

MVZ MULTI-POSITION AIR HANDLER

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Due to continuing improvement, above specification may be subject to change without notice.

1. REFERENCE SERVICE MANUAL

For information on service, please refer to the service manual as follows.

1-1. INDOOR UNIT

Model name	Service Ref.	Service Manual No.
MVZ-A12AA4 MVZ-A18AA4 MVZ-A24AA4 MVZ-A30AA4 MVZ-A36AA4	MVZ-A12AA4.MX MVZ-A18AA4.MX MVZ-A24AA4.MX MVZ-A30AA4.MX MVZ-A36AA4.MX	HWE14070

Due to continuing improvement, above specification may be subject to change without notice.

2. SPECIFICATIONS

2-1. INDOOR UNIT MVZ-A12AA4

Power source		1-phase 208/230 V 60 Hz		
Cooling capacity	*1	BTU/h	12,000	
	*1	kW	3.5	
*2	Power input	kW	0.080	
	Current input	A	0.80/0.70	
Heating capacity	*3	BTU/h	13,500	
	*3	kW	4.0	
*2	Power input	kW	0.080	
	Current input	A	0.80/0.70	
External dimension HxWxD		inch	50-1/4 x 17 x 21-5/8	
		mm	1,275 x 432 x 548	
Net weight		lbs (kg)	113 (51)	
Heat exchanger		Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Sirocco fan x 1	
	*4	External static press.	in.WG	<0.30> - 0.50 - <0.80>
			Pa	<75> - 125 - <200>
	Motor Type		DC motor	
		Motor output	kW	0.121
	(Low-Mid-High)	Air flow rate	cfm	280 - 340 - 400
			m ³ /min	7.9 - 9.6 - 11.3
			L/s	132 - 160 - 188
Sound pressure level (Low-Mid-High)	*2	dB <A>	27-31-35	
Protection device		Fuse		
Diameter of refrigerant pipe	Liquid (R410A)	inch (mm)	1/4 (6.35)Flare	
	Gas (R410A)	inch (mm)	1/2 (12.7)Flare	
Field drain pipe size		inch (mm)	3/4 (19.05) FPT	

NOTE:

*1.Nominal cooling conditions

Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*2.The values are measured at the factory setting of external static pressure.

*3.Nominal heating conditions

Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*4.The factory setting of external static pressure is shown without < >.

Refer to "AIR FLOW DATA", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Due to continuing improvement, above specification may be subject to change without notice.

2. SPECIFICATIONS

MVZ-A18AA4

Power source		1-phase 208/230 V 60 Hz		
Cooling capacity	*1	BTU/h	18,000	
	*1	kW	5.3	
	*2	Power input	kW	0.130
	*2	Current input	A	1.20/1.10
Heating capacity	*3	BTU/h	20,000	
	*3	kW	5.9	
	*2	Power input	kW	0.130
	*2	Current input	A	1.20/1.10
External dimension HxWxD		inch	50-1/4 x 17 x 21-5/8	
		mm	1,275 x 432 x 548	
Net weight		lbs (kg)	113 (51)	
Heat exchanger		Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Sirocco fan x 1	
	*4	External static press.	in.WG	<0.30> - 0.50 - <0.80>
			Pa	<75> - 125 - <200>
	Motor Type		DC motor	
		Motor output	kW	0.121
	Air flow rate (Low-Mid-High)		cfm	410 - 497 - 585
			m ³ /min	11.6 - 14.1 - 16.6
		L/s	193 - 235 - 277	
Sound pressure level (Low-Mid-High)		*2	dB <A>	28-32-36
Protection device		Fuse		
Diameter of refrigerant pipe	Liquid (R410A)	inch (mm)	1/4 (6.35)Flare	
	Gas (R410A)	inch (mm)	1/2 (12.7)Flare	
Field drain pipe size		inch (mm)	3/4 (19.05) FPT	

NOTE:

*1.Nominal cooling conditions

Indoor: 80°F D.B./67°F W.B. (26.7 °C D.B./19.4 °C W.B.), Outdoor: 95°F D.B. (35 °C D.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*2.The values are measured at the factory setting of external static pressure.

*3.Nominal heating conditions

Indoor: 70°F D.B. (21.1 °C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3 °C D.B./6.1 °C W.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*4.The factory setting of external static pressure is shown without < >.

Refer to "AIR FLOW DATA", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Due to continuing improvement, above specification may be subject to change without notice.

2. SPECIFICATIONS

MVZ-A24AA4

Power source		1-phase 208/230 V 60 Hz		
Cooling capacity	*1	BTU/h	24,000	
	*1	kW	7.0	
	*2	Power input	kW	0.180
	*2	Current input	A	1.60/1.40
Heating capacity	*3	BTU/h	27,000	
	*3	kW	7.9	
	*2	Power input	kW	0.180
	*2	Current input	A	1.60/1.40
External dimension HxWxD		inch	50-1/4 x 17 x 21-5/8	
		mm	1,275 x 432 x 548	
Net weight		lbs (kg)	113 (51)	
Heat exchanger		Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Sirocco fan x 1	
	*4	External static press.	in.WG	<0.30> - 0.50 - <0.80>
			Pa	<75> - 125 - <200>
	Motor Type		DC motor	
		Motor output	kW	0.121
	Air flow rate (Low-Mid-High)		cfm	515 - 625 - 735
			m ³ /min	14.6 - 17.7 - 20.8
			L/s	243 - 295 - 347
Sound pressure level (Low-Mid-High)		*2	dB <A>	30-34-38
Protection device		Fuse		
Diameter of refrigerant pipe	Liquid (R410A)	inch (mm)	3/8 (9.52)Flare	
	Gas (R410A)	inch (mm)	5/8 (15.88)Flare	
Field drain pipe size		inch (mm)	3/4 (19.05) FPT	

NOTE:

*1.Nominal cooling conditions

Indoor: 80°F D.B./67 °F W.B. (26.7 °C D.B./19.4 °C W.B.), Outdoor: 95 °F D.B. (35 °C D.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*2.The values are measured at the factory setting of external static pressure.

*3.Nominal heating conditions

Indoor: 70°F D.B. (21.1 °C D.B.), Outdoor: 47 °F D.B./43 °F W.B. (8.3 °C D.B./6.1 °C W.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*4.The factory setting of external static pressure is shown without < >.

Refer to "AIR FLOW DATA", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Due to continuing improvement, above specification may be subject to change without notice.

2. SPECIFICATIONS

MVZ-A30AA4

Power source		1-phase 208/230 V 60 Hz		
Cooling capacity	*1	BTU/h	30,000	
	*1	kW	8.8	
	*2	Power input	kW	0.210
	*2	Current input	A	2.00/1.70
Heating capacity	*3	BTU/h	34,000	
	*3	kW	10.0	
	*2	Power input	kW	0.210
	*2	Current input	A	2.00/1.70
External dimension HxWxD		inch	54-1/4 x 21 x 21-5/8	
		mm	1,378 x 534 x 548	
Net weight		lbs (kg)	141 (64)	
Heat exchanger		Cross fin (Aluminum fin and copper tube)		
FAN	Type x Quantity		Sirocco fan x 1	
	*4	External static press.	in.WG	<0.30> - 0.50 - <0.80>
			Pa	<75> - 125 - <200>
	Motor Type		DC motor	
	Motor output		kW	0.244
	Air flow rate (Low-Mid-High)	cfm		613 - 744 - 875
		m ³ /min		17.3 - 21.1 - 24.8
L/s		288 - 352 - 413		
Sound pressure level (Low-Mid-High)		*2	dB <A>	32-36-40
Protection device		Fuse		
Diameter of refrigerant pipe	Liquid (R410A)	inch (mm)	3/8 (9.52)Flare	
	Gas (R410A)	inch (mm)	5/8 (15.88)Flare	
Field drain pipe size		inch (mm)	3/4 (19.05) FPT	

NOTE:

*1.Nominal cooling conditions

Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*2.The values are measured at the factory setting of external static pressure.

*3.Nominal heating conditions

Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*4.The factory setting of external static pressure is shown without < >.

Refer to "AIR FLOW DATA", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

Due to continuing improvement, above specification may be subject to change without notice.

2. SPECIFICATIONS

MVZ-A36AA4

Power source		1-phase 208/230 V 60 Hz	
Cooling capacity	*1	BTU/h	36,000
	*1	kW	10.6
	*2	Power input kW	0.340
	*2	Current input A	3.00/2.70
Heating capacity	*3	BTU/h	40,000
	*3	kW	11.7
	*2	Power input kW	0.340
	*2	Current input A	3.00/2.70
External dimension HxWxD		inch	54-1/4 x 21 x 21-5/8
		mm	1,378 x 534 x 548
Net weight		lbs (kg)	141 (64)
Heat exchanger		Cross fin (Aluminum fin and copper tube)	
FAN	Type x Quantity		Sirocco fan x 1
	*4	External	in.WG
		static press.	Pa
	Motor Type		DC motor
	Motor output		0.244
	Air flow rate		767 - 931 - 1,095
	(Low-Mid-High)		m ³ /min
		L/s	
Sound pressure level		*2	dB <A>
(Low-Mid-High)		35-39-43	
Protection device		Fuse	
Diameter of refrigerant pipe	Liquid (R410A)	inch (mm)	3/8 (9.52)Flare
	Gas (R410A)	inch (mm)	5/8 (15.88)Flare
Field drain pipe size		inch (mm)	3/4 (19.05) FPT

NOTE:

*1.Nominal cooling conditions

Indoor: 80°F D.B./67 °F W.B. (26.7 °C D.B./19.4 °C W.B.), Outdoor: 95 °F D.B. (35 °C D.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*2.The values are measured at the factory setting of external static pressure.

*3.Nominal heating conditions

Indoor: 70°F D.B. (21.1 °C D.B.), Outdoor: 47 °F D.B./43 °F W.B. (8.3 °C D.B./6.1 °C W.B.)

Pipe length: 25 ft. (7.6 m), Level difference: 0 ft. (0 m)

*4.The factory setting of external static pressure is shown without < >.

Refer to "AIR FLOW DATA", according to the external static pressure, in DATA BOOK for the usable range of air flow rate.

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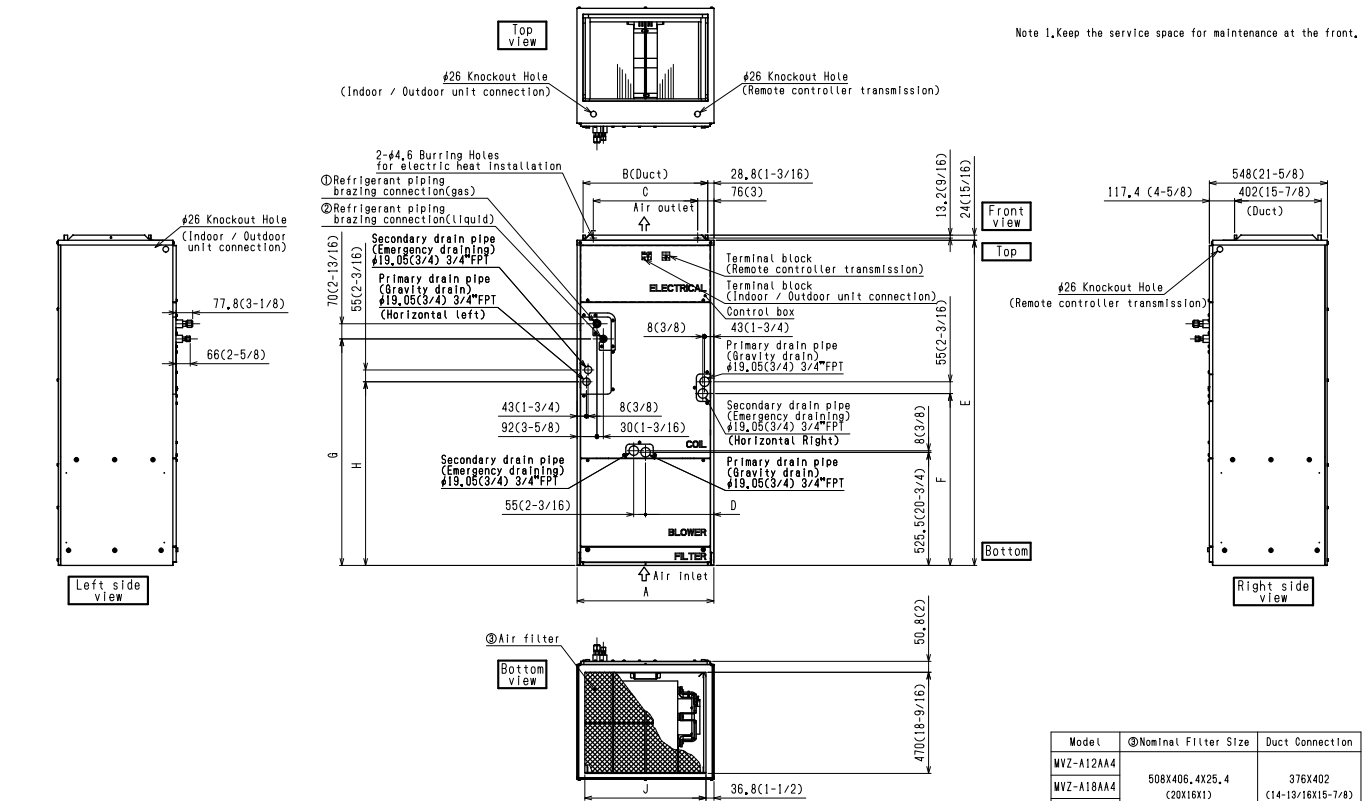
3. OUTLINES AND DIMENSIONS

3-1. INDOOR UNIT

MVZ-A12AA4 MVZ-A18AA4 MVZ-A24AA4 MVZ-A30AA4 MVZ-A36AA4

Unit: inch

Note 1. Keep the service space for maintenance at the front.



Unit:mm(in.)

Model	A	B	C	D	E	F	G	H	J	ØGas pipe	ØLiquid pipe
MVZ-A12AA4	432 (17)	376 (14-13/16)	281 (11-1/8)	224 (8-7/8)	1275 (50-1/4)	680 (26-13/16)	823 (32-7/16)	735.5 (29)	360 (14-3/16)	Ø12.7 (1/2)	Ø6.35 (1/4)
MVZ-A18AA4											
MVZ-A24AA4											
MVZ-A30AA4	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)	Ø15.88 (5/8)	Ø9.52 (3/8)
MVZ-A36AA4											

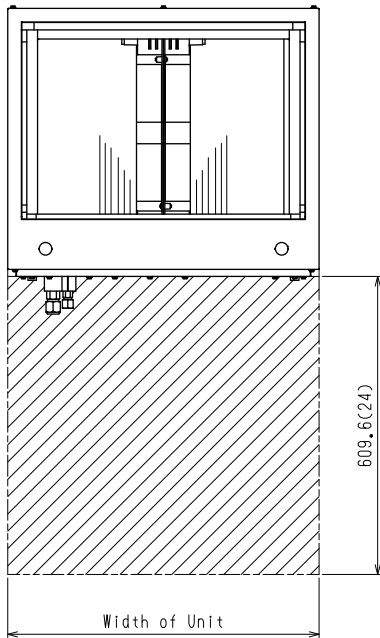
Model	ØNominal Filter Size	Duct Connection
MVZ-A12AA4	508X406_4X25_4 (20X16X1)	376X402 (14-13/16X15-7/8)
MVZ-A18AA4		
MVZ-A24AA4		
MVZ-A30AA4	508X508X25_4 (20X20X1)	477X402 (18-13/16X15-7/8)
MVZ-A36AA4		

Due to continuing improvement, above specification may be subject to change without notice.

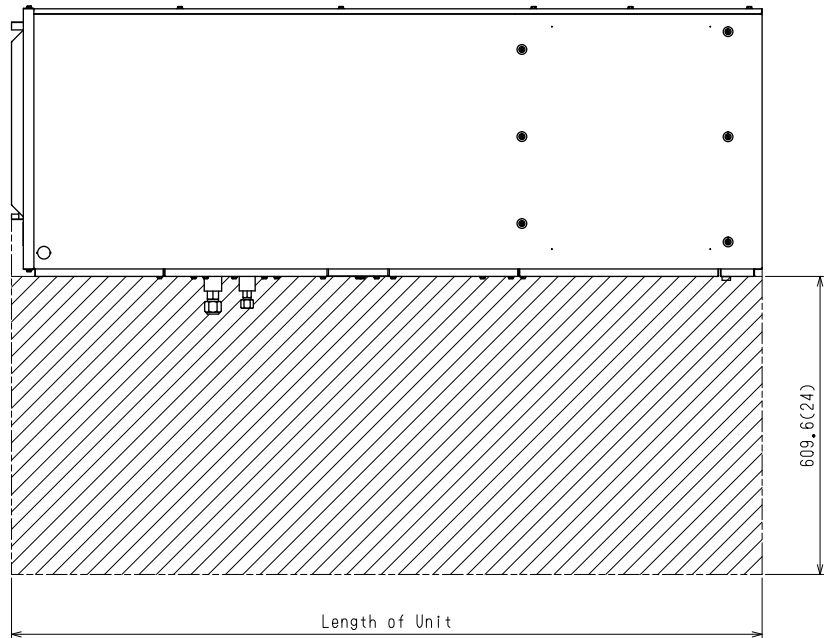
3. OUTLINES AND DIMENSIONS

MVZ-A12AA4 MVZ-A18AA4 MVZ-A24AA4 MVZ-A30AA4 MVZ-A36AA4

Clearance Area



Vertical Installation

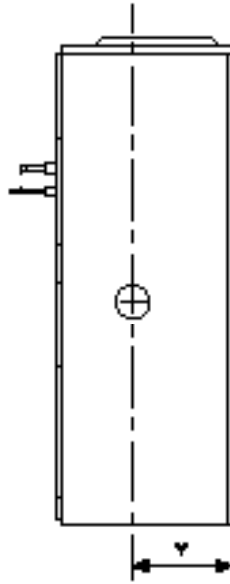
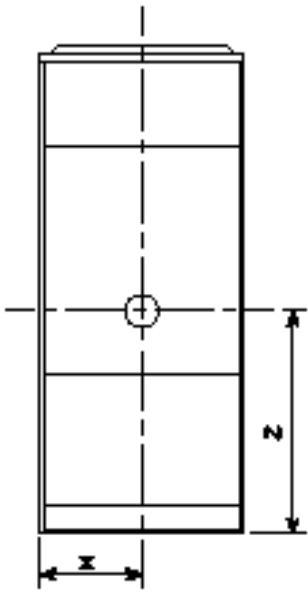


Horizontal Installation

Due to continuing improvement, above specification may be subject to change without notice.

4. POSITION OF THE CENTER OF GRAVITY

4-1. INDOOR UNIT



Unit: inch (mm)

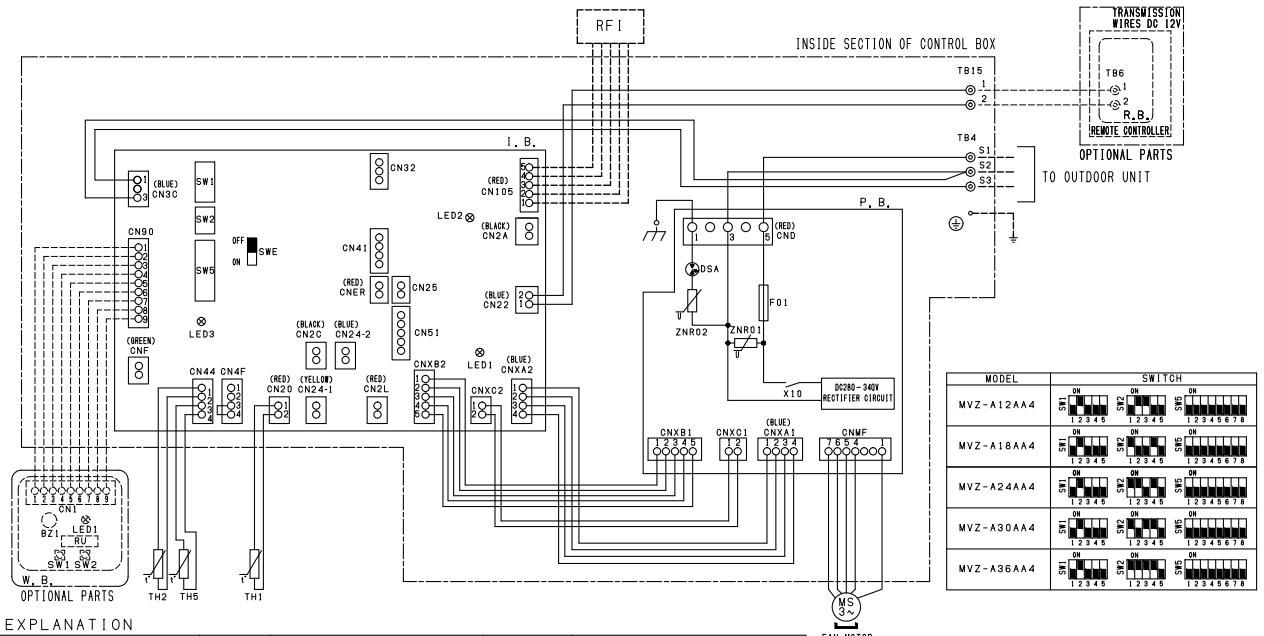
Model name	X	Y	Z
MVZ-A12AA4	8-7/8	11-1/4	24-1/16
MVZ-A18AA4	(225)	(285)	(610)
MVZ-A24AA4			
MVZ-A30AA4	11-1/16	11-7/16	26
MVZ-A36AA4	(280)	(290)	(660)

Due to continuing improvement, above specification may be subject to change without notice.

5. WIRING DIAGRAM

5-1. INDOOR UNIT

MVZ-A12AA4 MVZ-A18AA4 MVZ-A24AA4 MVZ-A30AA4 MVZ-A36AA4



SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I. B.	INDOOR CONTROLLER BOARD	I. B.	INDOOR CONTROLLER BOARD	OPTIONAL PARTS	
CN24-1	CONNECTOR (HEATER CONTROL 1ST)	SW1	SWITCH (FOR MODEL SELECTION)	W. B.	IR WIRELESS REMOTE CONTROLLER BOARD
CN24-2	CONNECTOR (HEATER CONTROL 2ND)	SW2	SWITCH (FOR CAPACITY CODE)	RU	RECEIVING UNIT
CN25	CONNECTOR (HUMIDITY OUTPUT)	SW5	SWITCH (FOR MODE SELECTION)	BZ1	BUZZER
CN2A	CONNECTOR (0-10V ANALOG INPUT)	SWE	CONNECTOR (EMERGENCY OPERATION)	LED1	LED(RUN INDICATOR)
CN2C	CONNECTOR (ERV OUTPUT)			SW1	SWITCH(HEATING ON/OFF)
CN2L	CONNECTOR (LOSSNAY)	P. B.	POWER SUPPLY BOARD	SW2	SWITCH(COOLING ON/OFF)
CN32	CONNECTOR (REMOTE SWITCH)	F01	FUSE AC250V 6.3A	R. B.	WIRED REMOTE CONTROLLER BOARD
CN41	CONNECTOR (HA TERMINAL-A)	ZNR01,02	VARISTOR	TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN51	CONNECTOR (CENTRALLY CONTROL)	DSA	ARRESTOR		
CN90	CONNECTOR (WIRELESS)	X10	AUX. RELAY		
CN105	CONNECTOR (RADIO FREQUENCY INTERFACE)	TH1	INTAKE AIR TEMP. THERMISTOR		
CNR	CONNECTOR (ERV INPUT)	TH2	PIPE TEMP. THERMISTOR/LIQUID		
CNF	CONNECTOR (HUMIDITY INPUT)	TH5	COND./EVA. TEMP. THERMISTOR		
LED1	LED(POWER SUPPLY)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)		
LED2	LED(REMOTE CONTROLLER SUPPLY)	TB15	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)		
LED3	LED(TRANSMISSION INDOOR-OUTDOOR)	RFI	RADIO FREQUENCY INTERFACE FOR RF THERMOSTAT		

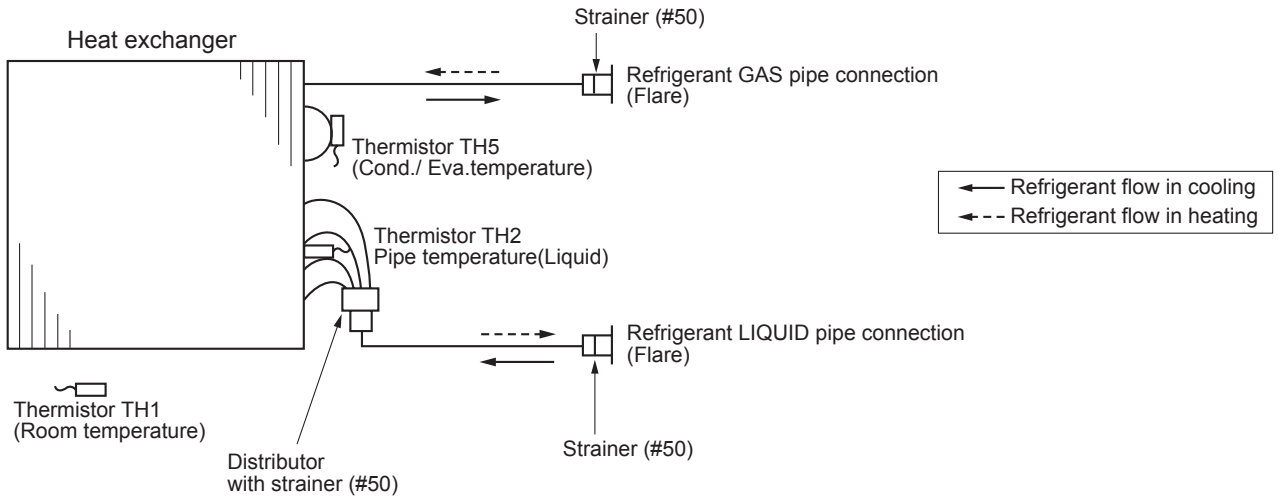
Note1, Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
 2, Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1, S2, S3).
 3, Symbols used in wiring diagram above are as follows.
 [Symbol] : CONNECTOR
 [Symbol] : TERMINAL
 --- (HEAVY DOTTED LINE): FIELD WIRING
 - - - (THIN DOTTED LINE): OPTIONAL PARTS
 4, Use copper supply wire.
 UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

Due to continuing improvement, above specification may be subject to change without notice.

6. REFRIGERANT SYSTEM DIAGRAM

6-1. INDOOR UNIT

MVZ-A12AA4 MVZ-A18AA4 MVZ-A24AA4 MVZ-A30AA4 MVZ-A36AA4



Due to continuing improvement, above specification may be subject to change without notice.

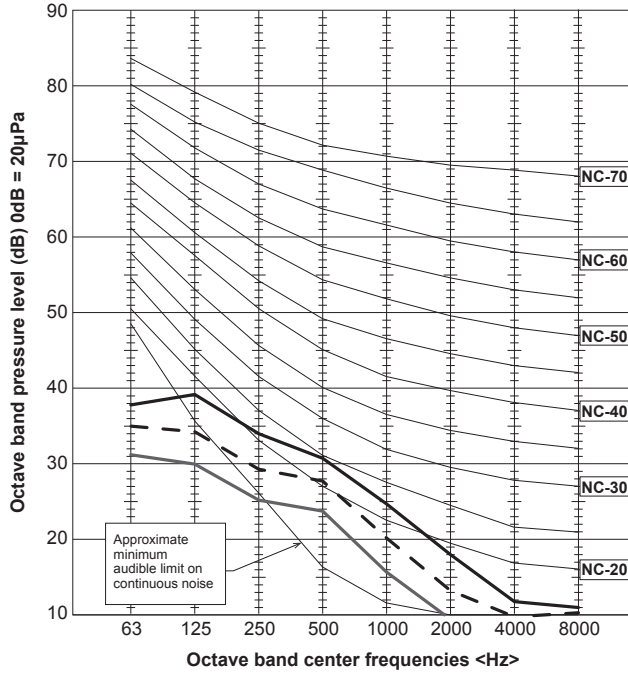
7. NOISE CRITERION CURVES

7-1. INDOOR UNIT

MVZ-A12AA4

Condition	A scale	LINE
High	32.0	——
Middle	28.0	- - - -
Low	24.0	——

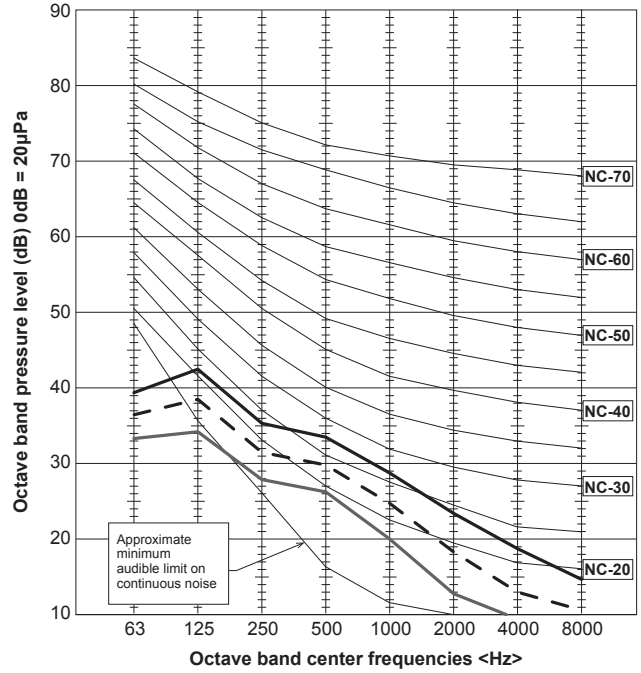
External Static Pressure: 75Pa



MVZ-A12AA4

Condition	A scale	LINE
High	35.0	——
Middle	31.0	- - - -
Low	27.0	——

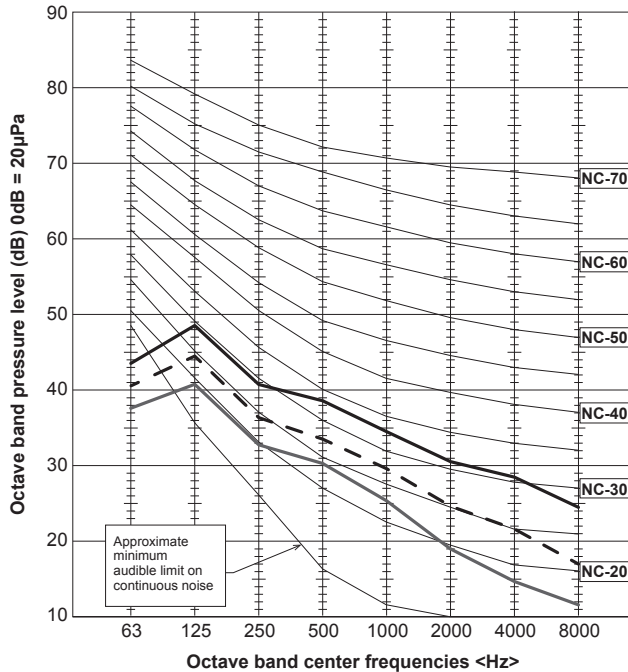
External Static Pressure: 125Pa



MVZ-A12AA4

Condition	A scale	LINE
High	41.0	——
Middle	36.0	- - - -
Low	32.0	——

External Static Pressure: 200Pa



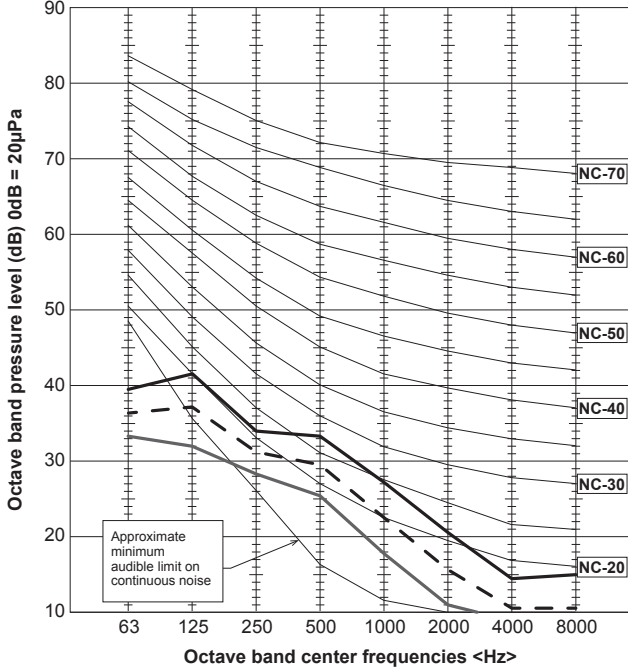
Due to continuing improvement, above specification may be subject to change without notice.

7. NOISE CRITERION CURVES

MVZ-A18AA4

Condition	A scale	LINE
High	34.0	————
Middle	30.0	- - - -
Low	26.0	————

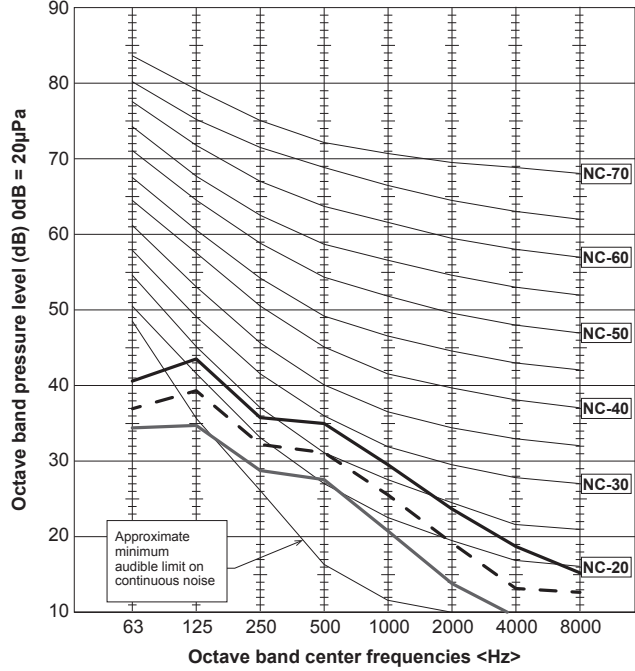
External Static Pressure: 75Pa



MVZ-A18AA4

Condition	A scale	LINE
High	36.0	————
Middle	32.0	- - - -
Low	28.0	————

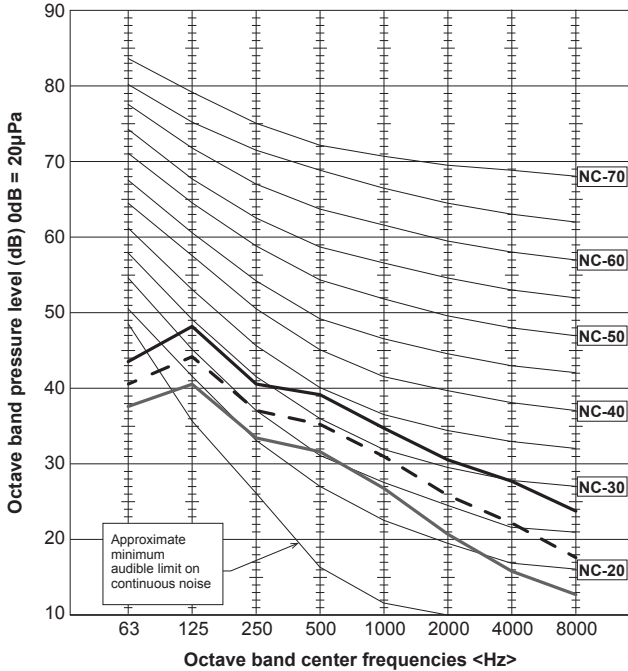
External Static Pressure: 125Pa



MVZ-A18AA4

Condition	A scale	LINE
High	41.0	————
Middle	37.0	- - - -
Low	33.0	————

External Static Pressure: 200Pa



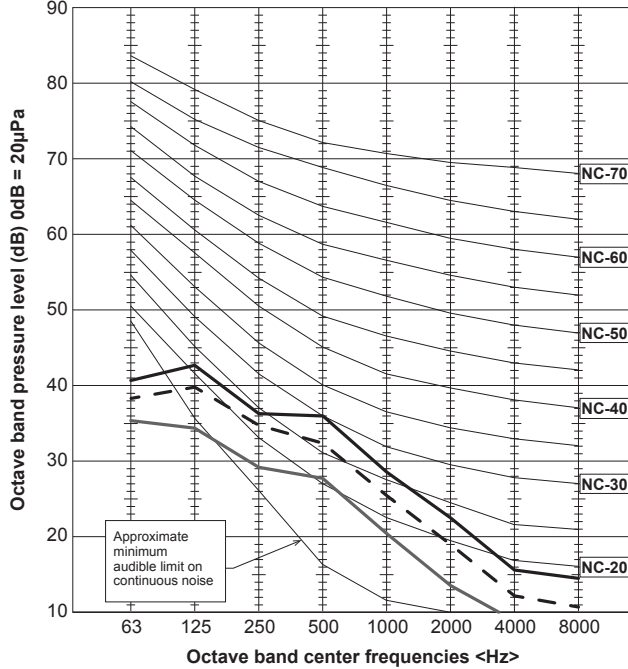
Due to continuing improvement, above specification may be subject to change without notice.

7. NOISE CRITERION CURVES

MVZ-A24AA4

Condition	A scale	LINE
High	36.0	—
Middle	33.0	- - -
Low	28.0	—

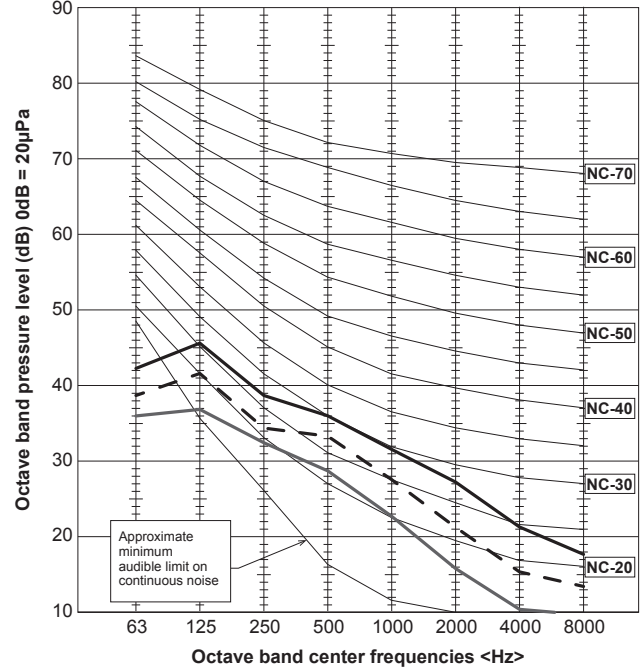
External Static Pressure: 75Pa



MVZ-A24AA4

Condition	A scale	LINE
High	38.0	—
Middle	34.0	- - -
Low	30.0	—

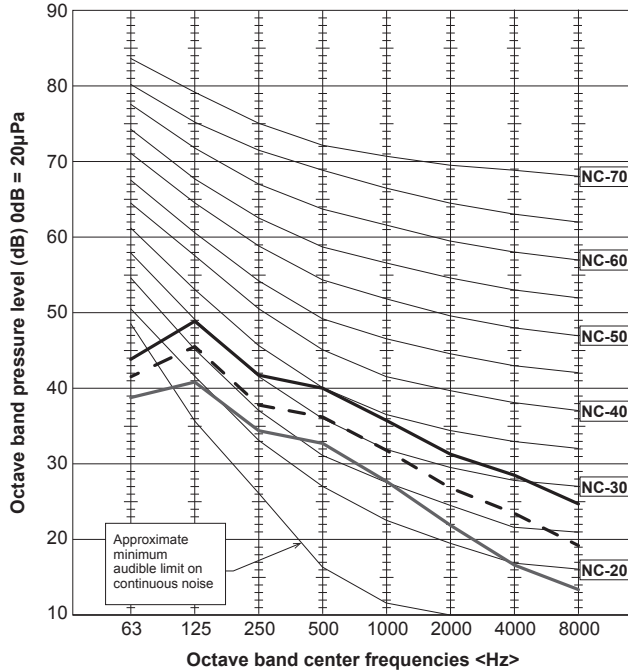
External Static Pressure: 125Pa



MVZ-A24AA4

Condition	A scale	LINE
High	42.0	—
Middle	38.0	- - -
Low	34.0	—

External Static Pressure: 200Pa



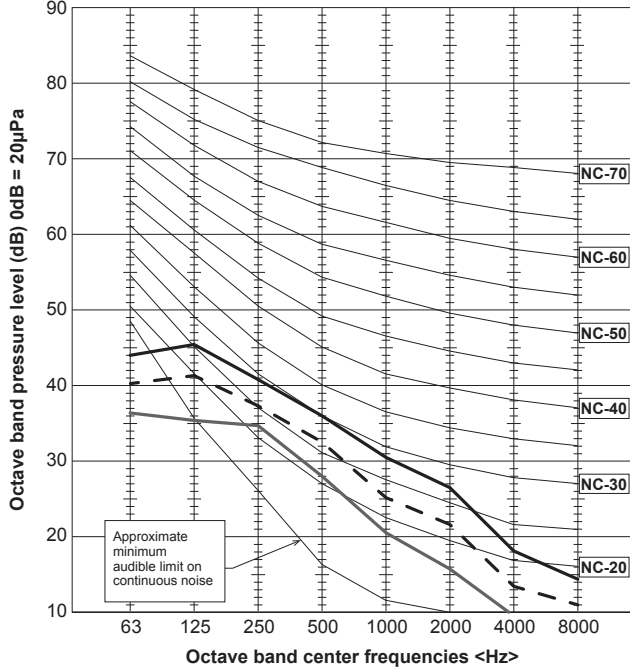
Due to continuing improvement, above specification may be subject to change without notice.

7. NOISE CRITERION CURVES

MVZ-A30AA4

Condition	A scale	LINE
High	38.0	————
Middle	34.0	- - - -
Low	30.0	————

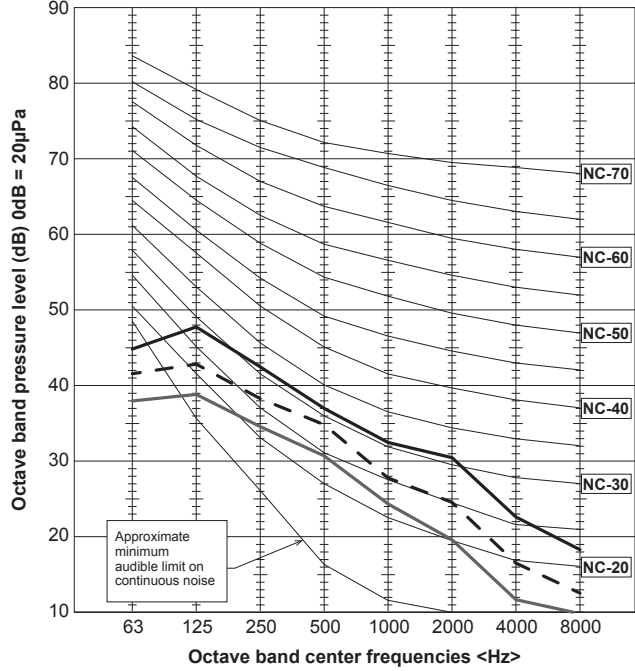
External Static Pressure: 75Pa



MVZ-A30AA4

Condition	A scale	LINE
High	40.0	————
Middle	36.0	- - - -
Low	32.0	————

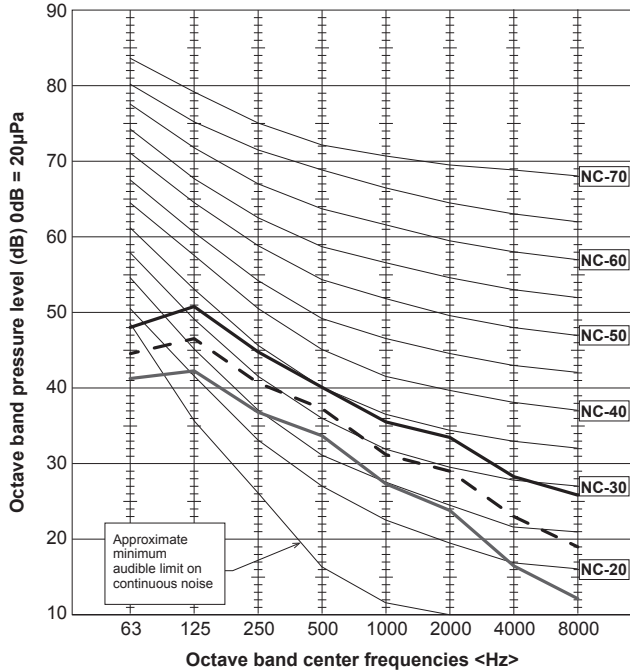
External Static Pressure: 125Pa



MVZ-A30AA4

Condition	A scale	LINE
High	43.0	————
Middle	39.0	- - - -
Low	35.0	————

External Static Pressure: 200Pa



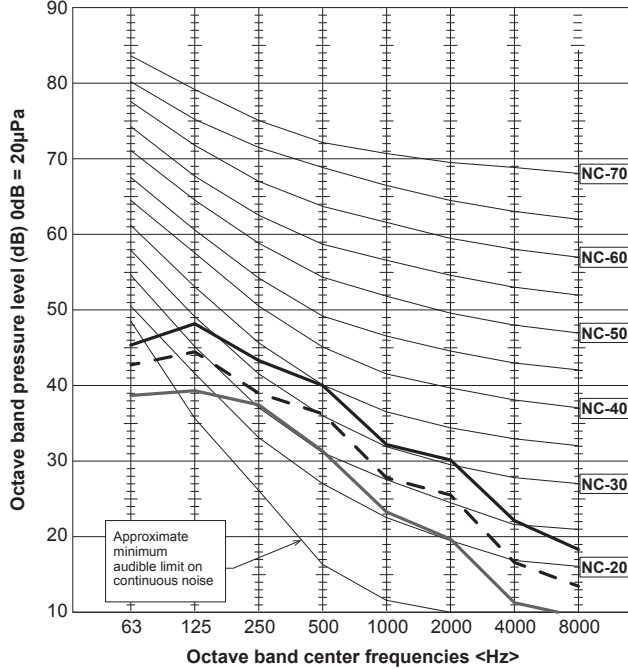
Due to continuing improvement, above specification may be subject to change without notice.

7. NOISE CRITERION CURVES

MVZ-A36AA4

Condition	A scale	LINE
High	41.0	—
Middle	37.0	- - -
Low	33.0	—

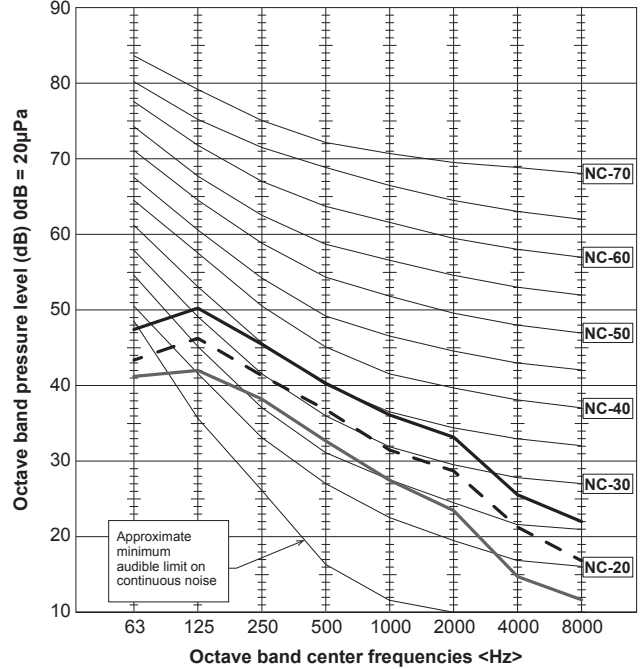
External Static Pressure: 75Pa



MVZ-A36AA4

Condition	A scale	LINE
High	43.0	—
Middle	39.0	- - -
Low	35.0	—

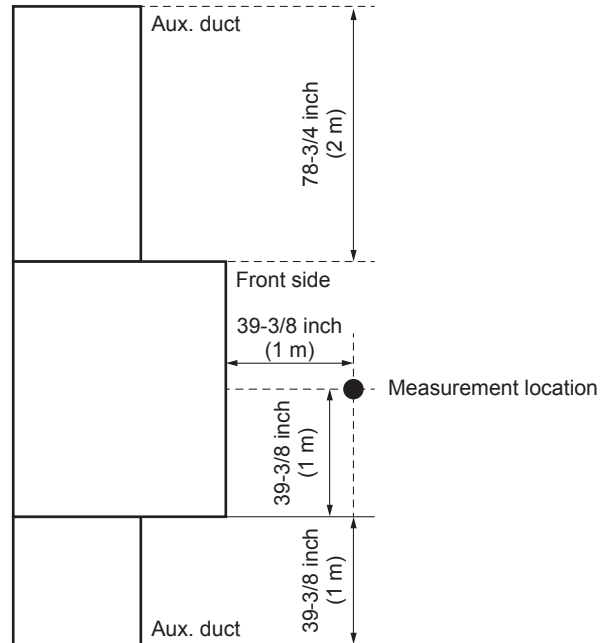
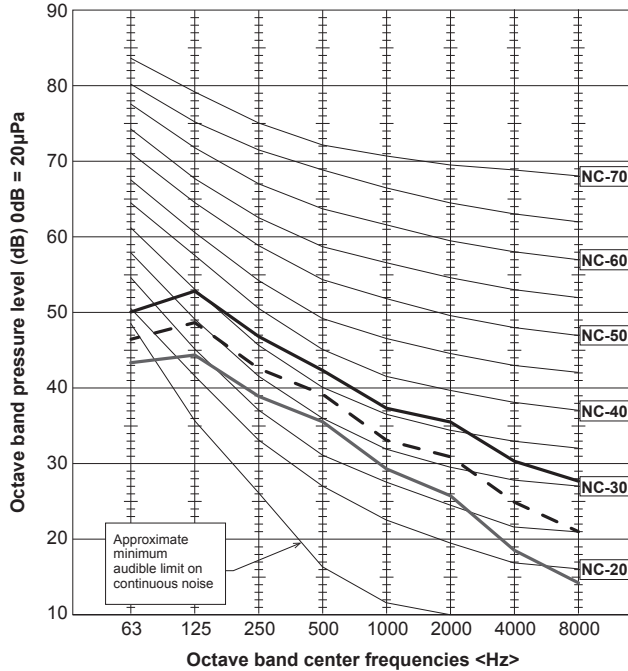
External Static Pressure: 125Pa



MVZ-A36AA4

Condition	A scale	LINE
High	45.0	—
Middle	41.0	- - -
Low	37.0	—

External Static Pressure: 200Pa



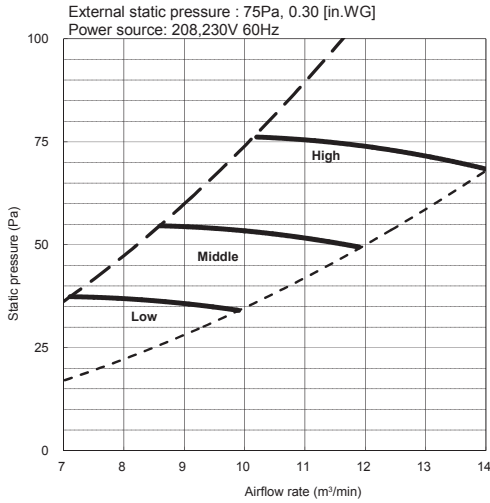
Due to continuing improvement, above specification may be subject to change without notice.

8. AIR FLOW DATA

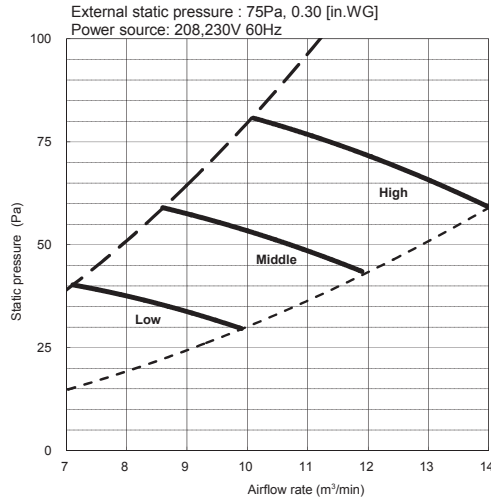
8-1. INDOOR UNIT

MVZ-A12AA4

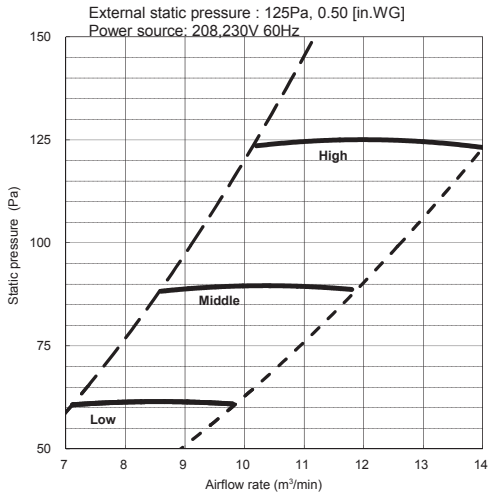
Vertical, Horizontal Right, Horizontal Left



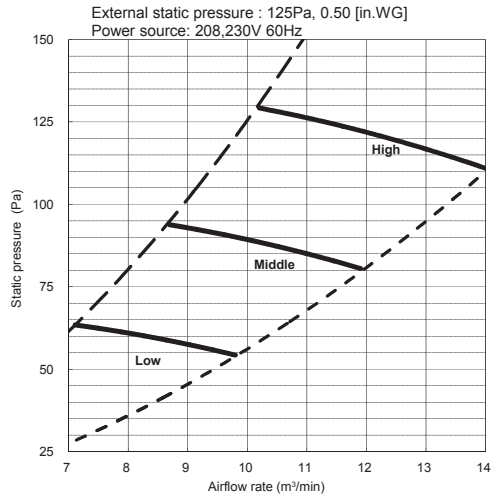
Down flow



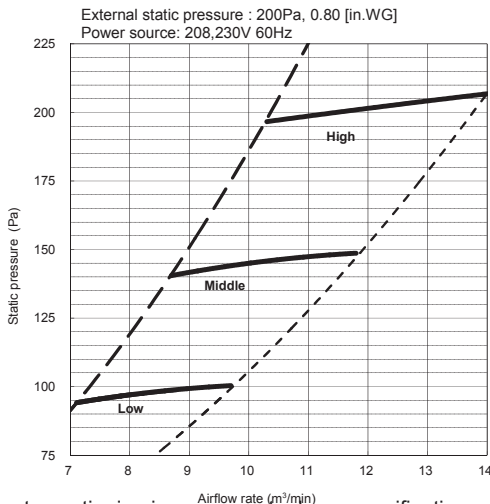
Vertical, Horizontal Right, Horizontal Left



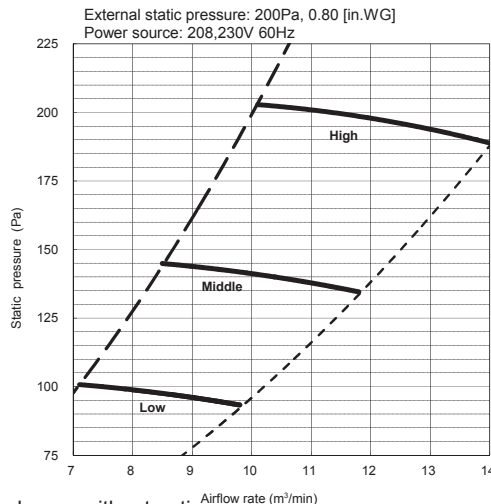
Down flow



Vertical, Horizontal Right, Horizontal Left



Down flow

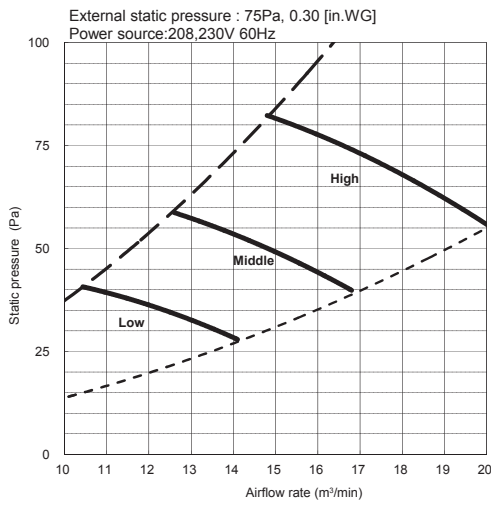


Due to continuing improvement, above specification may be subject to change without notice.

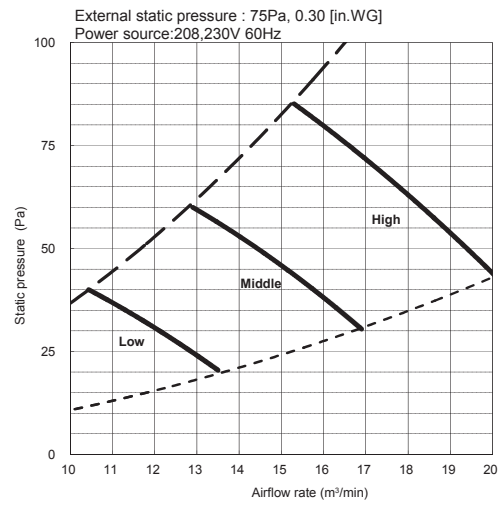
8. AIR FLOW DATA

MVZ-A18AA4

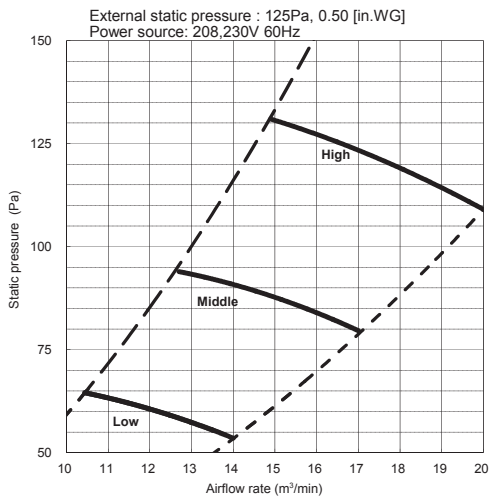
Vertical, Horizontal Right, Horizontal Left



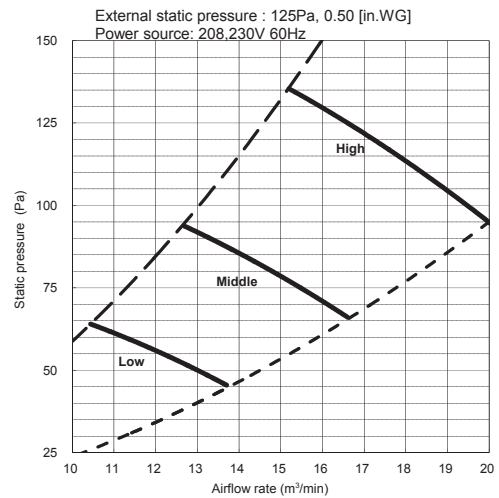
Down flow



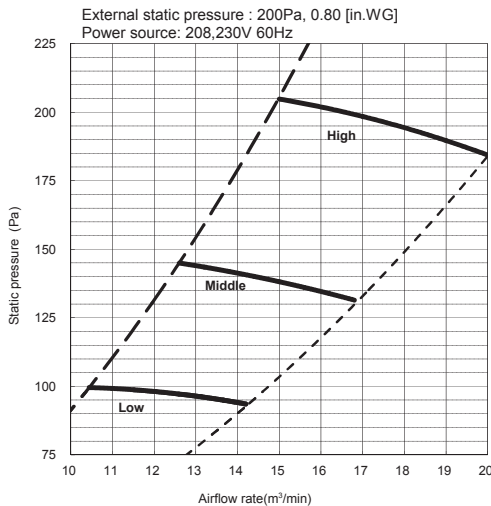
Vertical, Horizontal Right, Horizontal Left



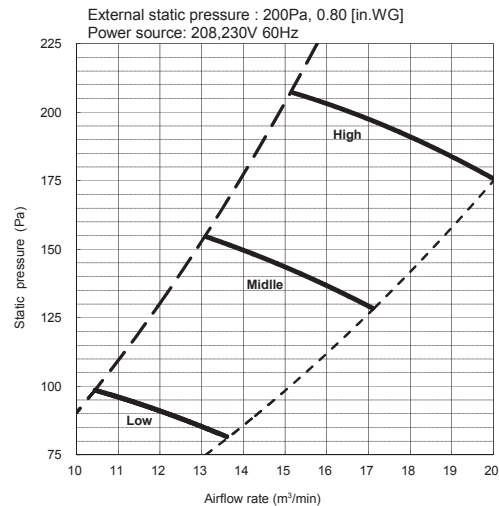
Down flow



Vertical, Horizontal Right, Horizontal Left



Down flow

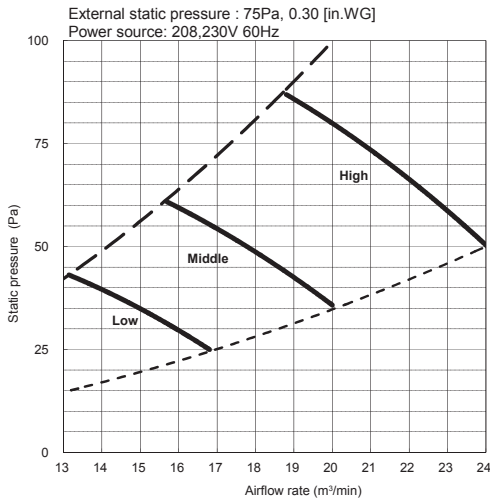


Due to continuing improvement, above specification may be subject to change without notice.

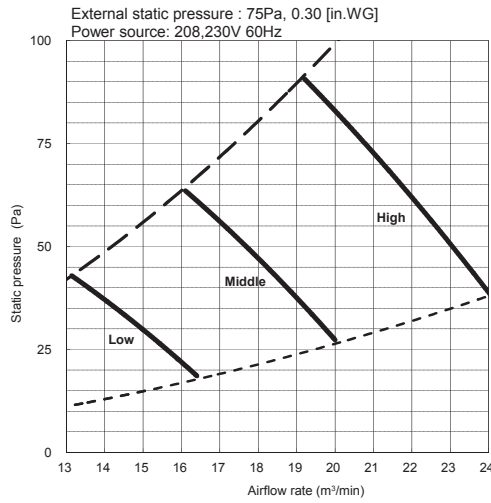
8. AIR FLOW DATA

MVZ-A24AA4

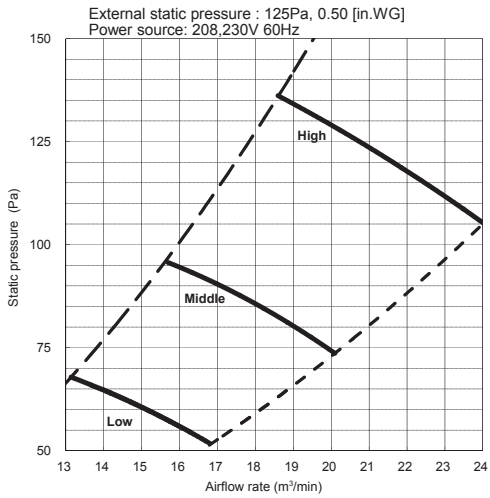
Vertical, Horizontal Right, Horizontal Left



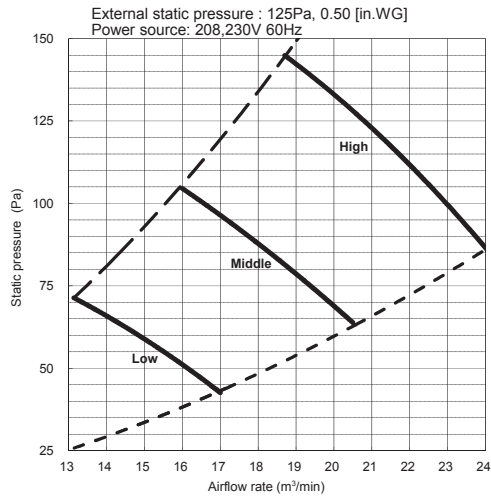
Down flow



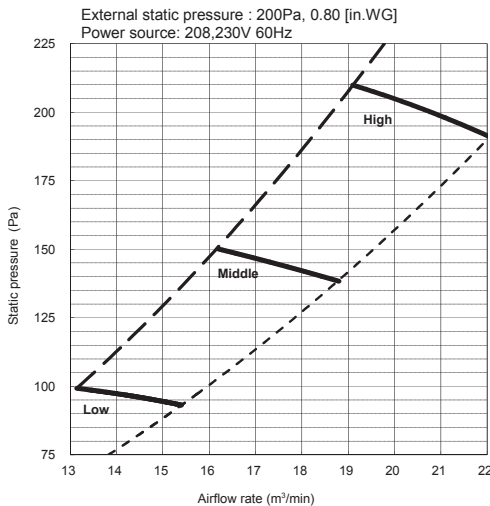
Vertical, Horizontal Right, Horizontal Left



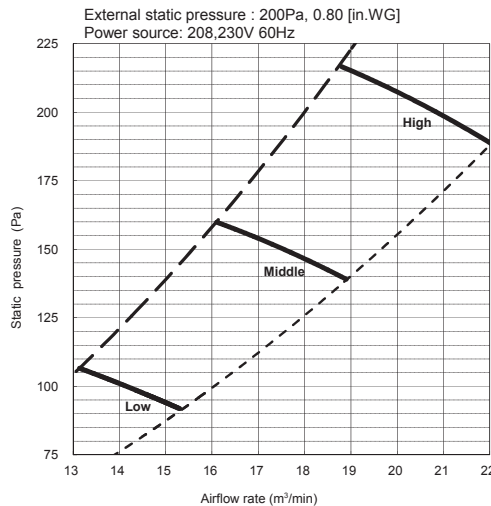
Down flow



Vertical, Horizontal Right, Horizontal Left



Down flow

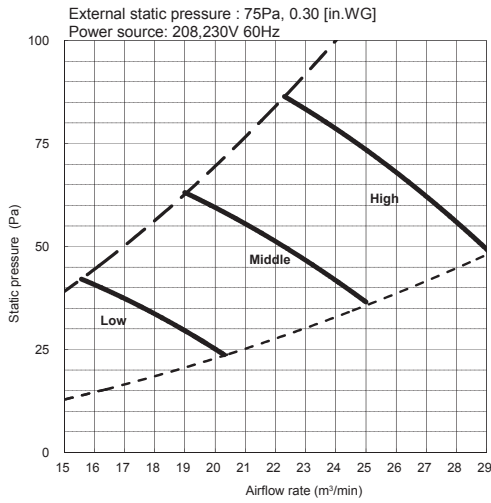


Due to continuing improvement, above specification may be subject to change without notice.

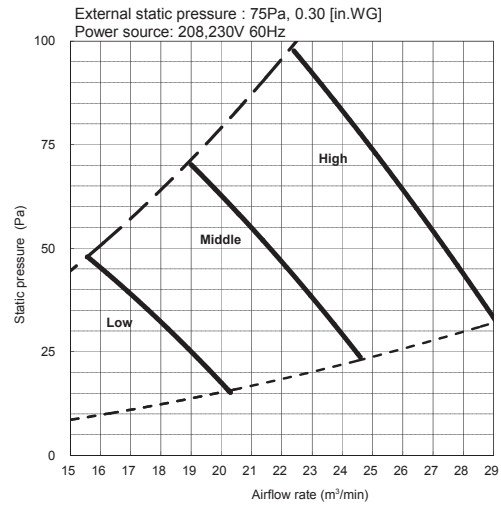
8. AIR FLOW DATA

MVZ-A30AA4

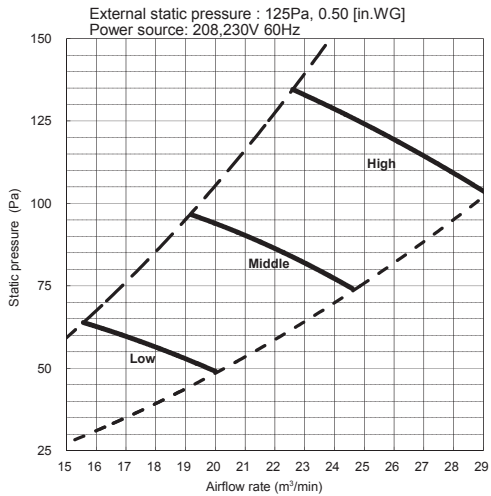
Vertical, Horizontal Right, Horizontal Left



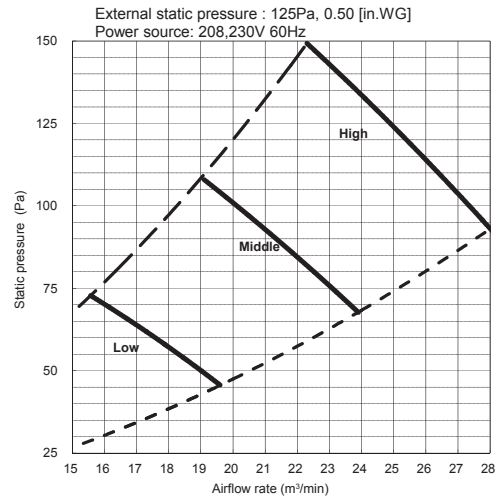
Down flow



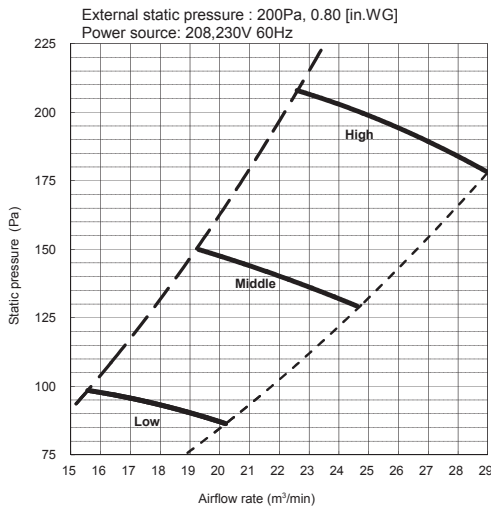
Vertical, Horizontal Right, Horizontal Left



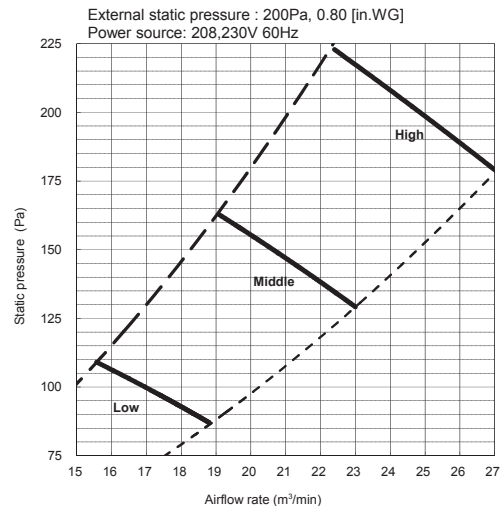
Down flow



Vertical, Horizontal Right, Horizontal Left



Down flow

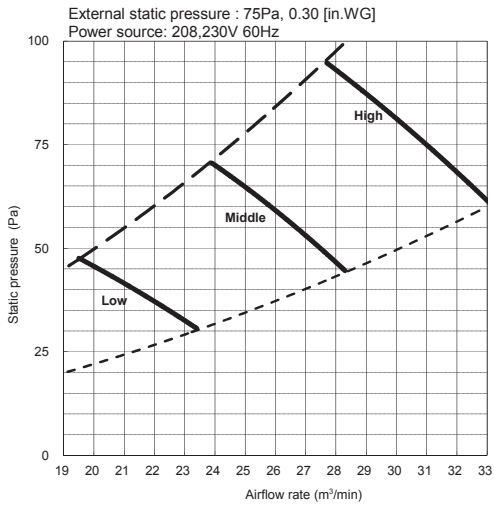


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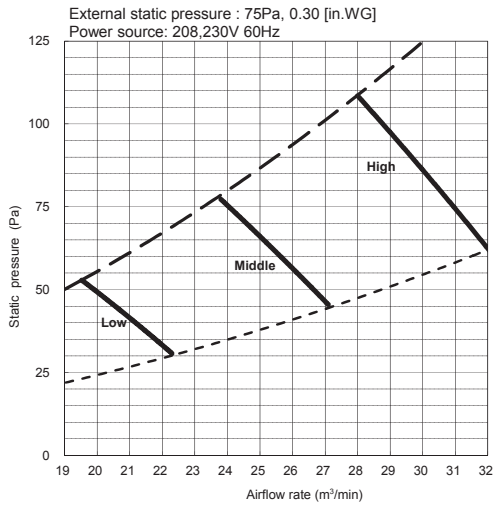
8. AIR FLOW DATA

MVZ-A36AA4

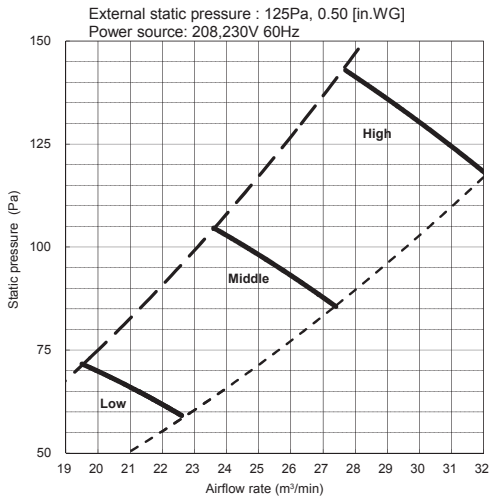
Vertical, Horizontal Right, Horizontal Left



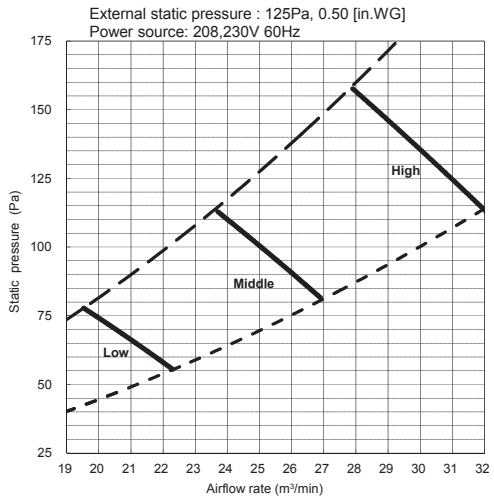
Down flow



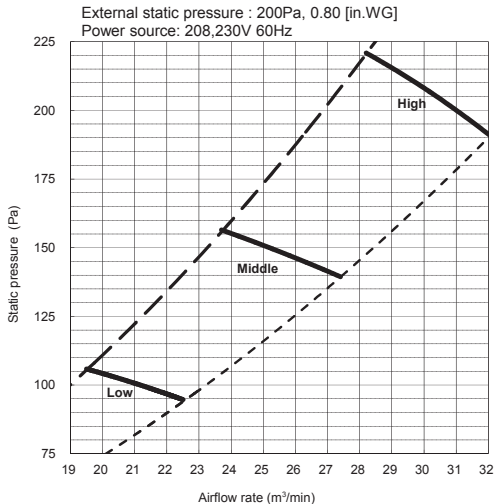
Vertical, Horizontal Right, Horizontal Left



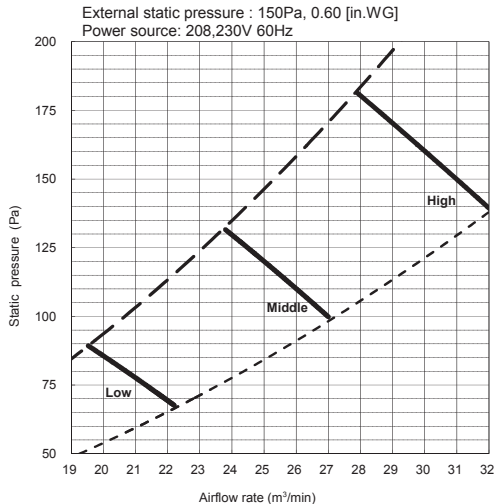
Down flow



Vertical, Horizontal Right, Horizontal Left



Down flow



Due to continuing improvement, above specification may be subject to change without notice.