



Convectors
For
Heating and Cooling



Convectors For Heating and Cooling



■ Heating or cooling units are very often unacceptable, from an aesthetic point of view, in front of windows in new design houses and offices and other buildings with large areas of glazing. ELEKTROTEKNIK KFT-HC Model high-performance floor convectors are designed for heating and cooling. Water-based heating and cooling systems are more economical to operate than air-based cooling systems. KFT-HC convectors are based on 2 different main models Compact-sized 2- and 4-pipe heat exchangers with cross-flow fan assist for heating and cooling. The basic model is designed with 2-pipe system heat exchanger. You are able to switch 2 modes cooling to heating or heating to cooling from central system or local controller. The system advantage is that Every single unit can decide for each room individually between 2 modes. The desired room temperature can be controlled with ELEKTROTEKNIK room control equipments.



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■ Application:

Cooling floor fan convectors are designed for secondary cooling equipment which is required to prevent room temperature raising caused from heat source like solar radiation from windows. For winter time period KFT-HC convectors can be applied for room heating.

■ Operation:

Cooling floor fan convectors are forced convection type of convectors with cross-flow fans. In the cooling mode, KFT-HC floor convector draws in warm air from the windows or other surfaces where applied near, cools it in the heat exchanger, and flow it back into the room. This makes advantage for reducing the heat gains due to heat room envelope surfaces. In the cooling proces, a part of moisture is extracted from the air; this dehumidification also contributes to thermal comfort. In the heating mode, the process is Opposite : the KFT-HC onvectors draws in cold air from the window areas, heats it and feeds back into the room.

■ Areas of application:

KFT-HC convectors should be used when economical and comfortable heating and cooling are desired, The design and low installation height starting from 140 mm makes easy installation option in false floors.

- Offices and administrative areas
- Commercial areas
- Lobbies, foyers
- Exhibition areas
- Conservatories
- Rooms that require rapid heating



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■ Cooling mode:

The warm air is absorbed by the cross-flow fan and carry through the cooled with cold Water heat exchanger. To avoid condensation; the chilled water flow temperature should not be under 16° C. Cooling performance data outputs measured according to EN14518



Cooling

Minimal
consumption
of energy

Forced
convection

■ Heating mode:

The air is absorbed by the cross-flow fan and Carry through heat exchanger, where it is heated with the warm water. Heating performance data outputs measured according to EN442



Heating

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■ Convector:

Easy install and connect with (1/2") Eurokonus connections for 2-pipe and 4-pipe system



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■ Casing:

Standard production is black anodized Extruded Aluminium profile or Black coated Galvanised steel (if needed), Stainless Steel casing is optional for special applications. Water side and electrical side connection holes is available for both sides of the case (Please define the connection side before production). Easy use height adjustment plates are available inside the case. Integrated condensation tray with drain spigot is standard accessory for all KFT-HC models.



■ Fan:

Standard fans are low noise, 24V, 2 speed AC cross-Flow fan. Optionally New technology Energy-Efficient 24V EC motorized fans with 0-10V control output. ELEKTROTEKNIK KLIMA always developing solutions for best comfort with energy efficiency environmental protection. EC motors make maximum use of the available energy with its optimum operating point at every possible fan speed. EC motors enables the cross-flow fan to be operated at also very low fan speeds.



Quiet operation



■ Grille:

Standard type of grille is aluminum roll-up grille from LM300 type of blades from natural anodised finish.

Optionally:

- 1) Fixed type longitudinal aluminum type LM300 grilles are also available.
- 2) Fixed type Stainless Steel Grilles
- 3) All type of grilles are available with any color selected from RAL catalogue





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