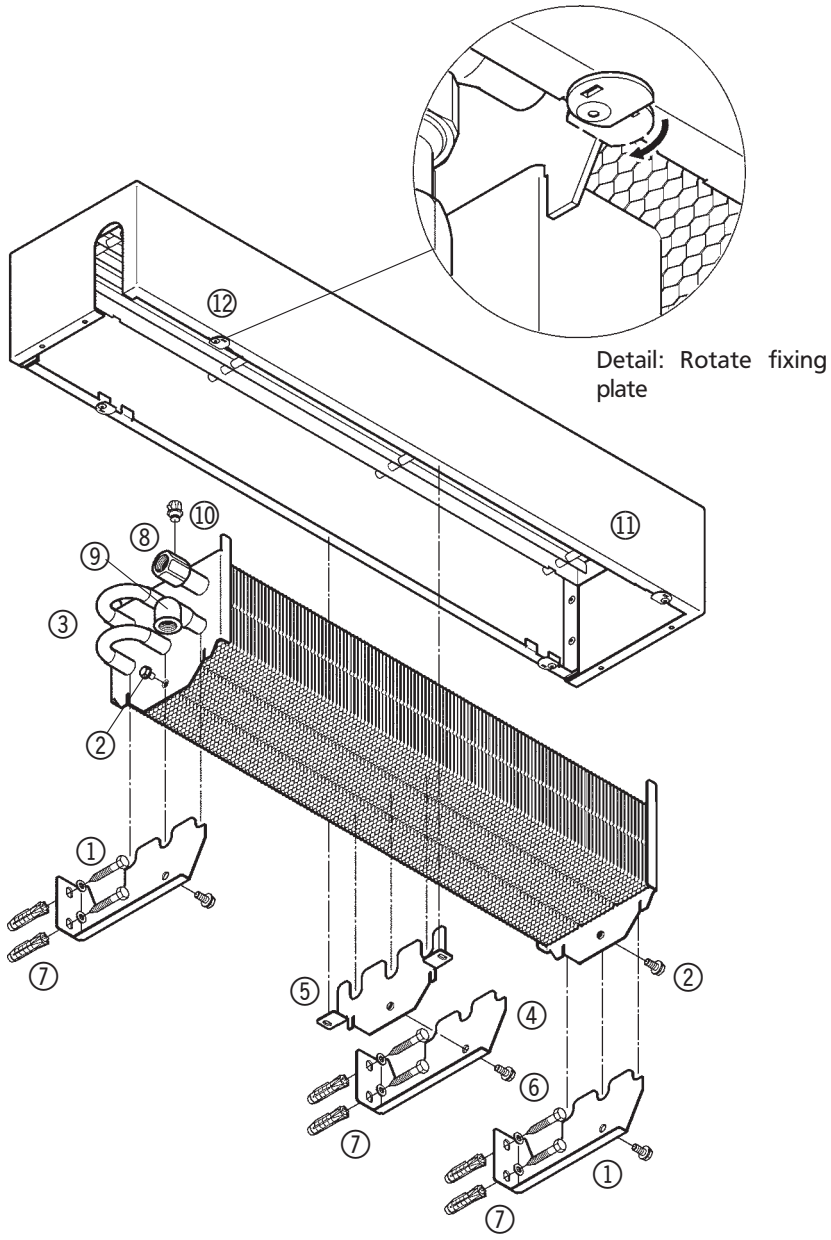


Diag. 8: Bracket spacing - wall-mounted units

*recommended minimum dimensions



Detail: Rotate fixing plate

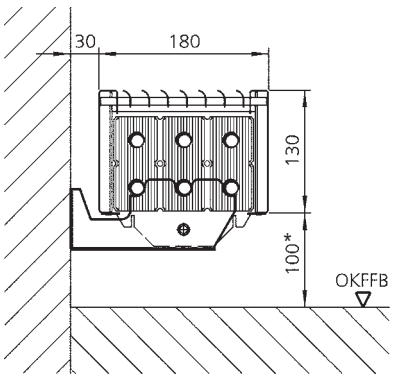
Diag. 9 **Encased convector; casing height 130 mm, casing depth 180 mm**

6. Fitting encased convectors on the wall

- Using the wall brackets ① mark the drill holes on the wall. Calculate the spacing as shown on Diagram 8.

Units longer than 1600 mm require a further bracket ④ and support plate ⑤ as a central bracket:

- Fit the brackets using the hexagonal screws supplied ⑥ onto the support plate.
- Position the brackets centrally between the drill holes for the outer brackets and mark the drill holes.
- Fix the wall brackets using screws and rawl plugs (by others) ⑦ to the wall and level them.
- Fit the convector by screwing the brackets ① using the hexagonal screws supplied ② to the support plates ③ of the heat exchanger. If there is a central bracket (units over 1600mm in length), fit it in such a way that the heat exchanger pipes fit into the recesses on the support plate.
- Connect up the flow ⑧ and return ⑨ pipework. The 1/2" valve set type 126102 and the thermostatic valve head type 110210 from the Kampmann accessories range can be used. Fit the air vent ⑩ onto the flow connection.
- Place the casing ⑪ onto the heat exchanger with the valve recess aligned and rotate the fixing plates ⑫ (see detail) under the convector.



Diag. 10 Section through wall-mounted unit

*recommended minimum dimension

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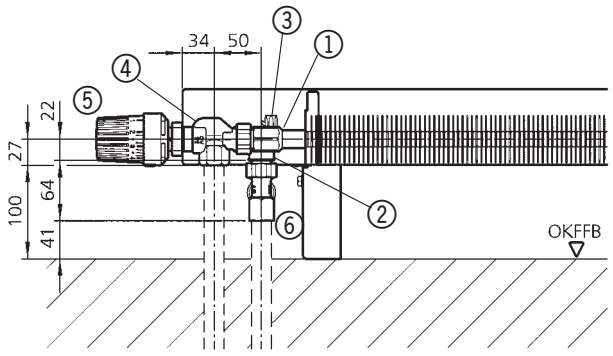
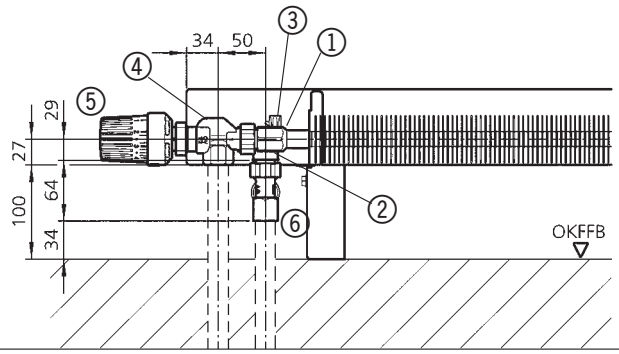
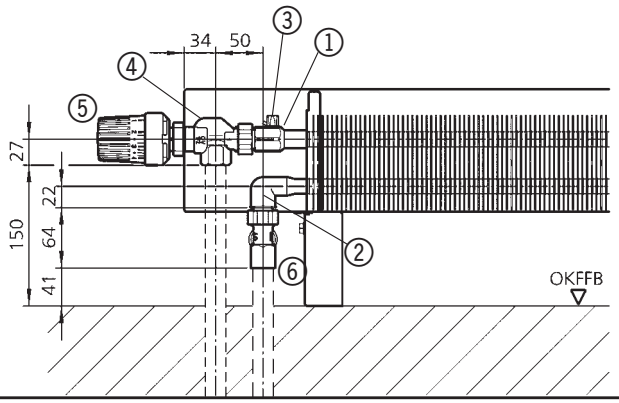
7. Pipework

Valve dimensions		
Casing height mm	**Casing depth mm**	**Dimensions***
80	130 230	
80	180	
130	130 180 230	

* Dimensions based on Kampmann valve set type 126102 (optional accessory); encased convector fitted on a finished floor is illustrated
1 = 1/2" flow
2 = 1/2" return
3 = air vent
4 = 1/2" thermostatic valve body, on flow
5 = thermostatic valve head
6 = 1/2" return shut-off valve

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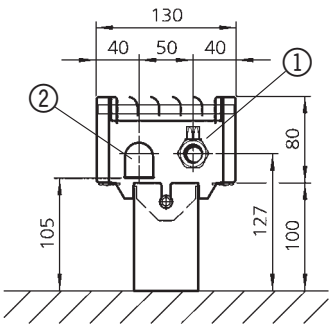
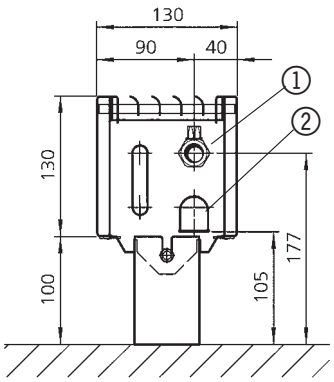
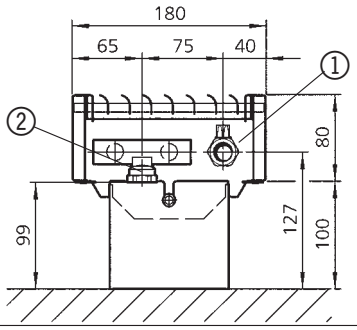
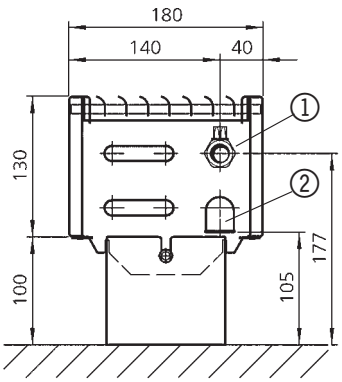
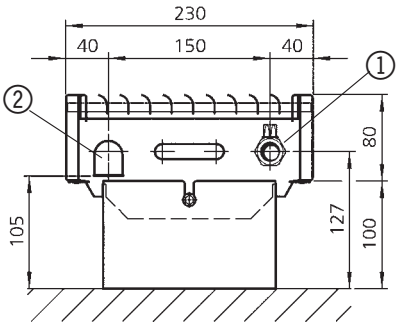
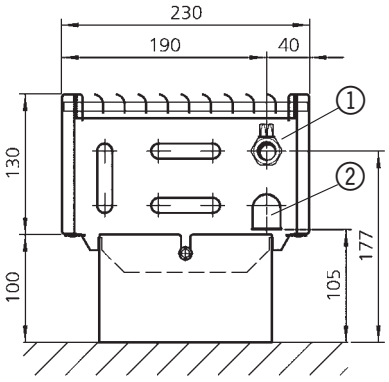
Pipework dimensions

Casing depth mm	Casing height 80 mm*	Casing height 130 mm*
130		
180		
230		

* Encased convector shown with finished floor brackets
1 = 1/2" flow
2 = 1/2" return

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