

# PRODUCT CATALOGUE



PROVIDING **GLOBAL SYSTEM** SOLUTIONS

HIGH PRESSURE  
MODULAR  
FAN COIL UNIT  
HH



## INTRODUCTION TO THE RANGE

The Comfair HH fan coil features a high available pressure (105 to 260 Pa) and is offered in 7 sizes.

## CONSTRUCTION

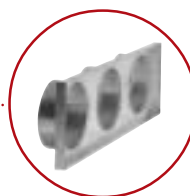
- **Fan unit:** This consists of one or two centrifugal twin-intake fans with horizontally extending aluminium blades, with static and dynamic balancing. The overload-protected electric motor has three operating speeds. It is directly coupled to the fans and is mounted on elastic mountings. The whole assembly is particularly quiet-running..
- **Frame:** Made from very thick galvanized sheet (1 mm).
- **Exchanger:** The exchangers are made from copper tube with aluminium fins crimped by mechanical expansion of the tubes. The connection is of the twist-proof female type; the collectors are fitted with easily accessible air bleed valves.
- **Control panel:** Comfair HH fan convectors must be controlled by a remote control module, to be ordered separately. There is a wide range of models to meet all requirements.

## OPTIONS (factory fitted)

- Two- or three-way valves
- Stop valves
- Condensate drain pump

## ACCESSORIES (delivered unassembled)

- Bulb thermostat for heated environment (TA)
- Minimum water temperature thermostat (TC)
- Remote controls (CD1, CD2/X1, etc.)
- Interface card for controlling 4 units (SDI)
- Air filter (SFA)
- Auxiliary condensate tray (UTC)
- Auxiliary coils, one set
- Electrical resistance heater (SRE)
- Section with manual fresh air damper (SSP)
- Intake or discharge plenum (PAM)
- 90° intake or discharge plenum (RAM)
- Intake or distribution section with circular connections (BAM)



HH 4 → 51 kW

## GENERAL DATA

COMFAIR		HH	10	20	30	40	50	60	70
<b>2 pipes system - 3 rows coil</b>									
Cooling capacity <sup>(1)</sup>	Sensible	kW	3,25	5,64	7,36	8,63	11,02	21,13	39,50
	Total	kW	4,01	7,05	9,20	10,60	13,09	27,81	50,64
Heating capacity <sup>(2)</sup>		kW	1,97	8,51	11,21	12,80	16,82	32,43	60,11
Water flow		l/h	691	1215	1586	1827	2257	4795	8731
Water pressure drop	Cooling	kPa	20	31	34	32	36	34	40
	Heating	kPa	17	27	29	28	31	29	34
Heating capacity <sup>(3)</sup>		kW	8,32	14,20	18,72	21,35	28,25	53,88	100,07
Electrical heater	Standard	kW	3,00	6,00	6,00	9,00	9,00	12,00	18,00
	Haute	kW	4,50	9,00	9,00	12,00	12,00	18,00	24,00
Airflow		m <sup>3</sup> /h	837	1423	1951	2131	3002	4678	9250
Sound power level <sup>(5)</sup>		dB(A)	68	69	70	69	74	78	81
Sound pressure level at 2,5 m <sup>(6)</sup>		dB(A)	52	53	54	53	58	62	65
<b>4 pipes system - 3 + 1 rows coil</b>									
Cooling capacity <sup>(1)</sup>	Sensible	kW	3,11	5,33	7,05	8,02	10,56	20,19	37,79
	Total	kW	3,60	6,35	8,29	9,55	12,26	24,99	45,56
Heating capacity		kW <sup>(3)</sup>	4,18	7,00	9,15	10,54	13,99	38,83	70,20
		kW <sup>(4)</sup>	4,65	7,79	10,17	11,74	15,58	43,26	78,2
Water flow	Cooling	l/h <sup>(1)</sup>	621	1095	1429	1646	2114	4308	7856
	Heating	l/h <sup>(3)</sup>	361	603	789	909	1206	3348	6051
Water pressure drop	Cooling	kPa	16	24	28	25	31	27	32
	Heating	kPa	27	23	36	21	34	33	36
Airflow		m <sup>3</sup> /h	795	1352	1853	2024	2852	4444	8788
Sound power level <sup>(5)</sup>		dB(A)	68	69	70	70	73	78	81
Sound pressure level at 2,5 m <sup>(6)</sup>		dB(A)	52	53	54	54	57	62	65
<b>Available static pressure</b>									
2 pipes system	Pa	Min speed	90	80	115	105	135	220	220
		Med speed	95	95	130	130	180	240	240
		Max speed	105	105	135	135	205	260	260
4 pipes system	Pa	Min speed	75	70	95	90	110	180	180
		Med speed	85	80	115	115	155	210	210
		Max speed	95	90	120	120	180	220	220

Nominal measurement conditions: Maximum speed - Unit not connected (ESP = 0 Pa)

(1) Cooling: Water inlet temperature: 7°C; water outlet temperature: 12°C; air inlet temperature: 27°C D.B - 19°C W.B

(2) Heating: Water inlet temperature: 50°C; water flow rate as in cooling mode; air inlet temperature: 20°C

(3) Heating: Water inlet temperature: 70°C; water outlet temperature: 60°C; air inlet temperature: 20°C

(4) Heating: Water inlet temperature: 80°C; water outlet temperature: 60°C; air inlet temperature: 20°C

(5) Sound power level: according to ISO 23741

(6) Sound pressure level: in semi-reverberating field

## PHYSICAL DATA



COMFAIR		HH	10	20	30	40	50	60	70
Standard coil	Rows	Nb	3	3	3	3	3	4	4
	Connections	Φ mm	1/2"	1/2"	3/4"	3/4"	1"	1" 1/4	1" 1/2
Auxiliary coil	Rows	Nb	1	1	1	1	1	2	2
	Connections	Φ mm	1/2"	1/2"	1/2"	1/2"	3/4"	1"	1" 1/4
Drain connection (out)		Φ mm	20	20	20	20	20	20	20
A		mm	650	1000	1100	1339	1339	1341	2028
B		mm	533	533	533	533	533	853	853
C		mm	299	299	324	324	374	674	674
Net weight		kg	28	36	41	46	57	117	192



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