

BROCHURE

High Static Blower

ThermalTrue®
HVAC & R

Direct Expansion Series SBH100_1200DX407





NOMENCLATURE

SBH	30.1, 40.1, 50.1, 60.1, 75.1, 100.1, 125.1, 150.1, 200.2, 250.2, 300.2, 350.3, 400.4, 450.3, 500.4, 550.4, 600.4, 200.1, 250.1, 300.1, 350.2, 400.2, 450.2, 500.2, 750.3, 800.3, 900.3, 1000.4, 1200.4	X407	SA/HA/CA
Series	Capacity in kBtu/h (N Circuit)	Direct Expansion R407c	SA : Std Ambient 35°C HA : High Ambient 45°C CA : Corrosive Ambient

SPECIFICATION

SERIES I

SBH-X407-Series I		Indoor	30-1	40-1	50-1	60-1	75-1	100-1
		Outdoor#1	30	40	50	60	75	100
		Outdoor#2	-	-	-	-	-	-
		Outdoor#3	-	-	-	-	-	-
		Outdoor#4	-	-	-	-	-	-
GENERAL DATA								
CAPACITY	Total Capacity	W	8.792	11.723	14.654	17.585	21.981	29.308
		Btu/h	30.000	40.000	50.000	60.000	75.000	100.000
	Sensible Capacity	W	6.761	9.051	11.251	13.561	16.898	22.565
		Btu/h	23.070	30.881	38.388	46.271	57.657	76.992
	SHR		0,77	0,77	0,77	0,77	0,77	0,77
AIR FLOW		CMH	1.614	2.124	2.718	3.398	4.247	5.437
		CFM	950	1.250	1.600	2.000	2.500	3.200
ESP		Pa	150	150	150	150	150	150
		inWG	0,60	0,60	0,60	0,60	0,60	0,60
CASING	Anodised Aluminium Profile		15mm (DS1520 Type)					
	Panel Finish (External/Internal)		Plain GI-Plain GI or Prepainted GI-Plain GI					
	Insulation		15mm Rigid Polurethane @ 40kG/m3					
DIMENSION	Height	mm	600	600	600	600	600	600
	Width	mm	610	760	960	1160	1410	1760
	Depth	mm	840	840	840	840	840	840
CONNECTION	Liquid	in	3/8	3/8	3/8	1/2	1/2	5/8
	Gas	in	5/8	3/4	3/4	3/4	1	1 1/8
	Drain Pipe Size	in	1	1	1	1	1	1
COIL SPECIFICATION								
COIL	Type		Al fin mechanically bonded to seamless Cu tube					
	OD	in.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	R		4	4	4	4	4	4
	FPI		12	12	12	12	12	12
	FW	mm	87	87	87	87	87	87
	TH		18	18	18	18	18	18
	FH	mm	450	450	450	450	450	450
	FL	mm	500	650	850	1050	1300	1650
	Circuit		4	6	6	9	9	12
	Face Area	m2	0,23	0,29	0,38	0,47	0,59	0,74
	Entering (DB/WB)	°C/°C	26.7 / 19.0					
	Leaving (DB/WB)	°C/°C	14.5/13.4	14.6/13.4	14.5/13.4	14.6/13.4	14.5/13.4	14.6/13.4
	Face Velocity	m/s	1,99	2,02	1,97	2,00	2,02	2,03
	ΔP	Pa	70	72	69	70	72	73
	Condensate Rate	g/s	0,80	1,00	1,30	1,60	2,00	2,60
FAN & MOTOR SPECIFICATION								
BLOWER	Type		Forward Curve Centrifugal Drive Driven					
	Model		FC 9-7	FC 9-7	FC 10-8	FC 10-10	FC 10-10	FC 10-10
	Quantity	set	1					
POWER SUPPLY		V-Ø-Hz	380/415-3-50					
MOTOR	kW-P		0.37-4	0.55-4	0.75-4	0.75-4	1.10-4	1.50-4
AIR FILTER	Nominal Filter FA (m2)		0,37	0,46	0,58	0,70	0,85	1,06
	G4-22T x FA x 1pc		1	1				
	G4-22T x FA x 2pc				1	1	1	
	G4-22T x FA x 3pc							1
	G4-46T x FA x 6pc							
	G4-46T x FA x 9pc							
	G4-46T x FA x 12pc							
	G4-46T x FA x 16pc							
	G4-46T x FA x 20pc							

SERIES II

SBH-X407-Series II		Indoor	125-1	150-1	200-2	250-2	300-2	350-3	
		Outdoor#1	125	150	100	125	150	100	
		Outdoor#2	-	-	100	125	150	125	
		Outdoor#3	-	-	-	-	-	125	
		Outdoor#4	-	-	-	-	-	-	
GENERAL DATA									
CAPACITY	Total Capacity	W	36.635	43.962	58.617	73.271	87.925	102.579	
		Btu/h	125.000	150.000	200.000	250.000	300.000	350.000	
	Sensible Capacity	W	28.465	33.257	44.430	55.654	66.631	78.064	
		Btu/h	97.122	113.474	151.594	189.893	227.345	266.356	
SHR			0,78	0,76	0,76	0,76	0,76	0,76	
AIR FLOW		CMH	7135	7815	10873	13591	15290	17839	
		CFM	4200	4600	6400	8000	9000	10500	
ESP		Pa	150	150	150	200	200	200	
		inWG	0,60	0,60	0,60	0,80	0,80	0,80	
CASING	Anodised Aluminium Profile		25mm (DS2540 Type)						
	Panel Finish		Plain GI-Plain GI or Prepainted GI-Plain GI						
	Insulation		25mm Rigid Polyurethane @ 40kg/m3						
DIMENSION	Height	mm	820	820	940	1240	1240	1490	
	Width		1710	1710	1810	1810	1810	1810	
	Depth	mm	980	980	980	1150	1150	1150	
CONNECTION	Liquid	in	3/4	5/8	5/8	3/4	5/8	5/8 & 3/4	
	Gas	in	1 1/8	1 3/8	1 1/8	1 1/8	1 3/8	1 1/8	
	Drain Pipe Size	in	1	1	1	1	1	1	
COIL SPECIFICATION									
COIL	Type		Al fin mechanically bonded to seamless Cu tube						
	OD	in.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	
	R		4	4	4	4	4	4	
	FPI		12	14	14	14	14	14	
	FW	mm	87	87	87	87	87	87	
	TH		24	24	30	42	42	52	
	FH	mm	600	600	750	1050	1050	1300	
	FL	mm	1320	1500	1580	1410	1590	1600	
	Circuit		12	16	20	28	28	51	
	Face Area	m2	0,79	0,90	1,19	1,48	1,67	2,08	
	Entering (DB/WB)		°C/°C	26.7 / 19.0					
	Leaving (DB/WB)		°C/°C	15.0/13.7	13.7/12.8	13.8/12.9	13.8/12.9	13.7/12.9	13.7/12.9
	Face Velocity		m/s	2,50	2,41	2,55	2,55	2,54	2,38
	ΔP		Pa	104	128	140	140	140	125
	Condensate Rate		g/s	3,20	4,30	5,90	7,30	8,40	9,60
FAN & MOTOR SPECIFICATION									
BLOWER	Type		Forward Curve Centrifugal Drive Driven						
	Model		FC 15-15	FC 15-15	FC 15-15	FC 18-18	FC 18-18	FC 22-22	
	Quantity	set	1						
POWER SUPPLY		V-Ø-Hz	380/415-3-50						
MOTOR	kW-P		2.20-4	2.20-4	4.0-4	4.0-4	5.5-4	5.5-4	
AIR FILTER	Nominal Filter FA (m2)		1,40	1,40	1,70	2,24	2,24	2,70	
	G4-22T x FA x 1pc								
	G4-22T x FA x 2pc								
	G4-22T x FA x 3pc								
	G4-46T x FA x 6pc		1	1	1	1	1		
	G4-46T x FA x 9pc							1	
	G4-46T x FA x 12pc								
	G4-46T x FA x 16pc								
G4-46T x FA x 20pc									

SBH-X407-Series II		Indoor	400-4	450-3	500-4	550-4	600-4
		Outdoor#1	100	150	125	125	150
		Outdoor#2	100	150	125	125	150
		Outdoor#3	100	150	125	150	150
		Outdoor#4	100	-	125	150	150
GENERAL DATA							
CAPACITY	Total Capacity	W	117.233	131.887	146.542	161.196	175.850
		Btu/h	400.000	450.000	500.000	550.000	600.000
	Sensible Capacity	W	89.114	100.218	111.652	121.708	133.383
		Btu/h	304.057	341.945	380.957	415.268	455.104
	SHR		0,76	0,76	0,76	0,76	0,76
AIR FLOW		CMH	20387	22935	25484	28032	30580
		CFM	12000	13500	15000	16500	18000
ESP		Pa	250	250	300	300	350
		inWG	1,00	1,00	1,20	1,20	1,41
CASING	Anodised Aluminium Profile		25mm (DS2540 Type)				
	Panel Finish		Plain GI-Plain GI or Prepainted GI-Plain GI				
	Insulation		25mm Rigid Polyurethane @ 40kg/m3				
DIMENSION	Height	mm	1490	1490	1490	1490	1490
	Width		2170	2170	2170	2170	2170
	Depth	mm	1430	1430	1430	1430	1430
CONNECTION	Liquid	in	5/8	5/8	3/4	3/4	5/8
	Gas	in	1 1/8	1 3/8	1 1/8	1 1/8	1 3/8
	Drain Pipe Size	in	1	1	1	1	1
COIL SPECIFICATION							
COIL	Type		Al fin mechanically bonded to seamless Cu tube				
	OD	in.	3/8"	3/8"	3/8"	3/8"	3/8"
	R		4	4	5	5	5
	FPI		14	14	12	12	12
	FW	mm	87	87	108	108	108
	TH		52	52	52	68	68
	FH	mm	1300	1300	1300	1700	1700
	FL	mm	1800	1960	1960	1960	1960
	Circuit		52	51	64	84	84
	Face Area	m2	2,34	2,55	2,55	3,33	3,33
	Entering (DB/WB)	°C/°C	26.7 / 19.0				
	Leaving (DB/WB)	°C/°C	13.7/12.9	13.8/12.9	13.9/13.0	13.6/12.8	13.7/12.9
	Face Velocity	m/s	2,42	2,50	2,78	2,34	2,55
	ΔP	Pa	128	136	153	113	132
	Condensate Rate	g/s	11,00	12,40	13,40	15,80	16,60
FAN & MOTOR SPECIFICATION							
BLOWER	Type		Forward Curve Centrifugal Drive Driven				
	Model		FC 22-22	FC 560R	FC 560R	FC 630R	FC 630R
	Quantity	set	1				
POWER SUPPLY		V-Ø-Hz	380/415-3-50				
MOTOR		kW-P	7.5-4	7.5-4	11.0-4	11.0-4	11.0-4
AIR FILTER	Nominal Filter FA (m2)		3,23	3,23	3,23	4,10	4,10
	G4-22T x FA x 1pc						
	G4-22T x FA x 2pc						
	G4-22T x FA x 3pc						
	G4-46T x FA x 6pc						
	G4-46T x FA x 9pc						
	G4-46T x FA x 12pc		1	1	1		
	G4-46T x FA x 16pc					1	1
	G4-46T x FA x 20pc						

SERIES III

SBH-X407-Series III			Indoor	200-1	250-1	300-1	350-2	400-2	450-2	500-2
			Outdoor#1	200	250	300	150	200	200	250
			Outdoor#2	-	-	-	200	200	250	250
			Outdoor#3	-	-	-	-	-	-	-
			Outdoor#4	-	-	-	-	-	-	-
GENERAL DATA										
NOMINAL CAPACITY	Total Capacity	W	58.617	73.271	87.925	102.579	117.233	131.887	146.542	
		Btu/h	200.000	250.000	300.000	350.000	400.000	450.000	500.000	
	Sensible Capacity	W	44.430	55.654	66.631	78.098	89.114	100.258	111.652	
		Btu/h	151.594	189.893	227.345	266.470	304.057	342.079	380.957	
SHR			0,76	0,76	0,76	0,76	0,76	0,76	0,76	
AIR FLOW			CMH	10873	13591	15290	17839	20387	22935	25484
			CFM	6400	8000	9000	10500	12000	13500	15000
			Pa	150	200	200	200	250	250	250
EXTERNAL STATIC PRESSURE			inWG	0,60	0,80	0,80	0,80	1,00	1,00	1,00
CASING	Anodised Aluminium Profile		25mm (DS2540 Type)							
	Panel Finish		Plain GI-Plain GI or Prepainted GI-Plain GI							
	Insulation		25mm Rigid Polyurethane @ 40kg/m3							
DIMENSION	Height	mm	1890	1890	2190	2190	2190	2190	2190	
	Width	mm	2170	2170	2170	2430	2710	2990	3540	
	Depth	mm	1430	1730	1730	1730	1935	1935	1935	
CONNECTION	Liquid	in	7/8	7/8	7/8	5/8 & 3/4	7/8	5/8	7/8	
	Gas	in	1 5/8	1 5/8	1 5/8	1 1/8	1 5/8	1 3/8	1 5/8	
	Drain Pipe Size	in	1	1	1	1	1	1	1	
COIL SPECIFICATION										
COIL	Type		Al fin mechanically bonded to seamless Cu tube							
	OD	in.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	
	R		4	4	4	4	4	4	5	
	FPI		14	14	14	14	14	14	12	
	FW	mm	87	87	87	87	87	87	108	
	TH		30	42	42	52	52	52	52	
	FH	mm	750	1050	1050	1300	1300	1300	1300	
	FL	mm	1580	1410	1590	1600	1800	1960	1960	
	Circuit		20	28	28	52	52	52	64	
	Face Area	m2	1,19	1,48	1,67	2,08	2,34	2,55	2,55	
	Entering (DB/WB)	°C/°C	26.7 / 19.0							
	Leaving (DB/WB)	°C/°C	13.8/12.9	13.8/12.9	13.7/12.9	13.7/12.9	13.7/12.9	13.8/12.9	13.9/13.0	
	Face Velocity	m/s	2,55	2,55	2,54	2,38	2,42	2,50	2,78	
	ΔP	Pa	140	140	140	125	128	136	153	
Condensate Rate	g/s	5,90	7,30	8,40	9,60	11,00	12,30	13,40		
FAN & MOTOR SPECIFICATION										
BLOWER	Type		Forward Curve Centrifugal Drive Driven							
	Model		FC 15-15	FC 18-18	FC 18-18	FC 22-22	FC 22-22	FC 560R	FC 560R	
	Quantity	set	1							
POWER SUPPLY		V-Ø-Hz	380/415-3-50							
MOTOR			0.37kW-4P-220/380-3-50	4.0-4	4.0-4	5.5-4	5.5-4	7.5-4	7.5-4	11.0-4
AIR FILTER	Nominal Filter FA (m2)		1,70	2,24	2,24	2,70	3,23	3,23	3,23	
	G4-22T x FA x 1pc									
	G4-22T x FA x 2pc									
	G4-22T x FA x 3pc									
	G4-46T x FA x 6pc		1	1	1					
	G4-46T x FA x 9pc					1				
	G4-46T x FA x 12pc						1	1	1	
	G4-46T x FA x 16pc									
G4-46T x FA x 20pc										

SBH-X407-Series III			Indoor	550-2	600-2	750-3	800-3	900-3	1000-4	1200-4		
			Outdoor#1	250	300	250	250	300	250	300		
			Outdoor#2	300	300	250	250	300	250	300		
			Outdoor#3	-	-	250	300	300	250	300		
			Outdoor#4	-	-	-	-	-	250	300		
GENERAL DATA												
NOMINAL CAPACITY		Total Capacity	W	161.196	175.850	219.812	234.467	263.775	293.083	351.700		
			Btu/h	550.000	600.000	750.000	800.000	900.000	1.000.000	1.200.000		
		Sensible Capacity	W	121.708	133.383	167.272	177.454	199.216	220.992	267.814		
			Btu/h	415.266	455.104	570.732	605.474	679.726	754.026	913.781		
SHR			0,76	0,76	0,76	0,76	0,76	0,75	0,76			
AIR FLOW			CMH	28032	30580	38225	40774	45871	50967	61161		
			CFM	16500	18000	22500	24000	27000	30000	36000		
EXTERNAL STATIC PRESSURE			Pa	250	300	350	350	400	400	400		
			inWG	1,00	1,20	1,41	1,41	1,61	1,61	1,61		
CASING		Anodised Aluminium Profile		50mm (DS5060 Type)								
		Panel Finish		Plain GI-Plain GI or Prepainted GI-Plain GI								
		Insulation		50mm PU panels with (GI-GI) / (CB-GI) liners								
DIMENSION		Height	mm	2190	2190	2190	2190	2190	2190	2190		
		Width	mm	3540	3540	3540	3540	3540	3540	3540		
		Depth	mm	1935	1935	1935	1935	1935	1935	1935		
CONNECTION		Liquid	in	3/4	7/8	7/8	7/8	7/8	7/8	7/8		
		Gas	in	1 1/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8		
		Drain Pipe Size	in	1	1	1	1	1	1	1		
COIL SPECIFICATION												
COIL			Type		Al fin mechanically bonded to seamless Cu tube							
			OD	in.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
			R		5	5	5	5	5	5	5	5
			FPI		12	12	12	12	12	12	12	12
			FW	mm	108	108	108	108	108	108	108	108
			TH		68	68	80	80	80	80	80	80
			FH	mm	1700	1700	2000	2000	2000	2000	2000	2000
			FL	mm	1960	1960	1960	2220	2500	2780	3330	
			Circuit		84	84	99	99	99	100	200	
			Face Area	m2	3,33	3,33	3,92	4,44	5,00	5,56	6,66	
			Entering (DB/WB)		°C/°C	26,7 / 19,0						
			Leaving (DB/WB)		°C/°C	13,6/12,8	13,7/12,9	13,9/13,0	13,7/12,9	13,7/12,8	13,7/12,8	13,8/12,9
			Face Velocity		m/s	2,34	2,55	2,71	2,55	2,55	2,55	2,55
			ΔP		Pa	113	132	146	132	132	131	132
Condensate Rate		g/s	15,80	16,60	20,30	22,50	25,50	28,60	32,60			
FAN & MOTOR SPECIFICATION												
BLOWER			Type		Forward Curve Centrifugal Drive Driven							
			Model		FC 630R	FC 630R	FC 710R	FC 710R	FC 710R	FC 900K	FC 900K	
			Quantity		1							
POWER SUPPLY			V-Ø-Hz		380/415-3-50							
MOTOR			0.37kW-4P-220/380-3-50		11.0-4	11.0-4	15.0-4	15.0-4	18.5-4	18.5-4	22.0-4	
AIR FILTER			Nominal Filter FA (m2)		4,10	4,10	4,75	5,32	5,93	6,55	7,75	
			G4-22T x FA x 1pc									
			G4-22T x FA x 2pc									
			G4-22T x FA x 3pc									
			G4-46T x FA x 6pc									
			G4-46T x FA x 9pc									
			G4-46T x FA x 12pc									
			G4-46T x FA x 16pc		1	1	1	1				
			G4-46T x FA x 20pc						1	1	1	



Head Office :



Kawasan Sarana Industri Terpadu,
Jl. Industri Cikarang, Pasirgombong,
Cikarang Utara, Bekasi, JawaBarat
17550, Indonesia.



021-8935670/71



sales HVAC@udarajadibersih.co.id
estimator@udarajadibersih.co.id



ThermalTrue



@ThermalTrue



ThermalTrue



@ThermalTrue