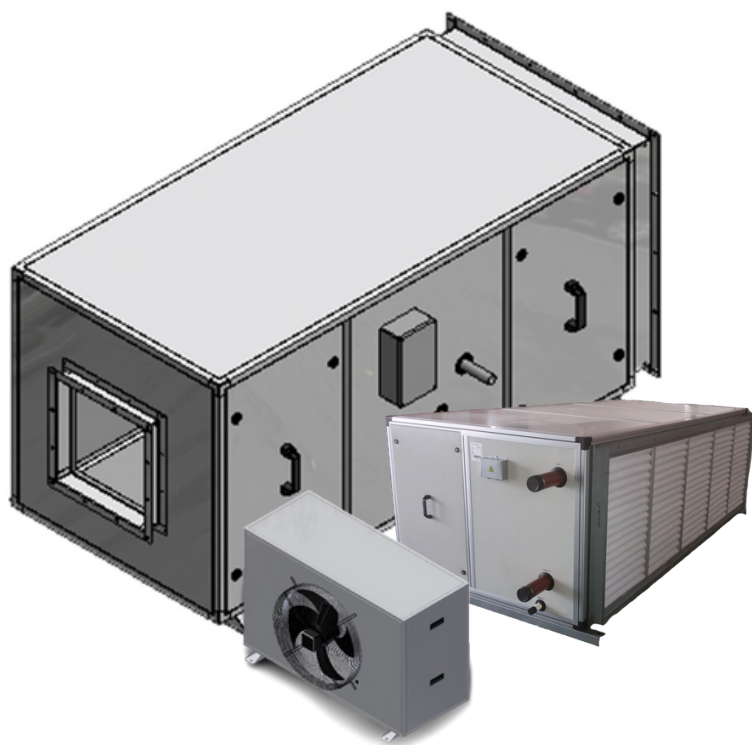


BROCHURE

Isolation Room HVAC

ThermalTrue®
HVAC & R

SBF/SCU-L High Static Filtered Air Ducted Split



NOMENCLATURE

Series

SBF020, 025, 030, 040, 045
 SCU60L, SCU75L, SCU90L, SCU100L, SCU125L

SPECIFICATION

INDOOR SBF

MODEL SBF-X407C			Indoor	SBF020	SBF025	SBF030	SBF040	SBF045
			Outdoor	SCU060L	SCU075L	SCU090L	SCU100L	SCU125L
GENERAL DATA								
ROOM DIMENSION	W x L x H	m	4.5 x 5.0 x 3.0	4.5 x 6.0 x 3.0	4.5 x 7.0 x 3.0	4.5 x 9.0 x 3.0	4.5 x 10.0 x 3.0	
	Room Volume	m3	68	81	95	122	135	
SUPPLY AIR		ACH	15	15	15	15	15	
		CMH	1013	1215	1418	1823	2025	
CAPACITY	Total Capacity	W	16.665	19.759	26.218	32.794	35.111	
		Btu/h	56.861	67.418	89.457	111.893	119.800	
	Sensible Capacity	W	6.043	7.161	9.499	11.882	12.721	
		Btu/h	20.618	24.432	32.412	40.542	43.405	
	SHR		0.36	0.36	0.36	0.36	0.36	
AIR FLOW		CMH	900	1.080	1.440	1.800	1.930	
		CFM	530	636	848	1.059	1.136	
EXTERNAL STATIC PRESSURE		Pa	250					
		inWG	1.00					
CASING	Frame	Anodised extruded aluminium profile and nylon corner piece						
	Panel	GI finish						
	Insulation	15mm PU						
DIMENSION	Height	mm	700	700	700	700	700	
	Width	mm	650	650	650	650	650	
	Depth	mm	1.400	1.400	1.400	1.400	1.400	
CONNECTION	Liquid	in	1/2	1/2	5/8	5/8	5/8	
	Gas	in	3/4	1 1/8	1 3/8	1 3/8	1 3/8	
	Drain Pipe Size	in	1					
COIL SPECIFICATION								
COIL	Type	Aluminium fin mechanically bonded to seamless copper tube						
	Leaving (DB/WB)	°C/°C	14.7/14.7	14.9/14.9	15.0/15.0	15.0/15.0	15.0/15.0	
	Face Velocity	m/s	1.87	1.93	2.06	1.93	2.07	
	ΔP	Pa	157	165	185	166	187	
	Condensate Rate	g/s	4.2	5.00	6.60	8.30	8.90	
FAN & MOTOR SPECIFICATION								
BLOWER	Type	ECPDF315 Fan						
	Quantity	set	1	1	1	1	1	
POWER SUPPLY		V-Ø-Hz	380V/3Ø/50Hz					
MOTOR	Running Current	A	1.36	1.36	1.41	1.45	1.45	
	Power Input	W	760	760	790	815	815	
AIR FILTER SPECIFICATION								
AIR FILTER	G4-122402	1700cmh	1	1	-	-	-	
	G4-242402	3400cmh	-	-	1	1	1	
	F9-122402	1700cmh	1	1	-	-	-	
	F9-242402	3400cmh	-	-	1	1	1	

Single Condensing Unit SCU-L Series			Model	SCU20L	SCU25L	SCU30L	SCU40L	SCU50L	SCU60L						
GENERAL DATA															
CAPACITY	Total Capacity	Btu/h	20.000	25.000	30.000	40.000	50.000	60.000							
		kW	6	7	9	12	15	18							
		kCal/h	5.038	6.298	7.558	10.077	12.596	15.115							
AIR FLOW		CFM	2.031	2.001	1.913	4.709	4.591	4.356							
		CMH	3.450	3.400	3.250	8.000	7.800	7.400							
		L/s	958	944	903	2.222	2.167	2.056							
CASING	Frame	Anodised/Powder Coated extruded aluminium profile and corner piece													
	Panel														
DIMENSION	Height	mm	650	650	650	850	850	850							
	Width	mm	800	800	800	950	950	950							
	Depth	mm	350	350	350	450	450	450							
CONNECTION	Type	Braze Joint													
	Gas								in	3/4	3/4	7/8	7/8	7/8	7/8
	Liquid								in	3/8	3/8	3/8	3/8	3/8	1/2
COIL SPECIFICATION															
COIL	Type	Aluminium fin mechanically bonded to seamless copper tube													
	Face Area								m2	0,51	0,51	0,51	0,84	0,84	0,84
	Entering (DB/WB)								°C/°C	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0
	Leaving (DB/WB)								°C/°C	43.1/26.1	44.3/26.4	46.1/26.8	42.0/25.8	43.0/26.0	44.6/26.4
	Face Velocity								m/s	1,89	1,87	1,78	2,65	2,58	2,45
	ΔP								Pa	19	23	31	34	40	53
FAN & MOTOR SPECIFICATION															
FAN	Type	Coated GI Fan Blade with External Rotor Motor & Fan Guard													
	Diameter								mm	400	400	400	550	550	550
	Quantity								Set	1	1	1	1	1	1
	Power Supply								V-Ø-Hz	380/415-3-50					
	Rated Running Current (Each)								A	0,5	0,5	0,5	1,2	1,2	1,2
	Rated Power Input (Each)								W	180	180	180	600	600	600
COMPRESSOR															
COMPRESSOR	Type	Hermetic Scroll (R407c Series)													
	Capacity								mm	2.0hp	2.5hp	3.0hp	4.0hp	5.0hp	6.0hp
	Quantity								Set	1	1	1	1	1	1
	Power Supply								V-Ø-Hz	380/415-3-50					
	Rated Cooling Capacity								kW	6,6	7,8	9,2	11,4	14,3	16,6
	Rated Running Current (Each)								A	3,9	4,7	5,4	6,6	7,7	9,1
	Rated Power Input (Each)								kW	2,2	2,6	3,0	3,6	4,5	5,2
	COP									3,02	3,03	3,06	3,15	3,17	3,22
	Electrical									Contactor & Overload					
Pressure Switch		High & Low Pressure Switch													

Single Condensing Unit SCU-L Series			Model	SCU75L	SCU90L	SCU100L	SCU125L	SCU150L
GENERAL DATA								
CAPACITY	Total Capacity	Btu/h	75.000	90.000	100.000	125.000	150.000	
		kW	22	26	29	37	44	
		kCal/h	18.894	22.673	25.192	31.490	37.788	
AIR FLOW		CFM	5.739	5.739	5.592	9.182	8.711	
		CMH	9.750	9.750	9.500	15.600	14.800	
		L/s	2.708	2.708	2.639	4.333	4.111	
CASING	Frame	Anodised/Powder Coated extruded aluminium profile and corner piece						
	Panel	GI with Powder Coat Finish						
DIMENSION	Height	mm	950	950	950	1.150	1.150	
	Width	mm	1.050	1.050	1.050	1.350	1.350	
	Depth	mm	550	550	550	550	550	
CONNECTION	Type		Braze Joint					
	Gas	in	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8	
	Liquid	in	1/2	5/8	5/8	3/4	5/8	
COIL SPECIFICATION								
COIL	Type		Aluminium fin mechanically bonded to seamless copper tube					
	Face Area	m2	1,21	1,21	1,21	1,82	1,82	
	Entering (DB/WB)	°C/°C	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	35.0/24.0	
	Leaving (DB/WB)	°C/°C	44.3/26.4	45.0/26.5	47.4/27.1	44.0/26.3	47.2/27.0	
	Face Velocity	m/s	2,24	2,24	2,18	2,39	2,27	
	ΔP	Pa	38	46	53	43	57	
FAN & MOTOR SPECIFICATION								
FAN	Type		Coated GI Fan Blade with External Rotor Motor & Fan Guard					
	Diameter	mm	630	630	630	550	550	
	Quantity	Set	1	1	1	2	2	
	Power Supply	V-Ø-Hz	380/415-3-50					
	Rated Running Current (Each)	A	1,6	1,6	1,6	1,2	1,2	
	Rated Power Input (Each)	W	800	800	800	600	600	
COMPRESSOR								
COMPRESSOR	Type		Hermetic Scroll (R407c Series)					
	Capacity	mm	7.5hp	9.0hp	10.0hp	12.5hp	15.0hp	
	Quantity	Set	1	1	1	1	1	
	Power Supply	V-Ø-Hz	380/415-3-50					
	Rated Cooling Capacity	kW	23,0	25,8	30,2	34,6	44,0	
	Rated Running Current (Each)	A	12,8	13,8	16,0	17,7	26,5	
	Rated Power Input (Each)	kW	7,0	7,6	9,0	10,2	13,7	
	COP		3,31	3,40	3,37	3,41	3,22	
	Electrical		Contactor & Overload					
	Pressure Switch		High & Low Pressure Switch					



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