

FDB/MF & FDMQN SERIES

COOLING ONLY & HEAT PUMP



ENHANCE THE DÉCOR OF YOUR ROOM WITH THE NEW UNOBTRUSIVE CONCEALED SERIES



FDBF12~FDMF54 (COOLING ONLY)	3.5 KW ~ 15.8 KW	COOLING	R-32
FDMQN25~140 (HEAT PUMP)	2.8 KW ~ 16.1 KW	COOLING	R-410A
	2.8 KW ~ 16.1 KW	HEATING	R-410A

ACCESSORY REQUIRED FOR INDOOR UNIT

WIRED HANDSETS

Standard

BRC51A61
(Heat Pump)



(Applicable for FDMQN only)



LCD type
(Applicable for FDB/MF)

WIRELESS HANDSETS

Standard

BRC52A61
(Heat Pump)



(Applicable for FDMQN only)

*Available with FDMQN models.

CEILING CONCEALED TYPE (Cooling Only)

R-32

Model Name		Indoor Unit	FDBF12ARV16	FDBF18ARV16	FDBF24ARV16	FDMF30ARV16	FDMF36ARV16	FDMF42ARV16	FDMF48ARV16	FDMF54ARV16
		Outdoor Unit	RGF12ARV16	RGF18ARV16	RGF24ARV16	RGF30ARV16	RGF36ARV16	RGF42ARV16	RGF48ARV16	RGF54ARV16
Rated Capacity	Btu/H		12000	18000	24000	30019	36023	42027	48032	54035
	W		3516	5274	7032	8790	10548	12306	14064	15822
Rated Total Input Power	W		1212	1819	2425	2750	3330	3850	4530	5456
Power Source	V/Ph/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	415/3/50	415/3/50	415/3/50
Refrigerant Type			R-32							
Indoor Unit	Control	Operation	Wired Control							
	Airflow(H/M/L)	CFM	400/350/300	600/390/330	800/650/600	1000/910/815	1200/1070/950	1400/1265/1135	1500/1360/1190	1700/1585/1440
	External Static Pressure	Pa	20	20	20	20	30	40	50	50
	Sound Pressure Level	dBA	38	41	43	42	46	47	49	50
	Unit Dimension (HxWxD)	mm	250x880x605	250x880x605	250x1130x605	295x1430x665	295x1430x665	295x1430x665	295x1730x665	295x1730x665
	Packing Dimension (HxWxD)	mm	266x1080x648	266x1080x648	266x1330x648	340x1645x725	340x1645x725	340x1645x725	435x1950x725	435x1950x725
	Unit Weight	Kg	36	37	46	50	56	56	70	70
	Condensate Drain Size	mm	32	32	32	32	32	32	32	32
	Unit Dimension (HxWxD)	mm	550x765x285	595x845x300	595x845x300	990x940x320	990x940x320	990x940x320	990x940x320	990x940x320
	Packing Dimension (HxWxD)	mm	642x932x380	680x1035x410	680x1035x410	1160x1050x420	1160x1050x420	1160x1050x420	1160x1050x420	1160x1050x420
Outdoor Unit	Unit Weight	Kg	30	36	45	66	68	74	74	86
	Pipe Connection	Type	Flare		Flare	Flare	Flare	Flare	Flare	Flare
		Liquid mm	6.4	6.4	6.4	9.52	9.52	9.52	9.52	9.52
		Gas mm	12.7	12.7	15.9	15.9	15.9	15.9	15.9	19.05

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

2. All units are being tested w.r.t. IS1391-II / IS8148

3. Nominal cooling capacity are based on the conditions below : Cooling - 27°C DB / 19°C WB indoor and 35°C DB outdoor

4. Sound pressure level are according to JIS B 8616 standard. Position of the measurement point is 1.5m below / above the unit with 1m duct connect to the inlet and 2m duct connect to the outlet.

5. Refrigerant (R-32) is pre-charged at factory shipment.

CEILING CONCEALED TYPE (Heat Pump)

Model Name	Indoor unit	25	35	50	60	71	90	100	125	140
		FD- MQN25CXV16	FD- MQN35CXV16	FD- MQN50CXV16	FD- MQN60CXV16	FD- MQN71CXV16	FD- MQN90CXV16	FD- MQN100CXV16	FD- MQN125CXV16	FD- MQN140CXV16
	Outdoor unit	RYN25CGXV16	RYN35CGXV16	RYN50CGXV16	RYN60CGXV16	RQ71CGXV16	RQ90DGXV16	RQ100DGXV16	RQ125DGXV16	RQ140DGXV16
Rated Cooling Capacity	Btu/h	9500	12500	18000	21000	26000	33000	39000	45000	55000
	kW	2.78	3.66	5.28	6.16	7.62	9.67	11.43	13.19	16.12
Rated EER	W/W	2.96	2.91	3.13	3.15	2.73	3.03	2.82	2.87	3.01
	Btu/h	9500	12000	18500	22000	26000	36000	41000	47000	55000
Rated Heating Capacity	kW	2.78	3.52	5.42	6.45	7.62	10.55	12.02	13.77	16.12
Rated COP	W/W	3.52	3.18	3.55	3.39	3.27	3.64	3.25	3.41	3.41
Indoor unit	External Static Pressure (SH/H/M/L)	Pa	29/20/10	29/20/10	29/20/10	29/20/10	98/78/68/59	118/96/78/61	118/96/78/61	147/126/109/92
	Air Flow (SH/H/M/L)	cfm	250/235/210	410/370/250	570/558/480	690/660/535	850/810/770/710	1280/1160/1050/920	1280/1160/1050/920	1430/1320/1230/1130
	Sound Pressure Level (SH/H/M/L)	dBA	33/30/26	37/34/29	38/36/34	40/39/36	44/41/38/34	52/49/47/45	52/49/47/45	54/53/52/51
	Height	mm	261	261	261	261	285	315	315	378
	Width	mm	765	905	1065	1200	932	1257	1257	1299
	Depth	mm	411	411	411	411	600	638	638	541
	Net Weight	kg	18	22	24	26	40	49	49	50
										56
Outdoor unit	Power Supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	380-415/3/50
	Sound Pressure Level	dBA	46	49	52	52	58	58	58	60
	Height	mm	540	540	651	753	753	852	852	852
	Width	mm	700	700	855	855	855	1030	1030	1030
	Depth	mm	250	250	328	328	328	400	400	400
	Net Weight	kg	28	30	47	50	57	86	95	98
	Pipe Connection - Liquid	mm	6.35	6.35	6.35	6.35	9.52	9.52	9.52	9.52
	Pipe Connection - Gas	mm	9.52	12.7	12.7	15.88	15.88	15.88	15.88	19.05
Max. Allowable Length	m	12	12	15	15	15	45	45	45	35
Max. Allowable Elevation	m	5	5	8	8	8	25	25	25	15

Note: Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19°CWB; outdoor temp. 35°CDB.
 Rated heating capacities are based on the following conditions: Indoor temp., 20°CDB; outdoor temp., 7°CDB, 6°CWB.
 All unit are being tested and comply to ISO 5151 (Non-ducted unit)