



Hotels, offices and public buildings

demand a superior level of comfort, style and exclusiveness. A fundamental measure of well-being and quality of life is provided by individual ventilation and humidification, in conjunction with correct heating and cooling.

Correct and properly regulated ventilation is essential today as building shells become increasingly "sealed" for energy-conservation and health reasons and to prevent risk of damp.

Optimum air quality within a building also has further positive effects, such as an increase in performance and a feeling of well-being and comfort.



The Task in detail

- to create a pleasant temperature within living and working areas.
- to provide controlled, demand-led ventilation without wasting energy.
- to remove cooling and thermal loads.
- to ensure a comfortable atmosphere without troublesome noise.
- to provide high heat output levels with short warm-up times.
- to create a positive aesthetic within the building by concealing the units within the suspended ceiling.
- the units must provide heating and/or cooling with a 2-pipe or 4-pipe system, as required.
- individual user-friendly operation.
- compatible with BMS systems.
- especially low-maintenance.

Individual heating and ventilating comfort

Description

Venkon – superior engineering and a stylish design

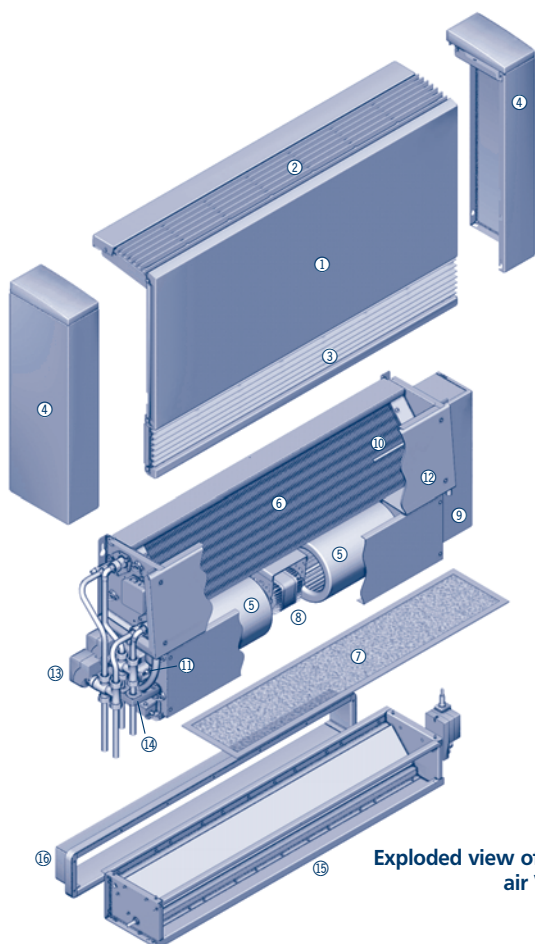
Kampmann fan convectors meet the demand for **controlled** heating, cooling, ventilation and filtering of ambient air, both as a stand-alone system or combined with other heating systems.

Fan convectors automatically or manually regulate the air volume and produce a comparable output yet require only 20% of the space of a conventional radiator. They can therefore be fitted anywhere within a room and are ideal for refurbishment work or retro-fits. They can be concealed within the ceiling void or wall-mounted with a contemporary, stylish casing. Where space in a room is at a premium, Kampmann can also supply series 1 Venkons at request.

The casings have a hard-wearing, environmentally-friendly powdercoated finish available in a range of colours.



Wall-mounted Venkon • Mixed air series 3



Exploded view of mixed air Venkon

- | | |
|------------------------|------------------------------|
| ① Steel casing | ⑪ Condensation pump |
| ② Outlet grille | ⑫ Main condensation tray |
| ③ Inlet grille | ⑬ Valve kit |
| ④ Casing side panels | ⑭ Side condensation tray |
| ⑤ Radial fan | ⑮ Air mixing module |
| ⑥ Cu/Al heat exchanger | ⑯ Fresh air induction spigot |
| ⑦ Filter with frame | |
| ⑧ 5-stage fan motor | |
| ⑨ Junction box | |
| ⑩ Supply air sensor | |



Recirculating air Venkon, series 3, free-standing model

Heating with LPWW is especially economical and efficient.

Cooling using a 2- or 4-pipe system using a chiller, spring water or process water.

Ventilation can be provided using room air or, even more efficiently, using fresh air.

Filtering of room air and fresh air is continuous.

Recirculating air operation is recommended for offices and living space, gyms and fitness rooms, conference rooms and salesrooms, hotel bedrooms and conservatories.

Mixed air operation is recommended for the same areas as above, but with the added benefit of an individual supply of fresh air.

There are a number of controls options for Kampmann fan convectors:

- cost-effective electro-mechanical control
- user-friendly "comfort" control

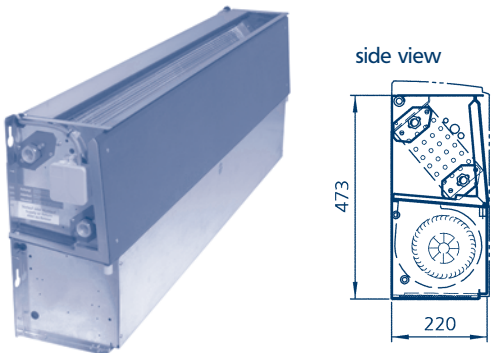
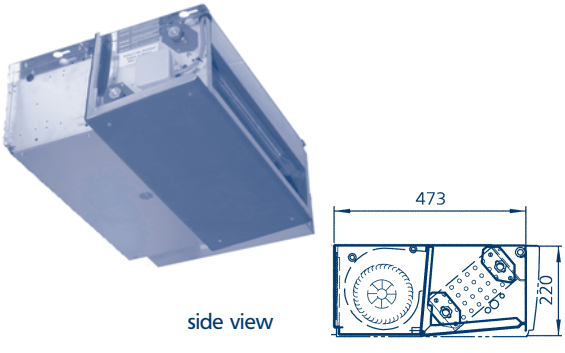
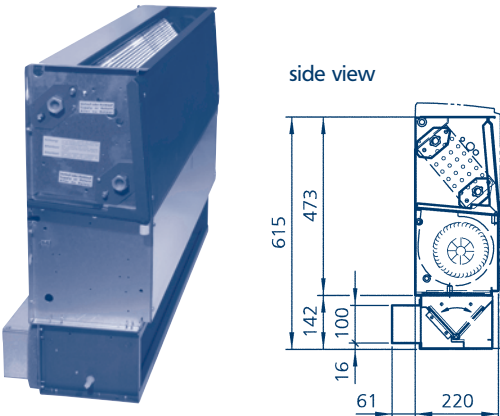
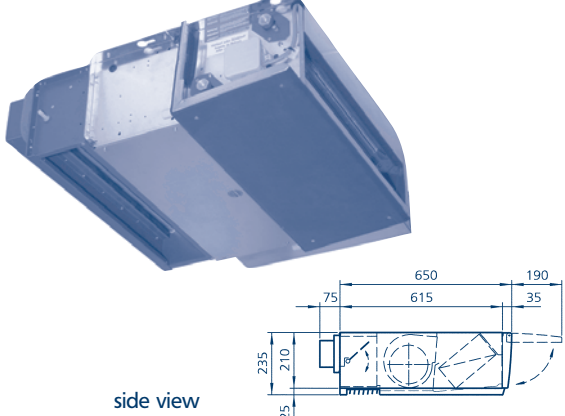
Plug-and-go units for simple, straightforward fitting on site.

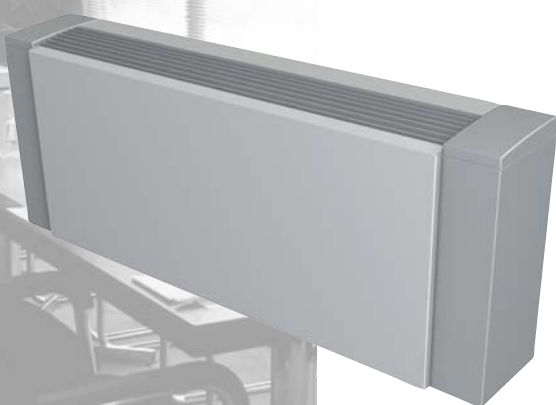
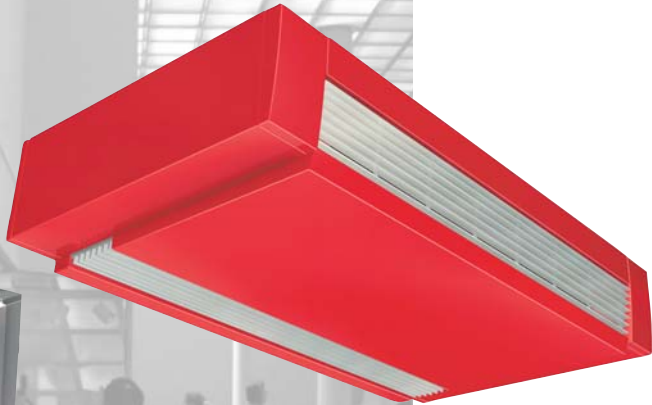
1.48 Venkon

Individual heating and ventilating comfort

Technical data • Recirculating air/Mixed air

Technical data – Venkon								
Size		1	2	3	4	5	6	7
Depth (without casing) mm		225 (220)						
Height – recirculating/mixed air mm		473/615						
Length (without casing) mm		850 (620)	1000 (770)	1150 (920)	1300 (1070)	1450 (1220)	1600 (1370)	2000 (1770)
Min. – max. air volume m ³ /h		165 – 440	225 – 520	295 – 760	255 – 875	330 – 960	395 – 1285	505 – 1420
Heat output LPHW 75/65 °C, t _{L1} = 20 °C	HE*: 2-pipe/3-row kW	2,52 – 5,48	3,46 – 6,78	4,54 – 9,64	4,11 – 11,30	5,18 – 12,30	6,19 – 16,00	8,02 – 18,70
	HE*: 2-pipe/4-row kW	2,73 – 6,26	3,75 – 7,68	4,93 – 11,00	4,39 – 12,80	5,58 – 14,00	6,68 – 18,30	8,62 – 21,10
	HE*: 4-pipe/1-row kW	1,83 – 3,32	2,68 – 4,55	3,54 – 6,37	3,43 – 7,64	4,28 – 8,52	5,00 – 10,40	6,65 – 13,1
Heat output LPHW 82/71 °C, t _{L1} = 20 °C	HE*: 2-pipe/3-row kW	2,8 – 6,3	4,0 – 7,7	5,1 – 10,9	4,7 – 12,9	5,9 – 14,0	7,1 – 18,2	9,1 – 21,3
	HE*: 2-pipe/4-row kW	3,1 – 7,2	4,3 – 8,8	5,6 – 12,5	5,0 – 14,6	6,4 – 16,0	7,6 – 20,8	9,8 – 24,0
	HE*: 4-pipe/1-row kW	2,1 – 3,8	3,1 – 5,2	4,0 – 7,3	3,9 – 8,7	4,9 – 9,7	5,7 – 11,8	7,6 – 14,9
Cooling output LPCW 7/12 °C, t _{L1} = 27 °C, 47 % r. F.	HE*: 2-pipe/3-row kW	1,08 – 2,07	1,56 – 2,77	2,09 – 4,00	1,99 – 4,83	2,46 – 5,29	2,83 – 6,36	3,81 – 7,99
	HE*: 2-pipe/3-row kW	1,14 – 2,31	1,64 – 3,05	2,20 – 4,43	2,06 – 5,32	2,66 – 6,15	2,97 – 7,09	3,97 – 8,76
	HE*: 4-pipe/3-row kW	1,08 – 2,07	1,56 – 2,77	2,09 – 4,00	1,99 – 4,83	2,46 – 5,29	2,83 – 6,36	3,81 – 7,99
* HE = heat exchanger								

		Wall-mounted	Ceiling-mounted
Basic units	recirculating air		
	mixed air		

		Designs and Fixing options (non-standard finishes)	
Casings	recirculating air	 Recirculating air Venkon, ceiling-mounted  Recirculating air Venkon, free-standing (front view) - standard finish  Recirculating air Venkon, wall-mounted	
	mixed air	 Mixed air Venkon, wall-mounted, shown with brushed stainless steel finish  Mixed air Venkon, ceiling-mounted	

Background photos: Corell®

All units shown with optional casings

Non-standard finishes on request