

FXAQ-AVM

Wall Mounted Type

60 Hz

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1. Lineup

Capacity range	2.2 kW	2.8 kW	3.6 kW	4.5 kW	5.6 kW	7.1 kW
	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP
Capacity index	20	25	31.25	40	50	62.5
FXAQ	20AVM	25AVM	32AVM	40AVM	50AVM	63AVM

VM : 1 phase, 220-240/220-230 V, 50/60 Hz



2. Specifications

Model				FXAQ20AVM		FXAQ25AVM	
Power supply				1 phase, 220-240/220-230 V, 50/60 Hz		1 phase, 220-240/220-230 V, 50/60 Hz	
★1 ★3 Cooling capacity			kcal/h	1,900		2,400	
			Btu/h	7,500		9,600	
			kW	2.2		2.8	
★2 ★3 Heating capacity			kcal/h	2,200		2,800	
			Btu/h	8,500		10,900	
			kW	2.5		3.2	
Power input	Cooling	50 Hz	kW	0.040		0.040	
		60 Hz	kW	0.040		0.040	
	Heating	50 Hz	kW	0.040		0.040	
		60 Hz	kW	0.040		0.040	
Casing / Colour				Resin / White N9.5		Resin / White N9.5	
Dimensions: (H×W×D)			mm	290×795×266		290×795×266	
Coil (Cross fin coil)	Rows × Stages × Fin pitch		mm	2×14×1.4 (φ6.35)		2×14×1.4 (φ6.35)	
	Face area		m ²	0.161 (0.103+0.058)		0.161 (0.103+0.058)	
Fan	Model			KFD-280-40-8N		KFD-280-40-8N	
	Type			Cross flow fan		Cross flow fan	
	Motor type			DC Fan Motor		DC Fan Motor	
	Motor output × Number of units		W	40×1		40×1	
			m³/min	9.1/7.0		9.4/7.0	
	Airflow rate (H/L)		l/s	152/117		157/117	
			cfm	321/247		332/247	
	Air filter				Washable resin net		Washable resin net
Piping Connections	Liquid pipes		mm	φ6.4 (Flare connection)		φ6.4 (Flare connection)	
	Gas pipes		mm	φ12.7 (Flare connection)		φ12.7 (Flare connection)	
	Drain pipe		mm	VP13 (External dia. 18, Internal dia. 15)		VP13 (External dia. 18, Internal dia. 15)	
Mass			kg	12.0		12.0	
★4 Sound pressure level (H/L)	Cooling		dB(A)	33.0/28.5		35.0/28.5	
	Heating		dB(A)	34.0/28.5		36.0/28.5	
Safety devices				Fuse		Fuse	
Refrigerant control				Electronic expansion valve		Electronic expansion valve	
Standard accessories				Operation manual, Installation manual, Installation panel, Paper pattern for installation, Insulation tape, Clamps, Screws		Operation manual, Installation manual, Installation panel, Paper pattern for installation, Insulation tape, Clamps, Screws	
Drawing No.	Specification			C: 3D121836A		C: 3D121836A	
	Sound level			C: 4D122383A		C: 4D122384A	

Notes:

- ★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.
- ★2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.
- ★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★4. Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Conversion formulae

kcal/h=kW×860
 Btu/h=kW×3412
 cfm=m³/min×35.3
 l/s=m³/min×1000/60

Model				FXAQ32AVM	FXAQ40AVM
Power supply				1 phase, 220-240/220-230 V, 50/60 Hz	1 phase, 220-240/220-230 V, 50/60 Hz
★1 ★3 Cooling capacity			kcal/h	3,100	3,900
			Btu/h	12,300	15,400
			kW	3.6	4.5
★2 ★3 Heating capacity			kcal/h	3,400	4,300
			Btu/h	13,600	17,100
			kW	4.0	5.0
Power input	Cooling	50 Hz	kW	0.040	0.050
		60 Hz	kW	0.040	0.050
	Heating	50 Hz	kW	0.050	0.050
		60 Hz	kW	0.050	0.050
Casing / Colour				Resin / White N9.5	Resin / White N9.5
Dimensions: (H×W×D)			mm	290×795×266	290×1,050×269
Coil (Cross fin coil)	Rows × Stages × Fin pitch		mm	2×14×1.4 (φ6.35)	2×14×1.4 (φ6.35)
	Face area		m²	0.161 (0.103+0.058)	0.235 (0.145+0.090)
Fan	Model			KFD-280-40-8N	ARW30WBP43DK
	Type			Cross flow fan	Cross flow fan
	Motor type			DC Fan Motor	DC Fan Motor
	Motor output × Number of units		W	40×1	43×1
	Airflow rate (H/L)		m³/min	9.8/7.0	12.2/9.7
			l/s	163/117	203/162
			cfm	346/247	431/342
Air filter				Washable resin net	Washable resin net
Piping Connections	Liquid pipes		mm	φ6.4 (Flare connection)	φ6.4 (Flare connection)
	Gas pipes		mm	φ12.7 (Flare connection)	φ12.7 (Flare connection)
	Drain pipe		mm	VP13 (External dia. 18, Internal dia. 15)	VP13 (External dia. 18, Internal dia. 15)
Mass			kg	12.0	15.0
★4 Sound pressure level (H/L)	Cooling		dB(A)	37.5/28.5	37.0/33.5
	Heating		dB(A)	38.5/28.5	38.0/33.5
Safety devices				Fuse	Fuse
Refrigerant control				Electronic expansion valve	Electronic expansion valve
Standard accessories				Operation manual, Installation manual, Installation panel, Paper pattern for installation, Insulation tape, Clamps, Screws	Operation manual, Installation manual, Installation panel, Paper pattern for installation, Insulation tape, Clamps, Screws
Drawing No.	Specification			C: 3D121836A	C: 3D121836A
	Sound level			C: 4D122385A	C: 4D122386A

Notes:

- ★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.
★2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★4. Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Conversion formulae
kcal/h=kW×860
Btu/h=kW×3412
cfm=m ³ /min×35.3
l/s=m ³ /min×1000/60

Model				FXAQ50AVM		FXAQ63AVM	
Power supply				1 phase, 220-240/220-230 V, 50/60 Hz		1 phase, 220-240/220-230 V, 50/60 Hz	
★1 ★3 Cooling capacity			kcal/h	4,800		6,100	
			Btu/h	19,100		24,200	
			kW	5.6		7.1	
★2 ★3 Heating capacity			kcal/h	5,400		6,900	
			Btu/h	21,500		27,300	
			kW	6.3		8.0	
Power input	Cooling	50 Hz	kW	0.060		0.100	
		60 Hz	kW	0.060		0.100	
	Heating	50 Hz	kW	0.070		0.110	
		60 Hz	kW	0.070		0.110	
Casing / Colour				Resin / White N9.5		Resin / White N9.5	
Dimensions: (H×W×D)			mm	290×1,050×269		290×1,050×269	
Coil (Cross fin coil)	Rows × Stages × Fin pitch		mm	2×14×1.4 (φ6.35)		2×14×1.4 (φ6.35)	
	Face area		m ²	0.235 (0.145+0.090)		0.235 (0.145+0.090)	
Fan	Model			ARW30WBP43DK		ARW30WBP43DK	
	Type			Cross flow fan		Cross flow fan	
	Motor type			DC Fan Motor		DC Fan Motor	
	Motor output × Number of units		W	43×1		43×1	
			m³/min	15.0/12.0		19.0/14.0	
	Airflow rate (H/L)		l/s	250/200		317/233	
			cfm	530/424		671/494	
	Air filter				Washable resin net		Washable resin net
Piping Connections	Liquid pipes		mm	φ6.4 (Flare connection)		φ9.5 (Flare connection)	
	Gas pipes		mm	φ12.7 (Flare connection)		φ15.9 (Flare connection)	
	Drain pipe		mm	VP13 (External dia. 18, Internal dia. 15)		VP13 (External dia. 18, Internal dia. 15)	
Mass			kg	15.0		15.0	
★4 Sound pressure level (H/L)	Cooling		dB(A)	41.0/35.5		46.5/38.5	
	Heating		dB(A)	42.0/35.5		47.0/38.5	
Safety devices				Fuse		Fuse	
Refrigerant control				Electronic expansion valve		Electronic expansion valve	
Standard accessories				Operation manual, Installation manual, Installation panel, Paper pattern for installation, Insulation tape, Clamps, Screws		Operation manual, Installation manual, Installation panel, Paper pattern for installation, Insulation tape, Clamps, Screws	
Drawing No.	Specification			C: 3D121836A		C: 3D121836A	
	Sound level			C: 4D122387A		C: 4D122388A	

Notes:

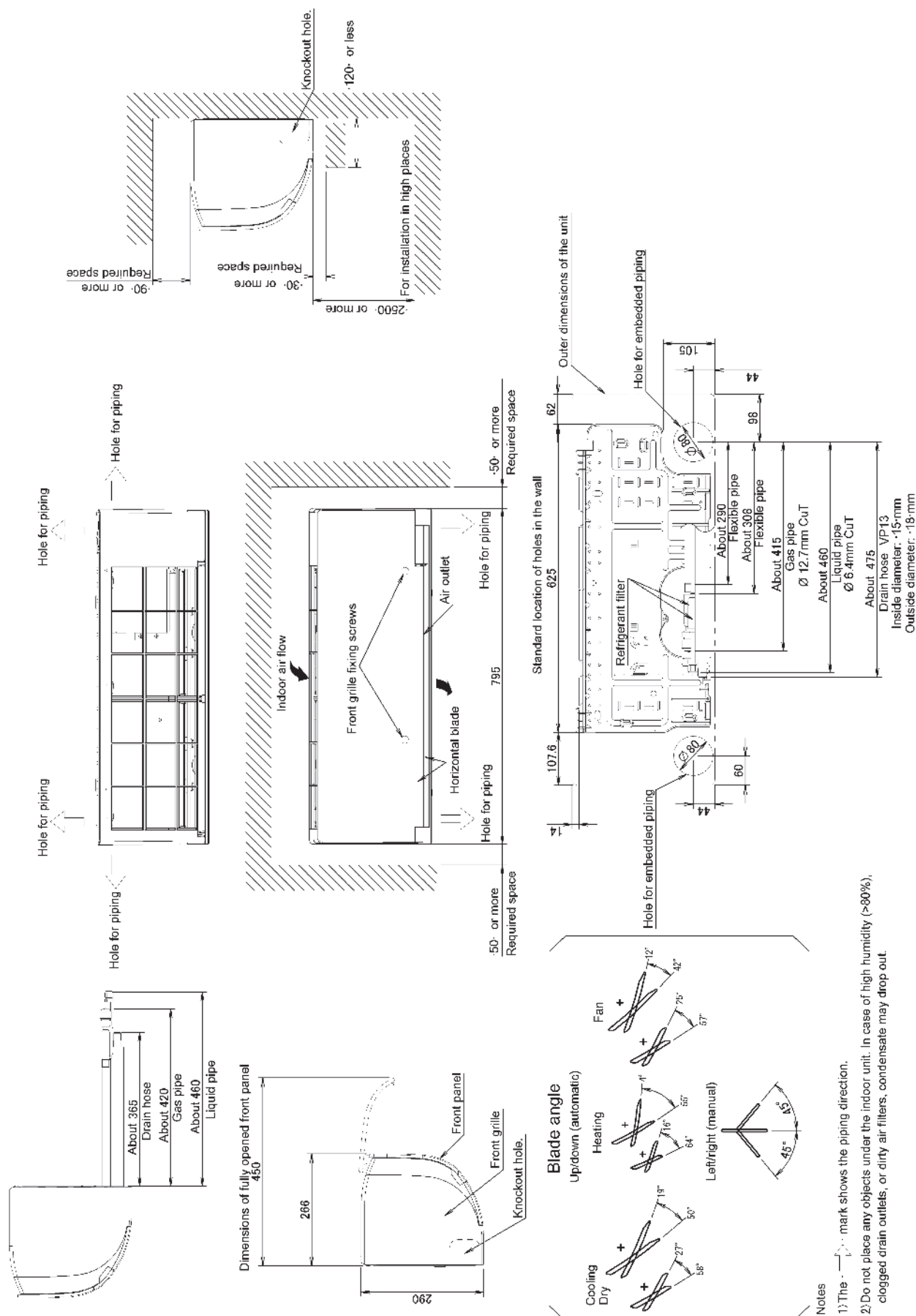
- ★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.
★2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
★4. Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Conversion formulae
kcal/h=kW×860
Btu/h=kW×3412
cfm=m ³ /min×35.3
l/s=m ³ /min×1000/60

3. Dimensions

FXAQ20AVM / FXAQ25AVM / FXAQ32AVM

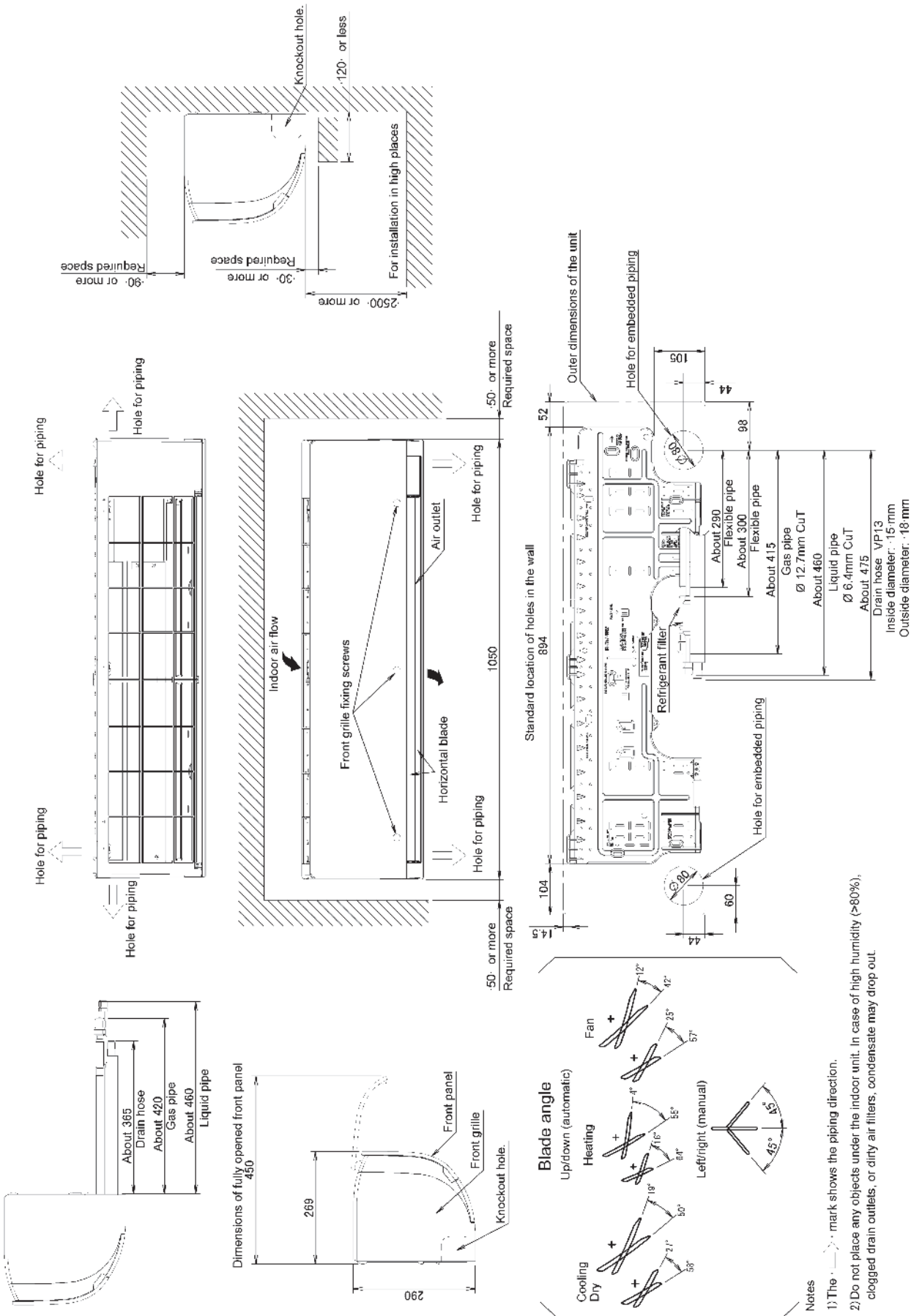
Unit: mm



3D122217

FXAQ40AVM / FXAQ50AVM

Unit: mm

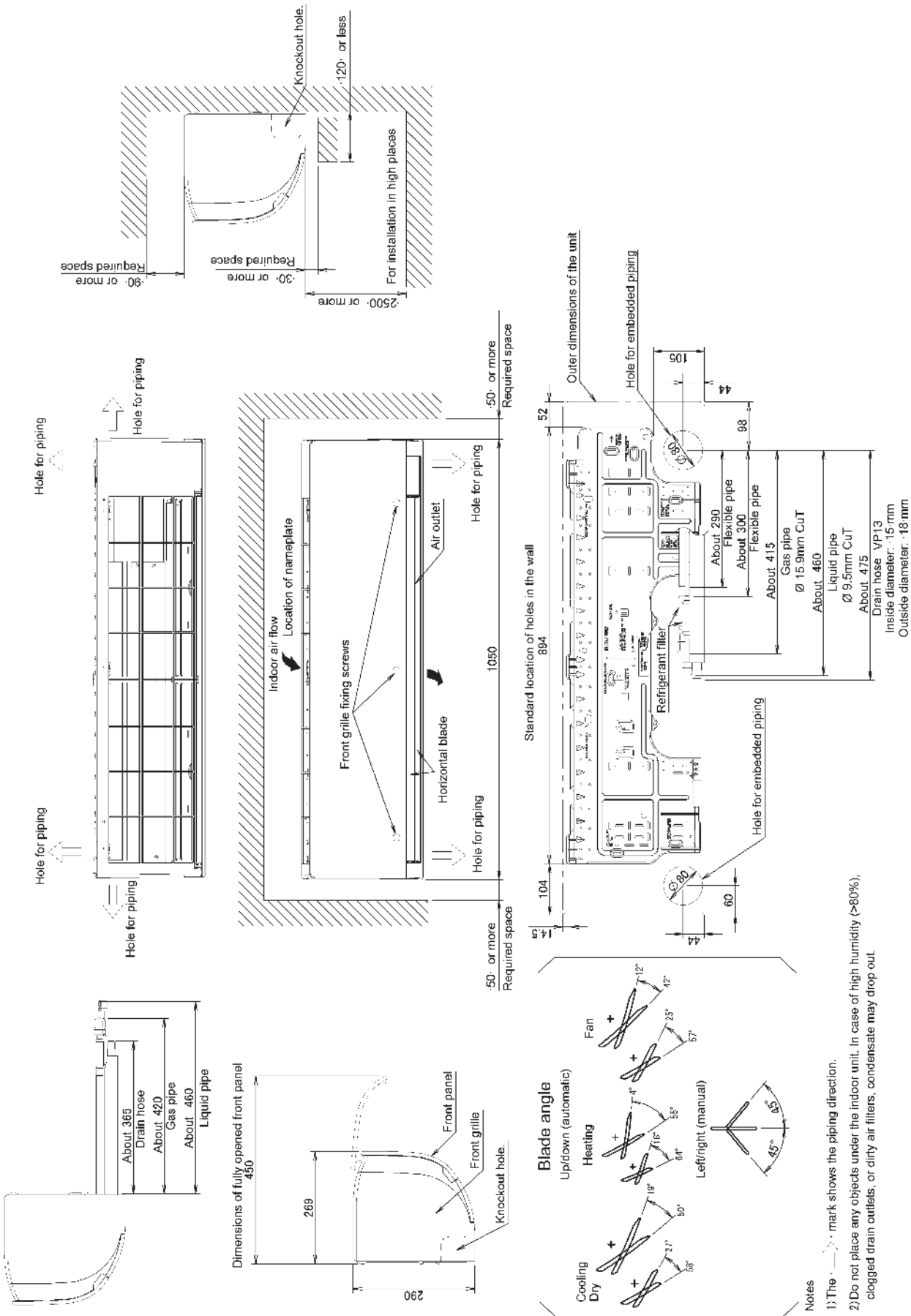


- Notes
- 1) The 'v' mark shows the piping direction.
 - 2) Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out.

3D122237

FXAQ63AVM

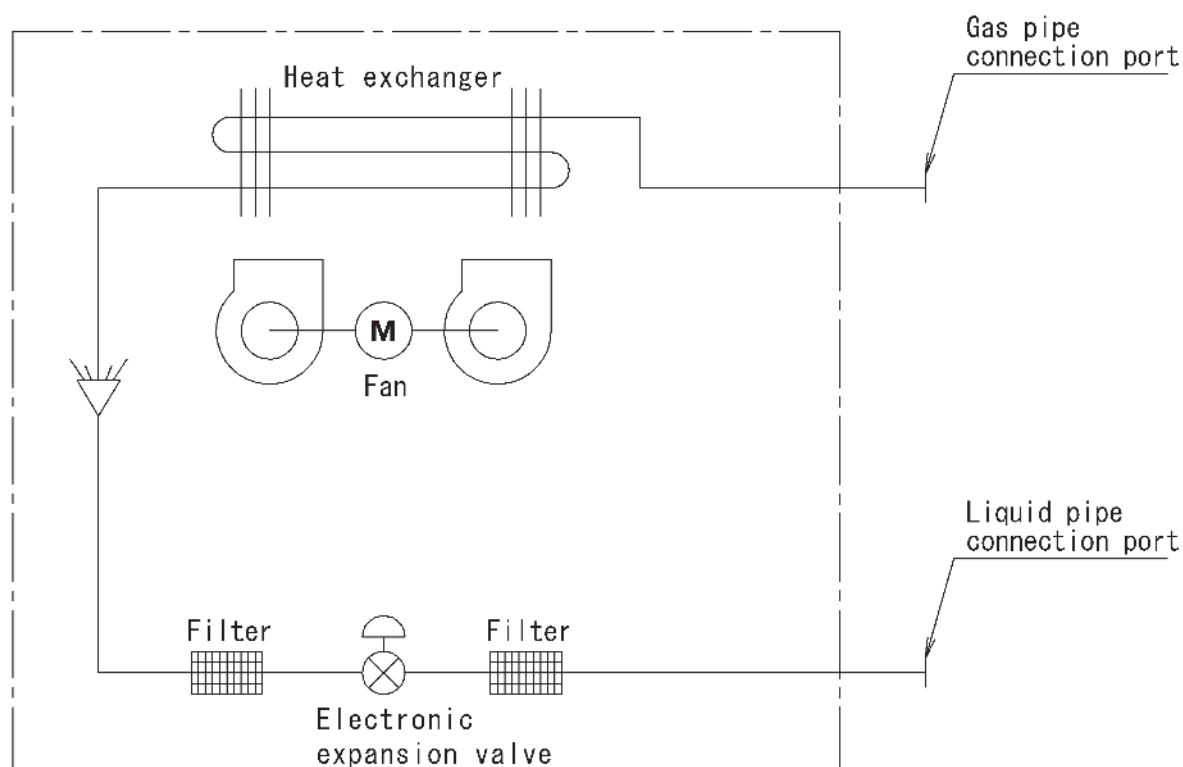
Unit: mm



3D122240

4. Piping Diagrams

FXAQ20AVM / FXAQ25AVM / FXAQ32AVM / FXAQ40AVM / FXAQ50AVM / FXAQ63AVM



APPLICABLE MODEL

FXC, FXM, FXL, FXN
 FXH, FXK, FXS, FJSP
 CBXLS, FXSP, FXCP
 FZSP, FXNP, FJNP
 FHQ, FXA, FXMQ, FBQ
 FXAQ, FXSP~BA, FAQ, FCQ
 FZSP~BA (N), FSPP~BA,
 FQSP~BAN, FXUQ, FZCP, FZAP
 FXSQ~PV2S, FXSQ~T, FXSP~CA (N)
 FZSP~CA (N), FQSP~CAN
 FSPP~CA, FXSFP~AA, FSSFP~AA

4D034245R

■ Refrigerant pipe connection port diameters

Model	Unit: mm	
	Gas	Liquid
FXAQ20AVM / FXAQ25AVM / FXAQ32AVM / FXAQ40AVM / FXAQ50AVM	φ12.7	φ6.4
FXAQ63AVM	φ15.9	φ9.5

FXAQ20AVM / FXAQ25AVM / FXAQ32AVM / FXAQ40AVM / FXAQ50AVM / FXAQ63AVM



6. Electric Characteristics

FXAQ20AVM / FXAQ25AVM / FXAQ32AVM / FXAQ40AVM / FXAQ50AVM / FXAQ63AVM

Indoor unit				Power supply		IFM		Input (W)	
Model Name	Hz	Voltage	Voltage range	MCA	MFA	kw	FLA	Cooling	Heating
FXAQ20AVM	50	220-240 V	MAX 264 V MIN 198 V	0.60	15	0.04	0.4	40	40
	60	220-230 V	MAX 253 V MIN 198 V						
FXAQ25AVM	50	220-240 V	MAX 264 V MIN 198 V	0.60	15	0.04	0.4	40	40
	60	220-230 V	MAX 253 V MIN 198 V						
FXAQ32AVM	50	220-240 V	MAX 264 V MIN 198 V	0.60	15	0.04	0.4	40	50
	60	220-230 V	MAX 253 V MIN 198 V						
FXAQ40AVM	50	220-240 V	MAX 264 V MIN 198 V	0.70	15	0.043	0.5	50	50
	60	220-230 V	MAX 253 V MIN 198 V						
FXAQ50AVM	50	220-240 V	MAX 264 V MIN 198 V	0.70	15	0.043	0.5	60	70
	60	220-230 V	MAX 253 V MIN 198 V						
FXAQ63AVM	50	220-240 V	MAX 264 V MIN 198 V	0.70	15	0.043	0.5	100	110
	60	220-230 V	MAX 253 V MIN 198 V						
FXAQ20AVMS(4)	50	220 V	MAX 242 V MIN 198 V	0.60	15	0.04	0.4	40	40
FXAQ25AVMS(4)				0.60	15	0.04	0.4	40	40
FXAQ32AVMS(4)				0.60	15	0.04	0.4	40	50
FXAQ40AVMS(4)				0.70	15	0.043	0.5	50	50
FXAQ50AVMS(4)				0.70	15	0.043	0.5	60	70
FXAQ63AVMS(4)				0.70	15	0.043	0.5	100	110

Notes

- 1) The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
- 2) the maximum allowable voltage that is unbalanced between phases is $\pm 2\%$.
- 3) MCA/MFA
 $MCA = 1.25 \times (FLA + \text{etc.})$
 $MFA \leq 4 \times FLA$
 (Next lower standard fuse rating. Min. 15A)
- 4) Select the wire size according to the MCA.
- 5) use a circuit breaker instead of a fuse.

Symbols

MCA: Minimum Circuit Ampere[A]
 MFA: Maximum Fuse Ampere[A]
 kW: Fan motor rated output[kW]
 FLA: Full Load Ampere[A]
 IFM: Indoor fan motor

7. Safety Devices Setting

Model		FXAQ20AVM	FXAQ25AVM	FXAQ32AVM
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Fan motor thermal fuse	°C	—	—	—
Fan motor thermal protector	°C	—	—	—

Model		FXAQ40AVM	FXAQ50AVM	FXAQ63AVM
Printed circuit board fuse		250 V, 3.15 A	250 V, 3.15 A	250 V, 3.15 A
Fan motor thermal fuse	°C	—	—	—
Fan motor thermal protector	°C	—	—	—

C: 4D122550

8. Capacity Tables

8.1 Cooling Capacity for Te: Auto

Model	Capacity indication	Indoor air temp.													
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
FXAQ20AVM	20	1.9	1.9	2.1	2.0	2.2	2.0	2.2	1.9	2.2	1.8	2.3	1.8	2.3	1.8
FXAQ25AVM	25	2.5	2.2	2.6	2.4	2.8	2.4	2.8	2.2	2.8	2.1	2.9	2.1	3.0	2.0
FXAQ32AVM	32	3.2	2.7	3.4	2.8	3.5	2.8	3.6	2.6	3.6	2.5	3.7	2.5	3.8	2.4
FXAQ40AVM	40	4.0	3.6	4.2	3.8	4.4	3.7	4.5	3.5	4.6	3.4	4.7	3.3	4.8	3.0
FXAQ50AVM	50	4.9	4.2	5.3	4.5	5.5	4.5	5.6	4.2	5.7	4.2	5.8	4.0	5.9	3.6
FXAQ63AVM	63	6.3	5.4	6.7	5.5	7.0	5.6	7.1	5.3	7.2	5.2	7.3	5.0	7.5	4.5

TC: Total capacity: kW

SHC: Sensible heat capacity: kW

Notes:

- These capacity tables are for use when selecting a **VRV** indoor unit. The actual capacity of the **VRV** system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the **VRV** system satisfies the required heat load.
- ☐ shows rated condition.

8.2 Cooling Capacity for Te: 6°C

Model	Capacity indication	Indoor air temp.													
		14°CWB		16°CWB		18°CWB		19°CWB		20°CWB		22°CWB		24°CWB	
		20°CDB		23°CDB		26°CDB		27°CDB		28°CDB		30°CDB		32°CDB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
FXAQ20AVM	20	1.5	1.5	1.8	1.7	2.1	1.9	2.2	1.9	2.2	1.8	2.3	1.8	2.3	1.8
FXAQ25AVM	25	1.9	1.7	2.3	2.0	2.6	2.2	2.8	2.2	2.8	2.1	2.9	2.1	3.0	2.0
FXAQ32AVM	32	2.4	2.0	2.9	2.3	3.4	2.6	3.6	2.6	3.6	2.5	3.7	2.5	3.8	2.4
FXAQ40AVM	40	3.0	2.7	3.6	3.1	4.2	3.4	4.5	3.5	4.6	3.4	4.7	3.3	4.8	3.0
FXAQ50AVM	50	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	5.7	4.2	5.8	4.0	5.9	3.6
FXAQ63AVM	63	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.2	5.2	7.4	5.0	7.5	4.5

TC: Total capacity: kW

SHC: Sensible heat capacity: kW

Notes:

- These capacity tables are for use when selecting a **VRV** indoor unit. The actual capacity of the **VRV** system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the **VRV** system satisfies the required heat load.
- ☐ shows rated condition.

8.3 Heating Capacity

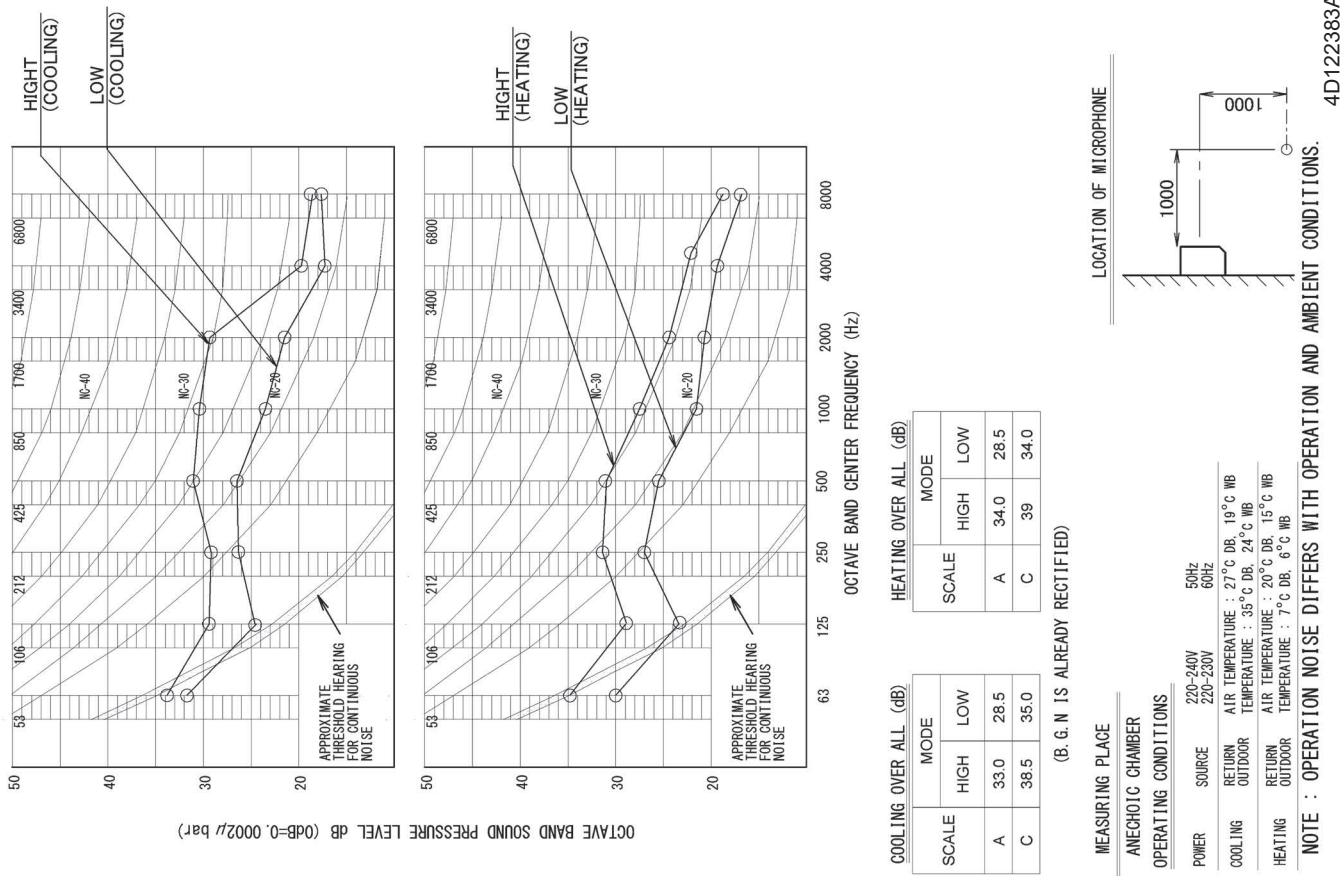
Model	Capacity indication	Indoor air temp.					
		16°CDB		18°CDB		20°CDB	
		21°CDB		22°CDB		24°CDB	
		kW		kW		kW	
FXAQ20AVM	20	2.6		2.6		2.5	
FXAQ25AVM	25	3.4		3.4		3.2	
FXAQ32AVM	32	4.2		4.2		4.0	
FXAQ40AVM	40	5.2		5.2		5.0	
FXAQ50AVM	50	6.6		6.6		6.3	
FXAQ63AVM	63	8.4		8.4		8.0	

Notes:

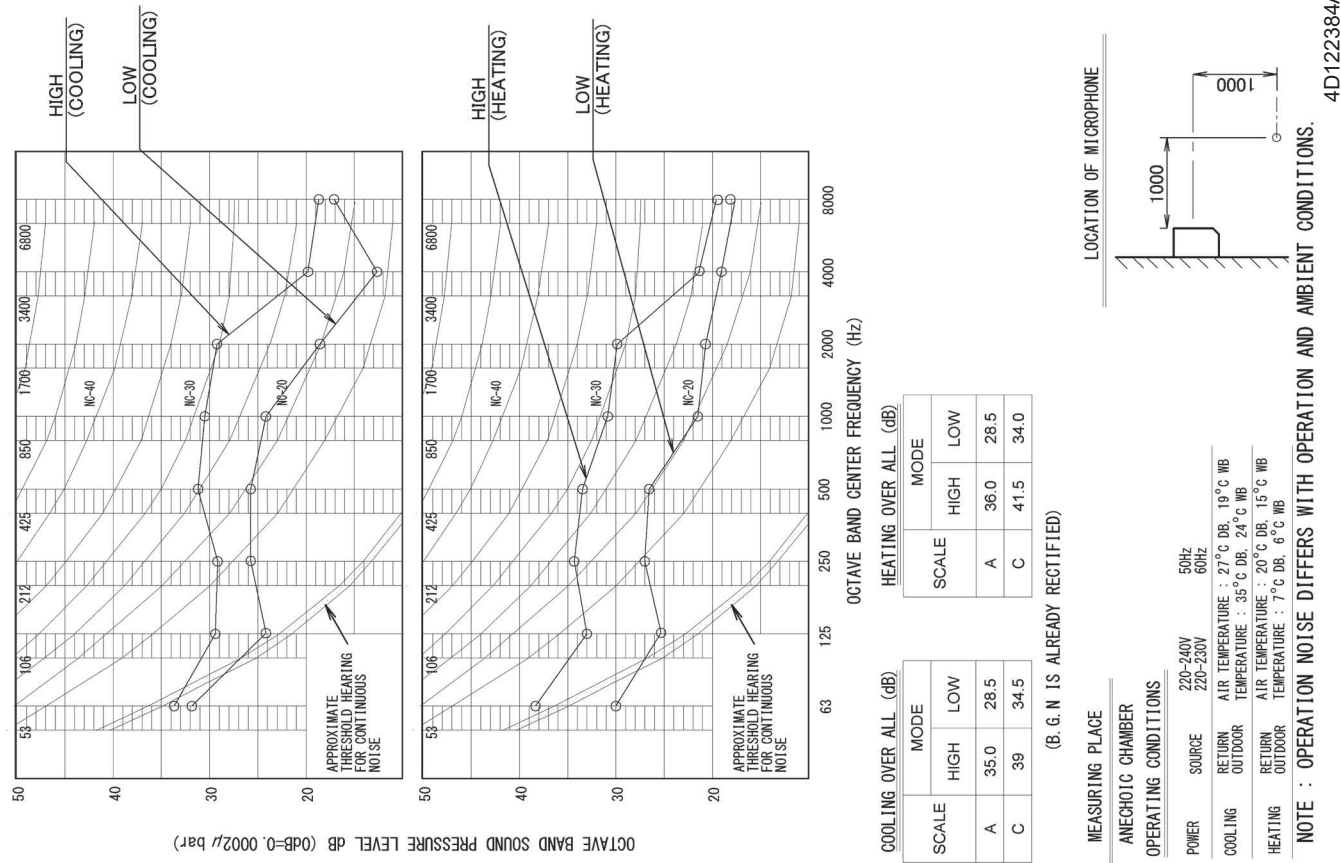
- These capacity tables are for use when selecting a **VRV** indoor unit. The actual capacity of the **VRV** system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the **VRV** system satisfies the required heat load.
- ☐ shows rated condition.

9. Sound Levels

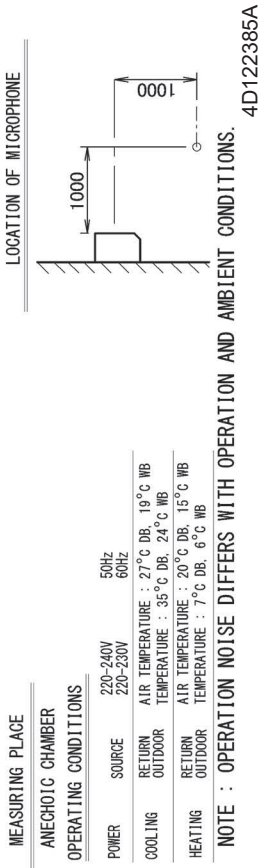
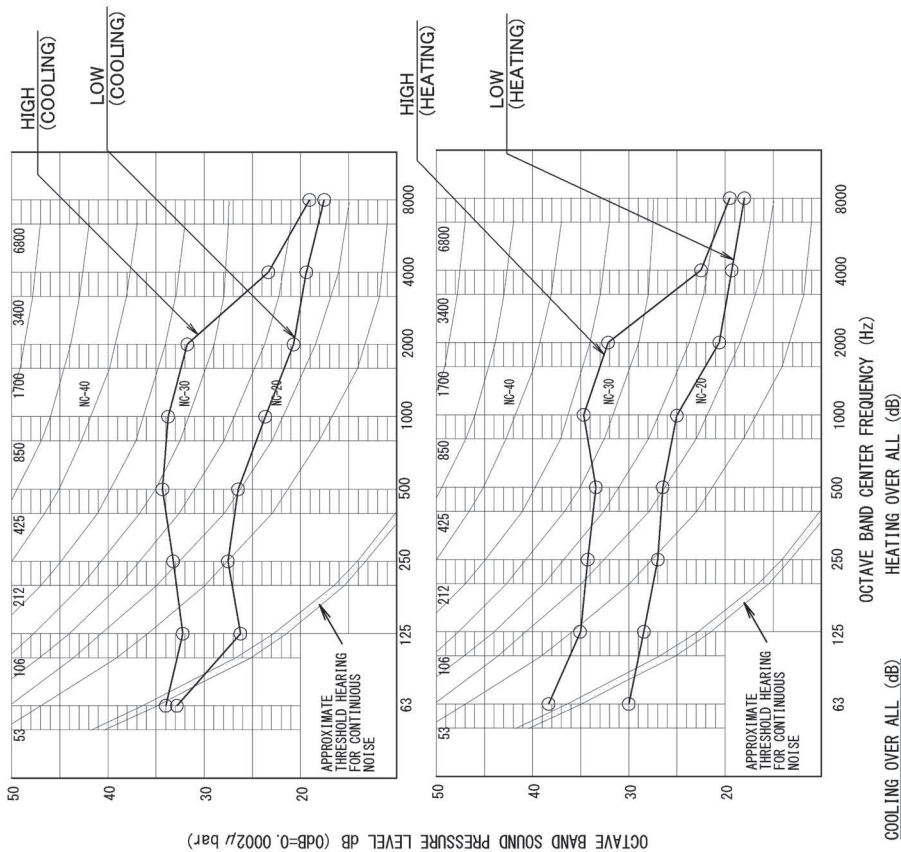
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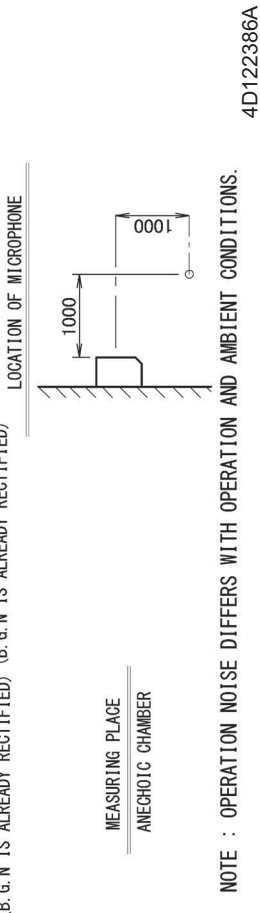
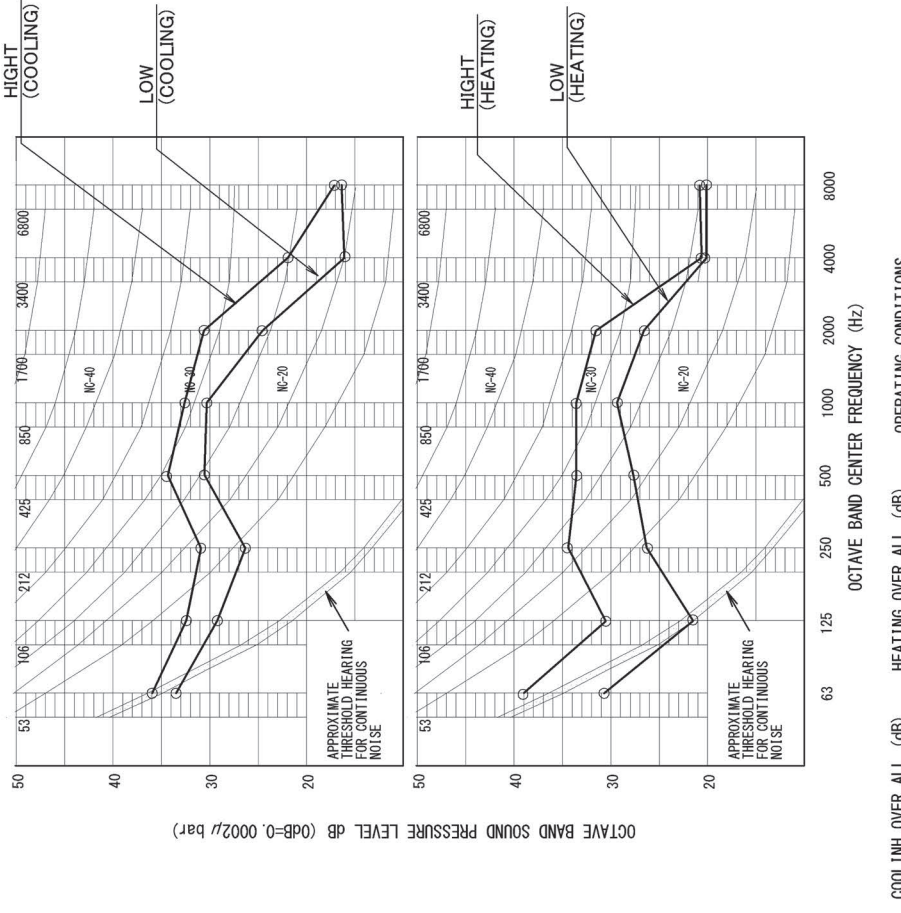
FXAQ25AVM



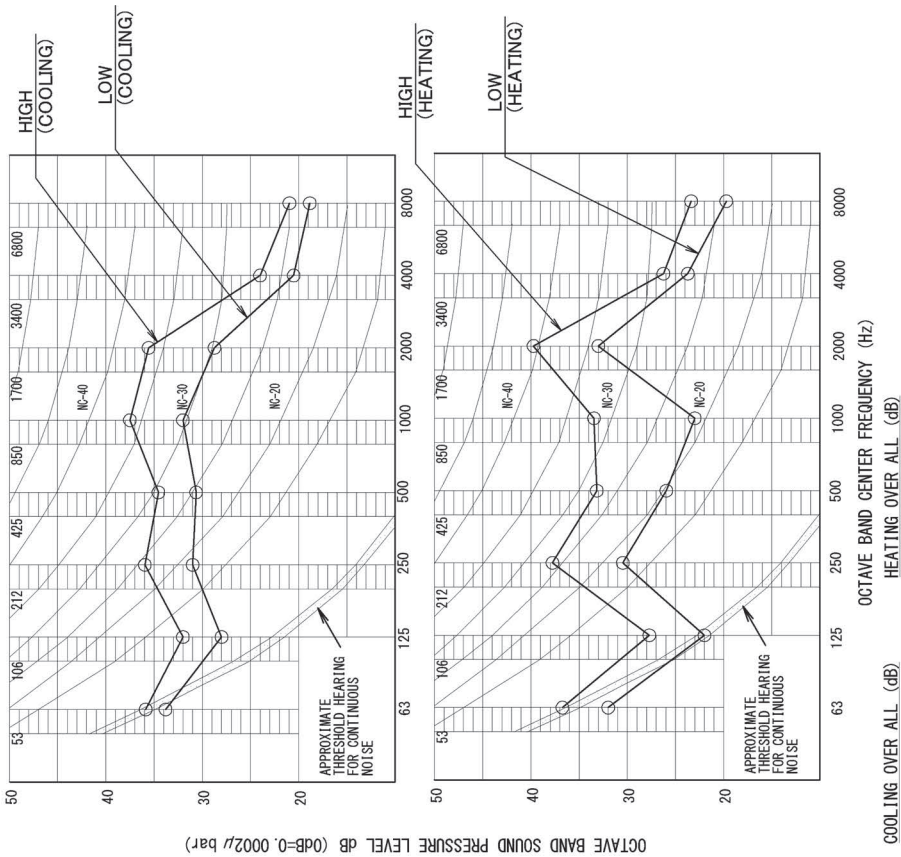
FXAQ32AVM



FXAQ40AVM



FXAQ50AVM



COOLING OVER ALL (dB)		HEATING OVER ALL (dB)	
SCALE	MODE	SCALE	MODE
	HIGH		LOW
A	41.0	A	42.0
C	43.5	C	43.7

(B. G. N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

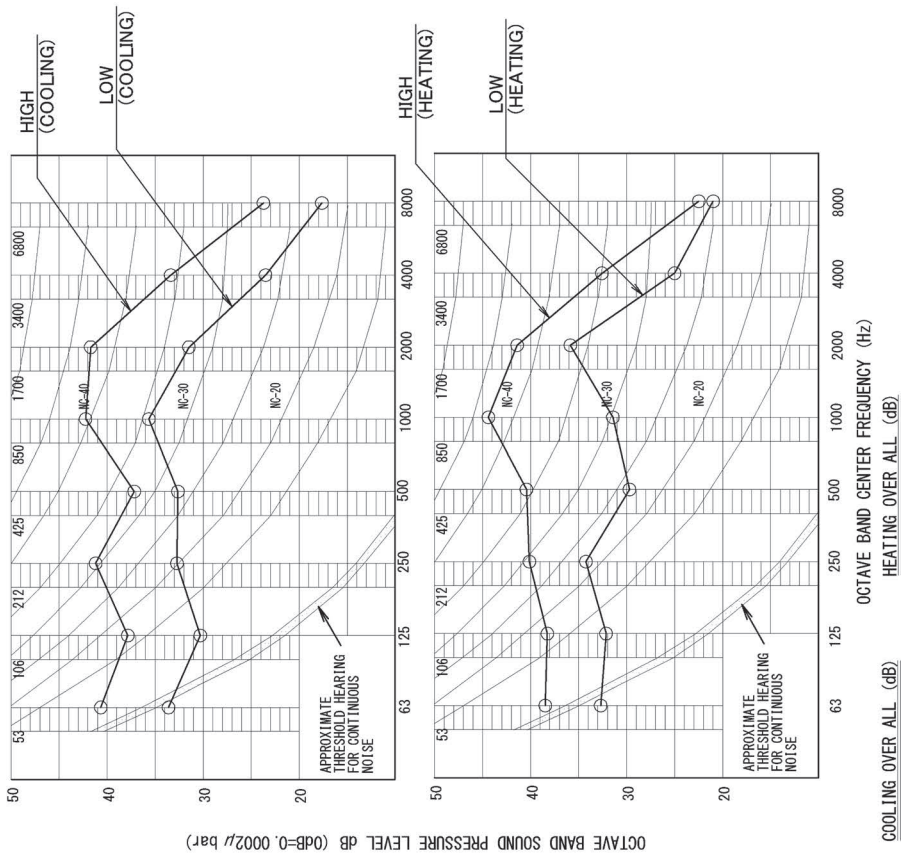
OPERATING CONDITIONS

POWER	SOURCE	220-240V 220-230V	50Hz 60Hz
COOLING	RETURN OUTDOOR	AIR TEMPERATURE : 27°C DB, 19°C WB	
	TEMPERATURE	: 35°C DB, 24°C WB	
HEATING	RETURN OUTDOOR	AIR TEMPERATURE : 20°C DB, 15°C WB	
	TEMPERATURE	: 7°C DB, 6°C WB	

NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D122387A

FXAQ63AVM



COOLING OVER ALL (dB)		HEATING OVER ALL (dB)	
SCALE	MODE	SCALE	MODE
	HIGH		LOW
A	46.5	A	47.0
C	49	C	47.9

(B. G. N IS ALREADY RECTIFIED)

MEASURING PLACE

ANECHOIC CHAMBER

OPERATING CONDITIONS

POWER	SOURCE	220-240V 220-230V	50Hz 60Hz
COOLING	RETURN OUTDOOR	AIR TEMPERATURE : 27°C DB, 19°C WB	
	TEMPERATURE	: 35°C DB, 24°C WB	
HEATING	RETURN OUTDOOR	AIR TEMPERATURE : 20°C DB, 15°C WB	
	TEMPERATURE	: 7°C DB, 6°C WB	

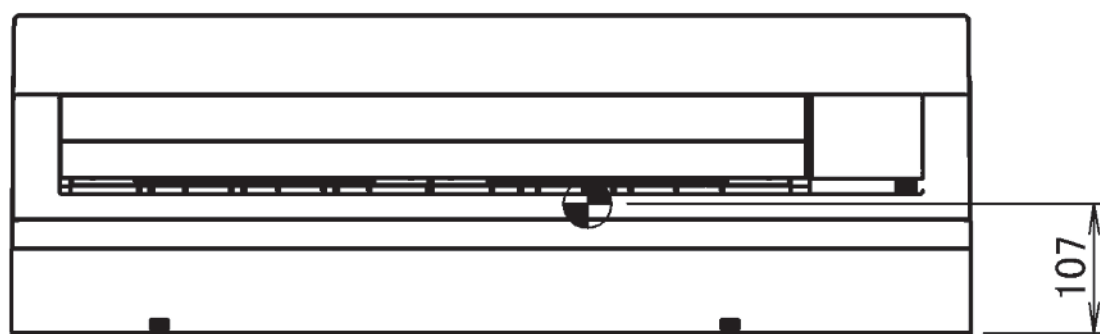
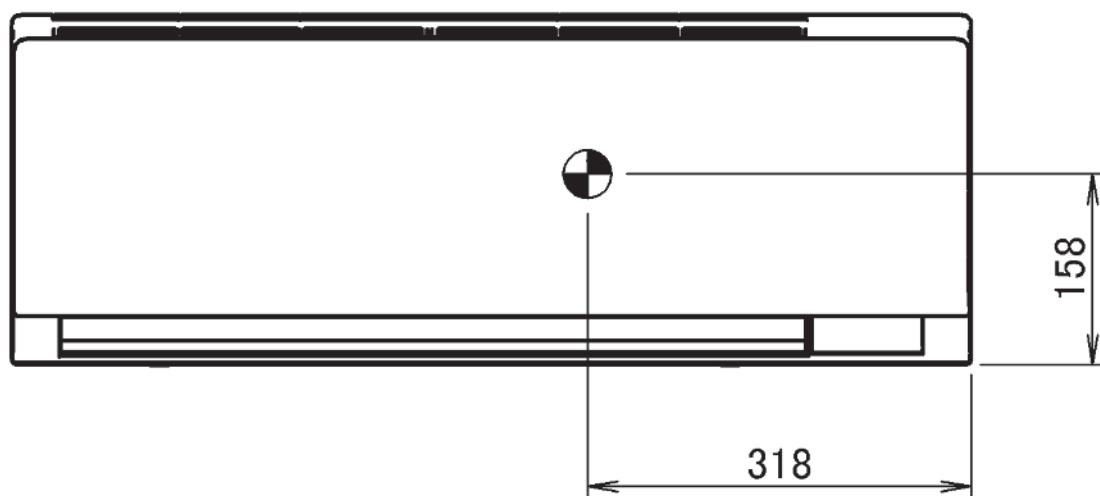
NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

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10. Centre of Gravity

FXAQ20AVM / FXAQ25AVM / FXAQ32AVM

Unit: mm



FXAQ40AVM / FXAQ50AVM / FXAQ63AVM

Unit: mm

