



# CEILING CONCEALED SERIES

FDB/MF & FDMQN SERIES  
COOLING ONLY & HEAT PUMP

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



<b>FDBF12~FDMF48 (COOLING ONLY)</b>	3.5 KW ~ 14.0 KW	COOLING	<b>R-32</b>
<b>FDMQN25~140 (HEAT PUMP)</b>	2.8 KW ~ 16.1 KW	COOLING	<b>R-410A</b>
	2.8 KW ~ 16.1 KW	HEATING	<b>R-410A</b>

### 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)

**BRC4N151**  
(Cooling Only)

\*Available with FDMQN models.

## FEATURES

	FDMR(Q)N	Cooling Only	Heat Pump
Comfort	Auto Fan Speed	•	•
	Auto Mode	—	•
	Auto Defrosting	—	•
	Dry Function	•	•
	Sleep Mode	•	•
IAQ	Washable Saranet Filter	•	•
Fin type	Anti Corrosion Hydrophilic Gold Fin	*2	*2
	Wireless Controller	*1	*1
Controller	Wired Controller	•	•
	24 Hour On/Off Timer	•	•
	Delay Timer	•	•
	Self Diagnosis Display	•	•
Protection	Auto Random Restart	•	•
	Hydrophilic Gold Fin Outdoor Heat Exchanger	•	•
Power supply	Power from Outdoor	•	•

\*1 Option

\*2 Outdoor units only

1 TR (Tons of Refrigeration) = 3.517 kW

## FEATURES FDMR(Q)N

### EXCELLENT AIR DISTRIBUTION

The conditioned air can be distributed evenly to every corner of the room through ducting. This helps to create a pleasant environment and maintain comfort. Furthermore, multiple areas can be conditioned simultaneously by using just one indoor unit.

### AUTO RANDOM RESTART WITH LAST-STATE-MEMORY

In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed). This ensures that air-conditioners in the same building resume randomly instead of all units resuming at the same time, preventing power surge after a blackout.

### DOUBLE PROTECTION DRAINAGE SYSTEM

The primary drain pan is designed with high thermal insulation material and moulded in gradient for better condensate water drainage. The extra secondary drain pan 'built-in' to the standard unit offers extra protection against possible water leaking problems.

## FLEXIBILITY IN SYSTEM DESIGN

The unit offers fan motor that can operate up to 4 speeds, thus providing choices of external static pressure for designing ducting system.

## SELF DIAGNOSIS FEATURES

The microprocessor provides the possibility to detect and to diagnose any faults that occurs in the system. Faults are displayed as error code in the wired controller. This will ease the troubleshooting process.

## FEATURES FDB/MF

### WIDE EXTERNAL STATIC RANGE

Wide static range makes these series suitable to wide applications. Low static machines finds their application at space constraint areas i.e. Hotels and apartments. This series offering includes mid static machines also which meet the static requirements of long ducts and multi zones.

Refrigerant	Model Size (TR)	1.0	1.5	2.0	2.5	2.8	3.5	4.0
<b>R-32</b>	Static (Pa)	20	20	20	20	30	40	50

### LOW HEIGHT APPLICATION

New residential and commercial spaces, HVAC requirement are tilting towards low height indoor machines. FDBF range of low static machines with unit's height as low as 250 mm are the perfect match for low ceiling height installations.

Model Size (TR)	1.0	1.5	2.0	2.5	2.8	3.5	4.0
Unit Height (mm)	250	250	250	295	295	295	295

### QUIET OPERATION

Daikin ceiling concealed machines are designed to keep Enclosed area super quiet. Enclosed areas air-conditioned by FDBF machines are quieter than libraries.

Model Size (TR)	Speed	1.0	1.5	2.0	2.5	2.8	3.5	4.0
Sound Level dB(A)	H	36	39	43	43	42	42	49
	M	34	36	40	40	39	39	45
	L	32	34	38	38	36	36	43



CEILING CONCEALED TYPE (Cooling Only)

R-32

UNIT	Product Category	Unit	LSP DUCT SERIES			MSP DUCT SERIES			
	Nominal Capacity	TR		1.0	1.5	2.0	2.5	2.8	3.5
Rated Capacity	Watt		3516	5274	7032	8790	9845	12306	14064
Rated Power Input	Watt		1090	1740	2050	2710	3120	3950	4630
EER/COP	W/W		3.23	3.03	3.43	3.24	3.16	3.12	3.04
BEE Star Applicable	-----		NA	NA	NA	NA	NA	NA	NA
Operating Range	IDU (DB/WB)		19/14~35/24			19/14~35/24			
	ODU		19~48			19~48			
Refrigerant	-----		R32			R32			
Model Name	-----		FDBF12CRV16	FDBF18CRV16	FDBF24CRV16	FDMF30CRV16	FDMF36CRV16	FDMF42CRV16	FDMF48CRV16
Casing Size(HXWXD)	MM		250X880X605		250X1130X605	295X1430X665		295X1730X665	
Casing Color	-----		Unpainted			Unpainted			
Power Supply	V/Hz/Ph		230V/50/1ph			230V/50/1ph		415V/50/3ph	
Air Flow Rate	CFM/(H)		400	600	800	1000	1200	1400	1500
ESP	Pa		20			20	30	40	50
Fan Speed	No		3			3	3	3	3
Sound Pressure Level(Hi)	(dBA)		36	39	43	43	42	42	49
Remote Controller(With IDU)	-----		Wired Type						
Unit Weight	Kg		28	24	34	48	51	51	60
Model Name	-----		RGF12CRV16	RGF18CRV16	RGF24CRV16	RGF30CRV16	RGF36CRV16	RGF42CRV16	RGF48CRV16
Casing Color	-----		IVORY WHITE						
Casing Size(HXWXD)	MM		550X765X285	595X845X300		990X940X320			
Power Supply	V/Hz/Ph		230V/50/1			230V/50/1ph		415V/50/3ph	
Max Total Pipe Length	Mtr.		20			20	30		
Max Vertical Pipe Length	Mtr.		10			10	15		
Std Pipe Length	Mtr.		7.5			7.5			
Sound Pressure Level	(dBA)		51	54	56	58	63		
Precharge & Service Valve	YES/NO		Yes			YES	YES	YES	YES
Protection Device	-----		Inbuilt TOP Comp & Motor			Inbuilt TOP Comp & Motor		LP/HP/SPPR/UV/OV	
Piping Size (MM)	Gas		12.7		15.9	15.9			
	Liquid		6.4			9.5			
Compressor Type	Type		Rotary			Rotary		Scroll	
Accumulator	-----		Part of Compressor			Part of Compressor		No	
HE Type/Coating	Type		FTHX(Precoated)						
Weight (Approx)	Kg		30	36	45	63	65	69	69
Installation Kit	Yes/No		No						

CEILING SUSPENDED TYPE

INVERTER R-410A

Name of option	Remark	Kit name	
		FHQ100BW1B KAF501DA112	FHQ125BVV1B KAF501DA160
Drain-up kit		KDU50N125VE	
L-type piping kit (for upward direction)		KHFP5MA160	
Remote controller	Wireless type	Cooling only	BRC7EA66
		Heat pump	BRC7EA63W
	Wired type <sup>1</sup>	BRC1C61	
Wired LCD remote controller with weekly schedule timer <sup>1</sup>		BRC1D61	
Navigation Remote Controller	Wired type <sup>1</sup>	BRC1E61	
Central remote controller <sup>2</sup>		DCS302CA61	
Unified ON/OFF controller <sup>2</sup>		DCS301BA61	
Schedule timer <sup>2</sup>		DST301BA61	
Touch Controller <sup>2</sup>		DCS601C51	
Adaptor for wiring		KRP1BA54	
Wiring adaptor for electrical appendices <sup>3</sup>		KRP4AA52	
Interface adaptor for SkyAir series		DTA112BA51	
Installation box for adaptor PCB		KRP1CA93	
Remote sensor (for indoor temperature)		KRC501-1B	
Electrical box with earth terminal (3 blocks)		KJB311AA	
Electrical box with earth terminal (2 blocks)		KJB212AA	

Note: 1Wiring for wired remote controller to be procured locally.  
 2This optional accessory requires DTA112BA51.  
 3Installation box for adaptor PCB (KRP1CA93) is necessary.