DAIKIN

technical data

air conditioning systems

R-410a

FMDQ-A7V3B

R-410A

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R-410a

FMDQ-A7V3B

R-410A

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FMDQ-A7V3B

1 Features

- Ideal for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- Blends unobtrusively with any interior décor
- Drain pump fitted as standard
- Long life filter fitted as standard
- The air suction direction can be altered from rear to bottom suction
- High external static pressure facilitates unit use with flexible ducts of varying lengths



heat pump





2 steps

via wired
remote control




optional

2 Specifications

2-1 FOR INDOOR UNITS ONLY			FMDQ50A7V3B	FMDQ60A7V3B	FMDQ71A7V3B	FMDQ100A7V3B	FMDQ125A7V3B
Nominal input (Indoor only)	Cooling	kW	5.0	6.0	7.1	10.0	12.5
	Heating	kW	5.6	6.7	8.0	11.2	14.0
Nominal Total Input Power	Cooling	kW	0.143	0.189	0.234	0.242	0.321
	Heating	kW	0.123	0.169	0.214	0.222	0.301

2-2 TECHNICAL SPECIFICATIONS				FMDQ50A7V3B	FMDQ60A7V3B	FMDQ71A7V3B	FMDQ100A7V3B	FMDQ125A7V3B
Casing	Material			Unpainted galvanised steel				
Dimensions	Packing	Height	mm	355	355	355	355	355
		Width	mm	892	1,192	1,592	1,592	1,592
		Depth	mm	936	936	936	936	936
	Unit	Height	mm	300	300	300	300	300
		Width	mm	700	1,000	1,400	1,400	1,400
		Depth	mm	800	800	800	800	800
Weight	Unit		kg	31	41	51	51	52
	Packed Unit		kg	37	48	59	59	60
Required Ceiling Void			mm	>350				
Heat Exchanger	Dimensions	Length	mm	450	750	1,150	1,150	1,150
		Nr of Rows		3	3	3	3	3
		Fin Pitch	mm	1.75	1.75	1.75	1.75	1.75
		Nr of Passes		4	7	10	10	10
		Face Area	m²	0.123	0.221	0.338	0.338	0.338
		Nr of Stages		14	14	14	14	14
	Tube type			Hi-XSS (7)				
	Fin	Type		Symmetric waffle louvre				
		Treatment		Hydrophilic				
Fan	Type			Sirocco fan				
	Quantity			1	2	3	3	3
Air Flow Rate	Cooling	High	m³/min	15	21	27	28	38
		Low	m³/min	11	15.5	20	20.5	28
	Heating	High	m³/min	15	21	27	28	38
		Low	m³/min	11	15.5	20	20.5	28
Fan	Max	High	Pa	136	123	141	141	109
		Standard	Pa	114	111	125	125	93
		Low	Pa	99	98			
	Motor	Quantity		1	1	1	1	1
		Model		D18H2AB1V1	2D18H2AB1V1	3D18H2AH1V1	3D18H2AH1V1	3D18H2AG1V1
		Number of steps		Step motor				
		Output (high)	W	85	125	135	135	225
		Drive		Direct drive				
Cooling	Sound Power	Medium	dBA	58	56	55	56	65
	Sound Pressure	High	dBA	35	35	37	38	40
		Low	dBA	31	30	31	33	35
Heating	Sound Pressure	High	dBA	35	35	37	38	40
		Low	dBA	31	30	31	33	35
Refrigerant	Type			R-410A				
Piping connections	Liquid (OD)	Type		Flare connection				
		Diameter (OD)	mm	6.35	9.52	9.52	9.52	9.52
	Gas	Type		Flare connection				
		Diameter (OD)	mm	12.7	15.9	15.9	15.9	15.9
	Drain	Diameter (OD)	mm	VP25 (O.D. 32 / I.D. 25)				
	Heat Insulation			Both liquid and gas pipes				
Drain-up Height			mm	600	600	600	600	600
Decoration Panel	Model			BYBS45DJW1	BYBS71DJW1	BYBS125DJW1	BYBS125DJW1	BYBS125DJW1
	Colour			White (10Y9/0,5)				
	Dimensions	H	mm	55	55	55	55	55
		W	mm	800	1,100	1,500	1,500	1,500
		D	mm	500	500	500	500	500
	Weight		kg	3.5	4.5	6.5	6.5	6.5

2 Specifications

2-2 TECHNICAL SPECIFICATIONS	FMDQ50A7V3B	FMDQ60A7V3B	FMDQ71A7V3B	FMDQ100A7V3B	FMDQ125A7V3B
Air Filter	Resin net with mold resistance				
Air direction control	Up and downwards				
Temperature control	Microprocessor thermostat for cooling and heating				
Safety Devices	PC board fuse				
	Drain pump fuse				
	Fan motor thermal protector				
Notes	Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 5m, level difference : 0m.				
	Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 5m, level difference : 0m				
	The external static pressure is changeable : change the connectors inside the electrical box, this pressure means : High static pressure - standard - low static pressure				
	The external static pressure is changeable : change the connectors inside the electrical box, this pressure means : High static pressure - standard				
	Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.				
	The sound pressure values are mentioned for a unit installed with rear suction				

2-3 ELECTRICAL SPECIFICATIONS			FMDQ50A7V3B	FMDQ60A7V3B	FMDQ71A7V3B	FMDQ100A7V3B	FMDQ125A7V3B
Power Supply	Name		V3				
	Phase		1~				
	Frequency	Hz	50	50	50	50	50
	Voltage	V	230	230	230	230	230

3 Electrical data

FMDQ-A

Units						Power supply		IFM	
Model	Type	Hz	Volts	Lower	Max.	MCA	MFA	kW	FLA
FMDQ50A	V1	50	230	207	253	0.9	16	0.085	0.7
FMDQ60A						1.1	16	0.125	0.9
FMDQ71A						1.4	16	0.225	1.1
FMDQ100A						1.5	16	0.225	1.2
FMDQ125A						2.0	16	0.225	1.6

Symbols:
MCA: Min. Circuit Amps (A);
MFA: Max. Fuse Amps (A) (see note 5);
kW: Full Load Amps (A);
IFM: Indoor Fan Motor

NOTES

1 Voltage range
The units are suitable for use on electrical systems where the voltage supplied to the unit terminals is not below or above listed range limits.

2 The maximum allowable voltage variation between phases is 2%.

3 MCA/MFA
MCA = 12.5 x FLA
MFA < 4 x FLA
(next lower standard fuse rating min 16A)

4 Select a wire size based on the MCA.

5 Instead of a fuse, use a circuit breaker.

3TW29112-1A

4 Safety device settings

		FMDQ50A	FMDQ60A	FMDQ71A	FMDQ100A	FMDQ125A
PC BOARD FUSE		250V 10A				
FAN MOTOR THERMAL FUSE	°C	$152^{\pm 2}$		-		
FAN MOTOR THERMAL PROTECTOR	°C	-		OFF:$130^{\pm 5}$, (ON: $80^{\pm 20}$)	OFF:$130^{\pm 5}$, (ON: $80^{\pm 20}$)	OFF:$130^{\pm 5}$, (ON: $80^{\pm 20}$)
DRAIN PUMP FUSE	°C	169				

3TW25511-3

5 Options

	FMDQ50A7	FMDQ60A7	FMDQ71A7	FMDQ100A7	FMDQ125A7
DECORATION PANEL	BYBS45D	BYBS71D	BYBS125D		
SERVICE ACCESS PANEL	KTBJ25K56W	KTBJ25K80W	KTBJ25K160W		
HIGH EFFICIENCY FILTER 65% (1)	KAFJ252L56	KAFJ252L80	KAFJ252L160		
HIGH EFFICIENCY FILTER 90% (1)	KAFJ253L56	KAFJ253L80	KAFJ253L160		
FILTER CHAMBER FOR BOTTOM SUCTION	KAJ25L56D	KAJ25L80D	KAJ25L160D		
FILTER CHAMBER FOR REAR SUCTION	KAJ25L56B	KAJ25L80B	KAJ25L160B		
AIR SUCTION CANVAS	KSA-25K56	KSA-25KA80	KSA-25K160		
SCREENING DOOR / BLIND BOARD	KBBJ25K56	KBBJ25K80	KBBJ25K160		
AIR DISCHARGE ADAPTER FOR ROUND DUCT	KDAJ25K56	KDAJ25K71	KDAJ25K140		

3TW25689-1E

NOTES

1 If installing a high efficiency filter in the unit, an assembly chamber for either bottom or rear suction is required.

6 Capacity tables

6 - 1 Cooling capacity tables

FMDQ-A

Unit size	Out door	Indoor air temp.													
		14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
		20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
	°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
50	10.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	6.0	3.6	6.6	3.9
	12.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	6.0	3.6	6.5	3.9
	14.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	6.0	3.6	6.4	3.9
	16.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	6.0	3.6	6.3	3.8
	18.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	6.0	3.6	6.2	3.8
	20.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	6.0	3.6	6.1	3.8
	21.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	6.0	3.6	6.1	3.8
	23.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	5.9	3.6	6.0	3.7
	25.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	5.8	3.5	5.9	3.7
	27.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	5.7	3.5	5.9	3.6
	29.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	5.6	3.5	5.8	3.6
	31.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	5.6	3.4	5.7	3.6
	33.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	5.5	3.4	5.6	3.5
	35.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.3	3.9	5.4	3.4	5.5	3.5
	37.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.2	3.8	5.3	3.3	5.4	3.5
	39.0	3.4	2.8	4.0	3.3	4.7	3.5	5.0	3.6	5.1	3.8	5.2	3.3	5.3	3.4
60	10.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	7.2	4.7	7.9	4.8
	12.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	7.2	4.7	7.8	4.7
	14.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	7.2	4.7	7.7	4.6
	16.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	7.2	4.7	7.6	4.6
	18.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	7.2	4.7	7.5	4.5
	20.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	7.2	4.7	7.4	4.5
	21.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	7.2	4.7	7.3	4.4
	23.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	7.1	4.7	7.2	4.4
	25.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	7.0	4.6	7.1	4.3
	27.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	6.9	4.5	7.0	4.3
	29.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	6.8	4.5	6.9	4.3
	31.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	6.7	4.5	6.8	4.2
	33.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.4	4.6	6.6	4.4	6.7	4.2
	35.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.3	4.6	6.5	4.4	6.6	4.2
	37.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.2	4.6	6.4	4.4	6.5	4.2
	39.0	4.1	3.5	4.8	4.0	5.6	4.1	6.0	4.4	6.1	4.5	6.3	4.3	6.4	4.1
71	10.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.5	5.4	9.3	5.4
	12.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.5	5.4	9.2	5.4
	14.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.5	5.4	9.1	5.3
	16.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.5	5.4	9.0	5.2
	18.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.5	5.4	8.9	5.1
	20.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.5	5.4	8.7	5.0
	21.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.5	5.4	8.7	5.0
	23.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.4	5.3	8.5	5.0
	25.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.3	5.2	8.4	4.9
	27.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.1	5.1	8.3	4.9
	29.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	8.0	5.2	8.2	4.8
	31.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	7.9	5.0	8.1	4.8
	33.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.6	5.2	7.8	5.0	7.9	4.8
	35.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.5	5.2	7.7	5.0	7.8	4.7
	37.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.4	5.1	7.5	4.9	7.7	4.8
	39.0	4.8	3.9	5.7	4.5	6.6	4.8	7.1	5.0	7.2	5.1	7.4	4.9	7.6	4.7
100	10.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	12.0	7.6	13.1	7.6
	12.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	12.0	7.6	13.0	7.5
	14.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	12.0	7.6	12.8	7.4
	16.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	12.0	7.6	12.6	7.3
	18.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	12.0	7.6	12.5	7.2
	20.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	12.0	7.6	12.3	7.1
	21.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	12.0	7.6	12.2	7.1
	23.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	11.8	7.5	12.0	7.0
	25.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	11.6	7.4	11.9	6.9
	27.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	11.5	7.3	11.7	6.9
	29.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	11.3	7.2	11.5	6.8
	31.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	11.1	7.1	11.4	6.7
	33.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.6	7.4	10.9	7.0	11.2	6.7
	35.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.5	7.3	10.8	7.0	11.0	6.7
	37.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.0	10.4	7.3	10.6	6.9	10.9	6.6
	39.0	6.8	5.6	8.0	6.4	9.4	6.8	10.0	7.1	10.2	7.2	10.4	6.9	10.7	6.6
125	10.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	15.0	9.6	16.4	9.8
	12.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	15.0	9.6	16.2	9.7
	14.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	15.0	9.6	16.0	9.6
	16.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	15.0	9.6	15.8	9.5
	18.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	15.0	9.6	15.6	9.3
	20.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	15.0	9.6	15.4	9.2
	21.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	15.0	9.6	15.3	9.1
	23.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	14.7	9.4	15.0	9.0
	25.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	14.6	9.3	14.8	8.9
	27.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	14.3	9.2	14.6	8.8
	29.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	14.1	9.1	14.4	8.7
	31.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	13.9	9.0	14.2	8.6
	33.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.3	9.2	13.7	8.9	14.0	8.5
	35.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	13.2	9.1	13.5	8.8	13.8	8.4
	37.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	12.9	9.0	13.3	8.7	13.6	8.3
	39.0	8.4	7.0	10.0	8.0	11.7	8.6	12.5	8.9	12.7	8.9	13.0	8.5	13.3	8.2

3TW31412-1

6 Capacity tables

6 - 2 Heating capacity tables

FMDQ-A

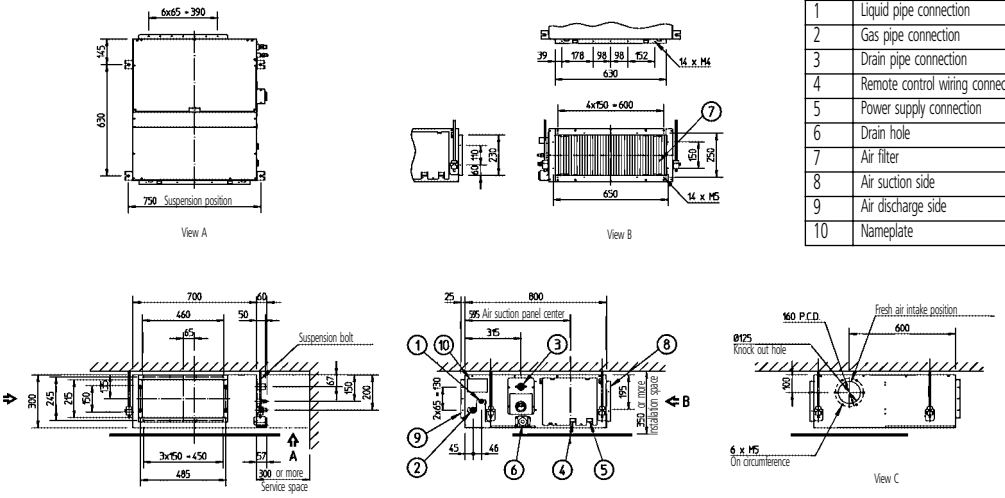
Unit size	Outdoor air temp		Indoor air temp. °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CDB	KW	KW	KW	KW	KW	KW
50	-19.8	-20.0	3.3	3.3	3.3	3.3	3.3	3.3
	-18.8	-19.0	3.4	3.4	3.4	3.4	3.4	3.4
	-16.7	-17.0	3.6	3.6	3.6	3.6	3.6	3.6
	-14.7	-15.0	3.8	3.8	3.8	3.8	3.8	3.8
	-12.6	-13.0	4.0	4.0	4.0	4.0	4.0	4.0
	-10.5	-11.0	4.2	4.2	4.2	4.2	4.2	4.2
	-9.5	-10.0	4.3	4.3	4.3	4.3	4.3	4.3
	-8.5	-9.1	4.4	4.4	4.4	4.4	4.4	4.3
	-7.0	-7.6	4.5	4.5	4.5	4.5	4.5	4.5
	-5.0	-5.6	4.7	4.7	4.7	4.7	4.7	4.7
	-3.0	-3.7	4.9	4.9	4.9	4.9	4.9	4.9
	0.0	-0.7	5.2	5.2	5.2	5.2	5.2	4.9
	3.0	2.2	5.5	5.5	5.5	5.4	5.2	4.9
	5.0	4.1	5.7	5.7	5.6	5.4	5.2	4.9
	7.0	6.0	5.9	5.9	5.6	5.4	5.2	4.9
	9.0	7.9	6.1	6.0	5.6	5.4	5.2	4.9
	11.0	9.8	6.3	6.0	5.6	5.4	5.2	4.9
	13.0	11.8	6.3	6.0	5.6	5.4	5.2	4.9
	15.0	13.7	6.3	6.0	5.6	5.4	5.2	4.9
60	-19.8	-20.0	4.0	3.9	3.9	3.9	3.9	3.9
	-18.8	-19.0	4.1	4.1	4.1	4.0	4.0	4.0
	-16.7	-17.0	4.3	4.3	4.3	4.3	4.3	4.3
	-14.7	-15.0	4.5	4.5	4.5	4.5	4.5	4.5
	-12.6	-13.0	4.8	4.8	4.8	4.8	4.8	4.7
	-10.5	-11.0	5.0	5.0	5.0	5.0	5.0	5.0
	-9.5	-10.0	5.1	5.1	5.1	5.1	5.1	5.1
	-8.5	-9.1	5.2	5.2	5.2	5.2	5.2	5.2
	-7.0	-7.6	5.4	5.4	5.4	5.4	5.4	5.4
	-5.0	-5.6	5.7	5.7	5.6	5.6	5.6	5.6
	-3.0	-3.7	5.9	5.9	5.9	5.9	5.9	5.8
	0.0	-0.7	6.2	6.2	6.2	6.2	6.2	5.8
	3.0	2.2	6.6	6.6	6.6	6.5	6.3	5.8
	5.0	4.1	6.8	6.8	6.7	6.5	6.3	5.8
	7.0	6.0	7.0	7.0	6.7	6.5	6.3	5.8
	9.0	7.9	7.3	7.1	6.7	6.5	6.3	5.8
	11.0	9.8	7.5	7.1	6.7	6.5	6.3	5.8
	13.0	11.8	7.6	7.1	6.7	6.5	6.3	5.8
	15.0	13.7	7.6	7.1	6.7	6.5	6.3	5.8
71	-19.8	-20.0	4.7	4.7	4.7	4.7	4.7	4.7
	-18.8	-19.0	4.9	4.9	4.8	4.8	4.8	4.8
	-16.7	-17.0	5.1	5.1	5.1	5.1	5.1	5.1
	-14.7	-15.0	5.4	5.4	5.4	5.4	5.4	5.4
	-12.6	-13.0	5.7	5.7	5.7	5.7	5.7	5.7
	-10.5	-11.0	6.0	6.0	6.0	6.0	6.0	5.9
	-9.5	-10.0	6.1	6.1	6.1	6.1	6.1	6.1
	-8.5	-9.1	6.3	6.3	6.2	6.2	6.2	6.2
	-7.0	-7.6	6.5	6.5	6.4	6.4	6.4	6.4
	-5.0	-5.6	6.8	6.7	6.7	6.7	6.7	6.7
	-3.0	-3.7	7.0	7.0	7.0	7.0	7.0	7.0
	0.0	-0.7	7.5	7.4	7.4	7.4	7.4	7.0
	3.0	2.2	7.9	7.8	7.8	7.7	7.5	7.0
	5.0	4.1	8.1	8.1	8.0	7.7	7.5	7.0
	7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0
	9.0	7.9	8.7	8.5	8.0	7.7	7.5	7.0
	11.0	9.8	8.9	8.5	8.0	7.7	7.5	7.0
	13.0	11.8	9.0	8.5	8.0	7.7	7.5	7.0
	15.0	13.7	9.0	8.5	8.0	7.7	7.5	7.0
100	-19.8	-20.0	6.6	6.6	6.6	6.6	6.6	6.5
	-18.8	-19.0	6.8	6.8	6.8	6.8	6.8	6.7
	-16.7	-17.0	7.2	7.2	7.2	7.2	7.1	7.1
	-14.7	-15.0	7.6	7.6	7.6	7.6	7.5	7.5
	-12.6	-13.0	8.0	8.0	8.0	8.0	7.9	7.9
	-10.5	-11.0	8.4	8.4	8.4	8.3	8.3	8.3
	-9.5	-10.0	8.6	8.6	8.6	8.5	8.5	8.5
	-8.5	-9.1	8.8	8.8	8.7	8.7	8.7	8.7
	-7.0	-7.6	9.1	9.0	9.0	9.0	9.0	9.0
	-5.0	-5.6	9.5	9.4	9.4	9.4	9.4	9.4
	-3.0	-3.7	9.8	9.8	9.8	9.8	9.8	9.8
	0.0	-0.7	10.4	10.4	10.4	10.4	10.4	9.8
	3.0	2.2	11.0	11.0	11.0	10.8	10.5	9.8
	5.0	4.1	11.4	11.4	11.2	10.8	10.5	9.8
	7.0	6.0	11.8	11.7	11.2	10.8	10.5	9.8
	9.0	7.9	12.1	11.9	11.2	10.8	10.5	9.8
	11.0	9.8	12.5	11.9	11.2	10.8	10.5	9.8
	13.0	11.8	12.6	11.9	11.2	10.8	10.5	9.8
	15.0	13.7	12.6	11.9	11.2	10.8	10.5	9.8
125	-19.8	-20.0	8.3	8.2	8.2	8.2	8.2	8.2
	-18.8	-19.0	8.5	8.5	8.5	8.5	8.4	8.4
	-16.7	-17.0	9.0	9.0	9.0	8.9	8.9	8.9
	-14.7	-15.0	9.5	9.5	9.5	9.4	9.4	9.4
	-12.6	-13.0	10.0	10.0	10.0	9.9	9.9	9.9
	-10.5	-11.0	10.5	10.5	10.4	10.4	10.4	10.4
	-9.5	-10.0	10.7	10.7	10.7	10.7	10.7	10.6
	-8.5	-9.1	11.0	10.9	10.9	10.9	10.9	10.9
	-7.0	-7.6	11.3	11.3	11.3	11.3	11.3	11.2
	-5.0	-5.6	11.8	11.8	11.8	11.8	11.8	11.7
	-3.0	-3.7	12.3	12.3	12.3	12.2	12.2	12.2
	0.0	-0.7	13.0	13.0	13.0	13.0	13.0	12.2
	3.0	2.2	13.8	13.7	13.7	13.6	13.1	12.2
	5.0	4.1	14.2	14.2	14.0	13.6	13.1	12.2
	7.0	6.0	14.7	14.7	14.0	13.6	13.1	12.2
	9.0	7.9	15.2	14.9	14.0	13.6	13.1	12.2
	11.0	9.8	15.6	14.9	14.0	13.6	13.1	12.2
	13.0	11.8	15.8	14.9	14.0	13.6	13.1	12.2
	15.0	13.7	15.8	14.9	14.0	13.6	13.1	12.2

3TW31362-2

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

FMDQ50A



Nr.	Name	Description
1	Liquid pipe connection	ø6.4 flare connection
2	Gas pipe connection	ø12.7 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

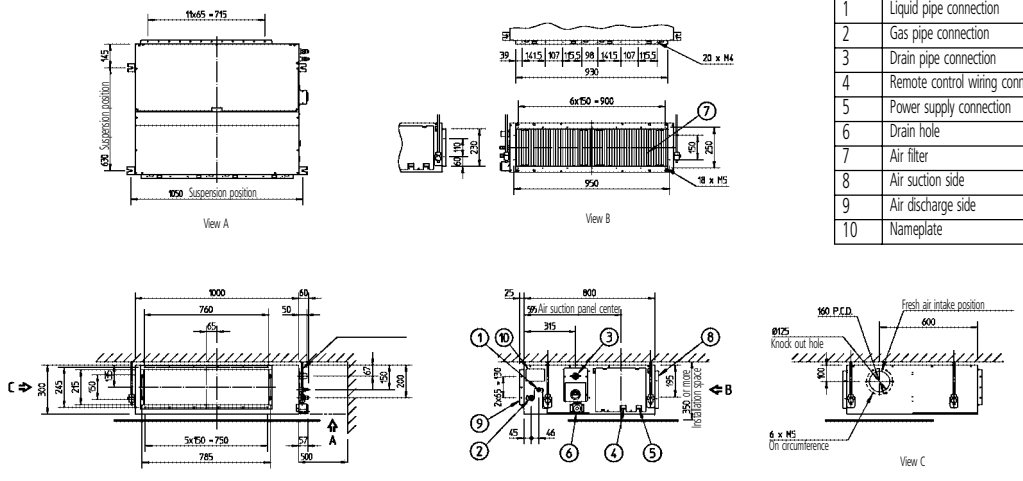
1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 The required ceiling depth varies according to the configuration of the specific system.

3 For maintenance of the air filter it is necessary to provide a service access panel according to the installation method.
(Refer to the 'filter installation method' drawing).

3TW25714-1

FMDQ60A



Nr.	Name	Description
1	Liquid pipe connection	ø9.5 flare connection
2	Gas pipe connection	ø15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 The required ceiling depth varies according to the configuration of the specific system.

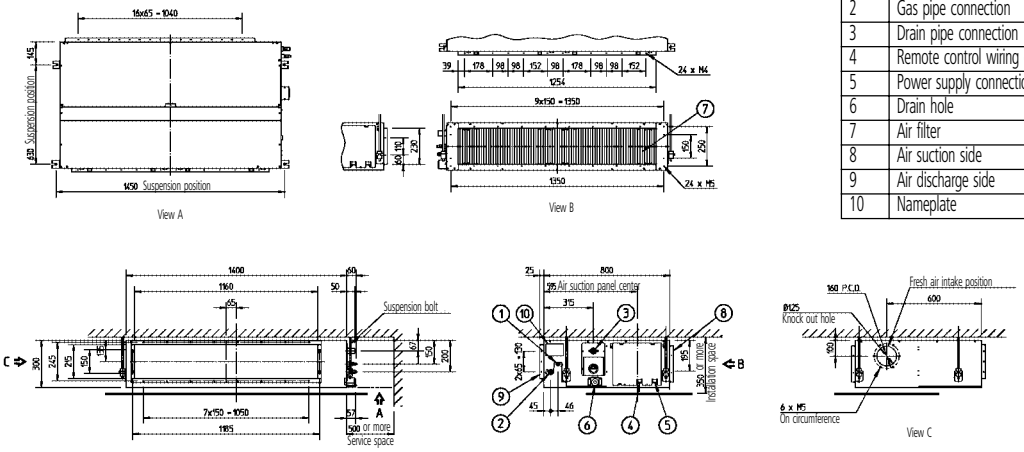
3 For maintenance of the air filter it is necessary to provide a service access panel according to the installation method.
(Refer to the 'filter installation method' drawing).

3TW25734-1

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

FMDQ71-125A



Nr.	Name	Description
1	Liquid pipe connection	ø9.5 flare connection
2	Gas pipe connection	ø15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

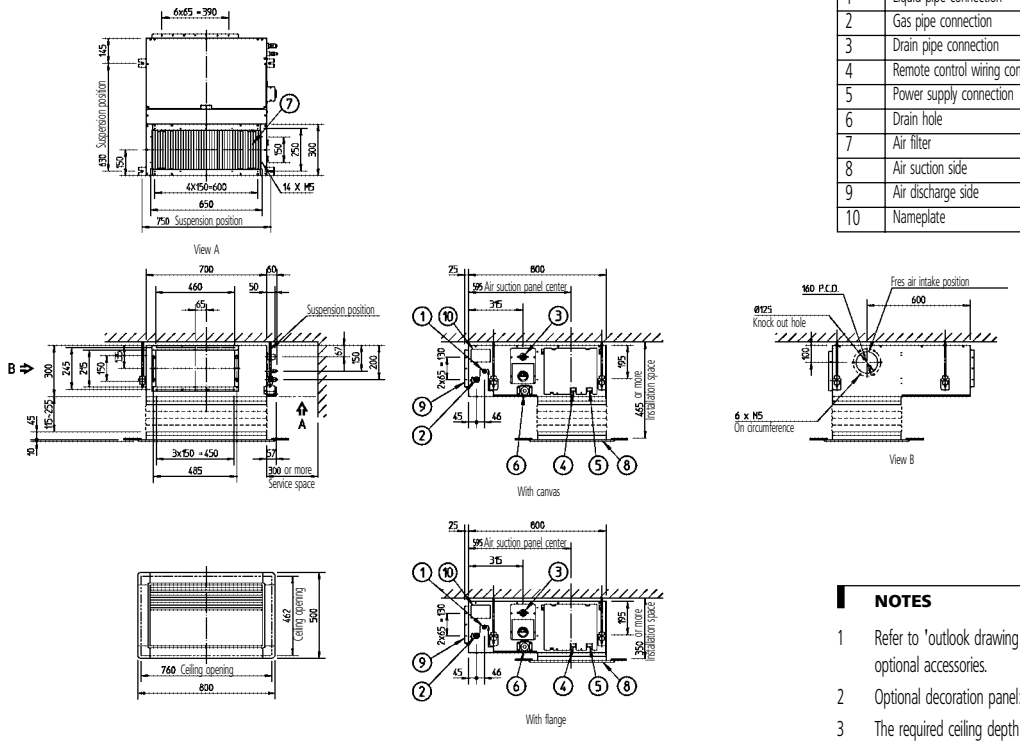
1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 The required ceiling depth varies according to the configuration of the specific system.

3 For maintenance of the air filter it is necessary to provide a service access panel according to the installation method.
Refer to the 'filter installation method' drawing).

3TW25744-1

FMDQ50A



Nr.	Name	Description
1	Liquid pipe connection	ø6.4 flare connection
2	Gas pipe connection	ø12.7 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 Optional decoration panel: BYBS45DJW1 (light ivory white 10Y9/0.5).

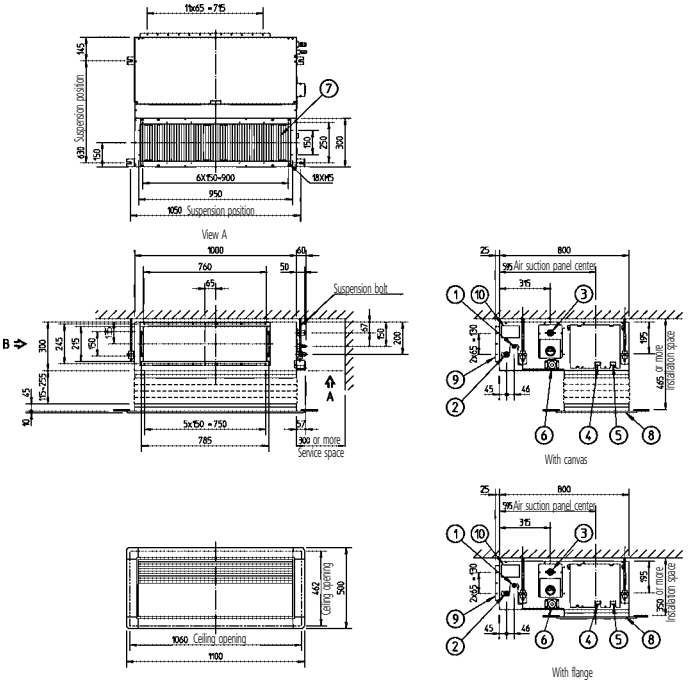
3 The required ceiling depth varies according to the configuration of specific system.

3TW25714-2

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

FMDQ60A



Nr.	Name	Description
1	Liquid pipe connection	ø9.5 flare connection
2	Gas pipe connection	ø15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

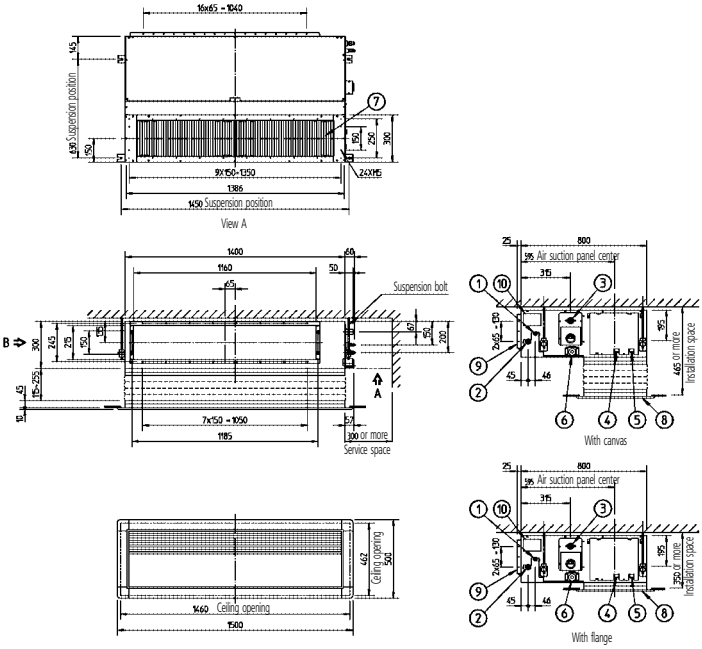
1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 Optional decoration panel: BYBS71DJW1 (light ivory white 10Y9/0.5).

3 The required ceiling depth varies according to the configuration of specific system.

3TW25734-2

FMDQ71-125A



Nr.	Name	Description
1	Liquid pipe connection	ø9.5 flare connection
2	Gas pipe connection	ø15.9 flare connection
3	Drain pipe connection	VP25 (O.D. ø32, I.D. ø25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (O.D. ø32, I.D. ø25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTES

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

2 Optional decoration panel: BYBS125JW1 (light ivory white 10Y9/0.5).

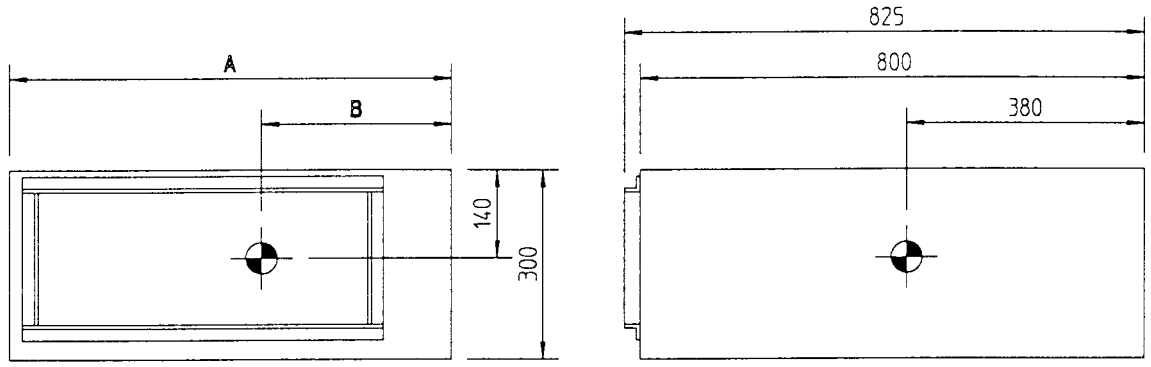
3 The required ceiling depth varies according to the configuration of specific system.

3TW25744-2

7 Dimensional drawing & centre of gravity

7 - 2 Centre of gravity

FMDQ50-125A

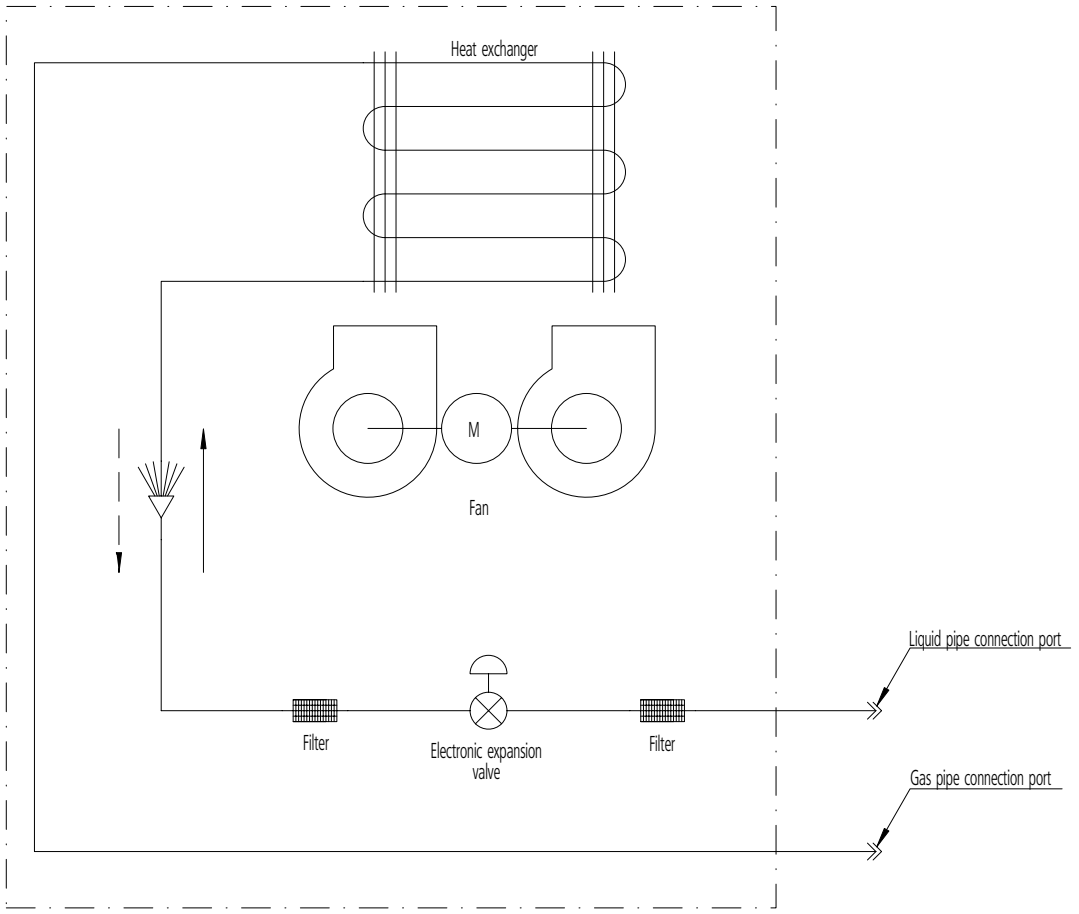


Model	A	B
FMDQ50A7	700	300
FMDQ60A7	1,000	460
FMDQ71-125A7	1,400	640

4TW25689-2

8 Piping diagram

FMDQ50-125A



Refrigerant flow

Cooling
Heating

Piping connection diameters

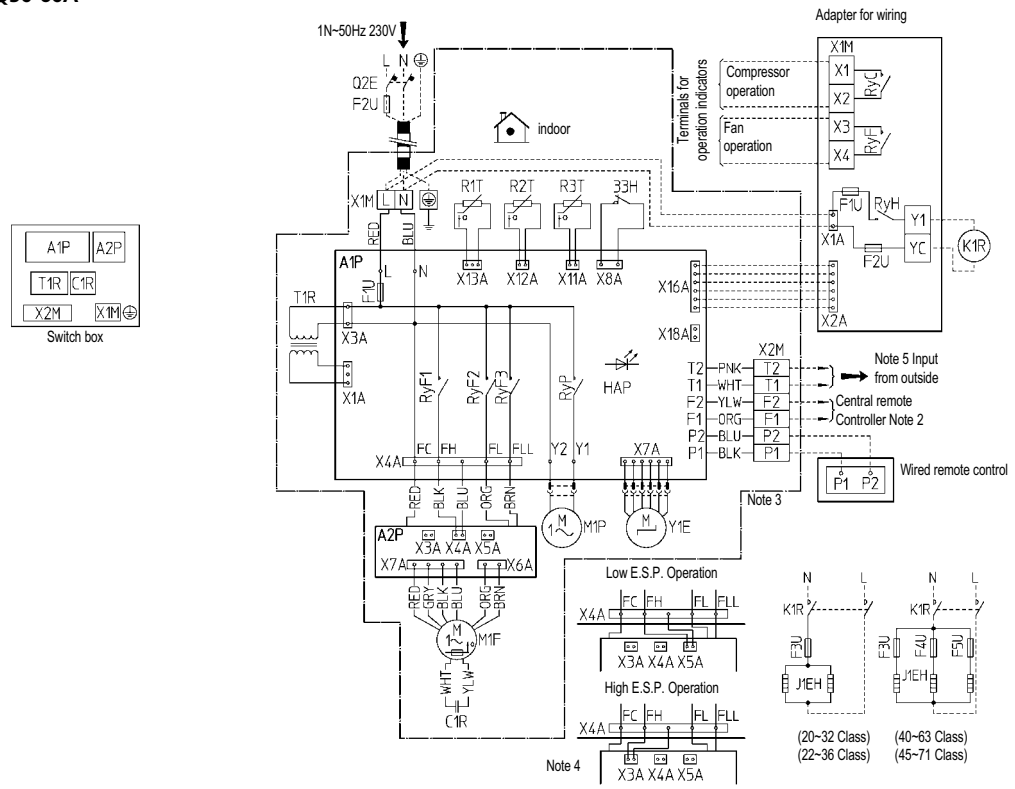
Models	Gas	Liquid
FMDQ50A7	ø12.7	ø6.35
FMDQ60,71,100,125A7	ø15.9	ø9.5

3TW25515-1

9 Wiring diagram

9 - 1 Wiring diagram

FMDQ50-60A



33H	Float switch	R2T,R3T	Thermistor (Refritgerant)	K1R	Magnetic Relay (J1EH)
A1P	Printed circuit board	RyF1-3	Magnetic relay (M1F)		Adapter for wiring
A2P	Terminal board	RyP	Magnetic relay (Drain pump)	RyC,RyF	Magnetic relay
C1R	Capacitor (M1F)	Q2E	Earth leak detector	RyH	Magnetic relay (J1EH)
F1U	Fuse (250V, 5A)	RyA	Magnetic relay (M1S)	F1U, F2U	Fuse (250V, 5A)
F2U	Field fuse	T1R	Transformer (220-240V/22V)	X1A,X2A	Connector (Wiring adapter)
HAP	Light emitting diode (Service monitor-green)	X1M	Terminal strip (Power)	X1M	Terminal strip
		X2M	Terminal strip (Control)		Connector for optional parts
M1F	Motor (Fan)	Y1E	Electronic expansion valve	X16A	Connector (Wiring adapter)
M1P	Motor (Drain pump)		Optional parts	X18A	Connector (Wiring adapter for electrical appendices)
Q2E	Earth leak detector	F3-5U	Fuse (250V, 16A)		
R1T	Thermistor (Air)	J1EH	Electric heater		

: Field wiring
L : Live
N : Neutral
: Connector
: Wire clamp
: Protective earth (screw)

Colors: BLK: Black, BLU: Blue, BRN: Brown, ORG: Orange, PNK: Pink, RED: Red, WHT: White, YLW: Yellow

2TW23686-1C

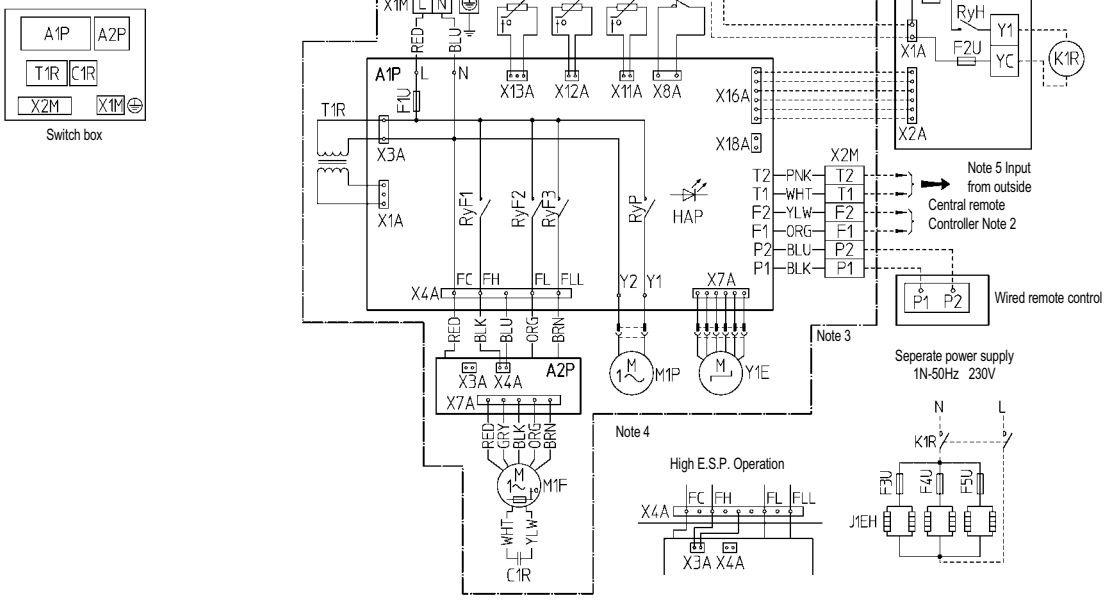
NOTES

1 Use copper conductors only.
2 When using the central remote control, see manual for connection to the unit.
3 When installing the electric heater, change the wiring for the heater circuit. The main powersupply has to be supplied independently.
4 For high or low E.S.P. operation, change the wiring connection of X4A as shown on the wiring diagram.
5 When connecting the input wires from outside, “forced off” or on/off” operation can be selected by remote controller. See installation manual for more details.

9 Wiring diagram

9 - 1 Wiring diagram

FMDQ71-125A



33H	Float switch	R2T,R3T	Thermistor (Refritgerant)	K1R	Magnetic Relay (J1EH)
A1P	Printed circuit board	RyF1-3	Magnetic relay (M1F)	Adapter for wiring	
A2P	Terminal board	RyP	Magnetic relay (M1P)	RyC, RyF	Magnetic relay
C1R	Capacitor (M1F)	Q2E	Earth leak detector	RyH	Magnetic relay (J1EH)
F1U	Fuse (250V, 5A)	RyA	Magnetic relay (M1S)	F1U, F2U	Fuse (250V, 5A)
F2U	Field fuse	T1R	Transformer (220-240V/22V)	X1A, X2A	Connector (Wiring adaptor)
HAP	Light emitting diode (Service monitor-green)	X1M	Terminal strip (Power)	X1M	Terminal strip
		X2M	Terminal strip (Control)	Connector for optional parts	
M1F	Motor (Fan)	Y1E	Electronic expansion valve	X16A	Connector (Wiring adaptor)
M1P	Motor (Drain pump)	Optional parts		X18A	Connector (Wiring adapter for electrical appendices)
Q2E	Earth leak detector	F3-5U	Fuse (250V, 16A)		
R1T	Thermistor (Air)	J1EH	Electric heater		

: Field wiring
L : Live
N : Neutral
: Connector
: Wire clamp
: Protective earth (screw)

Colors: BLK: Black, BLU: Blue, BRN: Brown, ORG: Orange, PNK: Pink, RED: Red, WHT: White, YLW: Yellow

2TW23736-1C

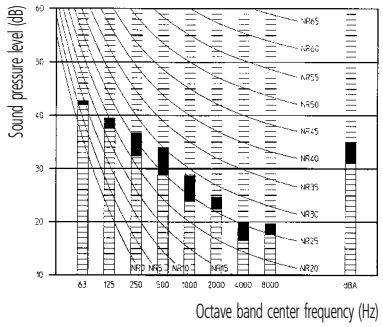
NOTES

1 Use copper conductors only.
2 When using the central remote control, see manual for connection to the unit.
3 When installing the electric heater, change the wiring for the heater circuit. The main powersupply has to be supplied independently.
4 For high or low E.S.P. operation, change the wiring connection of X4A as shown on the wiring diagram.
5 When connecting the input wires from outside, “forced off” or on/off” operation can be selected by remote controller. See installation manual for more details.

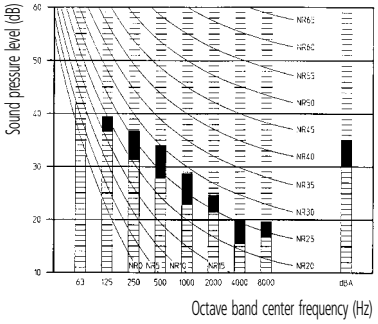
10 Sound data

10 - 1 Sound pressure spectrum

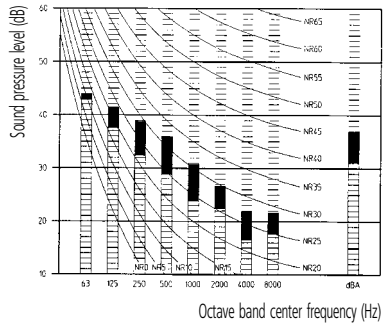
FMDQ50A 3TW22457-1



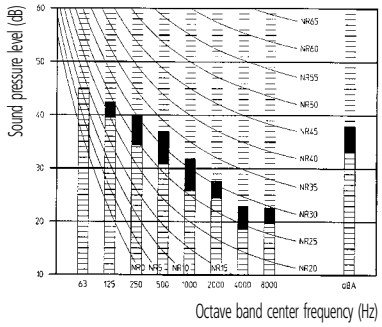
FMDQ60A 3TW22467-1



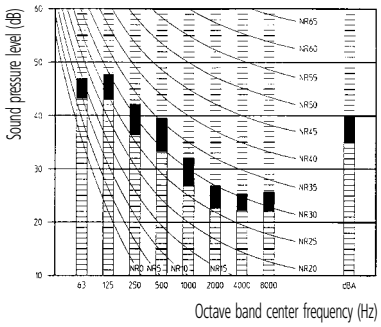
FMDQ71A 3TW22477-1



FMDQ100A 3TW22487-1

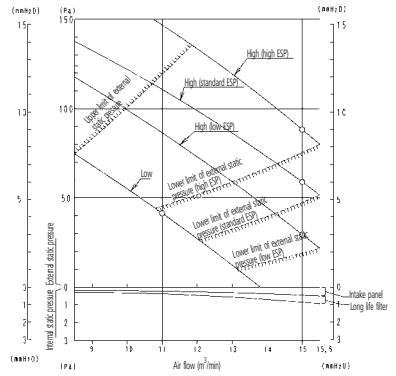


FMDQ125A 3TW22497-1



11 Fan characteristics

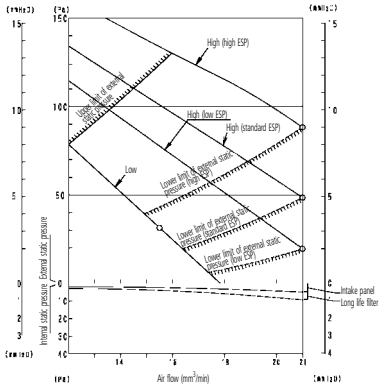
FMDQ50A 3D036962



NOTES

1 The remote control can be used to switch between "high" and "low".
2 The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the terminals in the indoor unit electrical box.
3 The internal static pressure indicates the characteristics of the fan when a suction panel (optional accessory) and a canvas for the suction panel (optional accessories) are incorporated into the main unit (with a long-life filter)

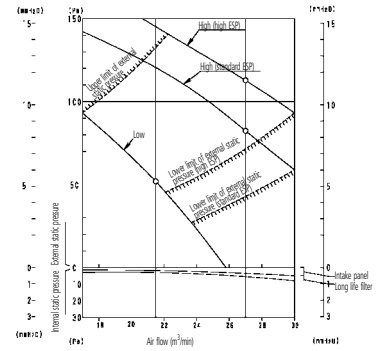
FMDQ60A 3D036963



NOTES

1 The remote control can be used to switch between "high" and "low".
2 The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the terminals in the indoor unit electrical box.
3 The internal static pressure indicates the characteristics of the fan when a suction panel (optional accessory) and a canvas for the suction panel (optional accessories) are incorporated into the main unit (with a long-life filter)

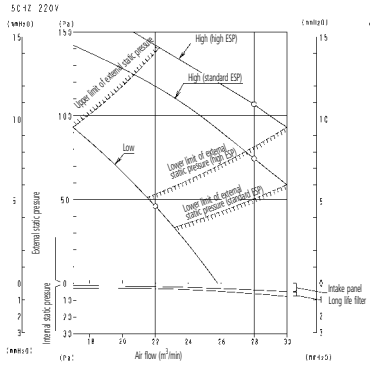
FMDQ71A 3D036964



NOTES

1 The remote control can be used to switch between "high" and "low".
2 The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the terminals in the indoor unit electrical box.
3 The internal static pressure indicates the characteristics of the fan when a suction panel (optional accessory) and a canvas for the suction panel (optional accessories) are incorporated into the main unit (with a long-life filter)

FMDQ100A 3D036965

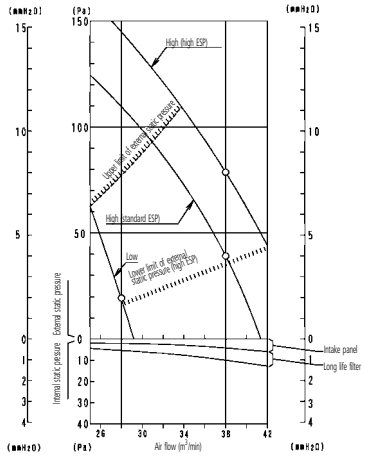


NOTES

1 The remote control can be used to switch between "high" and "low".
2 The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the terminals in the indoor unit electrical box.
3 The internal static pressure indicates the characteristics of the fan when a suction panel (optional accessory) and a canvas for the suction panel (optional accessories) are incorporated into the main unit (with a long-life filter)

11 Fan characteristics

FMDQ125A 3D036966



NOTES

1 The remote control can be used to switch between “high” and “low”.

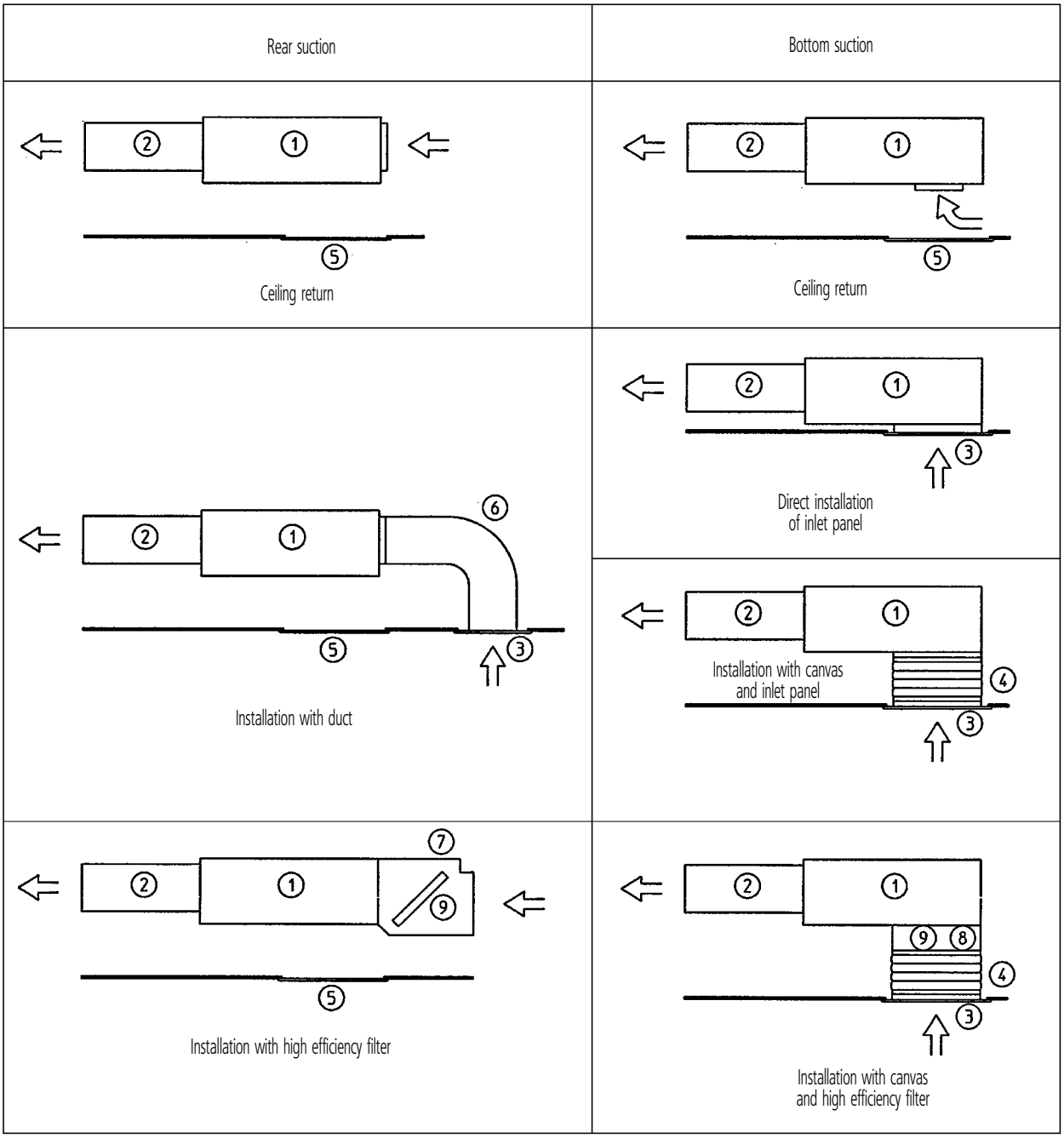
2 The air flow is set to “standard” before leaving the factory. It is possible to switch between “standard ESP” and “high ESP” by changing the terminals in the indoor unit electrical box.

3 The internal static pressure indicates the characteristics of the fan when a suction panel (optional accessory) and a canvas for the suction panel (optional accessories) are incorporated into the main unit (with a long-life filter)

12 Installation

12 - 1 Installation method

FMDQ50-125A



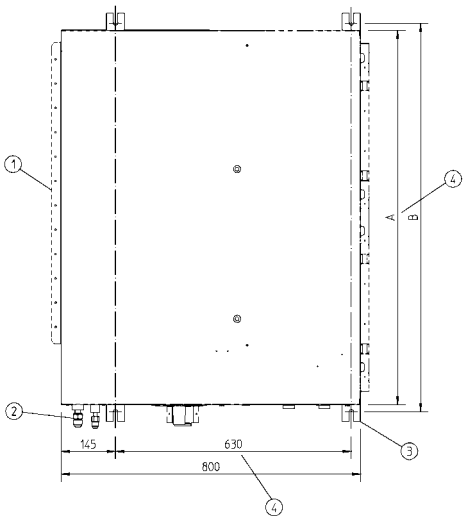
Nr.	Name	Description
1	Main body	
2	Air outlet duct	Field supply
3	Inlet panel	Optional accessory
4	Air suction canvas	Optional accessory
5	Access panel	Optional accessory
6	Air inlet duct	Field supply
7	Filter chamber for rear suction	Optional accessory
8	Filter chamber for bottom suction	Optional accessory
9	High efficiency filter	Optional accessory

3TW22043-4A

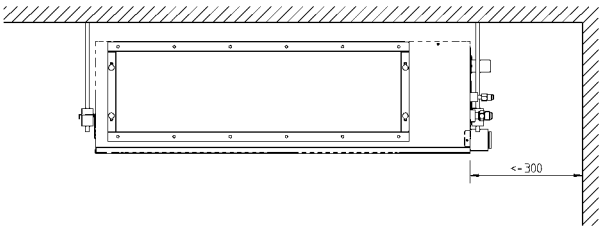
12 Installation

12 - 2 Filter installation method

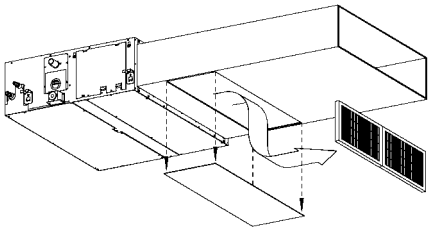
FMDQ50-125A



Suspension bolt pitch



Service space



Number	Description
1	Indoor unit
2	Pipe connections
3	Suspension bolt pitch (4x)
4	Suspension bolt pitch distance

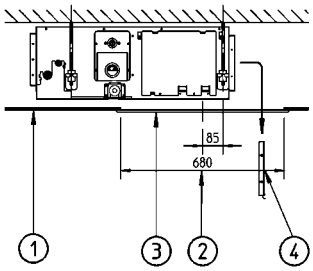
Unit	A	B
FMDQ50A7	700	750
FMDQ60A7	1000	1050
FMDQ71A7	1000	1050
FMDQ100,125A7	1400	1450

3TW22043-6D

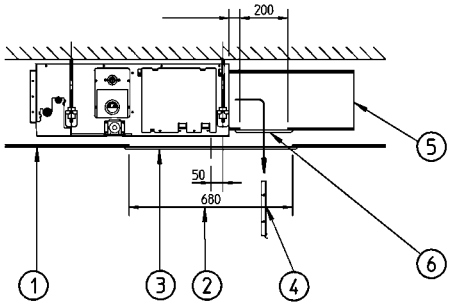
12 Installation

12 - 2 Filter installation method

FMDQ50-125A

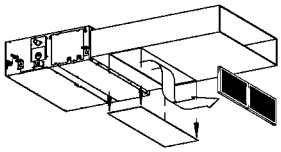


Installation without duct



Installation with duct

Number	Description
1	False ceiling
2	Ceiling opening
3	Service access panel (optional)
4	Air filter
5	Air inlet duct
6	Duct service opening



NOTES

1 When installing the unit with rear suction, a service opening is necessary for the maintenance of the air filters.

2 When installing the unit with a suction duct, a service opening must be provided in the duct.

3 An optional service access panel is available.

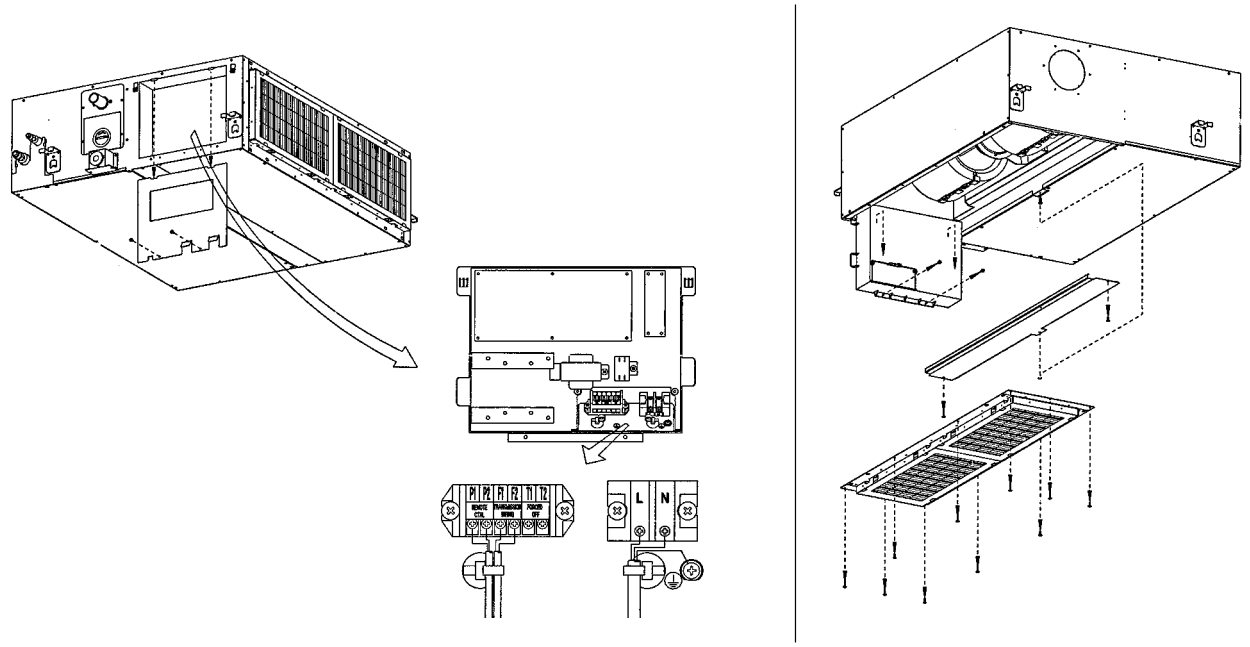
Model	Service access panel
FMDQ50A7	KTBJ25K56W
FMDQ60A7	KTBJ25K80W
FMDQ71-125A7	KTBJ25K160W

3TW25684-3

12 Installation

12 - 3 Switch box connection

FMDQ50-125A



3TW22043-5B

In all of us, a green heart

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intension to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

CE Daikin units comply with the European regulations that guarantee the safety of the product.

VRV® products are not within the scope of the Eurovent certification programme.

DAIKIN EUROPE N.V.

Naamloze Vennootschap
Zandvoordestraat 300
B-8400 Oostende, Belgium
www.daikin.eu
BTW: BE 0412 120 336
RPR Oostende

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