DAIKIN

Perfecting the Air

- COMPACT DESIGN 300MM IN HEIGHT
- AUTO AIRFLOW ADJUSTMENT
- PERFECT FIT FOR OFFICE OR COMMERCIAL APPLICATION

HEATING AND COOLING SOLUTIONS

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FXMQ-PAVE

VRV

MIDDLE-HIGH STATIC PRESSURE DUCT TYPE

2.2kW -TO- 16.0kW	2.5kW -TO- 18.0kW	10
RATED COOLING CAPACITIES	RATED HEATING CAPACITIES	MODELS

A ducted unit with mid to high ESP for flexible duct design. The FXMQ-PAVE series also adopts the use of a DC fan motor with 3-step fan control & Auto.

The FXMQ-PAVE series are mid static ducted units with a low profile height of only 300mm and Automatic Airflow Adjustment feature for simplified on-site commissioning.

DESIGN FLEXIBILITY

DC fan motor is used to realise energy-saving operation. Using a DC fan motor, the external static pressure can be controlled within a range of 30 Pa* to 200 Pa*.

Adjustable external static pressure

30 Pa* — **200 Pa**

*30 Pa – 100 Pa for FXMQ20PA-32PA
*30 Pa – 160 Pa for FXMQ40PA
*50 Pa – 200 Pa for FXMQ50PA-125PA
*50 Pa – 140 Pa for FXMQ140PA

COMFORT

Control of the airflow rate can be selected from 3-step control and Auto. Auto airflow rate control can be selected with wired remote controller. Low operation sound level: down to 29 dB(A).

FLEXIBLE INSTALLATION

All models are only 300 mm in height making it ideal for use in modern commercial and medium density apartment development where ceiling space is tight.

Drain pump is equipped as standard accessory with 700 mm lift.

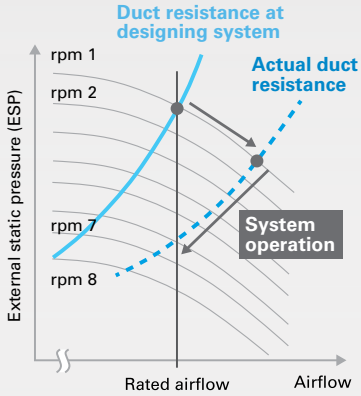
EASY MAINTENANCE

Inspection and cleaning is facilitated by separating the drain pipe and inspection opening and by the drain pan maintenance check hole.

AUTOMATIC AIRFLOW ADJUSTMENT FEATURE

"Airflow rate auto adjustment function"* at field setting (local setting by remote controller).

Design	Installation	Field setting **without** "airflow rate auto adjustment function"	Various adjustments are required (Due to excess or deficiency of airflow) e.g. Duct re-construction, Motor replacement, Damper replacement, etc.
Design	Installation	Field setting **with** "airflow rate auto adjustment function" by remote controller	**Innovating Function!**



<Mechanism>

1. During field setting, power input of DC fan is detected.
2. External static pressure is estimated from power input of DC fan because PCB of FXMQ-PA has table of external static pressure vs. power input of DC fan.
3. Actual duct resistance is calculated according to 1 and 2.
4. Fan speed is automatically adjusted to produce rated airflow.

Notes:

"Airflow rate auto adjustment function" can be adjusted within ±10% of rated airflow. (Refer to Engineering Data Book for details)
"Airflow rate auto adjustment function" should be used at field setting only.

*This function is not available with FXMQ140PAVE. This function can only be set via wired remote controller.

SPECIFICATIONS

MODEL			FXMQ20PAVE	FXMQ25PAVE	FXMQ32PAVE	FXMQ40PAVE	FXMQ50PAVE
Power Supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		Btu/h	7,500	9,600	12,300	15,400	19,100
		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		Btu/h	8,500	10,900	13,600	17,100	21,500
		kW	2.5	3.2	4.0	5.0	6.3
Power consumption	Cooling	kW	0.056 *1		0.060 *1	0.151 *1	0.128 *1
	Heating		0.044 *1		0.048 *1	0.139 *1	0.116 *1
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		l/s	150/125/108		158/133/116	267/216/183	300/275/250
		m3/min	9/7.5/6.5		9.5/8/7	16/13/11	18/16.5/15
External static pressure		Pa	30-100 (50) *2			30-160 (100) *2	50-200(100) *2
Sound level (HH/H/L)		dB(A)	33/31/29		34/32/30	39/37/35	41/39/37
Sound power (H)		dB(A)	51		52	57	59
Dimensions (HxWxD)		mm	300x550x700			300x700x700	300x1,000x700
Machine weight		kg	25			27	35
Piping connections	Liquid (Flare)	mm	6.4				
	Gas (Flare)		12.7				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)				

MODEL			FXMQ63PAVE	FXMQ80PAVE	FXMQ100PAVE	FXMQ125PAVE	FXMQ140PAVE
Power Supply			1-phase, 220-240 V/220 V, 50/60 Hz				
Cooling capacity		Btu/h	24,200	30,700	38,200	47,800	54,600
		kW	7.1	9.0	11.2	14.0	16.0
Heating capacity		Btu/h	27,300	34,100	42,700	54,600	61,400
		kW	8.0	10.0	12.5	16.0	18.0
Power consumption	Cooling	kW	0.138 *1	0.185 *1	0.215 *1	0.284 *1	0.405 *1
	Heating		0.127 *1	0.173 *1	0.203 *1	0.272 *1	0.380 *1
Casing			Galvanised steel plate				
Airflow rate (HH/H/L)		l/s	325/292/267	417/375/333	533/450/383	650/550/466	767/649/533
		m3/min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28	46/39/32
External static pressure		Pa	50-200 (100) *2				50-140(100) *2
Sound level (HH/H/L)		dB(A)	42/40/38	43/41/39		44/42/40	46/45/43
Sound power (H)		dB(A)	60	61		62	64
Dimensions (HxWxD)		mm	300×1,000×700		300×1,400×700		
Machine weight		kg	35		45		46
Piping connections	Liquid (Flare)	mm	9.5				
	Gas (Flare)		15.9				
	Drain		VP25 (External Dia. 32/Internal Dia. 25)				

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Heating: Indoor temp.: 20°CDB, Outdoor temp.: 7°CDB, 6°CWB, Equivalent piping length: 7.5 m, Level difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
- *1: Power consumption values are based on conditions of rated external static pressure.
- *2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA) or ten (FXMQ140PA) levels of control.
- These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA and 100 Pa for FXMQ40-140PA.

FXMQ-PAVE-26012023

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