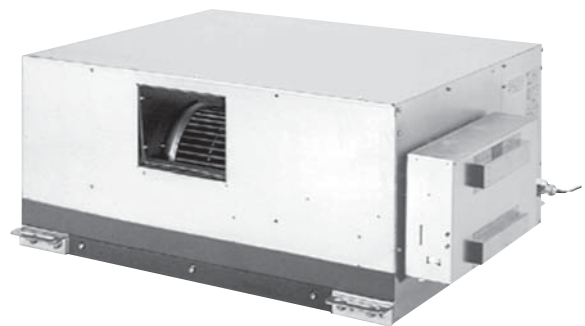


11-2-6. Concealed Duct High Static Pressure Type

Concealed Duct High Static Pressure Type

MMD-AP0184H-E / MMD-AP0244H-E
MMD-AP0274H-E / MMD-AP0364H-E
MMD-AP0484H-E / MMD-AP0724H-E
MMD-AP0964H-E



Contents

1. Specifications
2. Dimension
3. Wiring diagram
4. Center of Gravity
5. Electrical characteristics
6. Sensible capacity table
7. Fan characteristics
8. Sound characteristics (NC-Curve)
9. Accessories



1. Specifications

Concealed Duct High Static Pressure Type

Model name		MMD-	AP0184H-E	AP0244H-E	AP0274H-E	AP0364H-E	AP0484H-E	AP0724H-E	AP0964H-E	
Cooling/Heating capacity (Note 1)		(kW)	5.6/6.3	7.1/8.0	8.0/9.0	11.2/12.5	14.0/16.0	22.4/25.0	28.0/31.5	
Electrical characteristics	Power supply	1 phase 50Hz 230V (220 – 240V) (Separate power supply for indoor units is required.)								
	Running current	(A)	0.81	1.35	1.63	1.84	5.25	5.52		
	Power consumption	(kW)	0.184	0.299	0.368	0.414	1.200	1.260		
	Power factor	(%)	99	96	98	98	99	99		
	Starting current	(A)	1.3	3.5	4.1	4.8	13.6	14.8		
Appearance		Zinc hot dipping steel plate								
Outer dimension	Height x Width x Depth	(mm)	380 x 850 x 660			380 x 1,200 x 660		470 x 1,380 x 1,250		
Total weight		(kg)	50	52	56	67	150			
Heat exchanger		Finned tube								
Soundproof/Heat-insulating material		Non-flammable insulation								
Fan unit	Fan	Centrifugal fan								
	Standard air flow	(m ³ /h)	900	1,320	1,600	2,100	3,600	4,200		
	Motor output	(W)	160		260		370 x 3			
	External static pressure (Factory setting)	(Pa)	137							
	External static pressure	(Pa)	68.6-137-196							
	Air flow limit Lower limit/Upper limit	(m ³ /h)	720/1,080	1,060/1,580	1,280/1,920	1,680/2,520	2,880/4,320	3,360/5,040		
Air filter		Option or field supply								
Controller		Remote controller								
Connecting pipe	Gas side	(mm)	∅ 12.7	∅ 15.9			∅ 22.2			
	Liquid side	(mm)	∅ 6.4	∅ 9.5			∅ 12.7			
	Drain port (Nominal dia.)	(mm)	25 (One side of male screw)							
Sound pressure level(Note 2) (High/Mid./Low)		(dB(A))	37	40			49	50		

Note 1 : The cooling capacities and electrical characteristics are measured under the conditions specified by JIS B 8615 based on the reference piping. The reference piping consists of 5 m of main piping and 2.5 m of branch piping connected with 0 meter height.

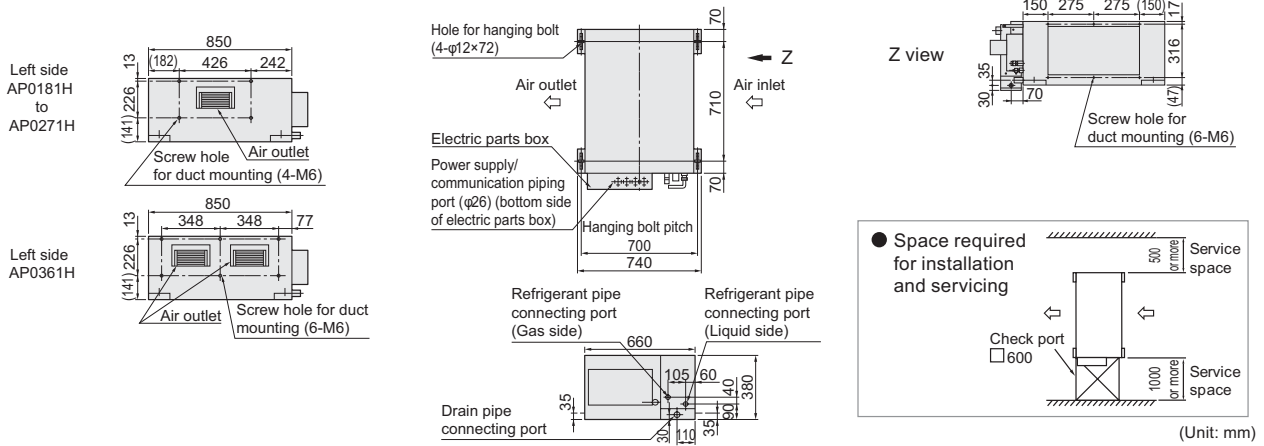
Note 2 : The sound levels are measured in an anechoic chamber in accordance with JIS B8616. Normally, the values measured in the actual operating environment become larger than the indicated values due to the effects of external sound.

Note : Rated conditions Cooling : Indoor air temperature 27 °C DB/19°C WB, Outdoor air temperature 35 °C DB
Heating : Indoor air temperature 20°C DB, Outdoor air temperature 7 °C DB/6°C WB

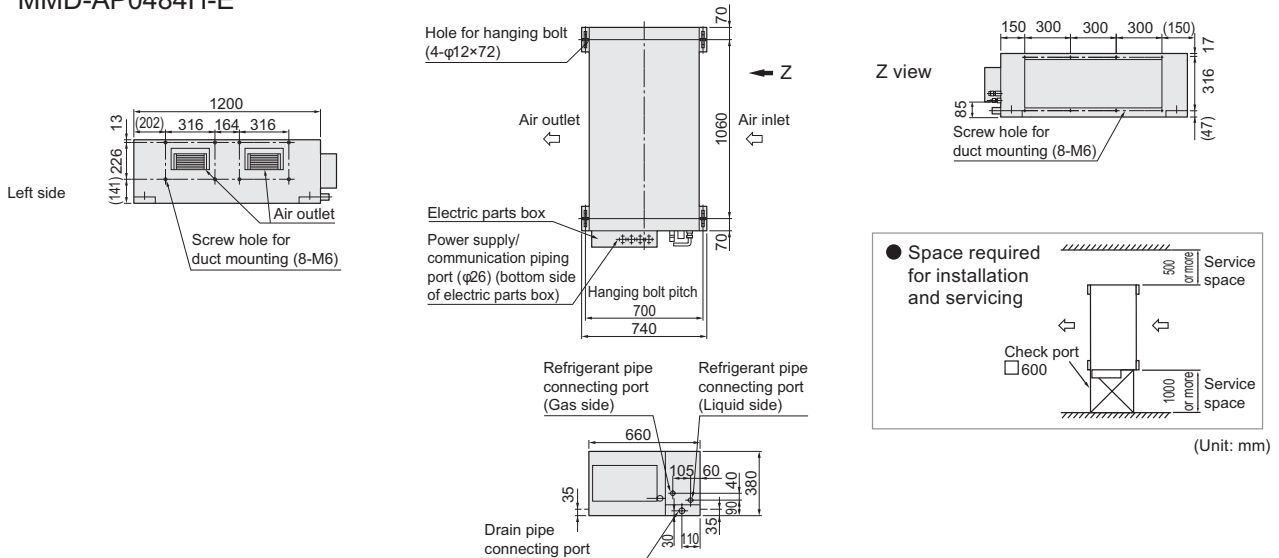


2. Dimension

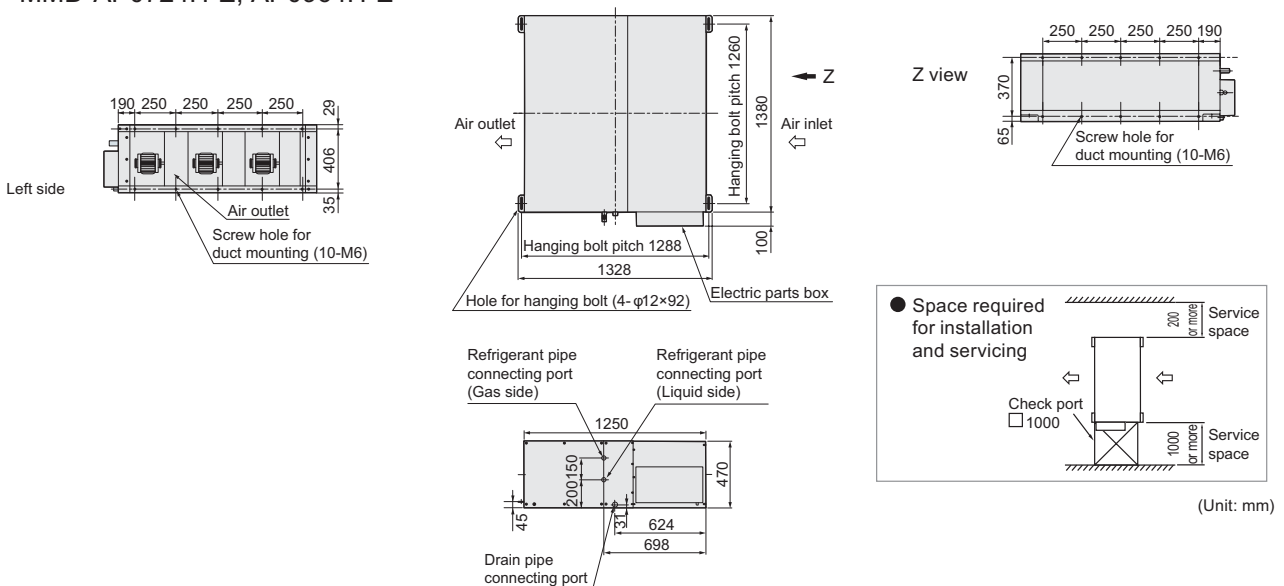
MMD-AP0184H-E, AP0244H-E, AP0274H-E, AP0364H-E



MMD-AP0484H-E



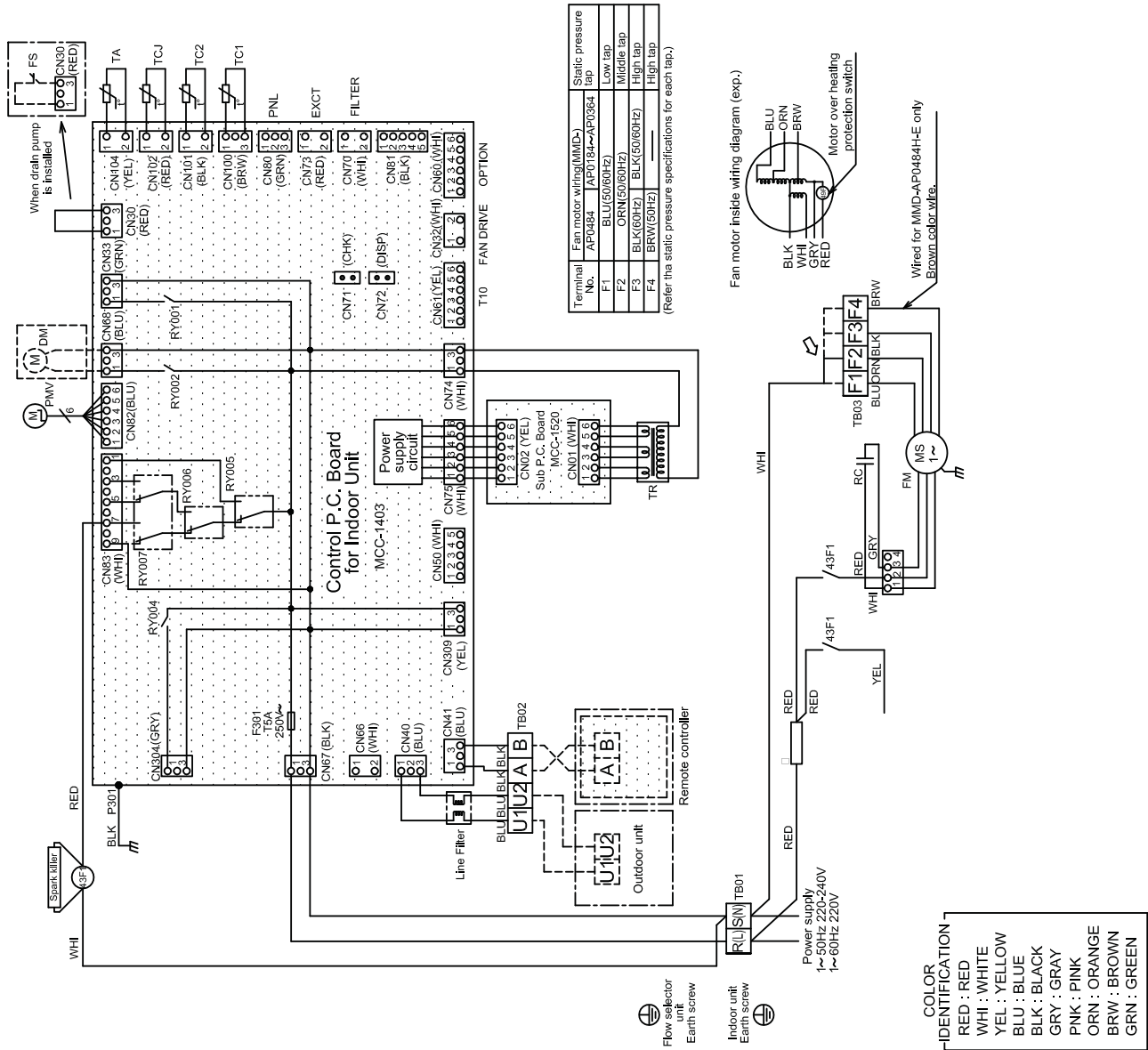
MMD-AP0724H-E, AP0964H-E





3. Wiring diagram

MMD-AP0184H-E, AP0244H-E, AP0274H-E, AP0364H-E, AP0484H-E



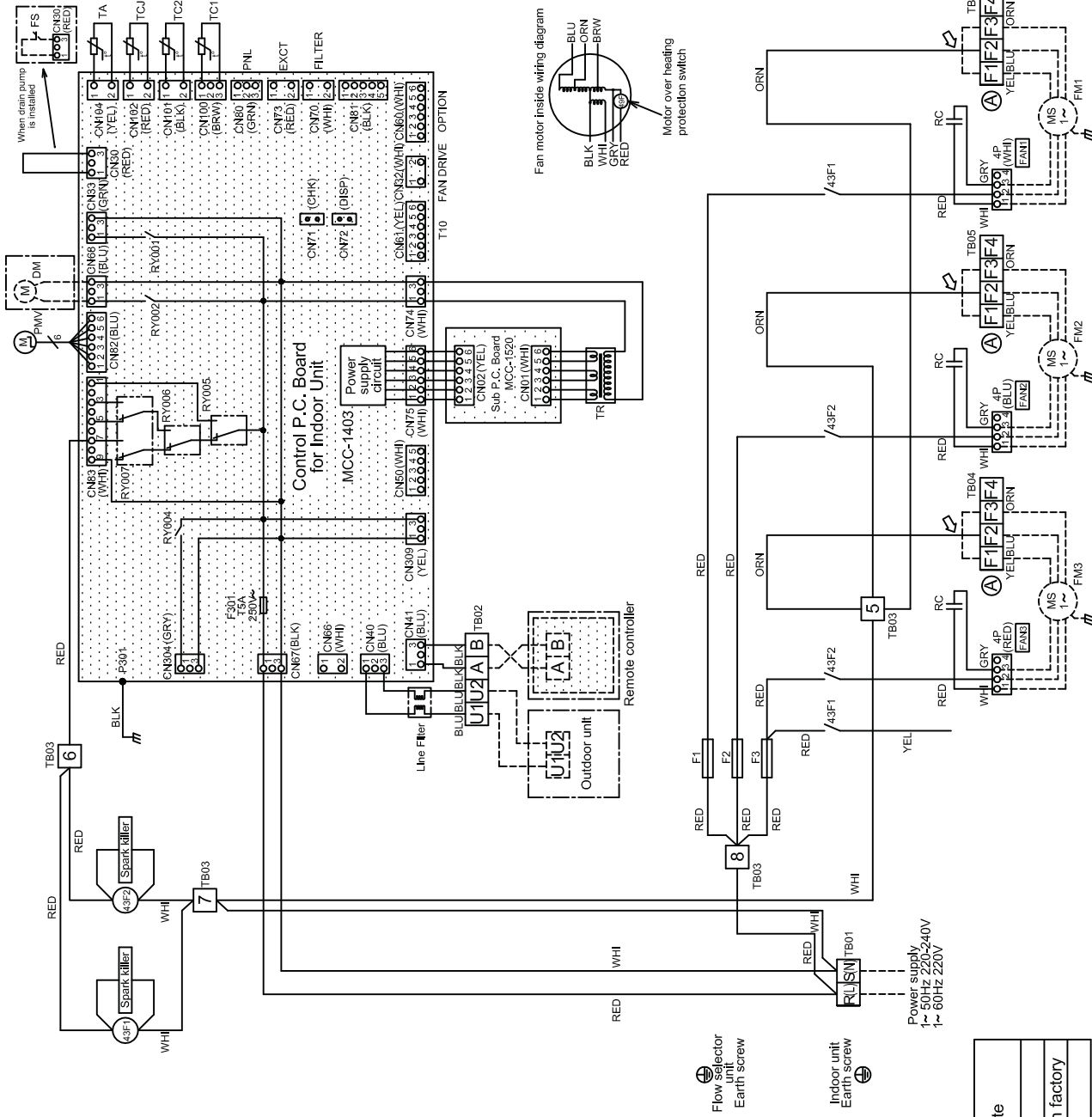
Symbol	Parts Name
43F1, F2	Fan motor Control Relay
CN**	Connector
F	Fuse
F301	Fuse
FM	Fan Motor
PMV	Pulse Motor Valve
RC	Running Capacitor
RY002	Drain Control Relay
RY005,006,007	Fan Motor Control Relay
TA	Indoor temp sensor
TB01,02,03	Terminal Block
TC1,TC2,TCJ	Temp sensor
TR	Transformer
DM	Drain Pump Motor
FS	Float Switch

Sold Separately

1. Broken line indicate the wiring at site. Long dashed short dashed line indicate the accessories.
2. indicates the terminal block.
3. indicates the connector on the control P.C. board.
4. indicates the protection ground.
5. When installing the drain pump connect the float switch connector to CN30 connector.
6. position is connected to terminal block when change to static pressure. exchange the lead wire of arrow(↔) position after check the terminal number as figure and lead wire's color of fan motor.
7. Be careful when modify the static pressure, the static pressure of high tap is different by 50Hz or 60Hz.



AP0724H-E, AP0964H-E



Symbol	Parts Name
43F1, F2	Fan motor Control Relay
CN**	Connector
F1, 2, 3	Fuse for Fan Motor
F301	Fuse
FM	Fan Motor
PMV	Pulse Motor Valve
RC	Running Capacitor
RY002	Drain Control Relay
RY005, 006, 007	Fan Motor Control Relay
TA	Indoor temp sensor
TB01, 02, 03	Terminal Block
TC1, TC2, TC3	Temp sensor
TR	Transformer
DM	Drain Pump Motor
FS	Float Switch

COLOR IDENTIFICATION	
RED	: RED
GRY	: GRAY
WHI	: WHITE
PNK	: PINK
YEL	: YELLOW
ORN	: ORANGE
BLU	: BLUE
BRW	: BROWN
BLK	: BLACK
GRN	: GREEN

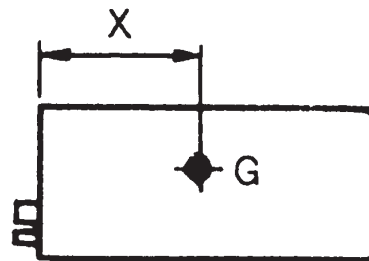
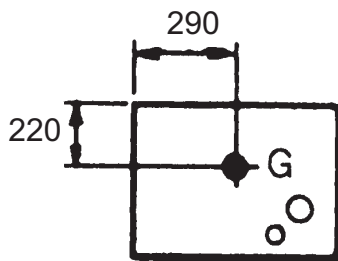
- Broken line indicate the wiring at site. Long dashed short dashed line indicate the accessories.
- Indicates the terminal block.
- Indicates the connection terminal.
- Indicates the connector on the control P.C. board.
- Indicates the protection ground.
- When installing the drain pump connect the front switch connector to CN30 connector.
- Position is connected to terminal block when change to static pressure. exchange the lead wire of arrow (↔) position after check the terminal number as figure and lead wire's color of fan motor.
- Be careful when modify the static pressure, the static pressure of high tap is different by 50Hz or 60Hz.



Terminal No.	Fan motor wiring	Static pressure Pa(mmAq)	Note
F1	YEL	69(7)	
F2	BLU	137(14)	Setting from factory
F3	ORN	196(20)	

4. Center of gravity

Model name	X (mm)	Total weight(kg)
MMD-AP0184H-E	520	50
MMD-AP0244H-E		52
MMD-AP0274H-E		52
MMD-AP0364H-E	400	56
MMD-AP0484H-E	565	67
MML-AP0724H-E	660	150
MML-AP0964H-E		150



Y=540, Z=205(mm)

5. Electrical characteristics

Type	Model	Nominal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
			Min	Max	kW	FLA	MCA	MOCP
Concealed Duct High Static Pressure Type	MMD-AP0184H-E	230-1-50	198	264	0.160	0.93	1.16	15
	MMD-AP0244H-E	230-1-50	198	264	0.160	1.55	1.94	15
	MMD-AP0274H-E	230-1-50	198	264	0.160	1.55	1.94	15
	MMD-AP0364H-E	230-1-50	198	264	0.260	1.87	2.34	15
	MMD-AP0484H-E	230-1-50	198	264	0.260	2.12	2.65	15
	MMD-AP0724H-E	230-1-50	198	264	0.370 x 3	6.04	7.55	15
	MMD-AP0964H-E	230-1-50	198	264	0.370 x 3	6.35	7.94	15

MCA : Minimum Circuit Amps

FLA : Full Load Amps

MOCP : Maximum Overcurrent Protection (Amps)



6. Sensible capacity table

Concealed Duct High Static Pressure Type (MMD-AP*4H-E)**

TC : Total capacity [kW] SHC : Sensible capacity [kW]

unit size	outdoor air temp. °CDB	indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°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
018	10.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	12.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	14.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	16.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	18.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	20.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	21.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	23.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	25.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	27.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	29.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	31.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
	33.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9
35.0	4.6	3.6	5.1	3.8	5.4	4.0	5.6	4.0	5.8	4.0	6.1	4.0	6.4	3.9	
37.0	4.5	3.5	4.9	3.7	5.3	3.9	5.4	3.9	5.6	3.9	5.9	3.9	6.2	3.8	
39.0	4.3	3.4	4.8	3.6	5.1	3.8	5.3	3.8	5.4	3.8	5.7	3.8	6.0	3.7	
024	10.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	12.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	14.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	16.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	18.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	20.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	21.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	23.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	25.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	27.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	29.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	31.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
	33.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8
35.0	5.8	4.4	6.4	4.7	6.9	5.0	7.1	5.0	7.3	5.0	7.7	5.0	8.1	4.8	
37.0	5.6	4.3	6.2	4.6	6.7	4.9	6.9	4.8	7.1	4.8	7.5	4.8	7.8	4.7	
39.0	5.5	4.2	6.1	4.4	6.5	4.7	6.7	4.7	6.9	4.7	7.3	4.7	7.6	4.6	
027	10.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	12.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	14.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	16.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	18.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	20.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	21.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	23.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	25.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	27.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	29.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	31.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
	33.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2
35.0	6.6	4.8	7.3	5.1	7.8	5.4	8.0	5.4	8.2	5.4	8.7	5.3	9.1	5.2	
37.0	6.4	4.6	7.0	4.9	7.5	5.2	7.7	5.2	8.0	5.2	8.4	5.2	8.8	5.1	
39.0	6.2	4.5	6.8	4.8	7.3	5.1	7.5	5.1	7.8	5.1	8.2	5.0	8.6	4.9	
036	10.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	12.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	14.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	16.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	18.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	20.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	21.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	23.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	25.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	27.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	29.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	31.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
	33.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5
35.0	9.2	6.9	10.2	7.4	10.9	7.8	11.2	7.8	11.5	7.8	12.2	7.7	12.8	7.5	
37.0	8.9	6.7	9.8	7.1	10.5	7.6	10.8	7.6	11.2	7.5	11.8	7.5	12.4	7.3	
39.0	8.7	6.5	9.6	6.9	10.2	7.4	10.5	7.3	10.9	7.3	11.5	7.3	12.0	7.1	



Concealed Duct High Static Pressure Type (MMD-AP*4H-E)**

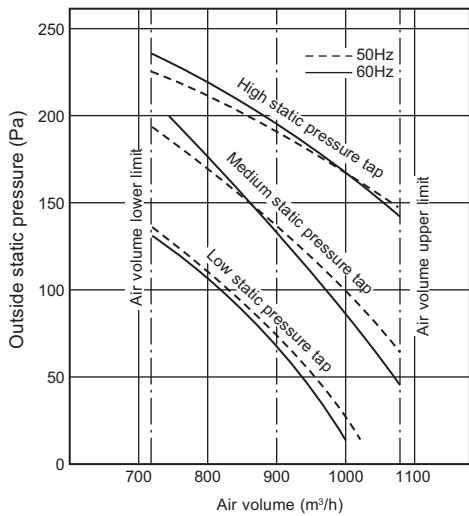
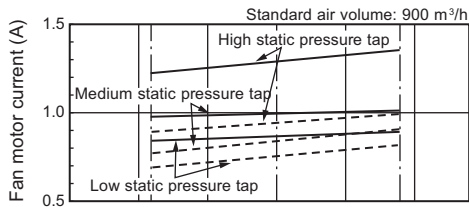
TC : Total capacity [kW] SHC : Sensible capacity [kW]

unit size	outdoor air temp. °CDB	indoor air temp.													
		14.0°CWB		16.0°CWB		18.0°CWB		19.0°CWB		20.0°CWB		22.0°CWB		24.0°CWB	
		20°CDB	23°CDB	26°CDB	27°CDB	28°CDB	30°CDB	32°CDB	TC	SHC	TC	SHC	TC	SHC	TC
048	10.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	12.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	14.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	16.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	18.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	20.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	21.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	23.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	25.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	27.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	29.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	31.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	33.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
	35.0	11.5	8.4	12.7	9.0	13.6	9.5	14.0	9.5	14.4	9.5	15.3	9.4	16.0	9.2
37.0	11.1	8.2	12.3	8.7	13.1	9.2	13.6	9.2	14.0	9.2	14.8	9.1	15.4	8.9	
39.0	10.8	7.9	12.0	8.4	12.8	9.0	13.2	8.9	13.6	8.9	14.4	8.9	15.0	8.7	
072	10.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	12.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	14.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	16.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	18.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	20.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	21.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	23.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	25.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	27.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	29.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	31.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	33.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
	35.0	18.4	13.2	20.3	14.1	21.7	14.9	22.4	14.9	23.1	14.9	24.4	14.8	25.5	14.4
37.0	17.8	12.8	19.7	13.6	21.0	14.5	21.7	14.4	22.3	14.4	23.6	14.3	24.7	14.0	
39.0	17.3	12.4	19.1	13.2	20.4	14.1	21.1	14.0	21.7	14.0	23.0	13.9	24.0	13.6	
096	10.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	12.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	14.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	16.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	18.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	20.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	21.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	23.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	25.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	27.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	29.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	31.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	33.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
	35.0	23.0	16.2	25.4	17.3	27.2	18.4	28.0	18.3	28.8	18.3	30.5	18.1	31.9	17.7
37.0	22.3	15.7	24.6	16.7	26.3	17.8	18.3	17.7	27.9	17.7	29.5	17.6	30.9	17.1	
39.0	21.6	15.3	23.9	16.3	25.6	17.3	18.3	17.2	27.1	17.2	28.7	17.1	30.0	16.7	

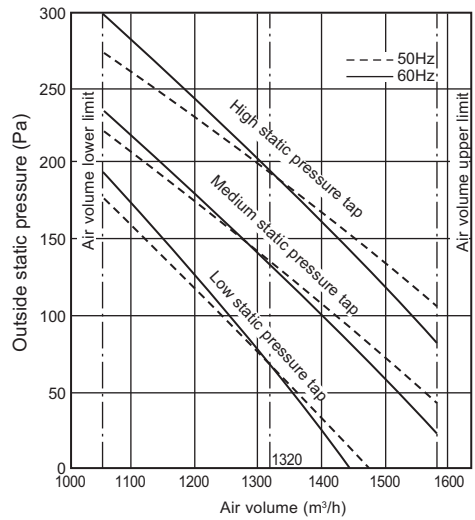
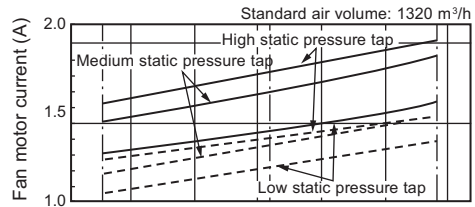


7. Fan characteristic

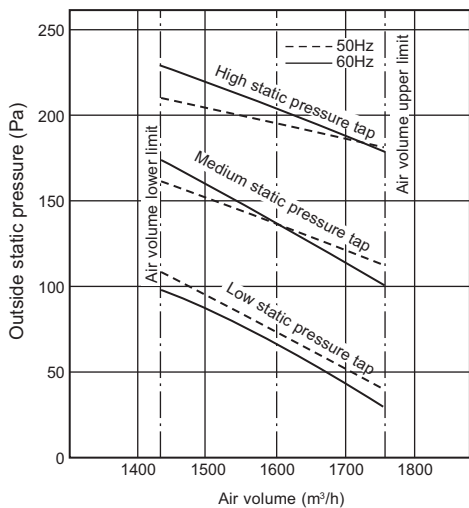
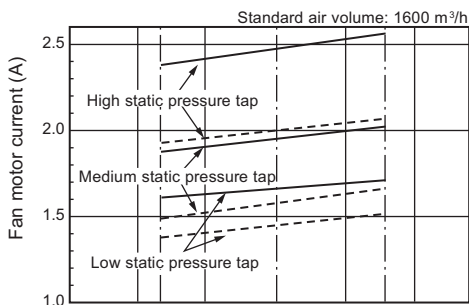
MMD-AP0184H-E



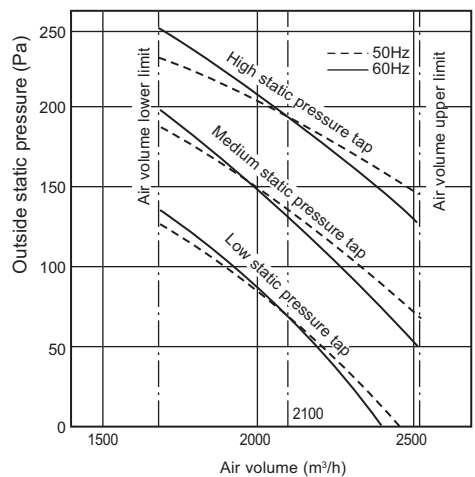
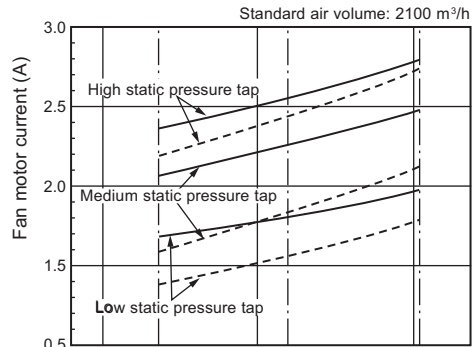
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MMD-AP0364H-E

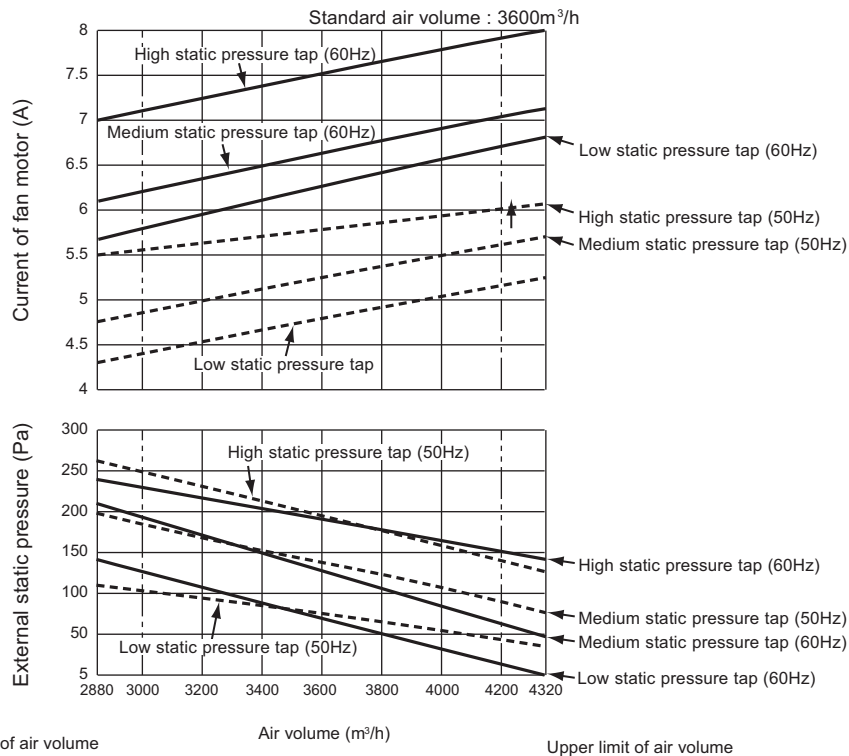


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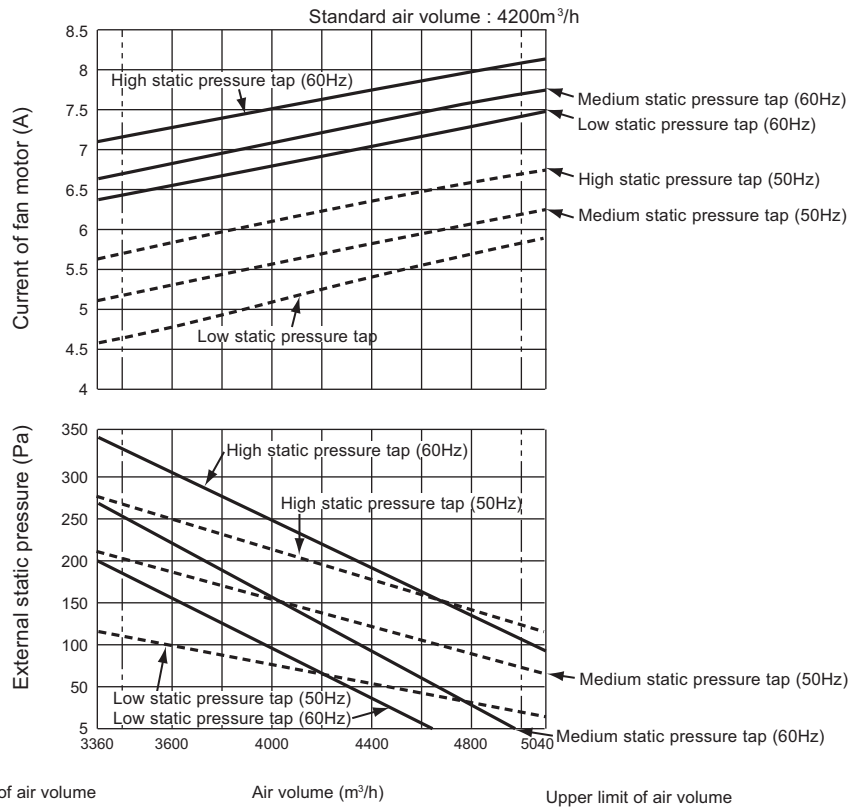




MMD-AP0724H-E



MMD-AP0964H-E

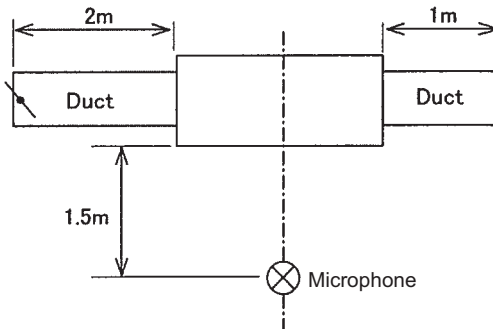


REQUIREMENT

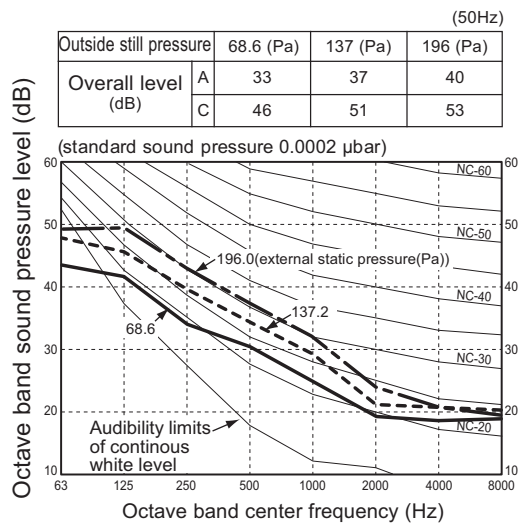
Add a air volume damper to the supplied air duct, and adjust the air volume from 80% to 120% of the standard air volume.

8. Sound level data (NC CURVE)

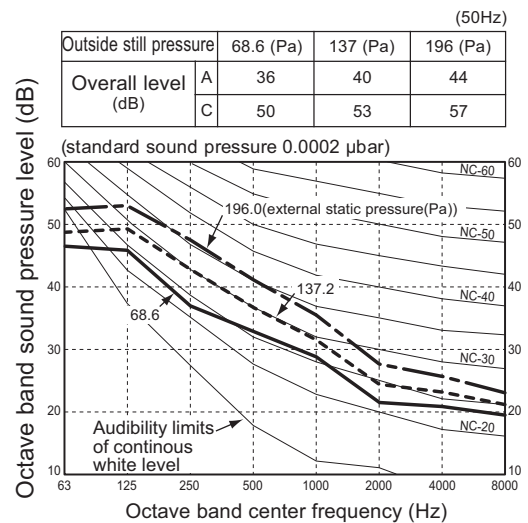
Sound level values shown are based on a measurement in a non resonant room.



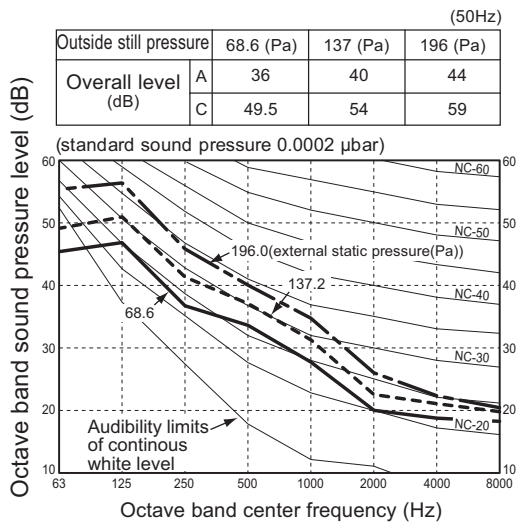
MMD-AP0184H-E



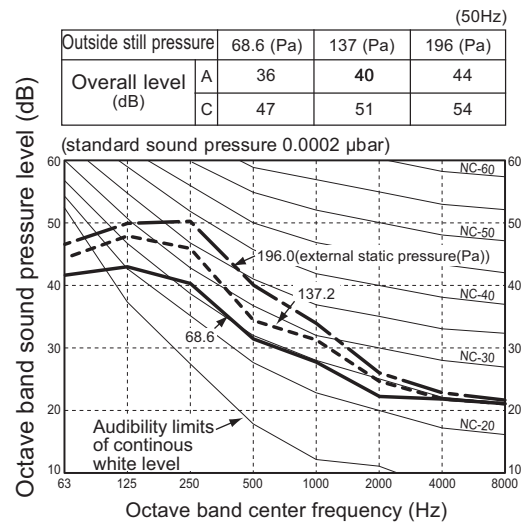
MMD-AP0244H-E, AP0274H-E



MMD-AP0364H-E

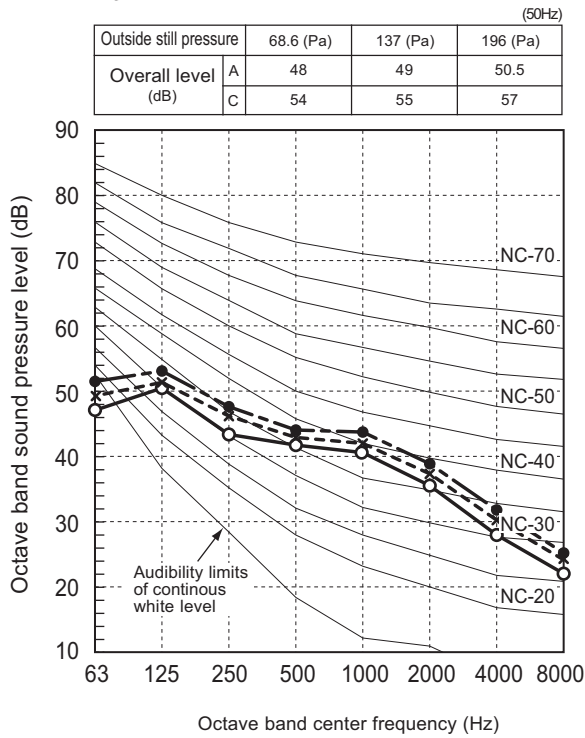


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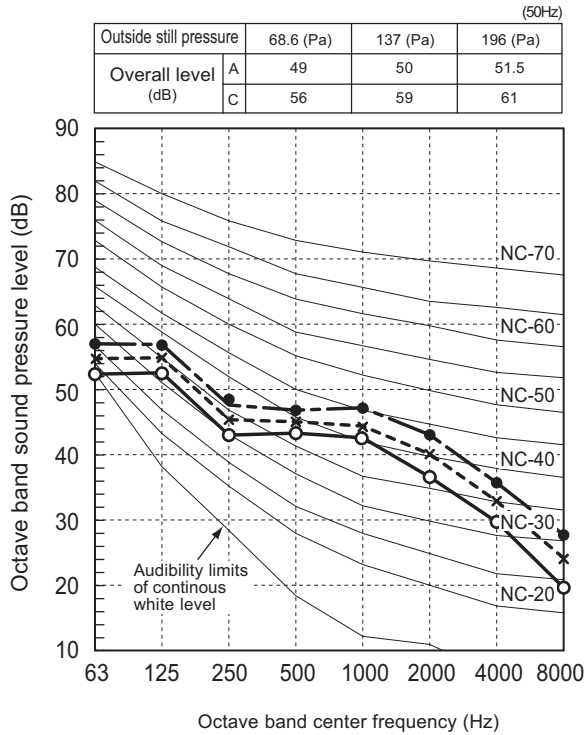




MMD-AP0724H-E



MMD-AP0964H-E





9. Accessories

Parts name	Model name	Applied model	Note	Remarks
High-efficiency filter 65	TCB-UFM1D-1E	MMD-AP0184H-E	Dust collecting effect: 65% (NBS Colorimetric method)	Use with TCB-FCY21DE
	TCB-UFM2D-1E (2 pcs.)	MMD-AP0244/0274/0364H-E		Use with TCB-FCY31DE
	TCB-UFM1D-1E (2 pcs.)	MMD-AP0484H-E		Use with TCB-FCY51DE
	TCB-UFM3DE	MMD-AP0724/0964H-E		Use with TCB-FCY100DE
High-efficiency filter 90	TCB-UFH5D-1E	MMD-AP0184H-E	Dust collecting effect: 90% (NBS Colorimetric method)	Use with TCB-FCY21DE
	TCB-UFH6D-1E (2 pcs.)	MMD-AP0244/0274/0364H-E		Use with TCB-FCY31DE
	TCB-UFH5D-1E (2 pcs.)	MMD-AP0484H-E		Use with TCB-FCY51DE
	TCB-UFH7DE	MMD-AP0724/0964H-E		Use with TCB-FCY100DE
Long life prefilter	TCB-PF1D-1E	MMD-AP0184H-E	Dust collecting effect: 50% (Weight method)	Use with TCB-FCY21DE
	TCB-PF2D-1E (2 pcs.)	MMD-AP0244/0274/0364H-E		Use with TCB-FCY31DE
	TCB-PF1D-1E (2 pcs.)	MMD-AP0484H-E		Use with TCB-FCY51DE
	TCB-PF3DE	MMD-AP0724/0964H-E		Use with TCB-FCY100DE
Filter chamber	TCB-FCY21DE	MMD-AP0184H-E	For high-efficiency filter or long life prefilter	
	TCB-FCY31DE	MMD-AP0244/0274/0364H-E		
	TCB-FCY51DE	MMD-AP0484H-E		
	TCB-FCY100DE	MMD-AP0724/0964H-E		
Drain pump kit	TCB-DP31DE	MMD-AP0184H-E to 0484H-E	Stand-up 330 or less (from bottom face of ceiling)	
	TCB-DP32DE	MMD-AP0724/0964H-E		

