DAIKIN

Air conditioners

Heating & Cooling

Sky Air

VRV

Concealed ceiling unit

www.daikin.eu

- For hotel bedrooms
- Discretely concealed in ceiling
- Compact dimensions
- As silent as rustling leaves
- Easy maintenance

FDBQ-B / FXDQ-M9

Replacement technology

Inverter technology | Energy saving during operation standby (MXS) | Home leave operation | Fan only | Auto cooling-heating changeover | Whisper quiet | Outdoor unit silent operation (MXS) | Night quiet mode (MXS) (cooling only) | Fan speed steps (2) | Dry programme | Air filter | Weekly timer | Wired remote control | Auto-restart

Self diagnosis | Multi model application (FDBQ) | VRV for residential application (FDBQ)

VRV

Fully integrated solutions for medium to large commercial environments

INDOOR UNIT				FXDQ20M9	FXDQ25M9
Cooling capacity	Nom.		kW	2.2	2.8
Heating capacity	Nom.		kW	2.5	3.2
Power input - 50Hz	Cooling	Nom.	kW	0.050	
	Heating	Nom.	kW	0.050	
Casing Colour				Unpainted	
Dimensions	Unit	HeightxWidthxDepth	mm	230x502x652	
Required ceiling void >			mm	250	
Weight	Unit		kg	17	
Fan-Air flow rate - 50Hz	Cooling	High/Low	m^3/min	6.7/5.2	7.4/5.8
	Heating	High/Low	m^3/min	6.7/5.2	7.4/5.8
Sound power level	Cooling	Nom.	dBA	50	
Sound pressure level	Cooling	High/Low	dBA	37/32	
	Heating	High/Low	dBA	37/32	
Refrigerant	Type			R-410A	
Piping connections	Liquid/OD/Gas/OD/Drain		mm	6.35/12.7/I.D. 21.6, O.D. 27.2	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230	
Current - 50Hz	Maximum fuse amps (MFA)		A	16	

FXDQ-M9

Heating & Cooling

SkyAir

Perfect for light commercial applications

INDOOR UNIT				FDBQ25B
Cooling capacity	Nom.		kW	-
Heating capacity	Nom.		kW	-
Casing	Material			Zinc coated low carbon steel
Dimensions	Unit	HeightxWidthxDepth	mm	230x652x502
Weight	Unit		kg	17.0
Fan - Air flow rate	Cooling	High/Low	m^3/min	6.50/5.20
	Heating	High/Low	m^3/min	6.95/5.20
Sound power level	Cooling	High/Low	dBA	55.0/49.0
	Heating	High/Low	dBA	55.0/49.0
Sound pressure level	Cooling	High/Low	dBA	35.0/28.0
	Heating	High/Low	dBA	35.0/29.0
Piping connections	Liquid	OD	mm	6.35
	Gas	OD	mm	9.52
	Drain			27.2
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 230

FDBQ25B

BRC1E52A/B

(1) Sound values are measured in a semi-anechoic room. (2) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. (3) The sound power level is an absolute value indicating the power which a sound source generates.

OUTDOOR UNIT					3MXS40K	3MXS52E	3MXS68G	4MXS68F	4MXS80E	5MXS90E
Dimensions	Unit	HeightxWidthxDepth		mm	735x936x300				770x900x320	
Weight	Unit			kg	49		58		72	73
Sound power level	Cooling	Nom.		dBA	59		61		62	66
Sound pressure level	Cooling	Nom.		dBA	46		48			52
	Heating	Nom.		dBA	47		49			52
Compressor	Type				Hermetically sealed swing compressor					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46					
	Heating	Ambient	Min.~Max.	°CWB	-15~18					
Refrigerant	Type				R-410A					
	GWP				1,975					
Piping connections	Liquid	OD		mm	6.35					
	Gas	OD		mm	9.5	9.52				
	Drain	OD		mm	16 (inner diameter of connecting hose)				25	
	Gas 2	OD		mm	-	12.7				
	Gas 3	OD		mm	-	15.9	-		15.9	
	Piping length	OU - IU	Max.	m	25					
	Level difference	IU - OU	Max.	m	15					
		IU - IU	Max.	m	7.5					
	Total piping length	System	Actual	m	50		60	70		75
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 230					

OUTDOOR UNIT					RXYSQ4P8V1	RXYSQ5P8V1	RXYSQ6P8V1
Capacity range				HP	4	5	6
Cooling capacity	Nom.			kW	12.6	14.0	15.5
Heating capacity	Nom.			kW	14.2	16.0	18.0
Power input - 50Hz	Cooling	Nom.		kW	3.24	3.51	4.53
	Heating	Nom.		kW	3.12	3.86	4.57
EER					3.89	3.99	3.42
COP					4.55	4.15	3.94
Maximum number of connectable indoor units					8	9	9
Indoor index connection	Min.				50	62.5	70
	Max.				130	162.5	182
Dimensions	Unit	HeightxWidthxDepth		mm	1,345x900x320		
Weight	Unit			kg	120		
Sound power level	Cooling	Nom.		dBA	66	67	69
Sound pressure level	Cooling	Nom.		dBA	50	51	53
	Heating	Nom.		dBA	52	53	55
Operation range	Cooling	Min.~Max.		°CDB	-5~46		
	Heating	Min.~Max.		°CWB	-20~15.5		
Refrigerant	Type				R-410A		
Piping connections	Liquid	OD		mm	9.52		
	Gas	OD		mm	19.1		
	Total piping length	System	Actual	m	115	135	145
	Level difference	OU - IU		m	40 (Outdoor unit in highest position) / 30 (Indoor unit in highest position)		
Power supply	Phase/Frequency/Voltage			Hz/V	1N~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	32.0		

(1) EER/COP according to Eurovent 2012

BRANCH PROVIDER			BPMKS967B2	BPMKS967B3
Connectable indoor units			1~2	1~3
Max. indoor unit connectable capacity			14.2	20.8
Max. connectable combination			71+71	60+71+71
Dimensions	Height x Width x Depth	mm	180x294x350	
Weight		kg	7	8

Outdoor unit	Combination of indoor unit FDBQ-B	Capacity of each indoor unit																	Seasonal data cooling			
		Each capacity (kW)				Total capacity (kW)			Total input (W)			Total current (A)			Power factor (%)	EER	Energy Label	AEC (kWh)	label	SEER	Pdesign	AEC
		A room	B room	C room	D room	Rating	(min ~ max)		Rating	(min ~ max)		Rating	(min ~ max)		Rating	Rating	Rating	Rating				
3MXS40K3V1B	2.5+2.5	2.00	2.00	---	---	4.00	1.88	4.54	950	350	1120	4.20	1.50	4.90	99.00	4.21	A	475.00	A++	6.90	4.00	203.00
3MXS52E4V1B	2.5+2.5	2.50	2.50	---	---	5.00	1.88	6.23	1450	350	2140	6.4	1.5	9.4	99	3.45	A	725	A++	6.93	5.00	253.00
	2.5+2.5+2.5	1.73	1.73	1.73	---	5.19	1.95	7.04	1240	370	2160	5.4	1.6	9.5	99	4.19	A	620	A++	7.23	5.19	252.00
3MXS68G3V1B	2.5+2.5	2.50	2.50	---	---	5.00	1.97	5.98	1460	450	2000	6.4	2.0	8.8	99	3.42	A	730	A	5.26	5.00	333.00
	2.5+2.5+2.5	2.26	2.26	2.26	---	6.78	1.98	7.38	2070	410	2450	9.1	1.8	10.8	99	3.28	A	1035	A	5.47	6.78	434.00
4MXS68F3V1B	2.5+2.5	2.50	2.50	---	---	5.00	1.97	5.98	1460	450	2000	6.4	2.0	8.8	99	3.42	A	730	A	5.26	5.00	333.00
	2.5+2.5+2.5	2.26	2.26	2.26	---	6.78	1.98	7.38	2070	410	2450	9.1	1.8	10.8	99	3.28	A	1035	A	5.47	6.78	434.00
	2.5+2.5+2.5+2.5	1.70	1.70	1.70	1.70	6.80	2.34	8.39	1710	460	2680	7.5	2.0	11.8	99	3.98	A	855	A+	5.77	6.80	413.00
4MXS80E3V3B	2.5+2.5	2.50	2.50	---	---	5.00	2.07	6.12	1.47	0.46	2.44	6.5	2.0	10.8	98	3.40	A	735	A+	5.70	5.00	307.00
	2.5+2.5+2.5	2.40	2.40	2.40	---	7.20	2.34	7.61	2.42	0.55	2.67	10.7	2.4	11.8	98	2.98	C	1210	A++	6.12	7.20	412.00
	2.5+2.5+2.5+2.5	1.94	1.94	1.94	1.94	7.76	2.68	8.82	2.45	0.60	3.14	10.9	2.7	13.9	98	3.17	B	1225	A++	6.27	7.76	433.00

Outdoor unit	Combination of indoor unit FDBQ-B	Capacity of each indoor unit																		Seasonal data cooling			
		Each capacity (kW)					Total capacity (kW)			Total input (kW)			Total current (A)			Power factor (%)	EER	Energy Label	AEC (kWh)	label	SEER	Pdesign	AEC
		A room	B room	C room	D room	E room	Rating	(min ~max)		Rating	(min ~ max)		Rating	(min~ max)		Rating	Rating	Rating	Rating				
5MXS90E3V3B	2.5+2.5	2.50	2.50	---	---	---	5.00	2.22	6.20	1.39	0.46	1.99	6.2	2.0	8.8	98	3.60	A	695	A+	5.84	5.00	300.00
	2.5+2.5+2.5	2.41	2.41	2.41	---	---	7.23	2.51	7.64	2.34	0.54	2.57	10.4	2.4	11.4	98	3.09	B	1170	A++	6.23	7.23	407.00
	2.5+2.5+2.5+2.5	2.03	2.03	2.03	2.03	---	8.12	2.88	9.03	2.56	0.58	3.22	11.4	2.6	14.3	98	3.17	B	1280	A++	6.43	8.12	443.00
	2.5+2.5+2.5+2.5+2.5	1.80	1.80	1.80	1.80	1.80	9.00	3.24	9.95	2.81	0.65	3.46	12.5	2.9	15.4	98	3.20	A	1405	A++	6.31	9.00	499.00

Outdoor unit	Combination of indoor unit FDBQ-B	Capacity of each indoor unit															Seasonal data heating (average climate)				
		Each capacity (kW)				Total capacity (kW)			Total input (W)			Total current (A)			Power factor (%)	COP	Energy Label	label	SCOP	Pdesign	AEC	Back-up heater capacity at -10°C
		A room	B room	C room	D room	Rating	(min ~ max)		Rating	(min ~ max)		Rating	(min ~ max)		Rating	Rating	Rating					
3MXS40K3V1B	2.5+2.5	2.30	2.30	---	---	4.60	1.28	5.00	1100	310	1290	4.8	1.4	5.7	99	4.18	A	A+	4.08	4.77	1636.00	0.92
3MXS52E4V1B	2.5+2.5	3.25	3.25	---	---	6.50	1.28	7.00	1860	310	2310	8.2	1.4	10.1	99	3.49	B	A+	4.08	4.77	1636.00	0.92
	2.5+2.5+2.5	2.26	2.26	2.26	---	6.78	1.45	8.02	1570	320	2140	6.9	1.4	9.4	99	4.32	A	A+	4.40	4.95	1574.00	0.94
3MXS68G3V1B	2.5+2.5	3.60	3.60	---	---	7.20	1.62	8.16	2240	380	2560	9.8	1.7	11.2	99	3.21	C	A	3.84	3.98	1452.00	0.77
	2.5+2.5+2.5	2.86	2.86	2.86	---	8.58	2.26	10.24	2350	480	2870	10.3	2.1	12.6	99	3.65	A	A	3.97	5.13	1809.00	0.98
4MXS68F3V1B	2.5+2.5	3.60	3.60	---	---	7.20	1.62	8.16	2240	380	2560	9.8	1.7	11.2	99	3.21	C	A	3.84	3.98	1452.00	0.77
	2.5+2.5+2.5	2.86	2.86	2.86	---	8.58	2.26	10.24	2350	480	2870	10.3	2.1	12.6	99	3.65	A	A	3.97	5.13	1809.00	0.98
	2.5+2.5+2.5+2.5	2.15	2.15	2.15	2.15	8.60	2.82	10.67	1910	570	2590	8.4	2.5	11.4	99	4.50	A	A+	4.26	5.83	1915.00	1.12
4MXS80E3V3B	2.5+2.5	3.04	3.04	---	---	6.08	1.90	7.16	1.69	0.41	2.14	7.5	1.8	9.5	98	3.60	B	A	3.82	3.53	1293.00	0.66
	2.5+2.5+2.5	2.97	2.97	2.97	---	8.91	2.61	9.88	2.34	0.54	2.74	10.4	2.4	12.2	98	3.81	A	A	3.87	4.79	1736.00	0.90
	2.5+2.5+2.5+2.5	2.40	2.40	2.40	2.40	9.60	3.28	10.71	2.27	0.58	2.72	10.1	2.6	12.1	98	4.23	A	A+	4.00	6.23	2181.00	1.17

Outdoor unit	Combination of indoor unit FDBQ-B	Capacity of each indoor unit																Seasonal data heating (average climate)				
		Each capacity (kW)					Total capacity (kW)		Total input (kW)			Total current (A)			Power factor (%)	COP	Energy Label	label	SCOP	Pdesign	AEC	Back-up heater capacity at -10°C
		A room	B room	C room	D room	E room	Rating	(min ~ max)	Rating	(min ~ max)		Rating	(min ~ max)		Rating	Rating	Rating					
5MXS90E3V3B	2.5+2.5	3.04	3.04	---	---	---	6.08	1.98 ~ 7.46	1.76	0.47	2.35	7.8	2.1	10.4	98	3.45	B	A	3.84	3.60	1312.00	0.67
	2.5+2.5+2.5	2.98	2.98	2.98	---	---	8.94	2.72 ~ 9.88	2.42	0.60	2.89	10.7	2.7	12.8	98	3.69	A	A	3.87	5.00	1810.00	0.98
	2.5+2.5+2.5+2.5	2.60	2.60	2.60	2.60	---	10.40	3.42 ~ 10.72	2.87	0.66	3.04	12.7	2.9	13.5	98	3.62	A	A+	4.01	6.46	2255.00	1.25
	2.5+2.5+2.5+2.5+2.5	2.08	2.08	2.08	2.08	2.08	10.40	4.13 ~ 11.10	2.62	0.72	2.89	11.6	3.2	12.8	98	3.97	A	A+	4.29	6.46	2110.00	1.23

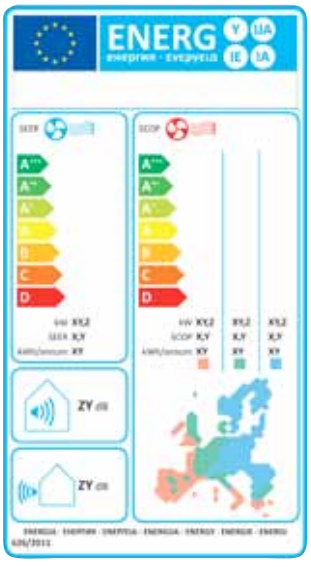
For seasonal data in combination with other indoor units, please consult www.daikineurope.com/energylabel

Europe's new energy label: raising the bar on energy efficiency

SEASONAL EFFICIENCY
Smart use of energy

To realise its challenging 20-20-20 environmental goals, Europe is imposing minimum efficiency requirements for energy related projects. These minimum requirements come into effect on 1 January 2013, and will be revised upward in subsequent years.

Not only does the Eco-Design Directive systematically raise the minimum requirements with respect to environmental performance, the method used to measure this performance has also been changed to better reflect real-life conditions. The new seasonal performance rating provides a much more accurate picture of actual expected energy efficiency over an entire heating or cooling season.



Completing the picture is a new energy label for EU. The present label, introduced in 1992 and modified in the meantime, allows consumers to compare and make purchasing decisions based on uniform labelling criteria. The new label includes multiple classifications from A+++ to D reflected in colour shadings ranging from dark green (most energy efficient) to red (least efficient). Information on the new label includes not only the new seasonal efficiency ratings for heating (SCOP) and cooling (SEER), but also annual energy consumption and sound levels. It will allow end-users to make even better informed choices, since seasonal efficiency reflects air conditioner or heat pump efficiency over an entire season.

Daikin Europe N.V. participates in the Eurovent Certification programme for Air conditioners (AC), Liquid Chilling Packages (LCP), Air handling units (AHU) and Fan coil units (FCU), Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com"

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