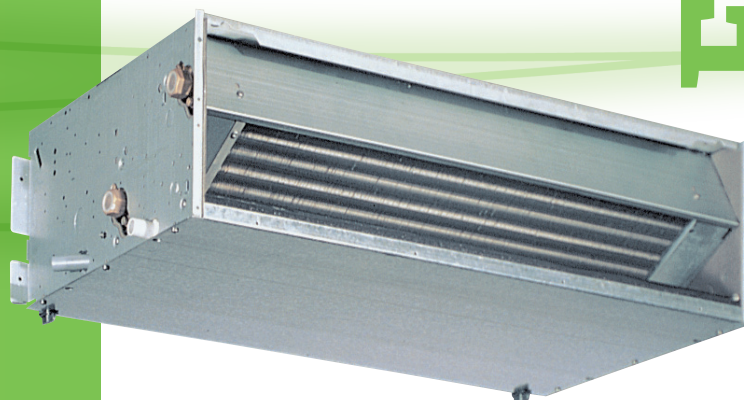


FHX



Fan coil  
FHX with  
germicidal lamp

**AERMEC**  
air conditioning

# FHX FAN COIL

## with germicidal lamp

FHX is Aermec's answer to the problem of air pollution in indoor environments.

FHX is fitted with a system of UV-C short-wave lamps with an effective germicidal action against the pathogenous agents in the air.

Downstream of the germicidal lamps, there's an ionic source with negative ions to eliminate the polluting particles left suspended in the air.

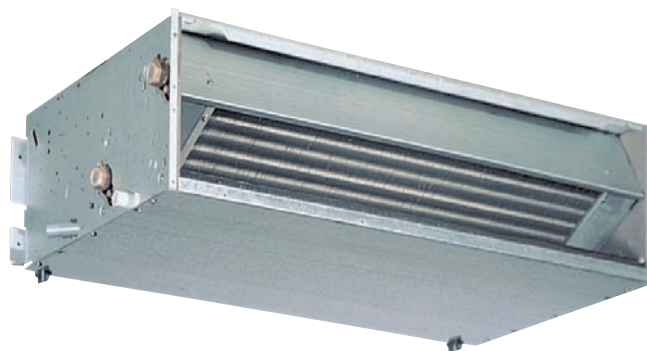
FHX is an innovative fan coil for air conditioning and heating in rooms with special air sterility requirements: hospitals, clinics, veterinary surgeries, analysis labs, pharmaceutical industries, alimentary industries, animal farms, etc.

### MAIN CHARACTERISTICS

- Available in 6 sizes and 3 versions:
  - FHX-UV: universal free-standing or wall/ceiling mounting
  - FHX-UVP: wall/ceiling mounting without cabinet
  - FHX-UVPO: wall/ceiling mounting without cabinet, with boosted motor at 7 speeds (3 selectable).
- EUROVENT certified.
- Exclusive device with germicidal lamps to sterilise the air, producing a microbiological reduction of 99.999% thanks to the inactivation of all the Gram - and Gram + micro-organisms.
- 3-row coil.
- 3-speed fan unit.
- Full compliance with accident prevention regulations.
- Soft flowing lines.
- Quiet operation.
- Reduced pressure drops across heat exchangers.
- Electric motors with permanently connected condensers.
- Easy installation and maintenance.
- Air filter easily removed and cleaned.
- Command and control via microprocessor thermostat supplied as an accessory:
  - FHX-UVP and UVPO: the control panel must be installed on the wall (PXAE)
  - FHX-UV: the control panel can be assembled on the unit (PXAI) or externally (PXAE).
- FHX-UV: metal protective cabinet with rustproof polyester paint, colour RAL9002 (FHX-UV).
- FHX-UV: delivery and suction grilles, colour RAL7044 (FHX-UV).
- Adjustable air distribution grille for UV version (except mod. 62 and 82).



FHX-UV



FHX-UVP  
FHX-UVPO



The FHX fan coil is purposely designed to reduce the streptococcus and staphylococcus found



above all in hospital environments:

- viruses that aid the transmission of illnesses such as influenza;
- gram-positive and gram-negative bacteria that cause

various pathologies;

- pathogenous allergens produced by dust mites (Dermatophagoides pteronyssinus and farinae: DPP and DPF), leading to rhinitis, coughs, asthma, etc.;



- pollens from plants and herbs, causing sneezing,

swollen eyes, blocked nose, runny nose, coughs,



breathlessness, hayfever, asthma attacks, etc.;

- mildew spores: causing allergies similar to those produced by pollens;
- other allergens commonly present in the home: cement dust, pet hair, etc.

#### Micro-organism destruction table

Ventilation speed	Virus (%)	Gram- bacteria (%)	Gram+ bacteria (%)	Total bacteria (%)
Minimum	100	100	100	100
Average	100	100	100	100

#### Technical card for air sterilisation system

Supply voltage	230V single phase 50HZ
Germicidal lamp UV-C	2 low pressure mercury steam tubes
Wavelength UV-C	253.7 nanometres
Ultraviolet energy irradiated	35700 microW/cm2
Microbiological reduction effectiveness	Up to 99.99%
Effective life of the germicidal lamp	6000 hours (indicator light warning)
Mechanical filter cleaning	Every 200 hours (indicator light warning)
Fittings	Ioniser for negative ions Electronic meter
Ozone emission	None

### Coil with germicidal lamp

- Patented system.
- Effective against viruses and bacteria.
- Microbiological reduction up to 99.999%



## Technical data

Mod.		FHX 22	FHX 32	FHX 42	FHX 50	FHX 62	FHX 82
Heating capacity	W (max.)	3400	4975	7400	8620	12920	15140
	W (av.)	2700	4085	6415	7530	10940	13350
	W (min.)	1915	3380	5115	5420	8330	10770
Heating capacity (inlet water 50°C)	W (max.) (E)	2100	3160	4240	4900	6460	7990
Water flow rate	l/h	292	427	636	741	1110	1300
Water pressure drops	kPa	6.3	14.2	14.1	14.2	14.8	19.8
Total cooling capacity	W (max.) (E)	1500	2210	3400	4190	4860	7420
	W (av.)	1330	2055	2800	3640	4660	5500
	W (min.)	1055	1570	2310	2840	3950	4710
Sensible cooling capacity	W (max.) (E)	1240	1750	2760	3000	3980	5680
	W (av.)	1055	1540	2115	2750	3510	4250
	W (min.)	755	1100	1635	2040	2825	3450
Water flow rate	l/h	258	380	585	721	836	1276
Water pressure drops	kPa (E)	5.8	16.6	14.3	19.3	11.6	13.5
air flow rate	m <sup>3</sup> /h (max.)	290	450	600	720	920	1140
	m <sup>3</sup> /h (av.)	220	350	460	600	720	930
	m <sup>3</sup> /h (min.)	140	260	330	400	520	700
Number of fans	no.	1	2	2	2	3	3
Sound pressure	dB (A) (max.)	41.5	39.5	42.5	47.5	48.5	53.5
	dB (A) (av.)	34.5	32.5	35.5	42.5	42.5	48.5
	dB (A) (min.)	22.5	25.5	28.5	33.5	33.5	41.5
Sound power	dB (A) (max.) (E)	50	48	51	56	57	62
	dB (A) (av.) (E)	43	41	44	51	51	57
	dB (A) (min.) (E)	31	34	37	42	42	50
Water contents	l	0.79	1.11	1.48	1.48	2.52	2.52
Total input power	W (FHX-UV/UVPO)	50	69	82	92	182	206
	(FHX-UVPO)	79	122	136	107	197	235
Total input power	A (FHX-UV/UVP)	0.24	0.33	0.40	0.47	0.84	0.93
	(FHX-UVPO)	0.37	0.57	0.63	0.48	0.92	1.06
3-row coil connections	diam	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"
1-row coil connections (BV)	diam	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

Power supply = 230V ~ 50Hz (E)

Performance values refer to the following conditions:

Sound pressure measured in semi-reverberating chamber of 85 m<sup>3</sup> and with reverberation time Tr = 0.5s. (E) = EUROVENT certified performances



### COOLING:

- Room air temperature 27°C D.B., 19°C W.B.;
- maximum speed;
- Water inlet temperature 7°C; Δt water 5°C.
- average and minimum speed;
- Water inlet temperature 7°C;
- Water flow rate as at maximum speed.

### HEATING:

- Room air temperature 20°C D.B.;
- maximum speed;
- Water inlet temperature 70°C;
- Δt water 10°C.
- average and minimum speed;
- Water inlet temperature 70°C;

- Water flow rate as at maximum speed.
- maximum speed (water inlet 50°C);
- Water inlet temperature 50°C;
- Water flow rate as in cool mode.

## Size data

		22UV	32UV	42UV	50UV	62UV	82UV
Height (mm)	D	520	520	520	520	590	590
Width (mm)	E	750	980	1200	1200	1320	1320
Gross weight (kg)	kg	16	26	25	25	35	35
		22UVP/UVPO	32UVP/UVPO	42UVP/UVPO	50UVP/UVPO	62UVP/UVPO	82UVP/UVPO
	A	572	823	1043	1043	1205	1205
	B	522	753	973	973	1122	1122
	C	440	671	891	891	1102	1102
Weight	kg	16	26	25	25	35	35



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