



EC FAN COIL

600 ~ 6400 cfm



SMA



SDFD-EC

General

- 30mm thick infill panels are of double skinned construction from pressure injected polyurethane foam insulation with 'K' value of 0.02Watts/m C and density 40kg/m³.
- Standard unit with external static 150Pa. Optional high external static as 250Pa.
- High efficiency EC fan motor.
- Convertible front to bottom discharge outlet.

Fan Motor Assembly

- High performance centrifugal fan modules. Single inlet, direct drive; 2D centrifugal impeller with circumferential diffuser mounted on an EC motor with integrated electronic.
- External rotor with maintenance free ball bearings and permanent lubrication.
- Wide operate voltage input 1~200~277V / 50/60Hz.
- Optimised motor technology; softstart; integrated current limitation.

FEATURES



Coil

- The coil can have 3 to 6 rows, with copper tubes mechanically bonded into corrugated.
- Coil pressure test up to 31.6kg/cm² (450psig). Max working pressure 18kg/cm² (250psig).
- Copper fin or blue fin option is available.
- Water inlet / outline connections are from 1-inch to 2-inch male pipe thread (BSTP). Copper connection option is available.
- Air vent is located at the top of the coil header.

Drain Pan

- The drain pan is 45~50mm depth with 1.0mm thickness galvanized steel c/w internal epoxy polyester resin coating.
- The drain pan is sloped towards the drain pipe with a 2 deg. gradient.
- The drain pan has one 3/4-inch to 1-1/4-inch male pipe thread (BT) connection.
- The standard insulation material is 10mm thickness, 25kg/m³ density PE foam.

Specification

Specification				006	010	020	030	
Model								
Air Flow @ ESP 150Pa **				L/s (CFM)	300 (630)	500 (1060)	1000 (2120)	1500 (3180)
Power Supply				V/Ph/Hz	220~240V/1PH/50/60HZ			
Maximum Unit Current, Power Input				A (W)	1.9 (445)	2.1 (480)	4.2 (960)	6.3 (1440)
4 row	Nominal Cooling Capacity (1)			W	7,100	11,200	19,800	29,800
	Nominal Sensible Cooling Capacity (1)			W	5,200	8,200	15,500	23,300
	Nominal Cooling Capacity (2)			W	5,740	8,700	16,200	24,400
	Nominal Sensible Cooling Capacity (2)			W	4,550	7,100	13,700	20,700
6 row	Nominal Cooling Capacity (1)			W	8,400	13,400	25,700	38,300
	Nominal Sensible Cooling Capacity (1)			W	5,900	9,500	18,900	28,300
	Nominal Cooling Capacity (2)			W	7,000	11,100	21,700	32,500
	Nominal Sensible Cooling Capacity (2)			W	5,300	8,500	17,000	25,500
1R	Nominal Heating Capacity			W	4,100	6,600	9,800	14,200
Connection (BSPT)- Male Connection CW				inch	1"	1"	1"	1"
Connection (BSPT)- Male Connection HW				inch	1/2"	1/2"	1/2"	3/4"
Condensate Drain Size (Nominal)				inch	3/4"	3/4"	3/4"	3/4"
Unit Weight				kg	73	85	139	187
Casing	Unit Dimension	Length	mm	760	940	1660	2360	
		Depth	mm	1115	1115	1115	1115	
		Height	mm	402	402	402	402	
	Material			GI Double Skin				
	External Finishing / Colour			Polyester Powder Coating / Saiver Blue				
	Insulation / Thickness			PU / 30mm				
	Type			Backward Curved Centrifugal Single Inlet				
Fan	Quantity			1	1	2	3	
	Diameter Size		mm	280				
	Type			Electronically Commutated (EC) DC Direct Drive				
Fan Motor	Quantity			1	1	2	3	
	Rated Running Current		A	0.7	1.48	2x 1.48	3x1.48	
	Motor Input		W	150	340	2x 340	3x 340	
	Type			Electronically Commutated (EC) DC Direct Drive				
Coil	Tube	Material/Diameter			Cu/9.52		Cu/12.7	
	Fin	Material			Aluminium			
	Face Area		m² (ft²)	0.16	0.21	0.39	0.59	
Filtration	Type			Washable GI Frame Filter / G3				
	Quantity x Dimension (w x h350 x t21)		PC	2 x 243	1 x 305 + 1 x 360	3 x 463	4 x 522	
			mm					

Note:

1. All specifications are subjected to change by the manufacturer without prior notice

2. Nominal cooling capacity are based on the condition:

a) Entering air temp 27 °C DB and 19 °C WB.

b) EWT 7°C , LWT 12 °C (1. standard del T)

c) EWT 6.67 °C , LWT 14.44 °C (2. High del T)

3. Nominal Heating capacity is based on the condition:

a) Entering air temp 12 °C DB.

b) EWT 60°C , LWT 45 °C

4. ** Optional high external static pressure as 250Pa.

SDFD-EC

General Data

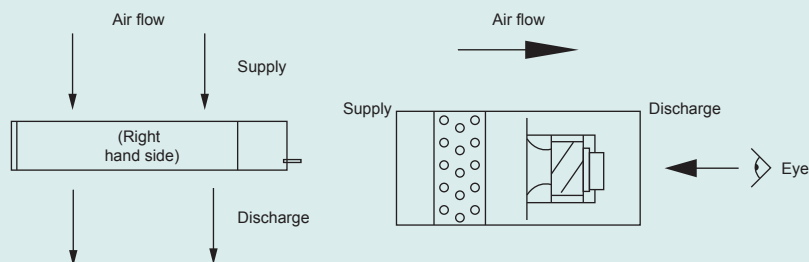
MODEL: SDF(H)		013	016	020	024	032	040	048	064
Nominal Cooling Capacity	Btu/h	38,000	48,000	61,000	71,000	96,000	126,000	147,000	193,500
	W	11,200	14,100	17,900	20,800	28,200	36,900	43,100	56,700
Nominal Sensible Cooling Capacity	Btu/h	30,800	38,300	48,900	57,600	78,500	102,300	116,900	153,900
	W	9,100	11,300	14,400	16,900	23,000	30,000	34,300	45,100
Power Supply	V/Ph/50Hz	220~240V/1			220~240V/1		220~240V/1		380~415V/3
Nomial Air Flow (at 150Pa ESP) **	L/s (CFM)	614 (1300)	755 (1600)	944 (2000)	1133 (2400)	1511 (3200)	1889 (4000)	2266 (4800)	3022 (6400)
Rated Power Input	W	413	525	537	374x2	525x2	734x2	953x2	1450x2
Rated Running Current	A	1.8	2.3	2.4	1.7x2	2.3x2	3.3x2	4.2x2	2.3x2
Max Unit Running Amp	A x Qty	2.6	2.8	2.8	2.6X2	2.8X2	5x2	5x2	2.4x2
Fan speed, set value	(%nmax)	94	100	100	92	100	92	100	100
Unit Weight	kg(lb)	93(205)	96(212)	110(243)	138(243)	144(317)	206(454)	209(461)	220(485)

Components Data

MODEL				013	016	020	024	032	040	048	064
Casing	Outline Dimension	Length	mm	800	800	1020	1400	1400	1545	1545	1800
		Depth	mm	1115	1115	1115	1115	1115	1115	1115	1115
		Height	mm	560	560	560	560	560	880	880	880
	Material, External Finishing, Colour			GI, Polyester Powder coating ; Saiver Blue					GI, Polyester Powder coating; Saiver Blue		
	Insulation / Thickness			PE / 10mm (Single Skin); PU/30mm					PE / 10mm (Single Skin); PU/30mm		
Fan Assy	Qty			1	1	1	2	2	2	2	2
	Size (Nominal)		mm	280	310	310	280	310	350	350	350
	Motor Size		W	500	560	560	500	560	980	980	1500
Coil	Tube	Material/ Diameter			Cu, 9.52			Cu, 9.52		Cu, 9.52	
	Fin	Material			Al			Al		Al	
	Face Area		m ² (ft ²)	0.27 (2.9)	0.27 (2.9)	0.37 (3.9)	0.54 (5.8)	0.54 (5.8)	1.01 (10.9)	1.01 (10.9)	1.20 (12.9)
Filtration	Type			Washable GI Frame Filter / G3			Washable GI Frame Filter / G3		Washable GI Frame Filter / G3		
	Quantity		PC	2	2	2	3	3	3	3	4
	Dimension (L x W x t)		mm	210x420x21 420x420x21	210x420x21 420x420x21	420x420x21	420x420x21	420x420x21	738x454x46	738x454x46	738x454x46 738x262x46
Drain Pipe (Nominal)			mm (in)	19 (3/4")	19 (3/4")	19 (3/4")	25 (1")	25 (1")	25 (1")	25 (1")	32 (1 1/4")

Note:-

- All specifications are subjected to change by the manufacturer without prior notice
- Nominal cooling capacity are based on the below conditions:-
 - Entering air temp 27 deg C (80.6 deg F) DB and 19 deg C (66.2 deg F) WB.
 - Standard Delta - Entering water temperature 7 deg C (44.6 deg F)
Leaving water temperature 12 deg C (53.6 deg F)
 - High Delta - Entering water temperature 6.67 deg C (44.0 deg F)
Leaving water temperature 14.44 deg C (58.0 deg F)
- 1 row heating coil option is available upon request.
- ** Optional high external static pressure as 250Pa.



Nomenclature

SDFD 016 AW - AREC

Brand	S	: Saiver
Model Name	DFD	: Ducted Fan Coil Double Skin
	DFHD	: Ducted Fan Coil High Delta T, Double Skin
	MA	: Mini AHU
Air Flow	006	: 600 cfm
	013	: 1300 cfm
	020	: 2000 cfm
	030	: 3000 cfm
	040	: 4000 cfm
	064	: 6400 cfm
	010	: 1000 cfm
	016	: 1600 cfm
	024	: 2400 cfm
	032	: 3200 cfm
	048	: 4800 cfm
Series	A	: A Series
	C	: C series
Model Type	For SDFD-EC,	
	W	: Chilled Water
	WW	: Chilled Water With Heater Coil
	For SMA,	
	4	: 4 row (SMA)
	6	: 6 row (SMA)
	W	: Chilled Water
Electrical	A	: 50 Hz/1Ph/220~240V
	B	: 60 Hz/1Ph/208~230V
	F	: 50 Hz/3Ph/380~415V
	G	: 60 Hz/3Ph/380V
Header Orientation	R	: Right Hand Side
	L	: Left Hand Side
Motor Option	E	: Standard EC Motor
	EH	: High Static EC Motor (Optional)
Header	S	: Steel
	C	: Copper

SAIVER S.R.L.

Via M. da Besozzo

16 20052 Monza (Milan) Italy.

Tel : +39.039.282831, Fax : +39.039.2025668

Email : info@saiver.com

Website : www.saiver.it

Welcome Air-Tech (Malaysia) Sdn Bhd

46, Jalan Anggerik Mokara 31/47,

Kota Kemuning, Seksyen 31,

40460 Shah Alam, Selangor Darul Ehsan, Malaysia.

Tel : +603-51218090, Fax : +603-51228090

Email : sales@saiver-welaire.com.my

Website : www.saiver-welaire.com.my

Zhongshan Saiver Welaire Air-Cond. Equip. Co. Ltd.

Guangfeng Industrial Estate,

Shalang, West District,

Zhongshan City, Guangdong Province, China

Tel: +86-760 2333 1878, Fax: +86-760 2333 1178

Email : sales@saiver-welaire.com.cn

Website : www.saiver-welaire.com.cn

