

BROCHURE

Medium Static Blower

ThermalTrue®
HVAC & R

Chilled Water Series SBM30_150CW





NOMENCLATURE

SBM	30, 40, 50, 60, 75, 100, 125, 150	CW4	SA/HA/CA	PSC/HMF/ECF
Series	Capacity in kBtu/h	Chilled Water 4 Row	SA : Std Ambient 35°C HA : High Ambient 45°C CA : Corrosive Ambient	PSC : Permanent Squirrel Cage Motor HMF : BLDC Motor ECF : EC Fan

SPECIFICATION

MODEL SBM-CW			SBM30CW	SBM40CW	SBM50CW	SBM60CW
GENERAL DATA						
CAPACITY	Total Capacity	W	9.914	13.652	15.917	20.631
		Btu/h	33.825	46.579	54.309	70.393
	Sensible Capacity	W	7.030	9.548	11.470	14.641
		Btu/h	23.985	32.579	39.135	49.956
	SHR		0,71	0,70	0,72	0,71
AIR FLOW		CMH	1.631	2.175	2.718	3.398
		CFM	960	1.280	1.600	2.000
EXTERNAL STATIC PRESSURE		Pa	100			
		inWG	0,40			
WATER FLOW		CMH	1,70	2,34	2,73	3,54
		USGpm	7,50	10,32	12,04	15,60
WATER PRESSURE DROP		kPa	13,10	26,70	6,30	11,50
		inWG	52,6	107,2	25,3	46,2
CASING	Frame		Anodised extruded aluminium profile and nylon corner piece			
	Panel		GI finish			
	Insulation		15mm PU			
DIMENSION	Height	mm	490	490	490	490
	Width	mm	670	820	1020	1220
	Depth	mm	730	730	730	730
CONNECTION	Water IN/OUT	in	1	1	1	1 1/2
	Drain Pipe Size	in	1			
COIL SPECIFICATION						
COIL	Type		Aluminium fin mechanically bonded to seamless copper tube			
	Face Area	m2	0,20	0,26	0,34	0,42
	Entering (DB/WB)	°C/°C	26.7 / 19.0			
	Leaving (DB/WB)	°C/°C	13.6/12.4	13.3/12.2	13.8/12.7	13.6/12.4
	Face Velocity	m/s	2,27	2,32	2,22	2,25
	ΔP	Pa	88	92	85	87
	Condensate Rate	g/s	1,10	1,60	1,80	2,40
FAN & MOTOR SPECIFICATION						
BLOWER	Type		Forward Curve Centrifugal Drive Driven			
	Size		9-9 I	9-9 I	9-9 III	9-9 I
	Quantity	set	1	1	1	2
POWER SUPPLY		V-Ø-Hz	220-240V/1Ø/50Hz			
MOTOR (Free Blow)	250W-6P		1			2
	375W-4P			1		
	450W-4P				1	
MOTOR (Ducted)	375W-4P		1			2
	450W-4P			1		
	550W-4P				1	
AIR FILTER	PFZ313W445H022T-L1V12		1			
	PFZ388W445H022T-L1V12			2		
	PFZ488W445H022T-L1V12				2	
	PFZ588W445H022T-L1V12					2
	PFZ475W445H022T-L1V12					
	PFZ592W445H022T-L1V12					
	PFZ494W470H022T-L1V12					
	PFZ556W470H022T-L1V12					

MODEL SBM-CW			SBM75CW	SBM100CW	SBM125CW	SBM150CW
GENERAL DATA						
CAPACITY	Total Capacity	W	26.600	31.175	41.568	48.603
		Btu/h	90.760	106.368	141.829	165.832
	Sensible Capacity	W	18.642	22.627	29.911	34.639
		Btu/h	63.608	77.203	102.058	118.187
	SHR		0,70	0,73	0,72	0,71
AIR FLOW		CMH	4.247	5.437	7.135	8.155
		CFM	2.500	3.200	4.200	4.800
EXTERNAL STATIC PRESSURE		Pa	100			
		inWG	0,40			
WATER FLOW		CMH	4,57	5,37	7,13	8,36
		USGpm	20,14	23,63	31,40	36,79
WATER PRESSURE DROP		kPa	21,00	5,05	7,43	10,80
		inWG	84,3	20,3	29,8	43,4
CASING	Frame		Anodised extruded aluminium profile and nylon corner piece			
	Panel		GI finish			
	Insulation		15mm PU			
DIMENSION	Height	mm	490	490	515	515
	Width	mm	1470	1820	2020	2270
	Depth	mm	730	730	730	730
CONNECTION	Water IN/OUT	in	1 1/2	1 1/2	1 1/2	1 1/2
	Drain Pipe Size	in	1			
COIL SPECIFICATION						
COIL	Type		Aluminium fin mechanically bonded to seamless copper tube			
	Face Area	m2	0,52	0,66	0,83	0,95
	Entering (DB/WB)	°C/°C	26.7 / 19.0			
	Leaving (DB/WB)	°C/°C	13.3/12.2	14.0/12.8	13.9/12.7	13.8/12.6
	Face Velocity	m/s	2,27	2,29	2,38	2,40
	ΔP	Pa	88	90	96	97
	Condensate Rate	g/s	3,20	3,40	4,60	5,50
FAN & MOTOR SPECIFICATION						
BLOWER	Type		Forward Curve Centrifugal Drive Driven			
	Size		9-9 I	9-9 III	9-9 I	9-9 III
	Quantity	set	2	2	3	3
POWER SUPPLY		V-Ø-Hz	220-240V/1Ø/50Hz			
MOTOR (Free Blow)	250W-6P					
	375W-4P		2		3	
	450W-4P			2		3
MOTOR (Ducted)	375W-4P					
	450W-4P		2		3	
	550W-4P			2		3
AIR FILTER	PFZ313W445H022T-L1V12					
	PFZ388W445H022T-L1V12					
	PFZ488W445H022T-L1V12					
	PFZ588W445H022T-L1V12					
	PFZ475W445H022T-L1V12		2			
	PFZ592W445H022T-L1V12			2		
	PFZ494W470H022T-L1V12				3	
PFZ556W470H022T-L1V12					3	



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