

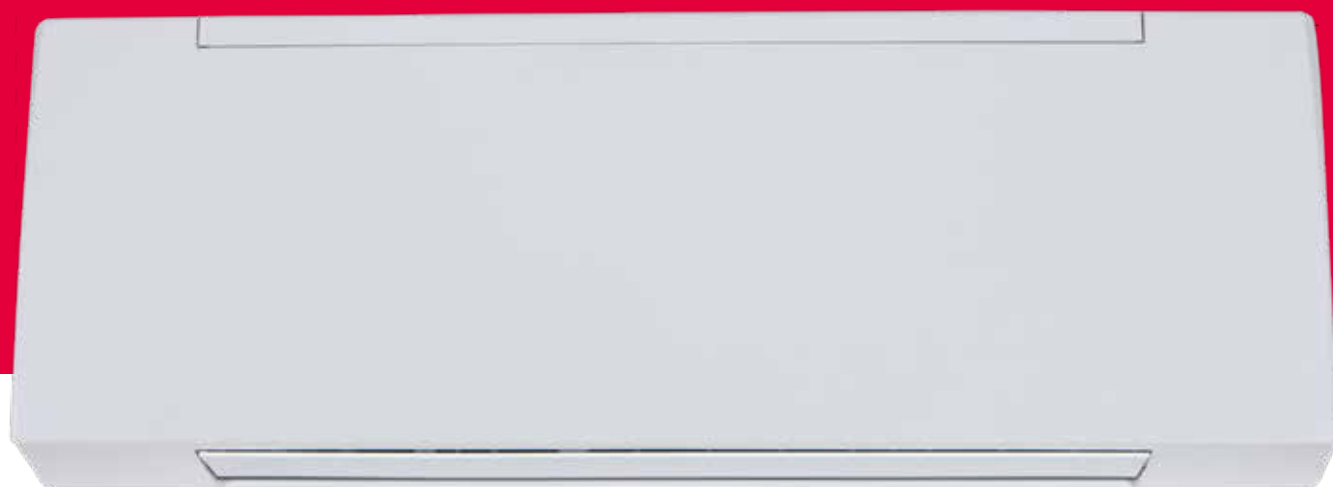
redge[®]



COMFORTAIR HD3

COMFORTAIR HD3 ECM

High wall fan coil units



CFE

MODEL

CFE - COMFORTAIR HD3
CFE EC - COMFORTAIR ECM HD3

TS

VERSION

--- - Basic
TS - IR control
MB - MB board

3V

VALVE

--- - no valve
2V - 2 way
3V - 3 way

E

HEATER

--- - Basic
E - Electric heater

2

SIZE

1
2
3
4

2 PIPE UNIT

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

MODEL		COMFORTAIR HD3 1						COMFORTAIR HD3 2					
SPEED		1	2	3	4	5	6	1	2	3	4	5	6
		MIN	MED	MAX				MIN		MED	MAX		
Air flow	m ³ /h	205	270	340	375	470	500	250	305	365	400	480	545
Cooling total emission	kW	1,23	1,49	1,74	1,85	2,13	2,20	1,42	1,62	1,82	1,93	2,16	2,32
Cooling sensible emission	kW	0,91	1,13	1,34	1,44	1,70	1,77	1,06	1,23	1,41	1,51	1,73	1,89
Heating emission	kW	1,34	1,68	2,02	2,18	2,58	2,71	1,58	1,85	2,13	2,29	2,62	2,88
Dp Cooling	kPa	4,8	6,8	9,0	10,1	12,9	13,8	6,2	7,9	9,8	10,8	13,2	15,1
Dp Heating	kPa	4,5	6,8	9,4	10,8	14,7	15,9	6,1	8,1	10,4	11,8	15,1	17,8
Fan	W	12	14	17	18	24	30	12	14	18	20	24	32
Sound power (Lw)	dB(A)	35	41	46	48	52	53	39	43	47	49	53	55
Sound pressure (Lp) (1)	dB(A)	26	32	37	39	43	44	30	34	38	40	44	46

MODEL		COMFORTAIR HD3 3						COMFORTAIR HD3 4					
SPEED		1	2	3	4	5	6	1	2	3	4	5	6
		MIN	MED	MAX					MIN		MED	MAX	
Air flow	m ³ /h	280	375	480	545	730	780	300	440	500	610	675	790
Cooling total emission	kW	1,87	2,30	2,75	3,00	3,59	3,73	1,97	2,60	2,83	3,23	3,43	3,76
Cooling sensible emission	kW	1,33	1,67	2,03	2,24	2,77	2,90	1,41	1,91	2,10	2,44	2,62	2,93
Heating emission	kW	1,89	2,37	2,93	3,23	4,04	4,24	2,00	2,73	3,02	3,53	3,80	4,28
Dp Cooling	kPa	11,2	16,2	22,5	26,3	36,4	39,1	14,1	23,0	27,2	34,0	38,5	45,1
Dp Heating	kPa	9,1	13,8	20,1	24,1	35,9	39,2	12,7	22,2	26,7	35,2	40,4	49,8
Fan	W	16	21	26	29	38	46	17	23	27	32	35	48
Sound power (Lw)	dB(A)	35	40	45	51	55	57	36	43	46	51	54	57
Sound pressure (Lp) (1)	dB(A)	26	31	36	42	46	48	27	34	37	42	45	48

(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.
MIN-MED-MAX = Speeds connected in the factory

OPERATION LIMITS

DESCRIPTION		UOM	VALUE
Water flow	Coil maximum working pressure	bars	10
		kPa	1000
	Lowest water inlet temperature (1)	°C	+6
	Highest water inlet temperature	°C	+70
Power supply	Single-phase rated operating voltage	V/Hz	230/50

(1) for entering water temperatures below +6 °C, contact the technical department

INSTALLATION HEIGHT

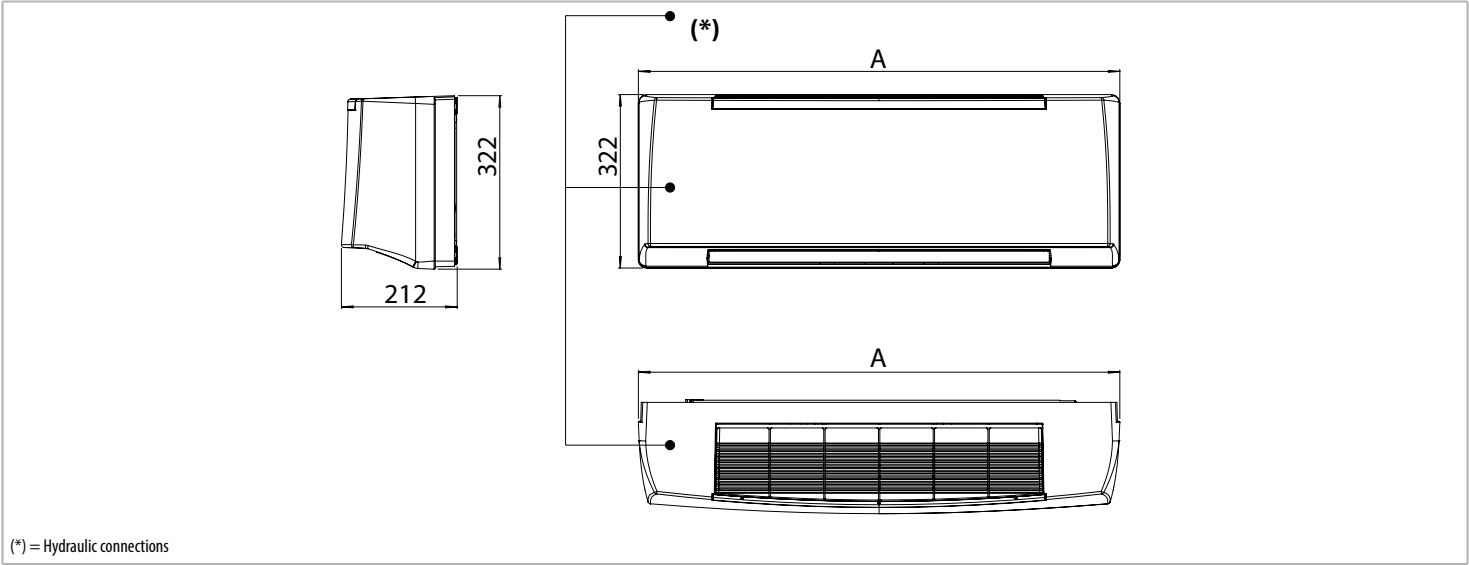
MODEL		COMFORTAIR HD3 1	COMFORTAIR HD3 2	COMFORTAIR HD3 3	COMFORTAIR HD3 4
Minimum installation height	m	2			
Maximum installation height	m	3			

MOTOR ELECTRICAL DATA - MAX. ABSORPTION

MODEL		COMFORTAIR HD3 1	COMFORTAIR HD3 2	COMFORTAIR HD3 3	COMFORTAIR HD3 4
Motor absorption	W	30	32	46	48
Current absorbed	A	0,16		0,23	

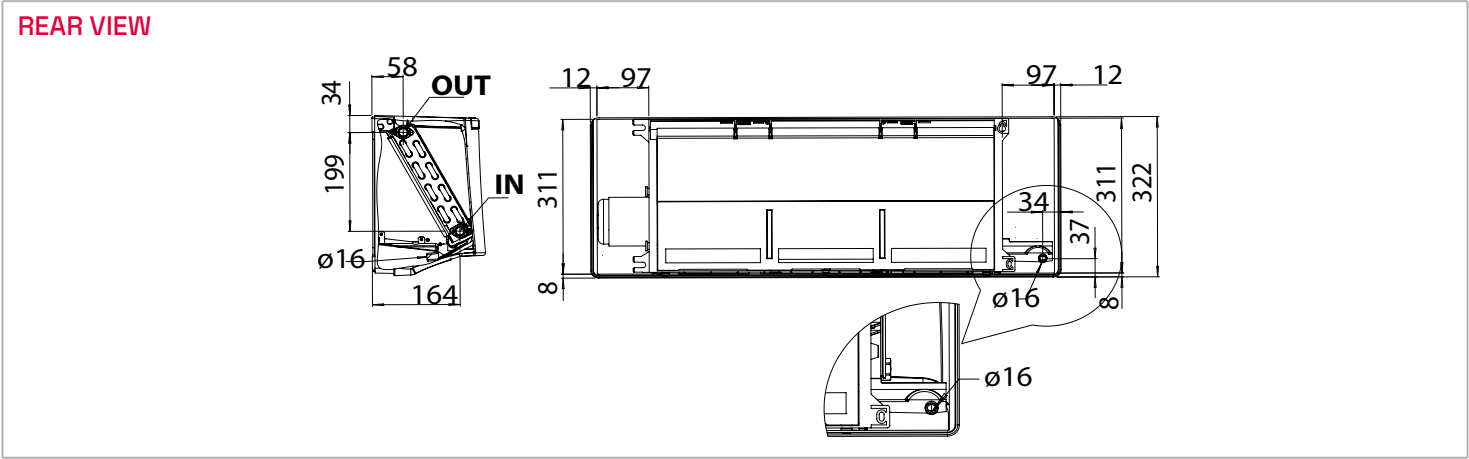
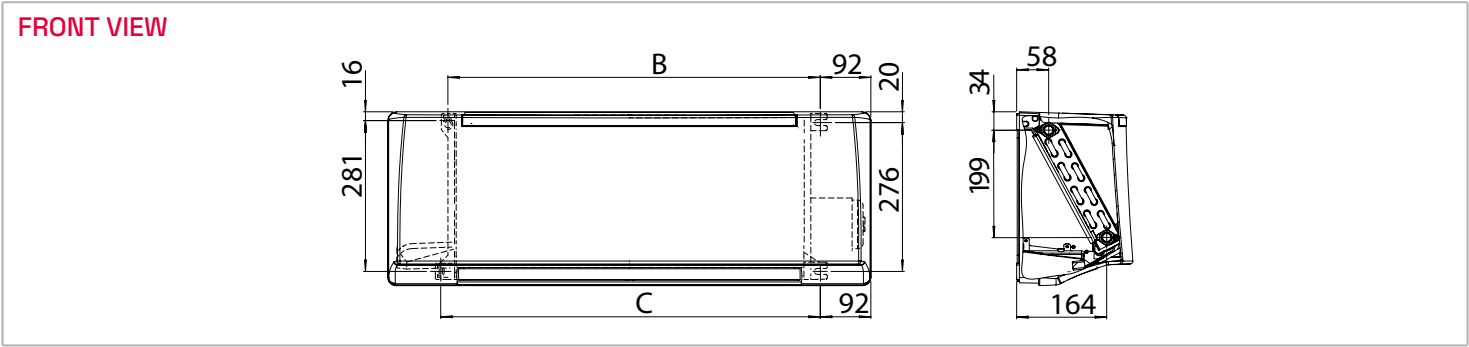


DIMENSIONS



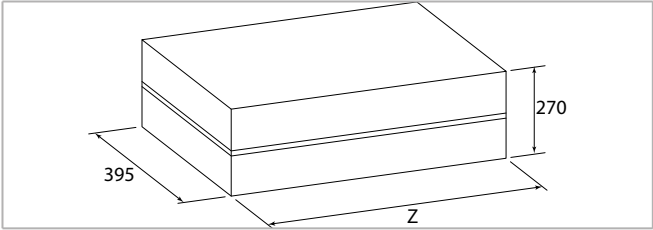
MODEL		COMFORTAIR HD3 1	COMFORTAIR HD3 2	COMFORTAIR HD3 3	COMFORTAIR HD3 4
A	mm	880		1185	

FIXING DIMENSIONS



MODEL		COMFORTAIR HD3 1	COMFORTAIR HD3 2	COMFORTAIR HD3 3	COMFORTAIR HD3 4
B	mm	678		983	
C	mm	691		996	

PACKED UNIT



MODEL		COMFORTAIR HD3 1	COMFORTAIR HD3 2	COMFORTAIR HD3 3	COMFORTAIR HD3 4
Z	mm	950		1255	

WEIGHT

Weight with packaging

MODEL		COMFORTAIR HD3 1	COMFORTAIR HD3 2	COMFORTAIR HD3 3	COMFORTAIR HD3 4
Weight with packaging without valves	kg	12		16	
Weight with packaging with valves	kg	13		17	

Weight without packaging

MODEL		COMFORTAIR HD3 1	COMFORTAIR HD3 2	COMFORTAIR HD3 3	COMFORTAIR HD3 4
Weight without packaging without valves	kg	10		13	
Weight without packaging with valves	kg	11		14	

2 PIPE UNIT

The following standard rating conditions are used:

COOLING

Entering air temperature: + 27 °C d.b. + 19 °C w.b.

Water temperature: +7 °C E.W.T. +12 °C L.W.T.

HEATING

Entering air temperature: + 20 °C

Water temperature: +45 °C E.W.T. +40 °C L.W.T.

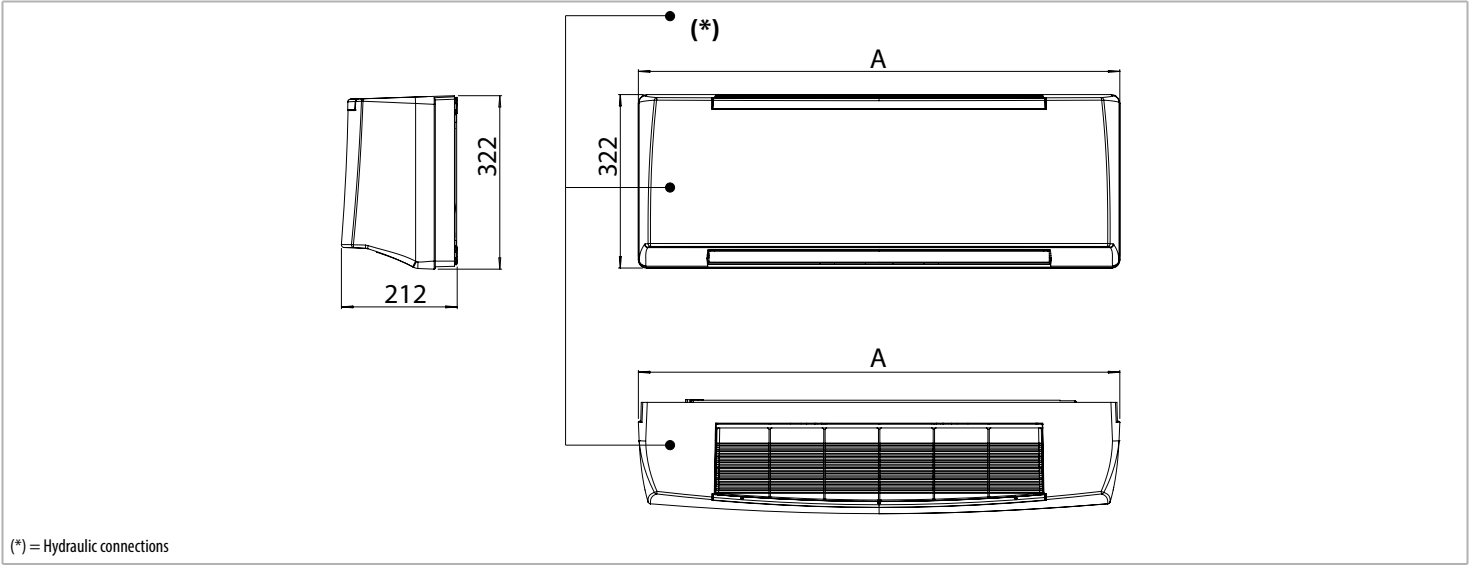
MODEL		COMFORTAIR HD3 ECM 0						COMFORTAIR HD3 ECM 1				
INVERTER SPEED SIGNAL (VDC)		1	2	3	5	7,5	10	1	3	5	7,5	10
		MIN			MED		MAX	MIN		MED		MAX
Air flow	m³/h	130	148	230	290	340	415	190	240	290	355	415
Cooling total emission	kW	0,61	0,86	1,28	1,57	1,78	1,98	1,16	1,38	1,57	1,80	1,98
Cooling sensible emission	kW	0,47	0,66	0,90	1,19	1,38	1,56	0,85	1,03	1,19	1,39	1,56
Heating emission	kW	0,72	1,05	1,48	1,78	2,15	2,35	1,26	1,53	1,78	2,09	2,35
Dp Cooling	kPa	1,4	2,6	5,2	7,7	9,4	11,2	5,0	5,9	7,7	9,4	11,2
Dp Heating	kPa	1,6	3,0	5,6	7,5	12,0	12,4	4,0	5,7	7,5	10,0	12,4
Fan	W	3	4	7	9	10	15	6	7	9	11	15
Sound power (Lw)	dB(A)	26	30	38	46	49	52	35	39	46	48	52
Sound pressure (Lp) (1)	dB(A)	17	21	29	37	40	43	26	30	37	39	43

MODEL		COMFORTAIR HD3 ECM 2					COMFORTAIR HD3 ECM 3				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10	1	3	5	7,5	10
		MIN		MED		MAX	MIN		MED		MAX
Air flow	m³/h	260	315	375	440	510	270	345	420	520	620
Cooling total emission	kW	1,46	1,66	1,86	2,05	2,24	1,82	2,19	2,52	2,92	3,27
Cooling sensible emission	kW	1,09	1,27	1,45	1,63	1,81	1,30	1,59	1,85	2,17	2,48
Heating emission	kW	1,63	1,90	2,18	2,46	2,74	1,83	2,24	2,63	3,11	3,57
Dp Cooling	kPa	6,9	8,2	10,1	12,0	14,1	10,7	14,8	19,0	24,8	30,4
Dp Heating	kPa	6,4	8,4	10,8	13,4	16,3	8,7	12,5	16,6	22,5	28,8
Fan	W	7	9	12	16	21	6	8	11	15	20
Sound power (Lw)	dB(A)	40	44	47	51	55	37	42	45	49	53
Sound pressure (Lp) (1)	dB(A)	31	35	38	42	46	28	33	36	40	44

MODEL		COMFORTAIR HD3 ECM 4				
INVERTER SPEED SIGNAL (VDC)		1	3	5	7,5	10
		MIN		MED		MAX
Air flow	m³/h	375	465	550	665	770
Cooling total emission	kW	2,33	2,71	3,03	3,41	3,72
Cooling sensible emission	kW	1,69	2,00	2,27	2,61	2,89
Heating emission	kW	2,40	2,85	3,26	3,76	4,20
Dp Cooling	kPa	16,5	21,6	26,6	32,9	38,7
Dp Heating	kPa	14,1	19,3	24,4	31,7	38,6
Fan	W	9	12	16	22	30
Sound power (Lw)	dB(A)	43	46	49	53	57
Sound pressure (Lp) (1)	dB(A)	34	37	40	44	48

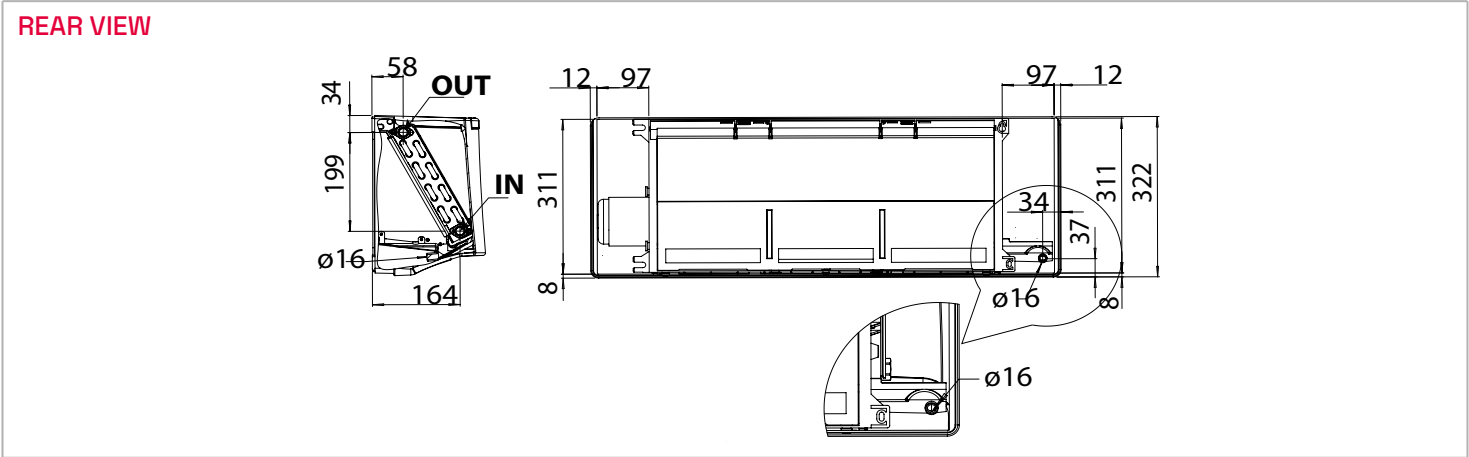
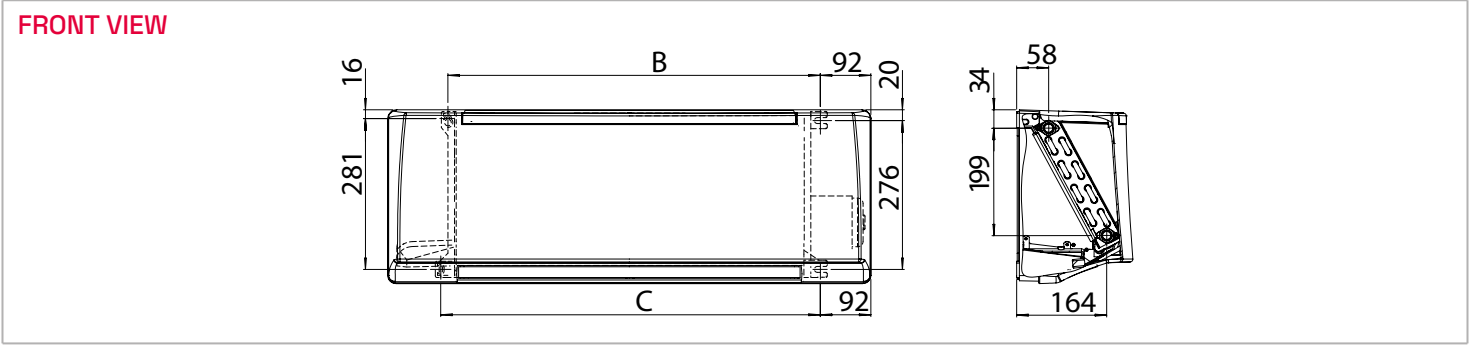
(1) The sound pressure levels are 9 dB (A) lower than the sound power levels, apply to the reverberant field of a 100 m³ room and a reverberation time of 0.5 sec.

DIMENSIONS



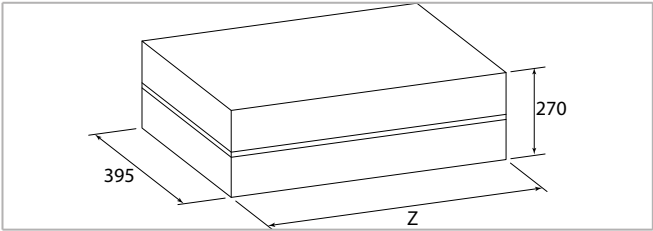
MODEL		COMFORTAIR HD3 ECM 0	COMFORTAIR HD3 ECM 1	COMFORTAIR HD3 ECM 2	COMFORTAIR HD3 ECM 3	COMFORTAIR HD3 ECM 4
A	mm	880			1185	

FIXING DIMENSIONS



MODEL		COMFORTAIR HD3 ECM 0	COMFORTAIR HD3 ECM 1	COMFORTAIR HD3 ECM 2	COMFORTAIR HD3 ECM 3	COMFORTAIR HD3 ECM 4
B	mm	678			983	
C	mm	691			996	

PACKED UNIT



MODEL		COMFORTAIR HD3 ECM 0	COMFORTAIR HD3 ECM 1	COMFORTAIR HD3 ECM 2	COMFORTAIR HD3 ECM 3	COMFORTAIR HD3 ECM 4
Z	mm	950			1255	

WEIGHT

Weight with packaging

MODEL		COMFORTAIR HD3 ECM 0	COMFORTAIR HD3 ECM 1	COMFORTAIR HD3 ECM 2	COMFORTAIR HD3 ECM 3	COMFORTAIR HD3 ECM 4
Weight with packaging without valves	kg	12			16	
Weight with packaging with valves	kg	13			17	

Weight without packaging

MODEL		COMFORTAIR HD3 ECM 0	COMFORTAIR HD3 ECM 1	COMFORTAIR HD3 ECM 2	COMFORTAIR HD3 ECM 3	COMFORTAIR HD3 ECM 4
Weight without packaging without valves	kg	10			13	
Weight without packaging with valves	kg	11			14	