

Sakura Air Conditioner User-friendly, Earth-friendly



SDF Series

(40~1,000 USRT as standard)
(Up to 1,500 USRT on request)

Direct Fired Absorption Chiller
(Double Effect Chiller and Heater)

TECHNICAL SPECIFICATIONS:

MODEL			SDF 004A	SDF 005A	SDF 006A	SDF 007A	SDF 008A	SDF 010A	SDF 013A	SDF 015A	SDF 018A	
COOLING CAPACITY		USRT	40	50	60	70	80	100	125	150	180	
HEATING CAPACITY		kcal/h	145,600	182,000	218,000	254,000	291,000	253,000	316,200	379,500	455,400	
CHILLED (HOT) WATER	CHILLED WATER TEMP(IN/OUT)	°C	IN 12 → OUT 7									
	HOT IN/OUT TEMP	°C	IN 54 → OUT 60						IN 55.5 → OUT 60			
	FLOW RATE	m ³ /h	24.2	30.2	36.3	42.4	28.5	60.5	75.6	90.7	108.9	
	PRESSURE DROP	mAq	2.8	3	3.3	2.4	2.5	4	6	5	6.8	
	CONNECTION	A	80			100			125			
COOLING WATER	COOLING WATER TEMP(IN/OUT)	°C	IN 32 → OUT 37.6									
	FLOW RATE	m ³ /h	40	50	60	70	80	100	125	150	180	
	PRESSURE DROP	mAq	4.3	4.5	5	3.8	4	4.6	7.5	5.5	8.3	
	CONNECTION	A	100			125			150			
FUEL CONSUMPTION	GAS	COOL	Nm ³ /h	11.6	14.5	17.4	20.3	23.2	27.5	34.4	41.2	49.5
	11,000kcal/Nm ³	HEAT	Nm ³ /h	15.9	19.9	23.9	27.8	31.8	26.9	33.7	40.4	48.5
	GAS	COOL	Nm ³ /h	8.5	10.6	12.7	14.9	17	20.2	25.2	30.2	36.3
	15,000kcal/Nm ³	HEAT	Nm ³ /h	11.7	14.6	17.5	20.4	23.4	19.7	24.7	29.6	35.6
	OIL	COOL	kg/h	12.4	15.5	18.5	21.6	22.4	27.4	34.2	41.1	49.3
	10,300kcal/kg	HEAT	kg/h	16.4	20.5	24.6	28.7	30.8	27.4	34.2	41.1	49.3
ELECTRIC POWER	POWER			3φ 220V / 380V / 440V 50Hz								
	SOULTION PUMP(1)	kW	1.2 (3.0A)			1.2 (3.0A)		2.0(6.1A)		2.4(6.4A)		
	SOULTION PUMP(2)	kW	-									
	REF PUMP	kW	0.2 (1.1A)			0.2 (1.1A)		0.3(1.5A)		0.3(1.5A)		
	PURGE PUMP	kW	0.4 (1.3A)			0.4 (1.3A)		0.4(1.1A)		0.75(2.1A)		
	BURNER'S BLOWER(GAS)	kW	0.37 (1.1A)			0.74 (2.3A)		1.5(3.5A)			1.5(4.5A)	
	BURNER'S BLOWER(OIL)	kW							1.5(2.2A)		2.2(4.8A)	
CONNECTION PIPE	GAS FUEL PIPE CONNECTION	A	50			50		40		40	50	
	OIL FUEL PIPE CONNECTION	A	10			10		10		15		
	EXHAUSTED GAS	mm	190 x 110			270 x 150		202x252		232x282		
DIMENSION	LENGTH (L)	mm	2079			2,476		2,814	3410	3,850	4,350	
	WIDE (w)	mm	1490			1,699		2,161		2,200		
	HEIGHT (H)	mm	1852			1,852		2,137		2,300		
WEIGHT	OPERATION	ton	3.0	3.2	3.4	3.8	4	6.3	7	8	8.8	
	SHIPPING	ton	2.7	2.9	3.1	3.5	3.7	5.8	6.5	7.4	8.1	

TECHNICAL SPECIFICATIONS

SDF 021A	SDF 024A	SDF 028A	SDF 032A	SDF 036A	SDF 040A	SDF 045A	SDF 050A	SDF 055A	SDF 060A	SDF 070A	SDF 080A	SDF 090A	SDF 100A
210	240	280	320	360	400	450	500	550	600	700	800	900	1000
531,300	607,200	708,400	809,600	910,800	1,012,000	1,138,000	1,265,000	1,416,800	1,593,900	1,771,000	2,024,000	2,277,000	2,530,000
IN 12 → OUT 7													
IN 55.5 → OUT 60													
127	145.2	169.3	193.5	217.7	241.9	272.2	302.4	332.6	362.9	423.4	483.8	544.3	604.8
5	6.2	4	5	4	5.5	8.5	9.5	5.2	6.7	8.8	4.8	6.5	8.5
125		150		150		200		200				250	
IN 32 → OUT 37.6													
210	240	280	320	360	400	450	500	550	600	700	800	900	1000
6.5	7.5	6	8.5	6	8.5	10.5	11	8.3	11	14.2	8.6	11.3	14.5
150		200		200		250		300				350	
57.7	66	77	88	99	110	123.7	137.5	151.2	164.9	192.4	219.9	247.4	274.9
56.6	64.7	75.5	86.2	97.1	107.8	121.3	134.8	150	169.8	188.7	215.7	242.6	269.6
42.3	48.4	56.4	64.5	72.6	80.6	90.7	100.8	110.9	121	141.1	161.3	181.4	201.6
41.5	47.4	55.3	63.2	71.1	79.1	88.9	98.8	132.6	127.6	148.9	170.2	191.4	212.7
57.5	65.8	76.7	87.7	98.6	109.6	123.3	137	154	173	192	219	246	273
57.5	65.8	76.7	87.7	98.6	109.6	123.3	137	154	173	192	219	246	273
3φ 220V / 380V / 440V 50Hz													
3.2(9.5A)		3.4(10.3A)		5.5(15.3A)		6.6(21.5A)		6.6(21.5A)		6.6(21.5A)		7.5(25.0A)	
0.9(3.2A)		1.5(4.6A)		1.5(4.6A)		1.5(4.6A)		2.0(6.1A)		2.2(6.4A)		2.2(6.4A)	
0.75(2.8A)		1.5(3.9A)		1.5(3.9A)		1.5(3.9A)		2.0(5.2A)		2.0(5.2A)		2.0(5.2A)	
0.75(2.1A)				0.75(2.1A)						0.75(2.1A)			
1.5(4.5A)	2.2(5.0A)	2.2(8.2A)				3.7(13.4A)		4.0(10.5A)				7.5(18.6A)	
2.2(4.8A)	3.7(7.6A)			6.25(12.6A)				4.0(10.5A)[0.55(2.3A)]				7.5(18.6A) [1.1(3.3A)]	
50		50	65	65		65		65		65		65	
15		15		15		20		25		25		25	
262x342		302x382		342x422		452x532		452x532				452x652	
3,870	4,370	5,020	5,520	5,025	5,525	5,150	5,610	5060	5600	6100	5710	6210	6730
2,370		2,570		2,635		2,650		3010				3400	
2,410		2,440		2,500		2,550		3000				3610	
9.7	10.1	11.6	12.9	13.7	14.3	15.3	16.1	23.4	25.3	26.9	33.5	36.1	38.9
8.8	9.1	10.5	11.6	12.1	12.7	13.3	14.1	20.7	22.4	23.7	29.4(17.1)	31.8(18.2)	34.3(19.4)