

Konveka FC Natural Convection Trench Convectors

Technical Specifications

1. General Requirements

Natural convection trench convectors designed for heating systems. The heating capacity of the units shall be determined by an independent accredited laboratory in accordance with European standard EN 16430.

2. Casings

Casings are manufactured from stainless steel. Fully sealed casings protecting against concrete ingress during installation. Pipe and cable entry points are sealed with rubber grommets protecting them from mechanical contact with the casings. Transverse reinforcement ribs (quantity depending on casing length) protect the casings against deformation during installation and operation. Integrated air flow guiding elements separating incoming and outgoing air streams. Valve connection cover plates – 2 pcs.

3. Heat Exchangers

Heat exchangers are manufactured from copper tubes and aluminium fins. Factory test pressure – 30 bar, maximum allowable working pressure – 25 bar. Heat exchangers are equipped with 1/8" air vents. Tubes and fittings are brazed using copper-silver-phosphorus alloy filler material. Heat exchangers are fixed inside the casings using fastening elements compensating vibration and thermal expansion. Integrated protective elements prevent heat exchangers from contacting steel casing supports due to thermal expansion.

4. Fixing and Adjustment Elements

For fixing the casings to the base, at least 4 fixing elements with sound-insulating pads shall be used, ensuring vibration and sound insulation between the fixing elements and the casings.

6–20 height-adjustable support legs with sound-insulating pads (depending on casing length). The legs adapt to uneven floor surfaces. Minimum adjustment range – 0–30 mm. Maximum distance between support legs shall not exceed 800 mm.

5. Decorative Frames

Decorative frames are manufactured from anodized aluminium. Available colours: silver, brown, black. Corner joints are formed using 45° mitre cuts.

6. Mounting Accessories

All fixing accessories required for installation are supplied as standard.

7. Decorative Grilles

Aluminium grille profiles are manufactured from anodized aluminium. Available colours: silver, brown, black. Profile height – 18 mm, profile width – 6 mm, spacing between profiles – 12 mm.

Oak grille profile height – 18 mm, profile width – 10 mm, spacing between profiles – 13 mm.

8. Bill of Quantities Description

Natural convection trench convectors with:

- sealed stainless steel casings;
- sealing of pipe and cable entry points with protection against mechanical contact with the casings;
- casing reinforcement ribs protecting the casings against deformation;
- air flow separation elements;
- minimum 3 supports for decorative grilles;
- height-adjustable support legs capable of bearing vertical loads. Distance between support legs shall not exceed 800 mm along the casing length;
- minimum 4 casing fixing elements for mounting to the base;
- valve connection cover plates;
- anodized aluminium frames;
- copper-aluminium heat exchangers with air vents;
- protective elements preventing contact between heat exchangers and casing structures;
- heat exchanger fixing elements;
- maximum allowable working pressure 25 bar;
- all mounting accessories required for installation.

Decorative grilles:

- anodized aluminium profiles;
- profiles connected using steel springs inserted into plastic tubes;
- anodized aluminium spacers used for maintaining spacing between profiles.

For sound insulation purposes, metal casing components shall not be in direct contact with floor structures or the base.