FAN COIL UNIT

YPHBC 200~1600



FAN COIL UNIT YPHBC Series

Horizontal unit with plenum and washable filter, rear air inlet and front air outlet for false ceiling concealed installation

Characteristics

Air distribution plenum
Washable polypropylene filter
3- speed fan motor
Low noise

Available configurations

YPHBC 200 C 2 - R - 2 - 1
(1) (2) (3) (4) (5)

(1) Nominal Air Volume:CFM
(2) Quantity of Coils:
2: Three coils(Two pipes)
4: Four coils (Four pipes)
5: Four coils (Two pipes)
(3) Direction of Nozzle:
L Left hand side
R Right hand side
(4) Electric Heating Power: KW
(5) Power Supply:
1 220/1/50
3 230/1/60
6 Other power supply

Applications



Functions and features



Optional

3-way valve
2-way valve
Mechanical controller
Digital controller (LCD screen)
Infrared remote controller
Stainless steel flexible connection pipe
Max E.S.P value: 80Pa

2 pipes installation- 3 rows main coil

Model	YPHBC	Size	200C			300C			400C			600C			800C			1000C			1200C			1400C			1600C		
	Speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
Air side	Air flow	m^3/h	340	260	220	510	460	330	680	540	420	1020	830	660	1360	1050	800	1700	1300	950	2040	1670	1300	2380	2020	1600	2740	2400	2000
	Maximum E.S.P.	Pa	12																										
General	Nominal cooling capacity	KW	2.06	1.79	1.52	2.98	2.45	2.16	4.01	3.65	3.35	5.35	5.01	4.65	7.71	6.82	6.25	8.8	7.85	6.32	10.7	9.80	9.01	12.56	11.40	10.10	15.70	13.40	11.80
	Sensible cooling capacity	KW	1.48	1.29	1.09	2.15	1.76	1.56	2.89	2.63	2.41	3.85	3.61	3.35	5.55	4.91	4.50	6.34	5.65	4.55	7.70	7.06	6.49	9.04	8.21	7.27	11.30	9.65	8.50
	Nominal Heating capacity	KW	3.40	2.90	2.40	5.3	4.12	3.52	6.51	5.62	4.85	9.3	8.35	7.58	12.8	10.5	9.28	15.1	13.2	10.5	17.3	15.1	13.2	19.20	17.30	15.40	23.40	21.40	18.70
Coil side	Water flow	l/s	0.09			0.13			0.18			0.25			0.37			0.42			0.50			0.59			0.73		
	Pressure drop	KPa	25.00			17.30			25.70			33.00			32.30			23.50			35.00			40.00			42.00		
	Maximum working pressure	MPa	1.60																										
Fan	Structure		Double air inlet forward multi- blades centrifugal fan																										
	Nr.		1			2			2			2			3			4			4			4			5		
Motor	Power input	W	48	43	27	64	57	41	82	71	51	115	107	89	170	154	119	204	172	148	248	210	186	297	249	228	325	270	240
	Noise	dB(A)	34	28	23	36	28	24	39	33	27	44	38	30	46	41	32	47	42	32	49	45	34	50	46	36	50	47	36
	Power supply		220V/1P/50Hz																										
Dimension	Width	mm	760			930			1060			1290			1510			1720			1920			2020			2220		
	Depth	mm	528			528			528			528			528			528			528			528			528		
	Height	mm	230			230			230			230			230			230			230			230			230		
Pipe size	Inlet/outlet nozzle	DN	20																										
	Condensate pipe diameter	DN	20																										
	Weight	kg	16.0			17.0			19.0			22.0			31.0			33.0			37.0			40.0			45.0		
Loading qty 20' 40' 40H'		Pcs	216	464	522	176	384	432	160	352	396	128	272	306	112	232	261	104	224	252	88	192	216	88	176	198	80	176	198

4 pipes installation- 3-row cooling coil +1 row heating coil

Model	YPHBC	Size	200C			300C			400C			600C			800C			1000C			1200C			1400C			1600C		
	Speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
Air side	Air flow	m^3/h	340	260	220	510	460	330	680	540	420	1020	830	660	1360	1050	800	1700	1300	950	2040	1670	1300	2380	2020	1600	2740	2400	2000
	Maximum E.S.P.	Pa	12																										
General	Nominal cooling capacity	KW	1.88	1.60	1.41	2.80	2.38	2.10	3.73	3.18	2.80	5.56	4.73	4.17	7.37	6.27	5.53	8.55	7.25	6.12	10.40	9.15	8.27	12.18	10.90	9.38	15.20	12.80	11.10
	Sensible cooling capacity	KW	1.35	1.15	1.02	2.02	1.71	1.51	2.69	2.29	2.02	4.00	3.41	3.00	5.31	4.51	3.98	6.16	5.22	4.41	7.41	6.59	5.95	8.77	7.85	6.75	10.94	9.22	7.99
	Nominal Heating capacity	KW	1.79	1.53	1.17	2.74	2.33	1.80	3.58	2.85	2.32	5.34	4.55	3.53	6.69	5.68	4.45	8.25	7.04	5.52	10.03	8.52	6.68	12.02	10.40	8.88	14.52	12.13	10.12
Coil side	Water flow	l/s	0.09			0.13			0.18			0.27			0.35			0.41			0.50			0.58			0.73		
	Pressure drop	KPa	25.00			17.30			25.70			33.00			32.30			23.50			35.00			40.00			42.00		
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Note:
Cooling rated conditions: air inlet 27°C(DB)/19.5°C(WB). Water inlet 7°C, water inlet/outlet temperature difference 5 °C.
Heating rated conditions: air inlet 20°C(DB), hot water inlet 60°C, the hot water flow is the same as the cooling water flow.
Noise measured at 1m in open field.