



Model			MDFS2-24ARN1	MDFS2-48ARN1	MDFE-60ARN1
Indoor			MDFS2-24ARN1	MDFS2-48ARN1	MDFE-60ARN1
Outdoor			MDOFS2-24HN1	MDOFS2-48HN1	MDOFE-60HN1
Power supply		Ph-V-Hz	220-240V~ 50Hz, 1Ph	3Ph, 380-420V~, 50Hz	3Ph, 380-420V~, 50Hz
Cooling	Capacity	Btu/h	24000	48000	60000
	Input	W	2503	5006	6258
	Rated current	A	13.0	10,6	9,8
	EER	W/W	2,81	2,81	2,81
Heating	Capacity	Btu/h	27000+7200	54000+12000	61300+12000
	Input	W	2465+2100	4930+3500	5596+3500
	Rated current	A	12.5+10.0	10.3+5.3	8.7+5.3
	COP	W/W	3.21	3,21	----
Moisture Removal		L/h	2.6	4,8	6,1
Max. input consumption		W	3600+2100	9740	12700
Max. current		A	17.0+10.0	16,6	20,2
Starting current		A	66	66	67
Compressor	Model		PA290G2CS-4MU1	C-SBN373H8D	C-SBN453H8D
	Type		ROTARY	SCROLL	SCROLL
	Brand		GMCC	SANYO	SANYO
	Capacity	Btu/h	24771/24959	48109	55957/69264
	Input	W	2430/2600	4750	5750/6750
	Rated current(RLA)	A	11.65/12.6	8.22	9.77/9.84
	Locked rotor Amp(LRA)	A	66	66	67
	Thermal protector		----	----	----
	Thermal protector position		INTERNAL	INTERNAL	INTERNAL
	Capacitor	uF	50	--	--
	Refrigerant oil/oil charge	ml	ESTER OIL VG74/850	FV68S / 1700	FV68S/1700
Indoor fan motor	Model		YDK72-10R	YDK120-8N	YDK160-8
	Brand		Welling	Welling	Welling
	Input	W	152/123	300/240	349/332/310/232
	Capacitor	uF	3.5	6.5	9
	Speed(Hi/Mi/Lo)	r/min	515 / 425	580 / -- / 480	600 / 550 / 510
Indoor coil	a.Number of rows		2	2	3
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	25.4x22
	c.Fin spacing	mm	1.3	1.4	1.5
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7,innergroovetube	Φ7,inner groove tube	Φ9.52,innergroove tube
	f.Coil length x height x width	mm	405x735x26.74	422x966x26.74	484.4x813x66
	g.Number of circuits		6	10	6
Indoor air flow (Hi/Mi/Lo)		m3/h	1020/840	1800/1500	2200/2000/1900
Indoor noise level (Hi/Mi/Lo)		dB(A)	51/47	56/52	59/57/55
Indoor unit	Dimension(W*D*H)	mm	500x230x1680	540x379x1775	600x358x1900
	Packing (W*D*H)	mm	1820x355x630	1915x475x660	1985x450x660
	Net/Gross weight	Kg	36/ 44	54 / 65	65 / 75
Outdoor fan motor	Model		YDK53-6C	YDK190-6D(B)	YDK65-6(B) + YDK65-6F(B)
	Brand		Welling	Welling	Welling
	Input	W	136	290	162 + 162
	Capacitor	uF	3	10	3.5 + 3.5
Outdoor coil	Speed	r/min	800	830 / -- / --	765+765
	a.Number of rows		2	2	2
	b.Tube pitch(a)x row pitch(b)	mm	22x19.05	22x19.05	22x19.05
	c.Fin spacing	mm	1.4	1.5	1.6
	d.Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ7.94,innergroove tube	Φ7.94,inner groove tube	Φ7.94,innergroove tube
	f.Coil length x height x width	mm	770*660*38.1	893x902x38.1	837x1100x38.1
g.Number of circuits		4	8	8	
Outdoor air flow		m3/h	2700	3800	4500
Outdoor noise level		dB(A)	58	64	62
Outdoor unit	Dimension(W*D*H)	mm	845x320x700	990x345x965	900x350x1170
	Packing (W*D*H)	mm	965x395x755	1120x435x1100	1032x443x1210
	Net/Gross weight	Kg	50/53.3	88/98	103/ 107
Refrigerant type		g	R410A/1800g	R410A/3200g	R410A/3200g
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ15.9(3/8"/5/8")	Φ12.7/Φ19(1/2"/3/4")	Φ12.7/Φ19(1/2"/3/4")
	Max. refrigerant pipe length	m	20	20	30
	Max. difference in level	m	10	10	20
Operation temperature	Indoor(cooling/ heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30
	Outdoor(cooling/heating)	°C	18~43/-7~24	18~43/-7~24	18~43/-7~24