TOSHIBA

Leading Innovation

E15-005-4

Model name:

MMY-MAP_6HT8P-E

SMMS

SUPER MODULAR MULTI SYSTEM

Engineering Data Book

< Full version >

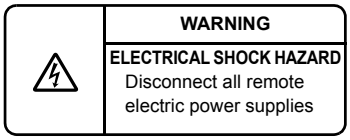
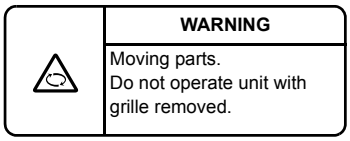
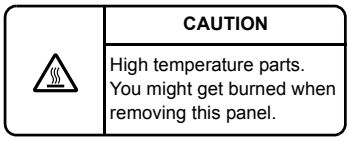
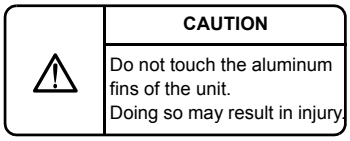
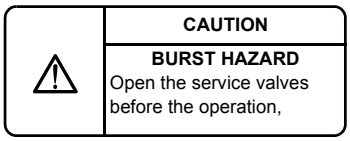
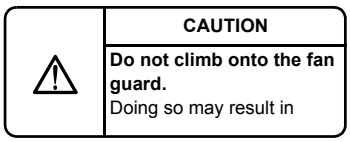
Notice: Toshiba is committed to continuously improving its products to ensure the highest quality and reliability standards, and to meet local regulations and market requirements. All features and specifications are subject to change without prior notice.

Contents

Safety caution

- **Before use, read carefully through the "Safety caution" section to ensure correct operation.**
- **The important contents concerned to the safety are described in the "Safety cautions". Be sure to keep them. For Indications and their meanings, see the following description.**

Warning Indications on the Air Conditioner Unit

Warning indication	Description
	**WARNING** **ELECTRICAL SHOCK HAZARD** Disconnect all remote electric power supplies before servicing.
	**WARNING** Moving parts. Do not operate unit with grille removed. Stop the unit before the servicing.
	**CAUTION** High temperature parts. You might get burned when removing this panel.
	**CAUTION** Do not touch the aluminium fins of the unit. Doing so may result in injury.
	**CAUTION** **BURST HAZARD** Open the service valves before the operation, otherwise there might be the burst.
	**CAUTION** **Do not climb onto the fan guard.** Doing so may result in injury.

Explanation of indications

⚠ WARNING

Indicates possibilities that a death or serious injury of personnel is caused by an incorrect handling.

⚠ CAUTION

Indicates contents that an injury (*1) or property damage (*2) only may be caused when an incorrect work has been executed.

*1: "Injury" means a hurt, a burn, or an electric shock which does not require hospitalization or a long-term going to the hospital.
*2: "Property damage means an enlarged damage concerned to property, or breakage of materials.

- **After installation work has finished, check there is no trouble by a test operation, and explain using method and maintenance method to the customers based on the Owner's Manual.**
  Please ask the customers to keep this Installation Manual together with the Owner's Manual.

⚠ WARNING

Ask a shop or a professional dealer to install the air conditioner.
If you will install by yourself, a fire, an electric shock, or water leak is caused.

Take measures so that the refrigerant does not exceed the limit concentration even if it leaks when installing the air conditioner in a small room.
For the measures not to exceed the limit of concentration, contact the dealer. If the refrigerant leaks and it exceeds the limit of concentration, an accident of oxygen shortage is caused.

Install the air conditioner at a place which is satisfactorily bearable to weight.
If strength is insufficient, the unit may fall down resulting in human injury.

Perform a specified installation work against a strong wind such as typhoon or earthquake.
If the air conditioner is imperfectly installed, an accident by falling or dropping may be caused.

If refrigerant gas leaks during installation work, ventilate the room.
If the leaked refrigerant gas approaches to fire, noxious gas may generate.

After installation work, confirm that refrigerant gas does not leak.
If refrigerant gas leaks in the room, and approaches to fire such as fan heater, stove or kitchen range, generation of noxious gas may be caused.

Never recover refrigerant in the outdoor unit.
Be sure to use a refrigerant recovery device to recover refrigerant in reinstallation or repair work.
Recovery of refrigerant in the outdoor unit is unavailable; otherwise a serious accident such as crack or human injury is caused.

A person qualified for the electric work should deal with the electric construction conforming to the regulations of the local electric company and the Installation Manual. Be sure to use the exclusive circuit.
If there is capacity shortage of the power supply circuit or incomplete installation, a fire or an electric shock is caused.

For cabling, use the specified cables and connect them securely so that external force of cable does not transmit to the terminal connecting section.
If connection or fixing is incomplete, a fire, etc. may be caused.

Be sure to connect earth wire.
Do not connect earth wire to gas pipe, water pipe, lightning rod, nor earth wire of telephone.
If grounding is incomplete, an electric shock is caused.

⚠ CAUTION

Do not install the air conditioner at a place where combustible gas may leak.
If gas leaks and is collected at surrounding the unit, the production of fire may be caused.

Be sure to attach an earth leakage breaker; otherwise an electric shock may be caused.

Using a torque wrench, tighten the flare nut in the specified method.
If the flare nut is exceedingly tightened, the flare nut is broken and a refrigerant leakage may be caused after a long time has passed.

WARNINGS ON REFRIGERANT LEAKAGE

Check of Concentration Limit

The room in which the air conditioner is to be installed requires a design that in the event of refrigerant gas leaking out, its concentration will not exceed a set limit.

The refrigerant R410A which is used in the air conditioner is safe, without the toxicity or combustibility of ammonia, and is not restricted by laws to be imposed which protect the ozone layer. However, since it contains more than air, it poses the risk of suffocation if its concentration should rise excessively.

Suffocation from leakage of R410A is almost nonexistent. With the recent increase in the number of high concentration buildings, however, the installation of multi air conditioner systems is on the increase because of the need for effective use of floor space, individual control, energy conservation by curtailing heat and carrying power etc.

Most importantly, the multi air conditioner system is able to replenish a large amount of refrigerant compared with conventional individual air conditioners. If a single unit of the multi conditioner system is to be installed in a small room, select a suitable model and installation procedure so that if the refrigerant accidentally leaks out, its concentration does not reach the limit (and in the event of an emergency, measures can be made before injury can occur).

In a room where the concentration may exceed the limit, create an opening with adjacent rooms, or install mechanical ventilation combined with a gas leak detection device.

The concentration is as given below.

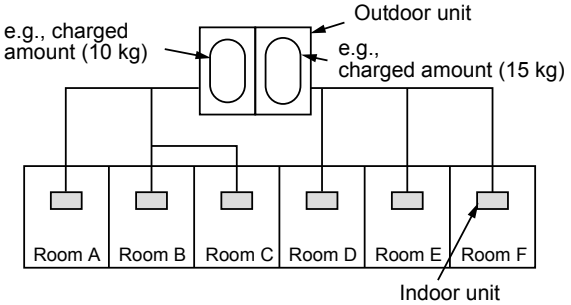
$$\frac{\text{Total amount of refrigerant (kg)}}{\text{Min. volume of the indoor unit installed room (m}^3\text{)}} \leq \text{Concentration limit (kg/m}^3\text{)}$$

Concentration limit

Compliance to the local applicable regulations and standards for the concentration limit is required.

NOTE 1:

If there are 2 or more refrigerating systems in a single refrigerating device, the amounts of refrigerant should be as charged in each independent device.



For the amount of charge in this example:

The possible amount of leaked refrigerant gas in rooms A, B and C is 10 kg.

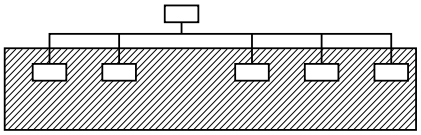
The possible amount of leaked refrigerant gas in rooms D, E and F is 15 kg.

Important

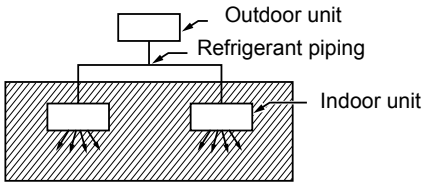
NOTE 2:

The standards for minimum room volume are as follows.

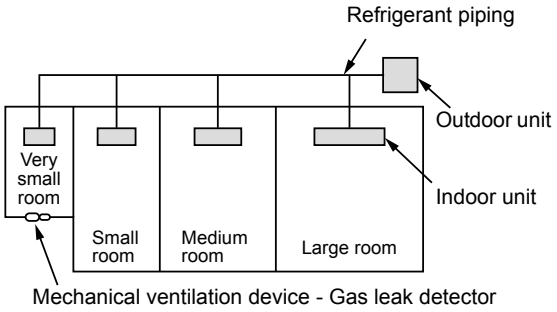
(1) No partition (shaded portion)



(2) When there is an effective opening with the adjacent room for ventilation of leaking refrigerant gas (opening without a door, or an opening 0.15 % or larger than the respective floor spaces at the top or bottom of the door).

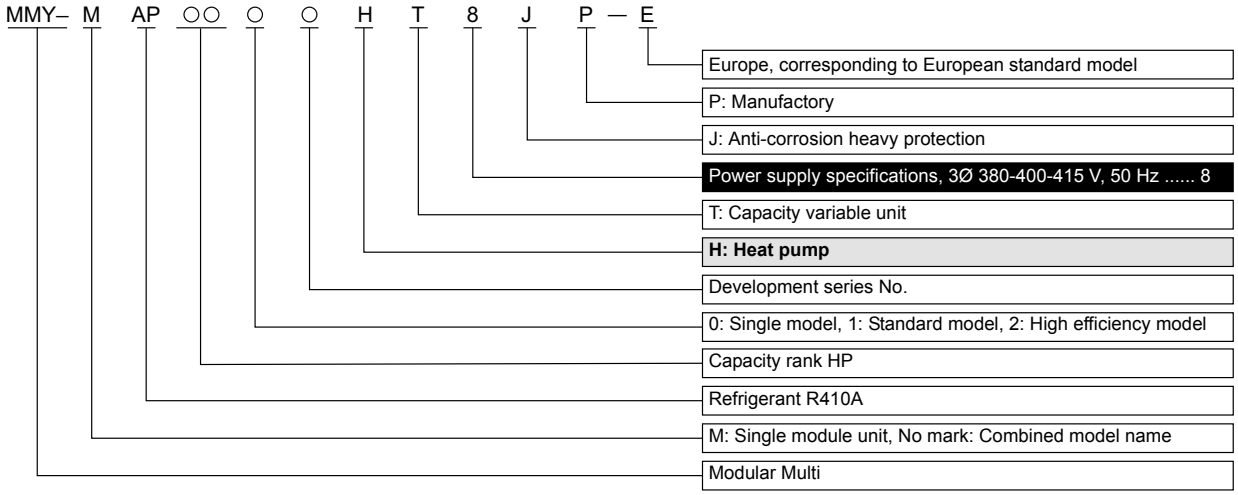


(3) If an indoor unit is installed in each partitioned room and the refrigerant tubing is interconnected, the smallest room of course becomes the object. But when a mechanical ventilation is installed interlocked with a gas leakage detector in the smallest room where the density limit is exceeded, the volume of the next smallest room becomes the object.



1-1. Allocation standard of model name

SMMS-e



1-2. Summary of system equipments

1-2-1. Outdoor units

Corresponding HP			Inverter unit							
			8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP
Model name	Heat pump	MMY-	MAP0806HT8P-E	MAP1006HT8P-E	MAP1206HT8P-E	MAP1406HT8P-E	MAP1606HT8P-E	MAP1806HT8P-E	MAP2006HT8P-E	MAP2206HT8P-E
Cooling capacity (kW)			22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5
Heating capacity (kW)			25.0	31.5	37.5	45.0	50.0	56.0	63.0	64.0
No. of connectable indoor units			18	22	27	31	36	40	45	49

■ Combination of outdoor units

Standard model

Corresponding HP		24HP	26HP	28HP	30HP	32HP	34HP	36HP	38HP
Combined Model	MMY-	AP2416HT8P-E	AP2616HT8P-E	AP2816HT8P-E	AP3016HT8P-E	AP3216HT8P-E	AP3416HT8P-E	AP3616HT8P-E	AP3816HT8P-E
Cooling capacity (kW)		67.0	73.5	78.5	85.0	90.0	95.4	101.0	106.5
Heating capacity (kW)		75.0	82.5	87.5	95.0	100.0	106.0	113.0	114.0
Combined outdoor units		12HP	14HP	16HP	16HP	16HP	18HP	20HP	22HP
		12HP	12HP	12HP	14HP	16HP	16HP	16HP	16HP
		-	-	-	-	-	-	-	-
No. of connectable indoor units		54	58	63	64	64	64	64	64

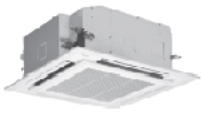
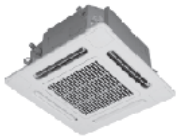
Corresponding HP		40HP	42HP	44HP	46HP	48HP	50HP	52HP	54HP
Combined Model	MMY-	AP4016HT8P-E	AP4216HT8P-E	AP4416HT8P-E	AP4616HT8P-E	AP4816HT8P-E	AP5016HT8P-E	AP5216HT8P-E	AP5416HT8P-E
Cooling capacity (kW)		112.0	117.5	123.0	130.0	135.0	140.4	146.0	151.5
Heating capacity (kW)		126.0	127.0	128.0	145.0	150.0	156.0	163.0	164.0
Combined outdoor units		20HP	22HP	22HP	16HP	16HP	18HP	20HP	22HP
		20HP	20HP	22HP	16HP	16HP	16HP	16HP	16HP
		-	-	-	14HP	16HP	16HP	16HP	16HP
No. of connectable indoor units		64	64	64	64	64	64	64	64

Corresponding HP		56HP	58HP	60HP
Combined Model	MMY-	AP5616HT8P-E	AP5816HT8P-E	AP6016HT8P-E
Cooling capacity (kW)		157.0	162.5	168.0
Heating capacity (kW)		176.0	177.0	178.0
Combined outdoor units		20HP	22HP	22HP
		20HP	20HP	22HP
		16HP	16HP	16HP
No. of connectable indoor units		64	64	64

High efficiency / Heating capacity priority model

Corresponding HP		20HP	22HP	36HP	38HP	40HP	42HP	44HP	54HP
Combined Model	MMY-	AP2026HT8P-E	AP2226HT8P-E	AP3626HT8P-E	AP3826HT8P-E	AP4026HT8P-E	AP4226HT8P-E	AP4426HT8P-E	AP5426HT8P-E
Cooling capacity (kW)		56.0	61.5	100.5	107.0	113.5	120.0	125.0	152.0
Heating capacity (kW)		63.0	69.0	112.5	120.0	127.5	135.0	140.0	171.0
Combined outdoor units		10HP	12HP	12HP	14HP	14HP	14HP	16HP	20HP
		10HP	10HP	12HP	12HP	14HP	14HP	14HP	20HP
		-	-	12HP	12HP	12HP	14HP	14HP	14HP
No. of connectable indoor units		45	49	64	64	64	64	64	64

1-2-2. Indoor Unit

Type	Appearance	Model name	Capacity rank	Capacity Code	Cooling capacity(kW)	Heating capacity(kW)
4-way Air Discharge Cassette Type		MMU-AP0094HP1-E	009	1	2.8	3.2
		MMU-AP0124HP1-E	012	1.25	3.6	4.0
		MMU-AP0154HP1-E	015	1.7	4.5	5.0
		MMU-AP0184HP1-E	018	2	5.6	6.3
		MMU-AP0244HP1-E	024	2.5	7.1	8.0
		MMU-AP0274HP1-E	027	3	8.0	9.0
		MMU-AP0304HP1-E	030	3.2	9.0	10.0
		MMU-AP0364HP1-E	036	4	11.2	12.5
		MMU-AP0484HP1-E	048	5	14.0	16.0
		MMU-AP0564HP1-E	056	6	16.0	18.0
Compact 4-way Cassette (600 x 600) Type		MMU-AP0056MH1-E	005	0.6	1.7	1.9
		MMU-AP0074MH1-E	007	0.8	2.2	2.5
		MMU-AP0094MH1-E	009	1	2.8	3.2
		MMU-AP0124MH1-E	012	1.25	3.6	4.0
		MMU-AP0154MH1-E	015	1.7	4.5	5.0
		MMU-AP0184MH1-E	018	2	5.6	6.3
Compact 4-way Cassette		MMU-AP0057MH-E	005	0.6	1.7	1.9
		MMU-AP0077MH-E	007	0.8	2.2	2.5
		MMU-AP0097MH-E	009	1	2.8	3.2
		MMU-AP0127MH-E	012	1.25	3.6	4.0
		MMU-AP0157MH-E	015	1.7	4.5	5.0
		MMU-AP0187MH-E	018	2	5.6	6.3
2-way Air Discharge Cassette Type		MMU-AP0072WH1	007	0.8	2.2	2.5
		MMU-AP0092WH1	009	1	2.8	3.2
		MMU-AP0122WH1	012	1.25	3.6	4.0
		MMU-AP0152WH1	015	1.7	4.5	5.0
		MMU-AP0182WH1	018	2	5.6	6.3
		MMU-AP0242WH1	024	2.5	7.1	8.0
		MMU-AP0272WH1	027	3	8.0	9.0
		MMU-AP0302WH1	030	3.2	9.0	10.0
		MMU-AP0362WH1	036	4.0	11.2	12.5
		MMU-AP0482WH1	048	5.0	14.0	16.0
		MMU-AP0562WH1	056	6	16.0	18.0
1-way Air Discharge Cassette Type		MMU-AP0074YH1-E	007	0.8	2.2	2.5
		MMU-AP0094YH1-E	009	1.0	2.8	3.2
		MMU-AP0124YH1-E	012	1.3	3.6	4.0
		MMU-AP0154SH1-E	015	1.7	4.5	5.0
		MMU-AP0184SH1-E	018	2.0	5.6	6.3
		MMU-AP0244SH1-E	024	2.5	7.1	8.0
Concealed Duct Type		MMD-AP0076BHP1-E	007	0.80	2.2	2.5
		MMD-AP0096BHP1-E	009	1.00	2.8	3.2
		MMD-AP0126BHP1-E	012	1.25	3.6	4.0
		MMD-AP0156BHP1-E	015	1.70	4.5	5.0
		MMD-AP0186BHP1-E	018	2.00	5.6	6.3
		MMD-AP0246BHP1-E	024	2.50	7.1	8.0
		MMD-AP0276BHP1-E	027	3.00	8.0	9.0
		MMD-AP0306BHP1-E	030	3.20	9.0	10.0
		MMD-AP0366BHP1-E	036	4.00	11.2	12.5
		MMD-AP0486BHP1-E	048	5.00	14.0	16.0
		MMD-AP0566BHP1-E	056	6.00	16.0	18.0
Slim Duct Type		MMD-AP0056SPH1-E	005	0.6	1.7	1.9
		MMD-AP0074SPH1-E	007	0.80	2.2	2.5
		MMD-AP0094SPH1-E	009	1.00	2.8	3.2
		MMD-AP0124SPH1-E	012	1.25	3.6	4.0
		MMD-AP0154SPH1-E	015	1.70	4.5	5.0
		MMD-AP0184SPH1-E	018	2.00	5.6	6.3
		MMD-AP0244SPH1-E	024	2.25	7.1	8.0
		MMD-AP0274SPH1-E	027	3.0	8.0	9.0
Concealed Duct High Static Pressure Type		MMD-AP0186HP1-E	018	2.0	5.6	6.3
		MMD-AP0246HP1-E	024	2.5	7.1	8.0
		MMD-AP0276HP1-E	027	3.0	8.0	9.0
		MMD-AP0366HP1-E	036	4.0	11.2	12.5
		MMD-AP0486HP1-E	048	5.0	14.0	16.0
		MMD-AP0566HP1-E	056	6.0	16.0	18.0
		MMD-AP0726HP-E	072	8.0	22.4	25.0
		MMD-AP0966HP-E	096	10.0	28.0	31.5
Under Ceiling Type		MMC-AP0158HP-E	015	1.7	4.5	5.0
		MMC-AP0188HP-E	018	2.0	5.6	6.3
		MMC-AP0248HP-E	024	2.5	7.1	8.0
		MMC-AP0278HP-E	027	3.0	8.0	9.0
		MMC-AP0368HP-E	036	4.0	11.2	12.5
		MMC-AP0488HP-E	048	5.0	14.0	16.0
		MMC-AP0568HP-E	056	6.0	16.0	18.0

Indoor Unit

Type	Appearance	Model name	Capacity rank	Capacity Code	Cooling capacity(kW)	Heating capacity(kW)
High Wall Type 3 series		MMK-AP0073H1	007	0.8	2.2	2.5
		MMK-AP0093H1	009	1.0	2.8	3.2
		MMK-AP0123H1	012	1.25	3.6	4.0
		MMK-AP0153H1	015	1.70	4.5	5.0
		MMK-AP0183H1	018	2.00	5.6	6.3
		MMK-AP0243H1	024	2.50	7.1	8.0
High Wall Type 3 series (Without PMV)		MMK-AP0073HP1-E1	007	0.8	2.2	2.5
		MMK-AP0093HP1-E1	009	1.0	2.8	3.2
		MMK-AP0123HP1-E1	012	1.25	3.6	4.0
		MMK-AP0153HP1-E1	015	1.70	4.5	5.0
		MMK-AP0183HP1-E1	018	2.00	5.6	6.3
		MMK-AP0243HP1-E1	024	2.50	7.1	8.0
High Wall Type 7 series		MMK-AP0057HP-E	005	0.6	1.7	1.9
		MMK-AP0077HP-E	007	0.8	2.2	2.5
		MMK-AP0097HP-E	009	1	2.8	3.2
		MMK-AP0127HP-E	012	1.25	3.6	4.0
		MMK-AP0157HP-E	015	1.7	4.5	5.0
		MMK-AP0187HP-E	018	2.0	5.6	6.3
		MMK-AP0247HP-E	024	2.5	7.1	8.0
High Wall Type 7 series (Without PMV)		MMK-AP0057HP-E1	005	0.6	1.7	1.9
		MMK-AP0077HP-E1	007	0.8	2.2	2.5
		MMK-AP0097HP-E1	009	1	2.8	3.2
		MMK-AP0127HP-E1	012	1.25	3.6	4.0
		MMK-AP0157HP-E1	015	1.7	4.5	5.0
		MMK-AP0187HP-E1	018	2.0	5.6	6.3
		MMK-AP0247HP-E1	024	2.5	7.1	8.0
Floor Standing Concealed Type		MML-AP0074BH1-E	007	0.8	2.2	2.5
		MML-AP0094BH1-E	009	1	2.8	3.2
		MML-AP0124BH1-E	012	1.25	3.6	4.0
		MML-AP0154BH1-E	015	1.7	4.5	5.0
		MML-AP0184BH1-E	018	2	5.6	6.3
		MML-AP0244BH1-E	024	2.5	7.1	8.0
Floor Standing Cabinet Type		MML-AP0074H1-E	007	0.8	2.2	2.5
		MML-AP0094H1-E	009	1	2.8	3.2
		MML-AP0124H1-E	012	1.25	3.6	4.0
		MML-AP0154H1-E	015	1.7	4.5	5.0
		MML-AP0184H1-E	018	2	5.6	6.3
		MML-AP0244H1-E	024	2.5	7.1	8.0
Floor Standing Type		MMF-AP0156H1-E	015	1.7	4.5	5.0
		MMF-AP0186H1-E	018	2	5.6	6.3
		MMF-AP0246H1-E	024	2.5	7.1	8.0
		MMF-AP0276H1-E	027	3	8.0	9.0
		MMF-AP0366H1-E	036	4	11.2	12.5
		MMF-AP0486H1-E	048	5	14.0	16.0
		MMF-AP0566H1-E	056	6.0	16.0	18.0
Hot Water Module		MMW-AP0271LQ-E	027	3	-	8.0
		MMW-AP561LQ-E	056	6	-	16.0
Console Type		MML-AP0074NH1-E	007	0.8	2.2	2.5
		MML-AP0094NH1-E	009	1	2.8	3.2
		MML-AP0124NH1-E	012	1.3	3.6	4.0
		MML-AP0154NH1-E	015	1.7	4.5	5.0
		MML-AP0184NH1-E	018	2.0	5.6	6.3
Fresh Air Intake Indoor unit Type		MMD-AP0481HFE	048	5.0	14.0	8.9
		MMD-AP0721HFE	072	8.0	22.4	13.9
		MMD-AP0961HFE	096	10.0	28.0	17.4
Air to Air Heat exchanger with DX-coil Type		MMD-VN502HEX1E	009	1	4.10(1.30)*	5.53(2.33)*
		MMD-VN802HEX1E	015	1.7	6.56(2.06)*	8.61(3.61)*
		MMD-VN1002HEX1E	018	2	8.25(2.32)*	10.92(4.32)*
Air to Air Heat exchanger with DX-coil Humidifier Type		MMD-VNK502HEX1E	009	1	4.10(1.30)*	5.53(2.33)*
		MMD-VNK802HEX1E	015	1.7	6.56(2.06)*	8.61(3.61)*
		MMD-VNK1002HEX1E	018	2	8.25(2.32)*	10.92(4.32)*

* : The figures in ( ) indicate the heat reclaimed from the heat recovery ventilator.

1-2-3. Branching joints and headers

Name	Model name	Appearance
Y-shape branching joint	RBM-BY55E	
	RBM-BY105E	
	RBM-BY205E	
	RBM-BY305E	
4-branching header	RBM-HY1043E	
	RBM-HY2043E	
8-branching header	RBM-HY1083E	
	RBM-HY2083E	
Branching joint for connection of outdoor units	RBM-BT14E	
	RBM-BT24E	

1-2-4. Remote controllers

Name	Model Name	Remarks
Wired remote controller	RBC-AMT32E	
	RBC-AMS54E-EN/ES	-EN : English, Italian, Polish, Greece, Russian, Turkish -ES : English, Spanish, Portuguese, French, Dutch, German
	RBC-AMS55E-EN/ES	-EN : English, Italian, Polish, Greece, Russian, Turkish -ES : English, Spanish, Portuguese, French, Dutch, German
Compact wired remote controller	RBC-ASC11E	
Simple wired remote controller	RBC-AS41E	
Wireless remote controller kit	RBC-AX32U(W)-E RBC-AX32U(WS)-E RBC-AX32UM(W)-E	For 4-way Air Discharge Cassette For Compact 4-way Cassette 7series
	RBC-AX33CE2	For Under Ceiling, 1-way Air Discharge Cassette SH
	TCB-AX32E2	For all other units.
	RBC-AX32UW(W)-E	For 2-way Air Discharge Cassette
ON-OFF controller	TCB-CC163TLE2	
Central remote controller	BMS-CM1280TLE	
Schedule timer	TCB-EXS21TLE	
Remote controller with schedule timer (7-day timer function)	RBC-AMS41E	
Wired remote controller for Air to Air Heat Exchanger with DX coil unit	NRC-01HE	For Air to Air Heat Exchanger with DX coil type

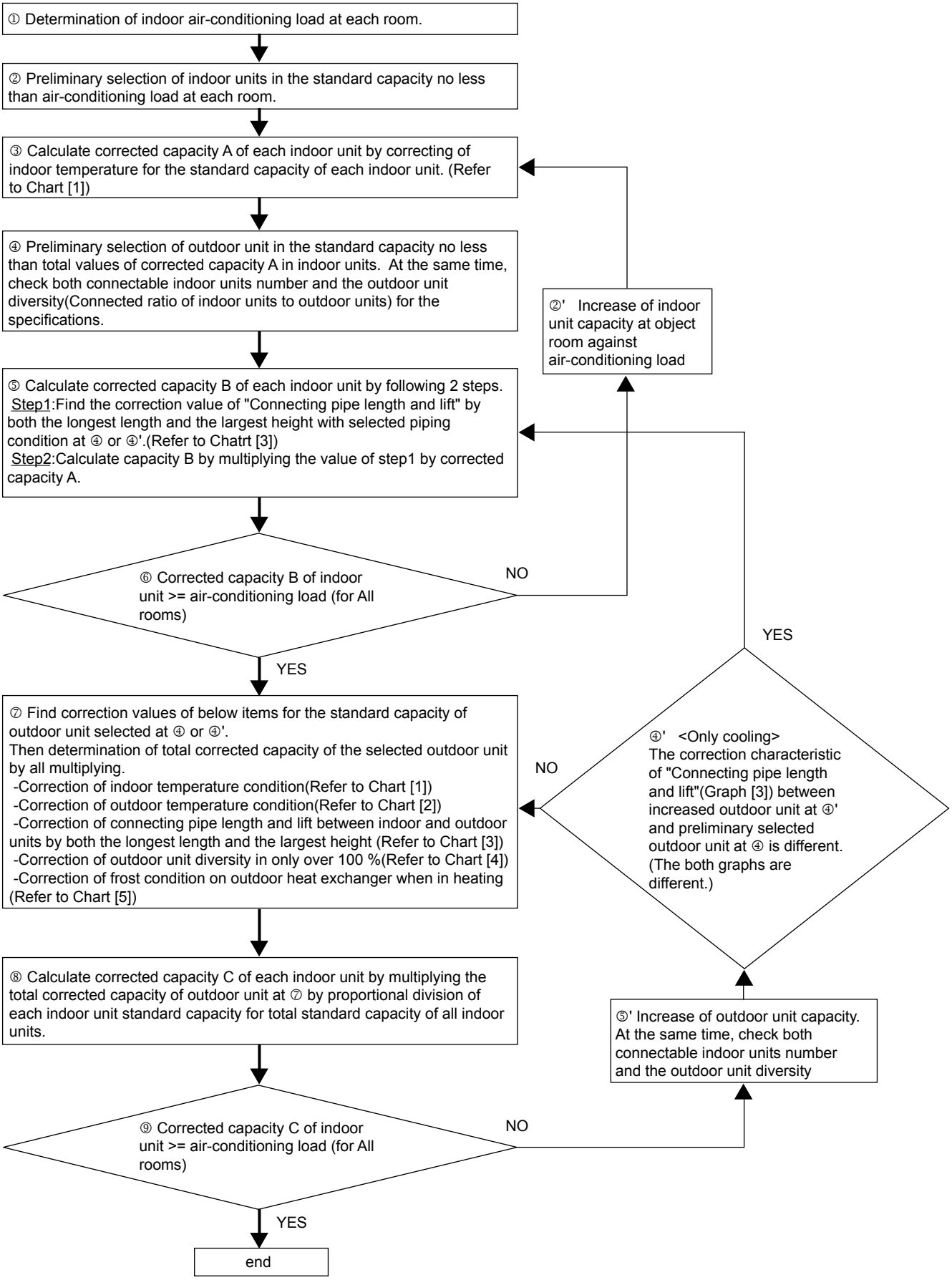
1-2-5. Optional PCB of outdoor unit

Name	Model Name	Remarks
Power peak-cut control board	TCB-PCDM4E	
External master ON/OFF control board	TCB-PCMO4E	
Output control board	TCB-PCIN4E	

1-2-6. Controls

Name	Model Name	Remarks
Touch Screen Controller	BMS-CT5121E	
Smart BMS manager	BMS-SM1280HTLE	
Smart BMS manager with data analyzer	BMS-SM1281ETLE	
Relay Interface	BMS-IFLSV4E	
Energy Monitoring Relay Interface	BMS-IFWH5E	
Digital I/O Relay Interface	BMS-IFDD03E	
LonWorks LN Interface	TCB-IFLN642TLE	
Modbus Interface	TCB-IFMB641TLE BMS-IFMB0TLR-E	Use only one remote controller
Analog Interface	TCB-IFCB640TLE	
BN Interface	BMS-IFBN640TLE	

2-1. Selection flow chart



2-2. Combination conditions for indoor unit and outdoor unit

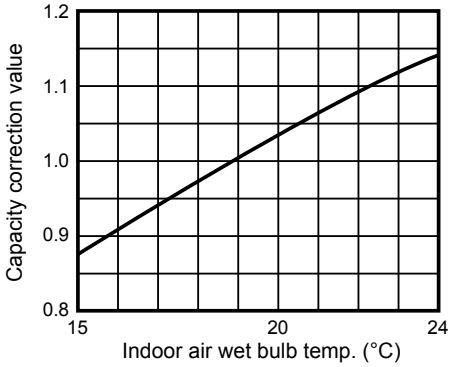
Indoor unit can connect 50 % to 135 % of Outdoor unit capacity.

NOTE:
Height difference between indoor unit over 15 m, combination conditions for indoor and outdoor unit is 50 % to 105 %.

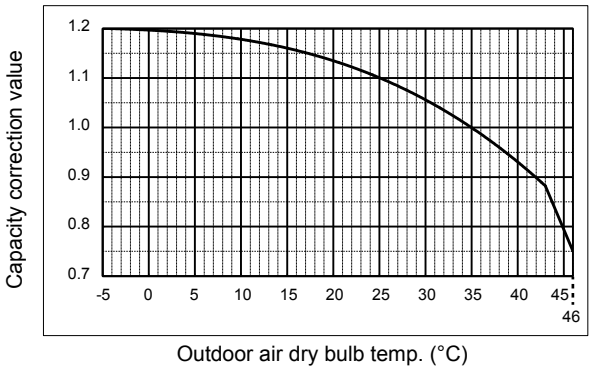
2-3. Cooling/heating capacity characteristics

2-3-1. Correction charts for cooling capacity calculation

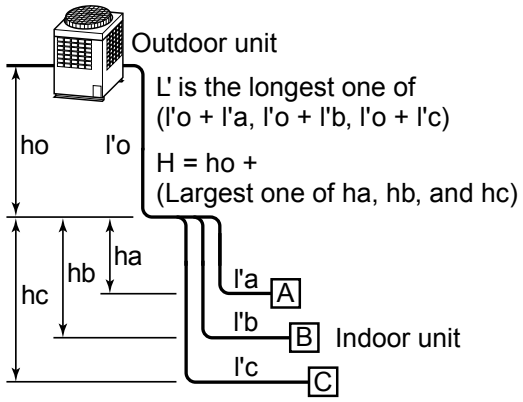
[1] Indoor air wet bulb temperature vs. capacity correction value



[2] Outdoor air dry bulb temperature vs.capacity correction value

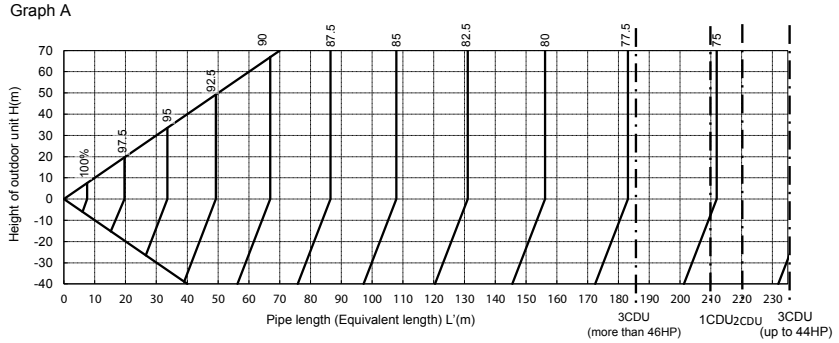


[3] Connecting pipe length and lift difference between indoor and outdoor units vs. capacity correction value

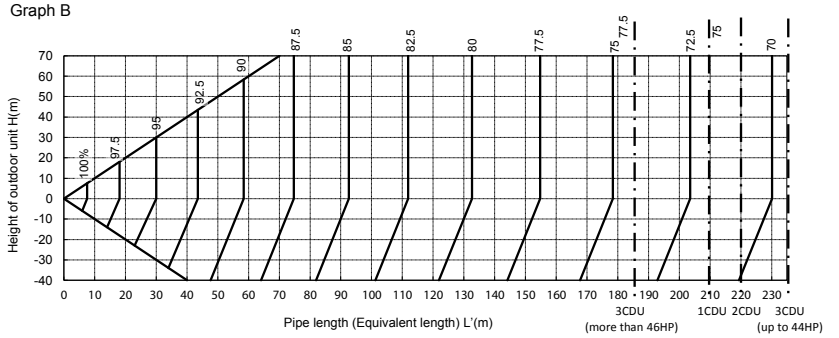


		Eu and Asia standard		EU and Asia high efficiency	
HP	Graph	combination	Pipe length [m]	combination	Pipe length [m]
8	D	8	210		
10	C	10	210		
12	A	12	210		
14	A	14	210		
16	B	16	210		
18	C	18	210		
20	C	20	210	10+10	220
22	C	22	210	12+10	220
24	A	12+12	220		
26	B	14+12	220		
28	B	16+12	220		
30	B	16+14	220		
32	C	16+16	220		
34	C	18+16	220		
36	A	20+16	220	12+12+12	235
38	A	22+16	220	14+12+12	235
40	B	20+20	220	14+14+12	235
42	B	22+20	220	14+14+14	235
44	B	22+22	220	16+14+14	235
46	B	16+16+14	185		
48	C	16+16+16	185		
50	C	18+16+16	185		
52	C	20+16+16	185		
54	E	22+16+16	185	20+20+14	185
56	E	20+20+16	185		
58	E	22+20+16	185		
60	E	22+22+16	185		

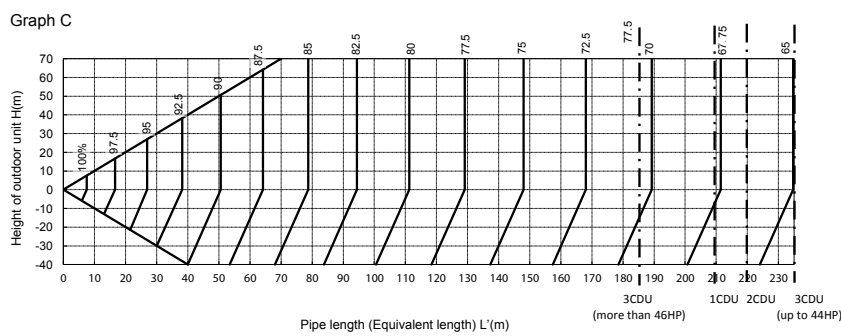
Graph A



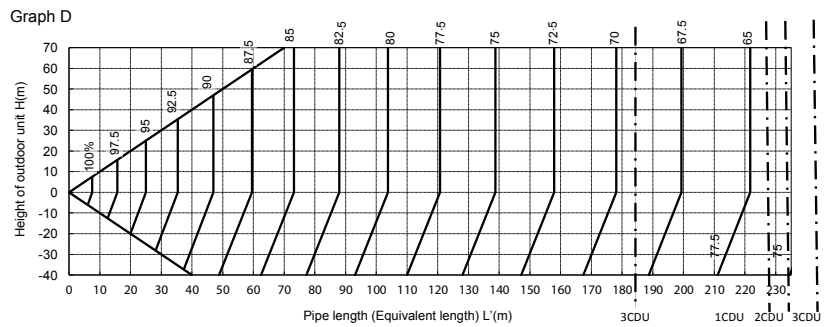
Graph B

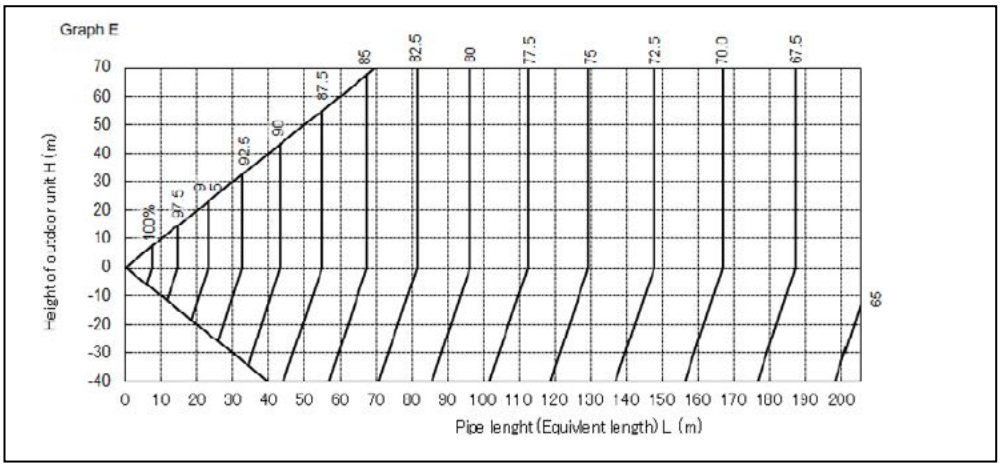


Graph C

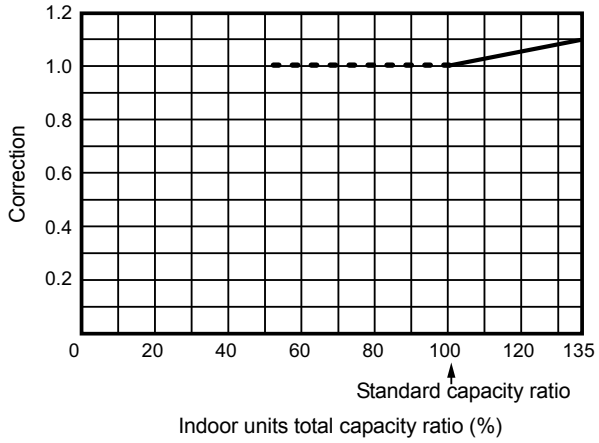


Graph D





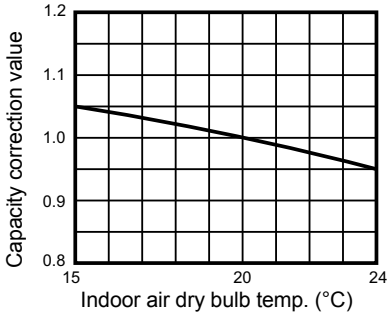
[4]* Correction of outdoor unit diversity



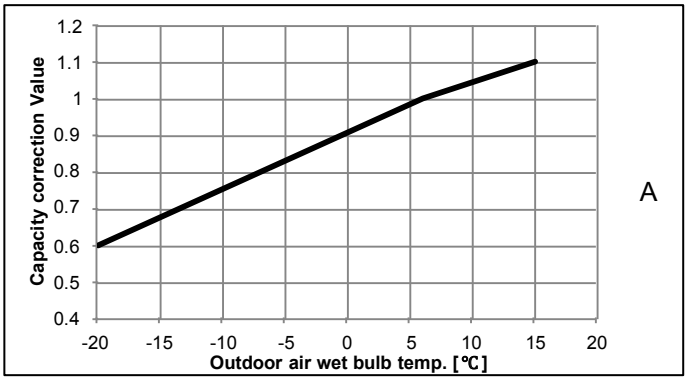
*: Coefficient to use for the correction of the outdoor unit capacity when the total capacity of the indoor units are not equal to the outdoor unit capacity.

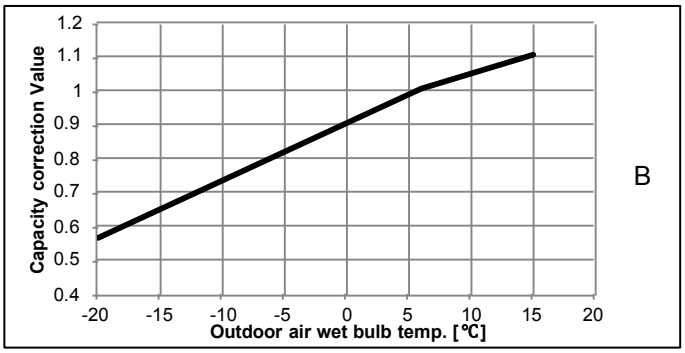
2-3-2. Correction charts for heating capacity calculation

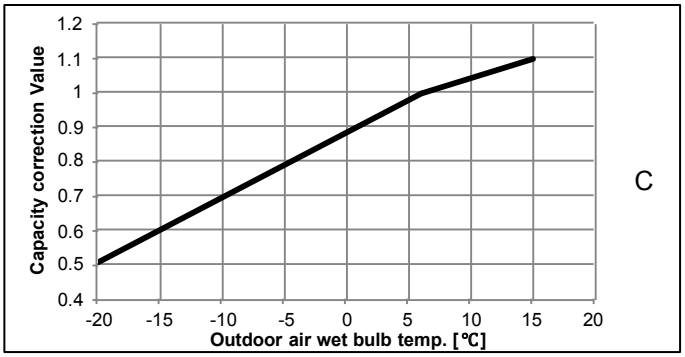
[1] Indoor air dry bulb temperature vs. capacity correction value



[2] Outdoor air wet bulb temperature vs. capacity correction value







Standard model

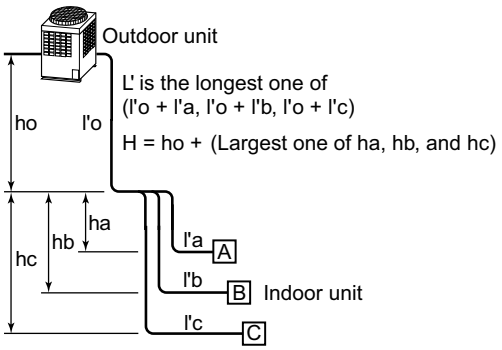
HP	combination	Graph
8	8	A
10	10	B
12	12	C
14	14	B
16	16	C
18	18	B
20	20	C
22	22	C
24	12+12	C
26	14+12	C
28	16+12	C
30	16+14	C
32	16+16	C
34	18+16	C
36	20+16	C
38	22+16	C
40	20+20	C
42	22+20	C
44	22+22	C
46	16+16+14	C
48	16+16+16	C
50	18+16+16	C
52	20+16+16	C
54	22+16+16	C
56	20+20+16	C
58	22+20+16	C
60	22+22+16	C

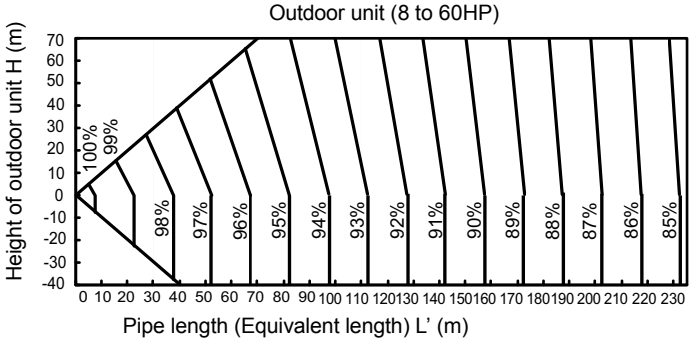
High efficiency model

HP	combination	Graph
20	10+10	B
22	12+10	C
36	12+12+12	C
38	14+12+12	C
40	14+14+12	B
42	14+14+14	B
44	16+14+14	B
54	20+20+14	C

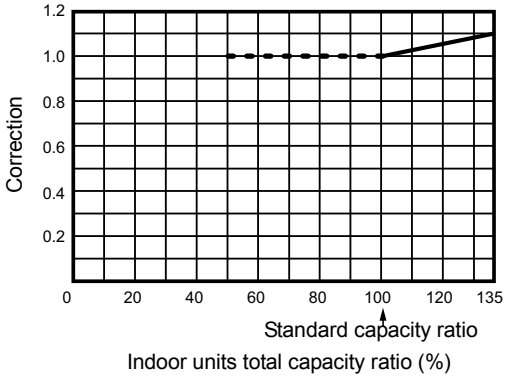
2-3-2. Correction charts for heating capacity calculation

[3] Connecting pipe length and lift difference between indoor and outdoor units vs. capacity correction value





[4]* Correction of outdoor unit diversity

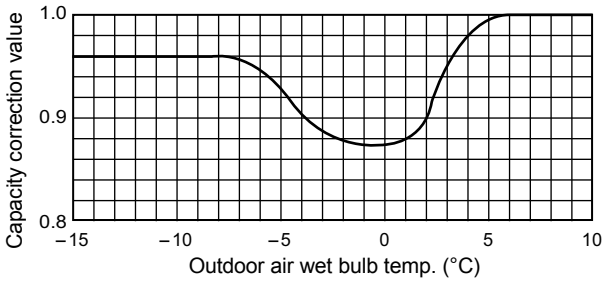


*: Coefficient to use for the correction of the outdoor unit capacity when the total capacity of the indoor units are not equal to the outdoor unit capacity.

2-3-3. Capacity correction in case of frost on the outdoor heat exchanger when in heating

Correct the heating capacity when frost can be found on the outdoor heat exchanger.
Heating capacity = Capacity after correction of outdoor unit x Correction value of capacity resulted from frost
(Capacity after correction of outdoor unit: Heating capacity calculated in the above item 2.)

[5] Capacity correction in case of frost on the outdoor heat exchanger

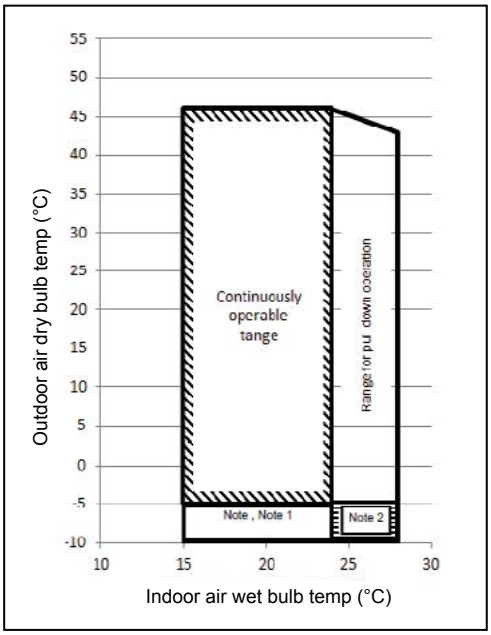


2-3-4. Rated conditions

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

2-4. Operational temperature range

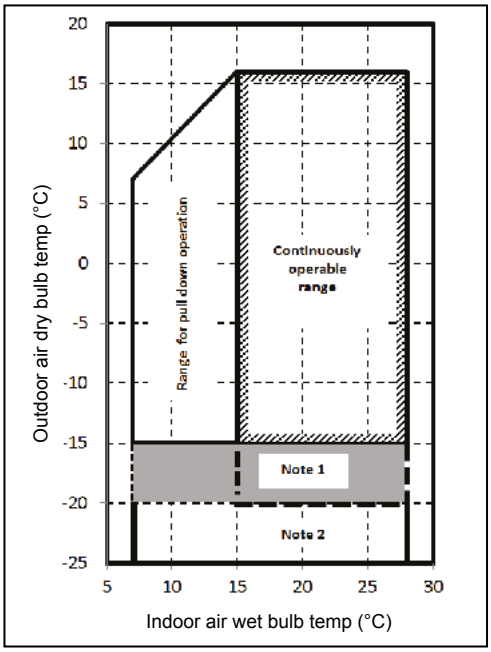
Cooling



Note

1. NOT SUITABLE FOR APPLICATIONS, WHICH REQUIRE PRECISE ROOM TEMPERATURE CONTROL, DUE TO INCREASED RISK OF INDOOR ON/OFF CONTROL AND POTENTIAL LOW AIR OFF TEMPERATURES.
2. FOR AREAS THAT DO DEMAND A PRECISE ROOM TEMEPRATURE CONTROL, WE WOULD RECOMMEND THE INSTALLTION OF A SECONDARY SYSTEM, WHICH HAS BEEN DESIGNED SOLELY FOR THE PURPOSE OF LOW AMBIENT COOLING.
3. SINGLE OUTDOOR UNIT ONLY.
4. NO HEIGHT DIFFERENCE BETWEEN UNITS.
5. THE COOLING PERFORMANCE MAY DECLINE CONSIDERABLY WHEN TOTAL OPERATIONG CAPACITY OF COOLING INDOOR UNITS IS LESS THAN 4HP WHILE AMBIENT TEMPERATURE IS BELOW -5 C.

Heating



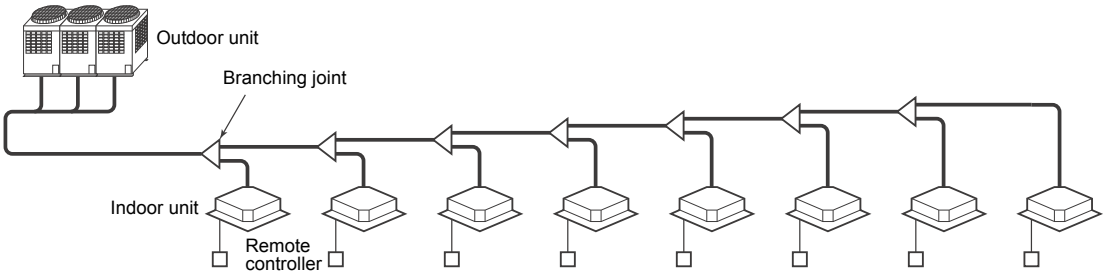
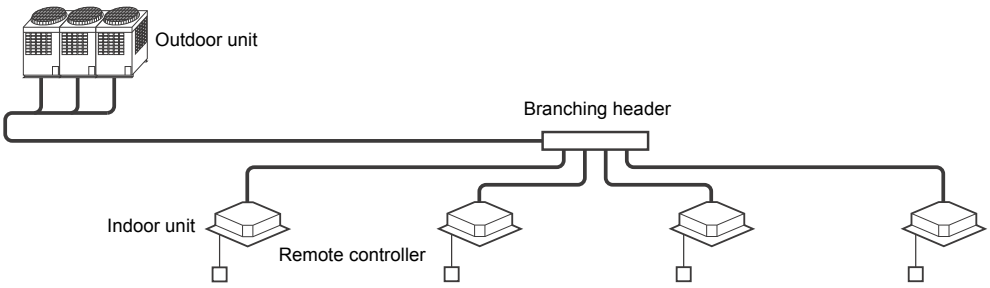
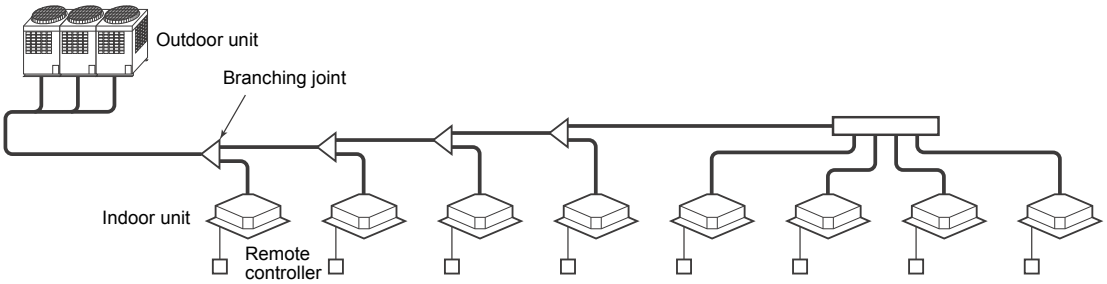
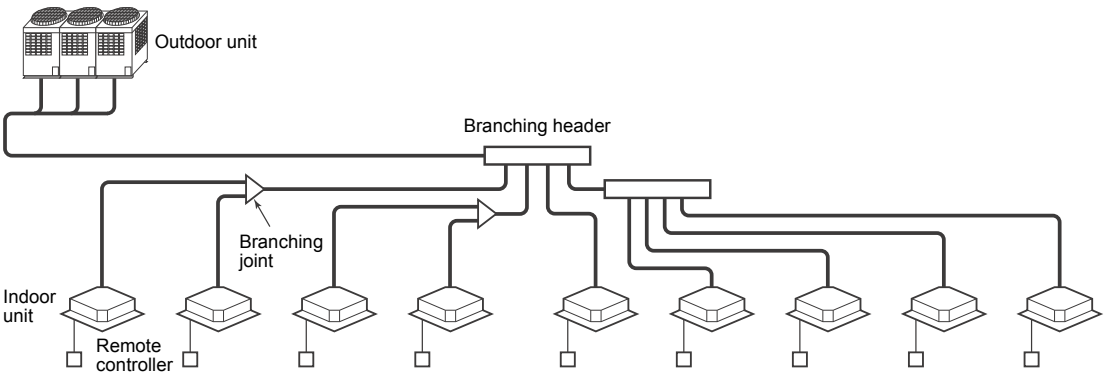
Note 1: The unit will operate down to an outdoor temperature of -25°C, however considerable performance decrease will be expected below -15°C. Therefore please consider installation location/surroundings and system design when expected to operate between -15°C and -20°C.

Note 2: Low ambient heating (-20°C or less) for extended periods of time is not allowed .

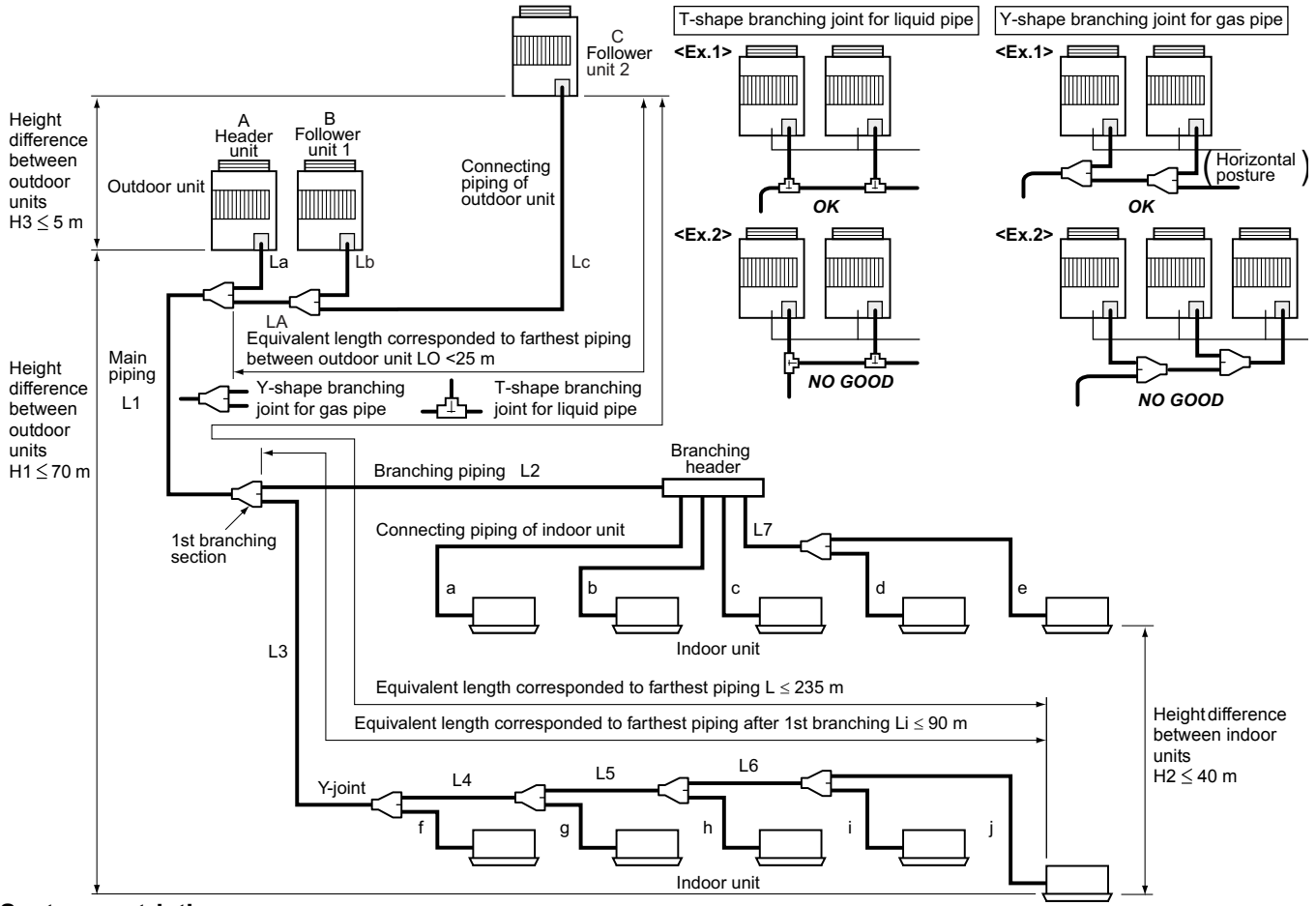
3-1. Free branching system

[1] Line branching system
[2] Header branching system
[3] Header branching system after line branching
[4] Line branching system after header branching
[5] Header branching system after header branching

The above five branching systems enable to dramatically increase the flexibility of refrigerant piping design.

Line branching system	
Header branching system	
Header branching system after line branching	
Line branching system after header branching Header branching system after header branching	

3-2. Allowable length/height difference of refrigerant piping



System restrictions

Max. No. of combined outdoor units		3 units
Max. capacity of combined outdoor units		60 HP
Max. No. of connected indoor units		64 units
Max. capacity of combined indoor units	H2 ≤ 15	135 %
	H2 > 15	105 %

Note 1) Combination of outdoor units: Header unit (1 unit) + Follower units (0 to 2 units). Header unit is the outdoor unit nearest to the connected indoor units.
Note 2) Install the outdoor units in order of capacity. (Header unit ≥ Follower unit 1 ≥ Follower unit 2)
Note 3) Use Y-shape branching joint in connecting of gas pipe for outdoor unit, and install horizontally.
Note 4) Piping to indoor units shall be perpendicular to piping to the header outdoor unit as <Ex.1>. Do not connect piping to indoor units in the same direction of header outdoor unit as T-shape branching joint for liquid pipe of <Ex.2>.

Farthest piping length L(*1) by capacity of outdoor units

	Standard model				High efficiency model		
Capacity (HP)	8 ~ 22	24 ~ 44	46 ~ 52	54 ~ 60	20 ~ 22	36 ~ 44	54
Equivalent length (m)	210	220	185	185	220	235	185
Real length (m)	170	180	145	145	180	190	145

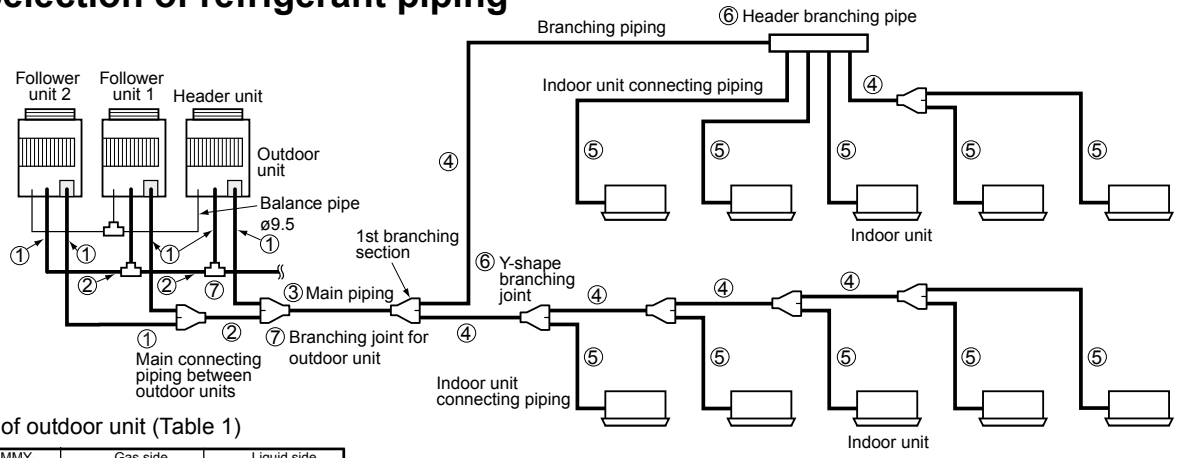
Note: All values of above table decrease 25 m when H1 exceeds 3 m.

Allowable length and height difference of refrigerant piping

				Allowable value	Piping section
Piping length	Total extension of pipe (Liquid pipe, real length)		Below 34HP	300 m	LA + LB + La + Lb + Lc + L1 + L2 + L3 + L4+ L5 + L6 + L7 + a + b + c + d + e + f + g + h + i + j
			34HP or more	1000 m(*6)	
	Farthest piping Length L (*1)		Equivalent length	235 m	LA + L1 + L3 + L4 + L5 + L6 + j
			Real length	190 m	
	Equivalent length of farthest piping from 1st branching Li (*1)			90 m (*2)	L3 + L4 + L5 + L6 + j
	Equivalent length of farthest piping between outdoor units LO (*1)			25 m	LA + Lc (LA + Lb)
	Max. equivalent length of main piping		Equivalent length	120 m (*3)	L1
			Real length	100 m (*3)	
	Max. equivalent length of outdoor unit connecting piping			10 m	Lc (La, Lb,)
	Max. real length of indoor unit connecting piping			30 m	a, b, c, d, e, f, g, h, i, j
	Max. equivalent length between branches			50 m	L2, L3, L4, L5, L6, L7
Difference in height	Height between indoor and outdoor units H1		Upper outdoor unit	70 m (*4)(*7)	–
			Lower outdoor unit	40 m (*5)	–
	Height between indoor units H2			40 m	–
	Height between outdoor units H3			5 m	–

(*1) : (D) is outdoor unit furthest from the 1st branch and (j) is the indoor unit furthest from the 1st branch.
(*2) : If the height difference (H1) between indoor and outdoor unit exceeds 3 m, set 65 m or less.
(*3) : If the max. combined outdoor unit capaci ty is 54HP or more, then max. equivalent length is 70 m or less (real length is 50 m or less).
(*4) : If the height difference (H2) between indoor units exceeds 3 m, set 50 m or less.
(*5) : If the height difference (H2) between indoor units exceeds 3 m, set 30 m or less.
(*6) : Total charging refrigerant is 140kg or less.
(*7) : Extension up till 90m is possible with conditions below
- Outdoor Temperature Cooling : 10 - 46 (DB)
Heating : -5 - 15.5 (WB)
- Equivalent length of farthest piping from 1st branching Li < 50m
- Real length of main piping L1 < 100m
- Height difference between indoor units H2<3M
- Total capacity of combined indoor units : 90% - 105%
- Single CDU, and up to 20HP
- Minimum capacity of connectable indoor : unit 4HP or Larger

3-3. Selection of refrigerant piping



① Pipe size of outdoor unit (Table 1)

Model name MMY-	Gas side	Liquid side
MAP0806*	Ø19.1	Ø12.7
MAP1006*	Ø22.2	Ø12.7
MAP1206*	Ø28.6	Ø12.7
MAP1406*	Ø28.6	Ø15.9
MAP1606*	Ø28.6	Ø15.9
MAP1806*	Ø28.6	Ø15.9
MAP2006*	Ø28.6	Ø15.9
MAP2206*	Ø28.6	Ø19.1

② Connecting pipe size between outdoor units (Table 2)

Total capacity code of outdoor unit at downstrem side*1	Gas side	Liquid side	Balance pipe
16 to below 22	Ø28.6	Ø15.9	Ø9.5
22 to below 24	Ø28.6	Ø19.1	
24 to below 26	Ø34.9	Ø19.1	
26 to below 36	Ø34.9	Ø19.1	
36 or more	Ø41.3	Ø22.2	

③ Size of main pipe (Table 3)

Total capacity code of all outdoor units *1	Gas side	Liquid side	
		Standard pipe size	Refrigerant saving pipe size
8 to below 10	Ø19.1	Ø12.7	-
10 to below 12	Ø22.2	Ø12.7	-
12 to below 14	Ø28.6	Ø12.7	-
14 to below 22	Ø28.6	Ø15.9	Ø12.7
22 to below 24	Ø28.6	Ø19.1	Ø15.9
24 to below 36	Ø34.9	Ø19.1	Ø15.9
36 to below 46	Ø41.3	Ø22.2	Ø19.1
46 or more	Ø41.3	Ø22.2	-

Determine thickness of the main pipe according to capacity of the outdoor units.

④ Pipe size between branching sections (Table 4)*5

Total capacity code of indoor units at downstream side *1	Gas side	Liquid side
2.4 or less	ø 12.7	ø9.5
2.4 to below 6.4	ø 15.9	ø9.5
6.4 to below 12.2	Ø22.2	Ø12.7
12.2 to below 20.2	Ø28.6	Ø15.9
20.2 to below 22.4	Ø28.6	Ø19.1
22.4 to below 25.2	Ø34.9	Ø19.1
25.2 to below 35.2	Ø34.9	Ø19.1
32.2 or more	Ø41.3	Ø22.2

If the total capacity code value of indoor units exceeds that of the outdoor units, apply the capacity code of outdoor units.

⑤ Piping of indoor unit (Table 5)

Capacity rank		Gas side	Liquid side
005 type to 012 type	Actual length 15 m or less	ø9.5	ø6.4
	Actual length exceeds 15 m	ø12.7	ø6.4
015 type to 018 type		ø12.7	ø6.4
024 type to 056 type		ø15.9	ø9.5
072 type to 096 type		ø22.2	ø12.7

⑥ Selection of branching section (Table 6)

	Total capacity code of indoor unit *1		Model name
Y-shape branching joint *2 *3 *8	Below 6.4		RBM-BY55E
	6.4 to below 20.2		RBM-BY105E
	20.2 to below 25.2		RBM-BY205E
	25.2 or more		RBM-BY305E
Branching header *2 *3 *6 *8	For 4 branching	Below 14.2	RBM-HY1043E
		14.2 to below 25.2	RBM-HY2043E
	For 8 branching	Below 14.2	RBM-HY1083E
		14.2 to below 25.2	RBM-HY2083E

⑦ Selection of branching joint for outdoor unit (Table 7)

	Total capacity code of outdoor unit	Joints			Model name
		Gas (Y-shape)	Liquid (T-shape)	Balance (T-shape)	
Branching joint for outdoor unit	Below 26	ø31.8 ø28.6 ø25.4	ø19.1 ø19.1 ø19.1	ø9.5 ø9.5 ø9.5	RBM-BT14E
	26 or more	ø38.1 ø38.1 ø28.6	ø22.2 ø22.2 ø22.2	ø9.5 ø9.5 ø9.5	RBM-BT24E

⑧ Minimum wall thickness for R410A application (Table 8)

Soft	Half hard or hard	OD (Inch)	OD (mm)	Minimum wall thickness (mm)
OK	OK	1/4"	6.35	0.80
OK	OK	3/8"	9.52	0.80
OK	OK	1/2"	12.70	0.80
OK	OK	5/8"	15.88	1.00
No Good*4	OK	3/4"	19.05	1.00
No Good*4	OK	7/8"	22.20	1.00
No Good*4	OK	1.1/8"	28.58	1.00
No Good*4	OK	1.3/8"	34.92	1.20
No Good*4	OK	1.5/8"	41.28	1.40

*1 Code is determined according to the capacity rank.
*2 When using a branching joint for the 1st branch, select according to capacity code of the outdoor unit.
*3 For 1 line after branching header indoor units with a maximum capacity code of 6.0 in total can be connected.
*4 If the pipe size is Ø19.0 or more, use a suitable material as detailed in the installation manual.
*5 If the piping size becomes over main piping size, select the size same as main piping.
*6 When the first branch is a header with the outdoor total capacity codes of 12 to 26, apply the model RBM- HY2043E(4-branch) or RBM-HY2083E(8-branch) regardless of the total capacity codes of the down-stream indoor units.
*7 The maximum equivalent length of main pipe should be 70m or shorter.
*8 When the sum of capacity code of indoor units exceeds the capacity code of outdoor units, select according to capacity code of the outdoor units.
*9 Refrigerant saving condition can be adopted under all the conditions below,
- Real length of main piping (L1) : 50m or less
- Height difference between outdoor and indoor units (H1) : 30m or less
- Total capacity code of all outdoor units is 14HP to below 46HP.

3-4. Charging requirement with additional refrigerant

Calculating the amount of additional refrigerant required

Refrigerant in the system when shipped from the factory

		8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP
Refrigerant amount charged in factory	Heat pump model	11.5 kg	11.5 kg	11.5 kg	11.5 kg	11.5 kg	11.5 kg	11.5 kg	11.5 kg

When the system is charged with refrigerant at the factory, the amount of refrigerant needed for the pipes at the site is not included. Therefore, calculate the additional amount needed and add the required amount to the system.

(Calculation)

Additional refrigerant charge amount is calculated based on the size of liquid pipe at site and its real length.

Additional refrigerant charge amount at site = [1]+[2]+([3] x 1.2)
[1]. Compensation by system HP(Table 1)
[2]. Additional refrigerant charge amount indoor unit (Table 2)
[3]. Real length of liquid pipe x Additional refrigerant charge amount per liquid pipe (Table 3)

Example: Additional charge amount R (kg) = [1] + [2] + ([3] × 1.2) = 2.5 + 24 + (39.1×1.2) = 73.4

System HP : 60HP
Indoor unit (Standard Indoor units) : 60HP
Liquid pipe : 22.2 100m
19.1 10m
15.9 10m
[1]. Compensation by system HP = 2.5kg
[2]. Additional refrigerant charge amount Indoor unit = 0.4 kg × 60 = 24kg
[3]. Real length of liquid pipe × Additional refrigerant charge amount per liquid pipe
= (0.350 × 100) + (0.250 × 10) + (0.160 × 10) = 35 + 2.5 + 1.6 = 39.1kg

Table 1

Standard model

System	Combination			Compensation by System HP
HP	HP			kg
8	8			-3.5
10	10			-3.5
12	12			-1.5
14	14			-1.0
16	16			-0.5
18	18			1.5
20	20			1.5
22	22			1.5
24	12	12		-3.0
26	14	12		-2.5
28	16	12		-2.0
30	16	14		-1.5
32	16	16		-1.0
34	18	16		1.0
36	20	16		1.0
38	22	16		1.0
40	20	20		3.0
42	22	20		3.0
44	22	22		3.0
46	16	16	14	-6.5
48	16	16	16	-6.5
50	18	16	16	-0.5
52	20	16	16	-0.5
54	22	16	16	-0.5
56	20	20	16	2.5
58	22	20	16	2.5
60	22	22	16	2.5

High efficiency model

System	Combination			Compensation by System HP
HP	HP			kg
20	10	10		-7.0
22	12	10		-7.0
36	12	12	12	-12.5
38	14	12	12	-10.5
40	14	14	12	-8.5
42	14	14	14	-4.5
44	16	14	14	-4.5
54	20	20	14	1.5

Table 2

Additional refrigerant charge amount Indoor unit		Standard Indoor unit	Hot Water Module	Fresh Air Intake Indoor Unit	Air to Air Heat exchanger with DX-coil
Additional refrigerant charge amount	kg/HP	0.4	0	0.2	0.2

Table 3

Pipe dia. at liquid side	mm	ø6.4	ø9.5	ø12.7	ø15.9	ø19.0	ø22.2
Additional refrigerant amount/1m	kg/m	0.025	0.055	0.105	0.16	0.25	0.35

4-1.General

- Perform wiring of the power supply in conformance with the regulations of the local electric company.
- For cabling of the power supply of the indoor unit and the inter-unit cabling between indoor and outdoor units, refer to the Installation Manual of indoor unit.
- Never connect power supply to the terminal block (U1, U2, U3, U4, U5, U6) for control wiring. (The equipment breaks down.)
- Arrange the cables so that the electric wires do not come to contact with high-temperature part of the pipe; otherwise coating melts and an accident may be caused.
- After connecting cable to the terminal block, take off the trap and then fix the cable with cable clamp.
- Do not turn on power of the indoor unit until vacuuming of the refrigerant pipe will finish.

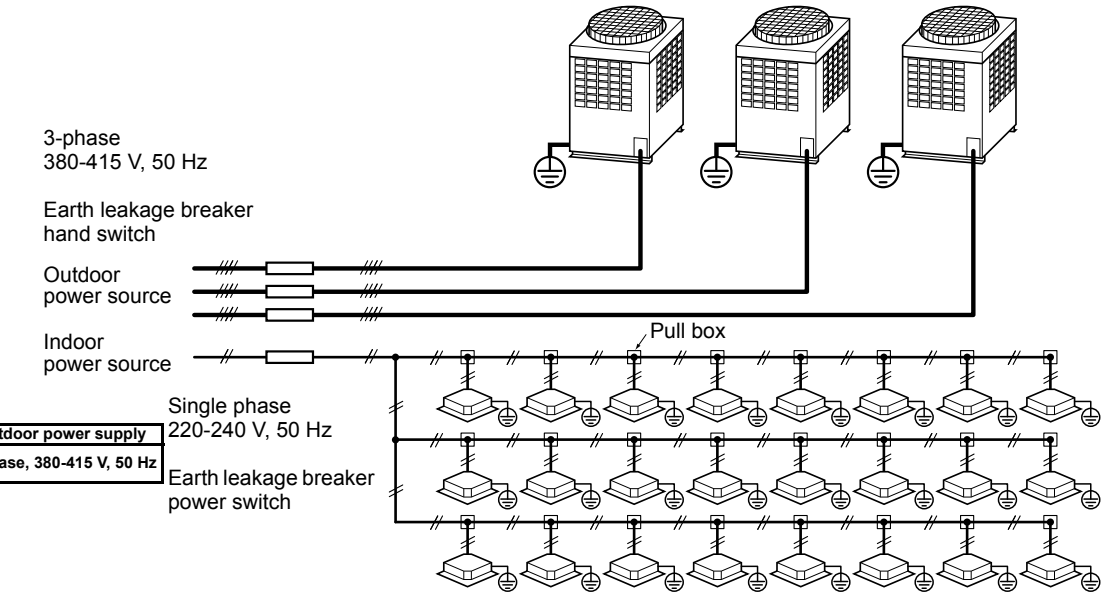
4-2.Summary of wiring design

Design of outdoor unit power supply
- Select the wiring depending on MCA.
- Be sure to set the earth leakage breaker from the viewpoint of safety.

Design of indoor unit power supply
- Select the wiring depending on total current of indoor units.
- Determine the wire size for the length rules.
- Be sure to set the earth leakage breaker from the viewpoint of safety.

Design of control wiring
- Design each control wiring.
  Between outdoor and indoor units,
  Between indoor units/outdoor units
  Between indoor unit and remote controller, central control, BMS
- Select the wire size and type depending on the length rules.

4-3.Electrical wiring design



Model	Outdoor power supply
MMY-MAP/AP***6HT8P-E	3-phase, 380-415 V, 50 Hz

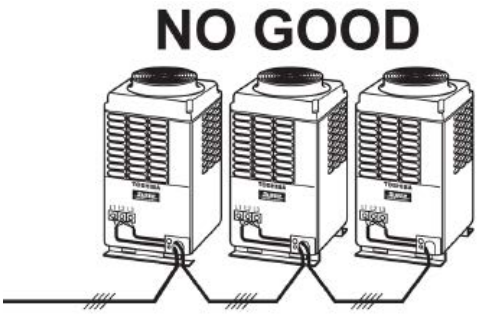
4-4.Outdoor unit power supply

4-4-1.

- Select the power supply cabling and fuse of each outdoor unit from the following specifications: cable 4-core, in conformance with Design 60245 IEC 66
- Do not connect the outdoor units by crossing outside of them, but connect them via the terminal block (L1, L2, L3, N).

Model	Outdoor power supply
MMY-MAP/AP***6HT8P-E	3-phase, 380-415 V, 50 Hz

Outdoor power supply
3-phase
380-415 V, 50 Hz



Outdoor unit data

Standard model

Type	HP	Heat Pump Model	Power Supply		Voltage Range		Compressor			Fan Motor	MCA	MOCP
		MMY-	Phase and frequency	Nominal Voltage	Min. (V)	Max (V)	Unit No.1 (kW)	Unit No.2 (kW)	Unit No.3 (kW)	(kW)	(A)	(A)
Single unit	8	MMY-MAP0806HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	2.1x2	-	-	1.0	20.5	25
	10	MMY-MAP1006HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	3.1x2	-	-	1.0	21.5	25
	12	MMY-MAP1206HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	3.9x2	-	-	1.0	26.1	32
	14	MMY-MAP1406HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	-	-	1.0	31.0	40
	16	MMY-MAP1606HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	-	-	1.0	35.8	40
	18	MMY-MAP1806HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	6.5x2	-	-	2.0	40.6	50
	20	MMY-MAP2006HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	-	-	2.0	44.9	63
	22	MMY-MAP2206HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	9.0x2	-	-	2.0	49.3	63
Combination of outdoor unit	24	MMY-AP2416HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	3.9x2	3.9x2	-	1.0+ 1.0	52.2	63
	26	MMY-AP2616HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	3.9x2	-	1.0+ 1.0	57.1	63
	28	MMY AP2816HT8P-E	3N~ 50 Hz	380 400 415 V	342	456	5.8x2	3.9x2	-	1.0+ 1.0	61.9	80
	30	MMY-AP3016HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	4.8x2	-	1.0+ 1.0	66.8	80
	32	MMY-AP3216HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	5.8x2	-	1.0+ 1.0	71.6	80
	34	MMY-AP3416HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	6.5x2	5.8x2	-	2.0+ 1.0	76.4	100
	36	MMY-AP3616HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	5.8x2	-	2.0+ 1.0	80.7	100
	38	MMY-AP3816HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	9.0x2	5.8x2	-	2.0+ 1.0	85.1	100
	40	MMY-AP4016HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	7.6x2	-	2.0+ 2.0	89.8	100
	42	MMY-AP4216HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	9.0x2	7.6x2	-	2.0+ 2.0	94.2	125
	44	MMY AP4416HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	9.0x2	9.0x2	-	2.0+ 2.0	98.6	125
	46	MMY-AP4616HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	5.8x2	4.8x2	1.0+ 1.0+1.0	102.6	125
	48	MMY-AP4816HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	5.8x2	5.8x2	1.0+ 1.0+1.0	107.4	125
	50	MMY-AP5016HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	6.5x2	5.8x2	5.8x2	2.0+ 1.0+1.0	112.2	125
	52	MMY-AP5216HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	5.8x2	5.8x2	2.0+ 1.0+1.0	116.5	160
	54	MMY-AP5416HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	9.0x2	5.8x2	5.8x2	2.0+ 1.0+1.0	120.9	160
	56	MMY-AP5616HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	7.6x2	5.8x2	2.0+ 2.0+ 1.0	125.6	160
	58	MMY-AP5816HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	9.0x2	7.6x2	5.8x2	2.0+ 2.0+ 1.0	130.0	160
	60	MMY AP6016HT8P-E	3N~ 50 Hz	380 400 415 V	342	456	9.0x2	9.0x2	5.8x2	2.0+ 2.0+ 1.0	134.4	160

High efficiency / Heating capacity priority model

Type	HP	Heat Pump Model	Power Supply		Voltage Range		Compressor			Fan Motor	MCA	MOCP
		MMY-	Phase and frequency	Nominal Voltage	Min. (V)	Max (V)	Unit No.1 (kW)	Unit No.2 (kW)	Unit No.3 (kW)	(kW)	(A)	(A)
Combination of outdoor unit	20	MMY-AP2026HT8P-E	3N~ 50 Hz	380 400 415 V	342	456	3.1x2	3.1x2	-	1.0+ 1.0	43.0	63
	22	MMY-AP2226HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	3.9x2	3.1x2	-	1.0+ 1.0	47.6	63
	36	MMY-AP3626HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	3.9x2	3.9x2	3.9x2	1.0+ 1.0+1.0	78.3	100
	38	MMY-AP3826HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	3.9x2	3.9x2	1.0+ 1.0+1.0	83.2	100
	40	MMY-AP4026HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	4.8x2	3.9x2	1.0+ 1.0+1.0	88.1	100
	42	MMY-AP4226HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	4.8x2	4.8x2	1.0+ 1.0+1.0	93.0	125
	44	MMY-AP4426HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	4.8x2	4.8x2	1.0+ 1.0+1.0	97.8	125
	54	MMY-AP5426HT8P-E	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	7.6x2	4.8x2	2.0+ 2.0+1.0	120.8	160

Note MCA : Minimum Circuit Amps
MCOP : Maximum Overcurrent Protection (Amps)

4-5. Indoor unit power supply

Electrical characteristics for 50 Hz outdoor units

Type	Model name	Capacity rank	Capacity Code	Cooling capacity(kW)	Heating capacity(kW)	Nominal Voltage (V-Ph-Hz)	Voltage Range		Fan Motor		Power Supply	
							Min	Max	kW	FLA	MCA	MOCP
4-way Air Discharge Cassette Type	MMU-AP0094HP1-E	009	1	2.8	3.2	230-1-50	198	264	0.014	0.63	0.79	15
	MMU-AP0124HP1-E	012	1.25	3.6	4.0	230-1-50	198	264	0.014	0.63	0.79	15
	MMU-AP0154HP1-E	015	1.7	4.5	5.0	230-1-50	198	264	0.014	0.80	1.00	15
	MMU-AP0184HP1-E	018	2	5.6	6.3	230-1-50	198	264	0.014	0.80	1.00	15
	MMU-AP0244HP1-E	024	2.5	7.1	8.0	230-1-50	198	264	0.020	0.87	1.09	15
	MMU-AP0274HP1-E	027	3.0	8.0	9.0	230-1-50	198	264	0.020	0.87	1.09	15
	MMU-AP0304HP1-E	030	3.2	9.0	10.0	230-1-50	198	264	0.020	0.87	1.09	15
	MMU-AP0364HP1-E	036	4.0	11.2	12.5	230-1-50	198	264	0.068	1.15	1.44	15
	MMU-AP0484HP1-E	048	5.0	14.0	16.0	230-1-50	198	264	0.072	1.15	1.44	15
	MMU-AP0564HP1-E	056	6	16.0	18.0	230-1-50	198	264	0.072	1.15	1.44	15
Compact 4-way Cassette (600 x 600) Type	MMU-AP0056MH1-E	005	0.6	1.7	1.9	230-1-50	198	264	0.060	0.32	0.40	15
	MMU-AP0074MH1-E	007	0.8	2.2	2.5	230-1-50	198	264	0.060	0.32	0.40	15
	MMU-AP0094MH1-E	009	1	2.8	3.2	230-1-50	198	264	0.060	0.35	0.44	15
	MMU-AP0124MH1-E	012	1.25	3.6	4.0	230-1-50	198	264	0.060	0.36	0.45	15
	MMU-AP0154MH1-E	015	1.7	4.5	5.0	230-1-50	198	264	0.060	0.48	0.60	15
	MMU-AP0184MH1-E	018	2	5.6	6.3	230-1-50	198	264	0.060	0.48	0.60	15
Compact 4-way Cassette (600 x 600) Type	MMU-AP0057MH-E	005	0.6	1.7	1.9	230-1-50	198	264	0.060	0.18	0.23	15
	MMU-AP0077MH-E	007	0.8	2.2	2.5	230-1-50	198	264	0.060	0.26	0.33	15
	MMU-AP0097MH-E	009	1	2.8	3.2	230-1-50	198	264	0.060	0.28	0.35	15
	MMU-AP0127MH-E	012	1.25	3.6	4.0	230-1-50	198	264	0.060	0.29	0.36	15
	MMU-AP0157MH-E	015	1.7	4.5	5.0	230-1-50	198	264	0.060	0.47	0.59	15
	MMU-AP0187MH-E	018	2	5.6	6.3	230-1-50	198	264	0.060	0.53	0.66	15
2-way Air Discharge Cassette Type	MMU-AP0072WH1	007	0.8	2.2	2.5	230-1-50	198	264	0.020	0.32	0.40	15
	MMU-AP0092WH1	009	1	2.8	3.2	230-1-50	198	264	0.020	0.32	0.40	15
	MMU-AP0122WH1	012	1.25	3.6	4.0	230-1-50	198	264	0.020	0.32	0.40	15
	MMU-AP0152WH1	015	1.7	4.5	5.0	230-1-50	198	264	0.020	0.32	0.40	15
	MMU-AP0182WH1	018	2	5.6	6.3	230-1-50	198	264	0.030	0.70	0.88	15
	MMU-AP0242WH1	024	2.5	7.1	8.0	230-1-50	198	264	0.040	0.81	1.01	15
	MMU-AP0272WH1	027	3	8.0	9.0	230-1-50	198	264	0.040	0.81	1.01	15
	MMU-AP0302WH1	030	3.2	9.0	10.0	230-1-50	198	264	0.050	0.81	1.01	15
	MMU-AP0362WH1	036	4.0	11.2	12.5	230-1-50	198	264	0.070	0.87	1.09	15
	MMU-AP0482WH1	048	5.0	14.0	16.0	230-1-50	198	264	0.070	0.87	1.09	15
	MMU-AP0562WH1	056	6	16.0	18.0	230-1-50	198	264	0.070	0.87	1.09	15
1-way Air Discharge Cassette Type	MMU-AP0074YH1-E	007	0.8	2.2	2.5	230-1-50	198	264	0.022	0.28	0.35	15
	MMU-AP0094YH1-E	009	1.0	2.8	3.2	230-1-50	198	264	0.022	0.28	0.35	15
	MMU-AP0124YH1-E	012	1.3	3.6	4.0	230-1-50	198	264	0.022	0.28	0.35	15
	MMU-AP0154SH1-E	015	1.7	4.5	5.0	230-1-50	198	264	0.030	0.40	0.49	15
	MMU-AP0184SH1-E	018	2.0	5.6	6.3	230-1-50	198	264	0.030	0.42	0.53	15
	MMU-AP0244SH1-E	024	2.5	7.1	8.0	230-1-50	198	264	0.030	0.71	0.88	15
Concealed Duct Type	MMD-AP0076BHP1-E	007	0.8	2.2	2.5	230-1-50	198	264	0.120	0.30	0.37	15
	MMD-AP0096BHP1-E	009	1.0	2.8	3.2	230-1-50	198	264	0.150	0.34	0.42	15
	MMD-AP0126BHP1-E	012	1.25	3.6	4.0	230-1-50	198	264	0.150	0.34	0.42	15
	MMD-AP0156BHP1-E	015	1.70	4.5	5.0	230-1-50	198	264	0.150	0.48	0.61	15
	MMD-AP0186BHP1-E	018	2.0	5.6	6.3	230-1-50	198	264	0.150	0.48	0.61	15
	MMD-AP0246BHP1-E	024	2.50	7.1	8.0	230-1-50	198	264	0.150	0.60	0.75	15
	MMD-AP0276BHP1-E	027	3.0	8.0	9.0	230-1-50	198	264	0.150	0.60	0.75	15
	MMD-AP0306BHP1-E	030	3.20	9.0	10.0	230-1-50	198	264	0.150	0.70	0.88	15
	MMD-AP0366BHP1-E	036	4.00	11.2	12.5	230-1-50	198	264	0.250	1.23	1.54	15
	MMD-AP0486BHP1-E	048	5.00	14.0	16.0	230-1-50	198	264	0.250	1.41	1.77	15
	MMD-AP0566BHP1-E	056	6.00	16.0	18.0	230-1-50	198	264	0.250	1.41	1.77	15
Slim Duct Type	MMD-AP0056SPH1-E	005	0.6	1.7	1.9	230-1-50	198	264	0.060	0.35	0.44	15
	MMD-AP0074SPH1-E	007	0.80	2.2	2.5	230-1-50	198	264	0.060	0.35	0.44	15
	MMD-AP0094SPH1-E	009	1.0	2.8	3.2	230-1-50	198	264	0.060	0.35	0.44	15
	MMD-AP0124SPH1-E	012	1.25	3.6	4.0	230-1-50	198	264	0.060	0.37	0.47	15
	MMD-AP0154SPH1-E	015	1.70	4.5	5.0	230-1-50	198	264	0.060	0.38	0.48	15
	MMD-AP0184SPH1-E	018	2.00	5.6	6.3	230-1-50	198	264	0.060	0.47	0.59	15
	MMD-AP0244SPH1-E	024	2.25	7.1	8.0	230-1-50	198	264	0.120	0.86	1.08	15
	MMD-AP0274SPH1-E	027	3.0	8.0	9.0	230-1-50	198	264	0.120	0.86	1.08	15
Concealed Duct High Static Pressure Type	MMD-AP0186HP1-E	018	2.0	5.6	6.3	230-1-50	198	264	0.250	1.02	1.28	15
	MMD-AP0246HP1-E	024	2.5	7.1	8.0	230-1-50	198	264	0.250	1.33	1.66	15
	MMD-AP0276HP1-E	027	3.0	8.0	9	230-1-50	198	264	0.250	1.33	1.66	15
	MMD-AP0366HP1-E	036	4.0	11.2	12.5	230-1-50	198	264	0.350	2.22	2.78	15
	MMD-AP0486HP1-E	048	5.0	14.0	16.0	230-1-50	198	264	0.350	2.40	2.99	15
	MMD-AP0566HP1-E	056	6.0	16.0	18.0	230-1-50	198	264	0.350	2.57	3.22	15
	MMD-AP0726HP-E	072	8.0	22.4	25.0	230-1-50	198	264	0.37x3	6.04	7.55	15
	MMD-AP0966HP-E	096	10.0	28.0	31.5	230-1-50	198	264	0.37x3	6.35	7.94	15
Under Ceiling Type	MMC-AP0158HP-E	015	1.7	4.5	5.0	230-1-50	198	264	0.094	0.41	0.52	15
	MMC-AP0188HP-E	018	2.0	5.6	6.3	230-1-50	198	264	0.094	0.42	0.53	15
	MMC-AP0248HP-E	024	2.5	7.1	8.0	230-1-50	198	264	0.094	0.75	0.93	15
	MMC-AP0278HP-E	027	3.0	8.0	9.0	230-1-50	198	264	0.094	0.75	0.93	15
	MMC-AP0368HP-E	036	4.0	11.2	12.5	230-1-50	198	264	0.139	0.89	1.11	15
	MMC-AP0488HP-E	048	5.0	14.0	16.0	230-1-50	198	264	0.139	0.89	1.11	15
	MMC-AP0568HP-E	056	6.0	16.0	18.0	230-1-50	198	264	0.139	1.14	1.43	15

Electrical characteristics for 50 Hz outdoor units

Type	Model name	Capacity rank	Capacity Code	Cooling capacity(kW)	Heating capacity(kW)	Nominal Voltage (V-Ph-Hz)	Voltage Range Min	Voltage Range Max	Fan Motor kW	Fan Motor FLA	Power Supply MCA	Power Supply MOCP
High Wall Type 3 series	MMK-AP0073H1	007	0.8	2.2	2.5	230-1-50	198	264	0.030	0.20	0.22	15
	MMK-AP0093H1	009	1.0	2.8	3.2	230-1-50	198	264	0.030	0.22	0.24	15
	MMK-AP0123H1	012	1.25	3.6	4.0	230-1-50	198	264	0.030	0.22	0.24	15
	MMK-AP0153H1	015	1.7	4.5	5.0	230-1-50	198	264	0.030	0.37	0.40	15
	MMK-AP0183H1	018	2.0	5.6	6.3	230-1-50	198	264	0.030	0.37	0.40	15
	MMK-AP0243H1	024	2.5	7.1	8	230-1-50	198	264	0.030	0.43	0.47	15
High Wall Type 3 series (Without PMV)	MMK-AP0073HP1-E1	007	0.8	2.2	2.5	230-1-50	198	264	0.030	0.20	0.22	15
	MMK-AP0093HP1-E1	009	1.0	2.8	3.2	230-1-50	198	264	0.030	0.22	0.24	15
	MMK-AP0123HP1-E1	012	1.25	3.6	4.0	230-1-50	198	264	0.030	0.22	0.24	15
	MMK-AP0153HP1-E1	015	1.7	4.5	5.0	230-1-50	198	264	0.030	0.37	0.40	15
	MMK-AP0183HP1-E1	018	2.0	5.6	6.3	230-1-50	198	264	0.030	0.37	0.40	15
	MMK-AP0243HP1-E1	024	2.5	7.1	8	230-1-50	198	264	0.030	0.43	0.47	15
High Wall Type 7 series	MMK-AP0057HP-E	005	0.6	1.7	1.9	230-1-50	198	264	0.030	0.16	0.20	15
	MMK-AP0077HP-E	007	0.8	2.2	2.5	230-1-50	198	264	0.030	0.17	0.21	15
	MMK-AP0097HP-E	009	1	2.8	3.2	230-1-50	198	264	0.030	0.18	0.23	15
	MMK-AP0127HP-E	012	1.25	3.6	4	230-1-50	198	264	0.030	0.20	0.25	15
	MMK-AP0157HP-E	015	1.7	4.5	5.0	230-1-50	198	264	0.042	0.29	0.36	15
	MMK-AP0187HP-E	018	2.0	5.6	6.3	230-1-50	198	264	0.042	0.32	0.40	15
	MMK-AP0247HP-E	024	2.5	7.1	8.0	230-1-50	198	264	0.042	0.46	0.58	15
High Wall Type 7 series (Without PMV)	MMK-AP0057HP-E1	005	0.6	1.7	1.9	230-1-50	198	264	0.030	0.16	0.20	15
	MMK-AP0077HP-E1	007	0.8	2.2	2.5	230-1-50	198	264	0.030	0.17	0.21	15
	MMK-AP0097HP-E1	009	1	2.8	3.2	230-1-50	198	264	0.030	0.18	0.23	15
	MMK-AP0127HP-E1	012	1.25	3.6	4	230-1-50	198	264	0.030	0.20	0.25	15
	MMK-AP0157HP-E1	015	1.7	4.5	5.0	230-1-50	198	264	0.042	0.29	0.36	15
	MMK-AP0187HP-E1	018	2.0	5.6	6.3	230-1-50	198	264	0.042	0.32	0.40	15
	MMK-AP0247HP-E1	024	2.5	7.1	8.0	230-1-50	198	264	0.042	0.46	0.58	15
Floor Standing Concealed Type	MML-AP0074BH1-E	007	0.8	2.2	2.5	230-1-50	198	264	0.019	0.29	0.36	15
	MML-AP0094BH1-E	009	1	2.8	3.2	230-1-50	198	264	0.019	0.29	0.36	15
	MML-AP0124BH1-E	012	1.25	3.6	4	230-1-50	198	264	0.019	0.29	0.36	15
	MML-AP0154BH1-E	015	1.7	4.5	5	230-1-50	198	264	0.070	0.52	0.65	15
	MML-AP0184BH1-E	018	2	5.6	6.3	230-1-50	198	264	0.070	0.52	0.65	15
	MML-AP0244BH1-E	024	2.5	7.1	8	230-1-50	198	264	0.070	0.53	0.66	15
Floor Standing Cabinet Type	MML-AP0074H1-E	007	0.8	2.2	2.5	230-1-50	198	264	0.045	0.30	0.37	15
	MML-AP0094H1-E	009	1	2.8	3.2	230-1-50	198	264	0.045	0.30	0.37	15
	MML-AP0124H1-E	012	1.25	3.6	4	230-1-50	198	264	0.045	0.49	0.62	15
	MML-AP0154H1-E	015	1.7	4.5	5	230-1-50	198	264	0.045	0.49	0.62	15
	MML-AP0184H1-E	018	2	5.6	6.3	230-1-50	198	264	0.070	0.54	0.68	15
	MML-AP0244H1-E	024	2.5	7.1	8	230-1-50	198	264	0.070	0.54	0.68	15
Floor Standing Type	MMF-AP0156H1-E	015	1.7	4.5	5	230-1-50	198	264	0.062	0.44	0.56	15
	MMF-AP0186H1-E	018	2	5.6	6.3	230-1-50	198	264	0.062	0.44	0.56	15
	MMF-AP0246H1-E	024	2.5	7.1	8	230-1-50	198	264	0.062	0.69	0.86	15
	MMF-AP0276H1-E	027	3	8	9	230-1-50	198	264	0.062	0.69	0.86	15
	MMF-AP0366H1-E	036	4	11.2	12.5	230-1-50	198	264	0.109	1.04	1.29	15
	MMF-AP0486H1-E	048	5	14	16	230-1-50	198	264	0.109	1.27	1.58	15
	MMF-AP0566H1-E	056	6.0	16.0	18	230-1-50	198	264	0.109	1.27	1.58	15
Console Type	MML-AP0074NH1-E	007	0.8	2.2	2.5	230-1-50	198	264	0.041	0.21	0.26	15
	MML-AP0094NH1-E	009	1	2.8	3.2	230-1-50	198	264	0.041	0.21	0.26	15
	MML-AP0124NH1-E	012	1.3	4	4	230-1-50	198	264	0.041	0.25	0.31	15
	MML-AP0154NH1-E	015	1.7	5	5	230-1-50	198	264	0.041	0.32	0.40	15
	MML-AP0184NH1-E	018	2.0	5.6	6.3	230-1-50	198	264	0.041	0.46	0.58	15
Fresh Air Intake Indoor unit Type	MMD-AP0481HFE	048	5	14	8.9	230-1-50	198	264	0.160	0.28	0.35	15
	MMD-AP0721HFE	072	8	22.4	13.9	230-1-50	198	264	0.160x2	0.45	0.56	15
	MMD-AP0961HFE	096	10	28	17.4	230-1-50	198	264	0.160x2	0.52	0.65	15
Hot Water Module	MMW-AP0271LQ-E	027	3	-	9	230-1-50	198	264	-	-	0.90	15
	MMW-AP0561LQ-E	056	6	-	18.0	230-1-50	198	264	-	-	0.90	15
Air to Air Heat exchanger with DX-coil Type	MMD-VN502HEX1E	009	1.0	4.1(1.30)*	5.53(2.33)*	230-1-50	198	264	0.248	1.50	1.70	15
	MMD-VN802HEX1E	015	1.7	6.56(2.06)*	8.61(3.61)*	230-1-50	198	264	0.254	2.60	3.00	15
	MMD-VN1002HEX1E	018	2.0	8.25(2.32)*	10.92(4.32)*	230-1-50	198	264	0.568	2.90	3.50	15
Air to Air Heat exchanger with DX-coil Humidifier Type	MMD-VNK502HEX1E	009	1	4.1(1.30)*	5.53(2.33)*	230-1-50	198	264	0.248	1.50	1.70	15
	MMD-VNK802HEX1E	015	1.7	6.56(2.06)*	8.61(3.61)*	230-1-50	198	264	0.254	2.60	2.90	15
	MMD-VNK1002HEX1E	018	2	8.25(2.32)*	10.92(4.32)*	230-1-50	198	264	0.568	2.90	3.40	15

*** : The figures in ( ) indicate the heat reclaimed from the heat recovery ventilator.**

- **Wiring size**

Must be independent from the outdoor unit power supply

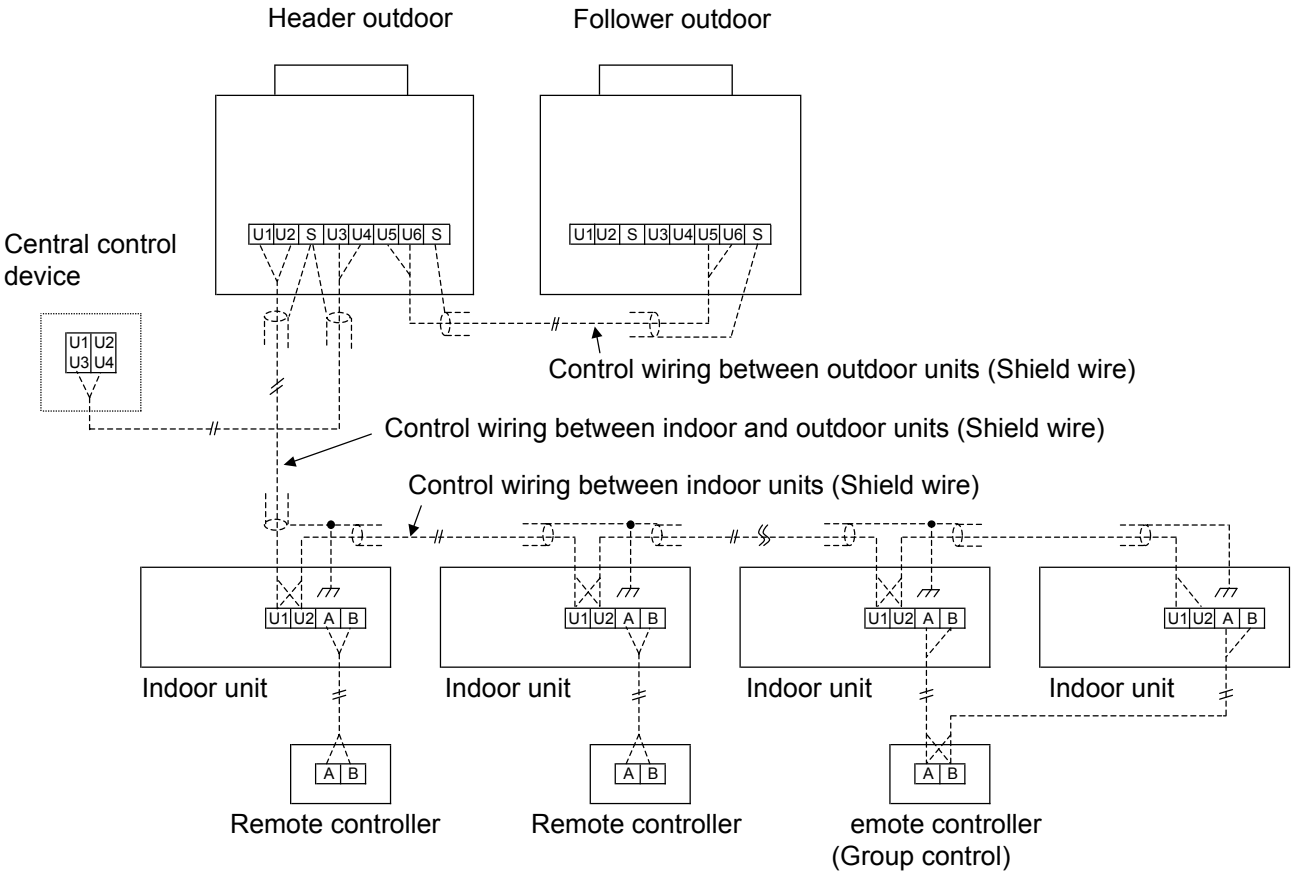
Item / Model	Power supply wiring			
	Wire size			
All models of indoor units	2.0 mm^2 (AWG#14)	Max. 20 m	3.5 mm^2 (AWG#12)	Max. 50 m

NOTE:

The above connecting lengths stated in the table, indicate the length from the isolator to the outdoor unit. When the power supply of the indoor units are connected in parallel, it is assumed that no more than a 2 % voltage drop will occur. If the connecting length is to exceed the stated lengths, select a suitable wire in accordance with the local wiring standards.

4-6.Design of control wiring

• Summary of control wiring



- Communication wiring and central control wiring use 2-core non-polarity wires.
  Use 2-core shield wires to prevent noise trouble.
  In this case, both ends of the communication wire must be grounded.
- Use 2-core non-polarity wire for remote contoller. (A, B terminals)
  Use 2-core non-polarity wire for wiring of group control. (A, B terminals)

• Restriction of control wiring

Be sure to keep the rule of below tables about size and length of control wiring.

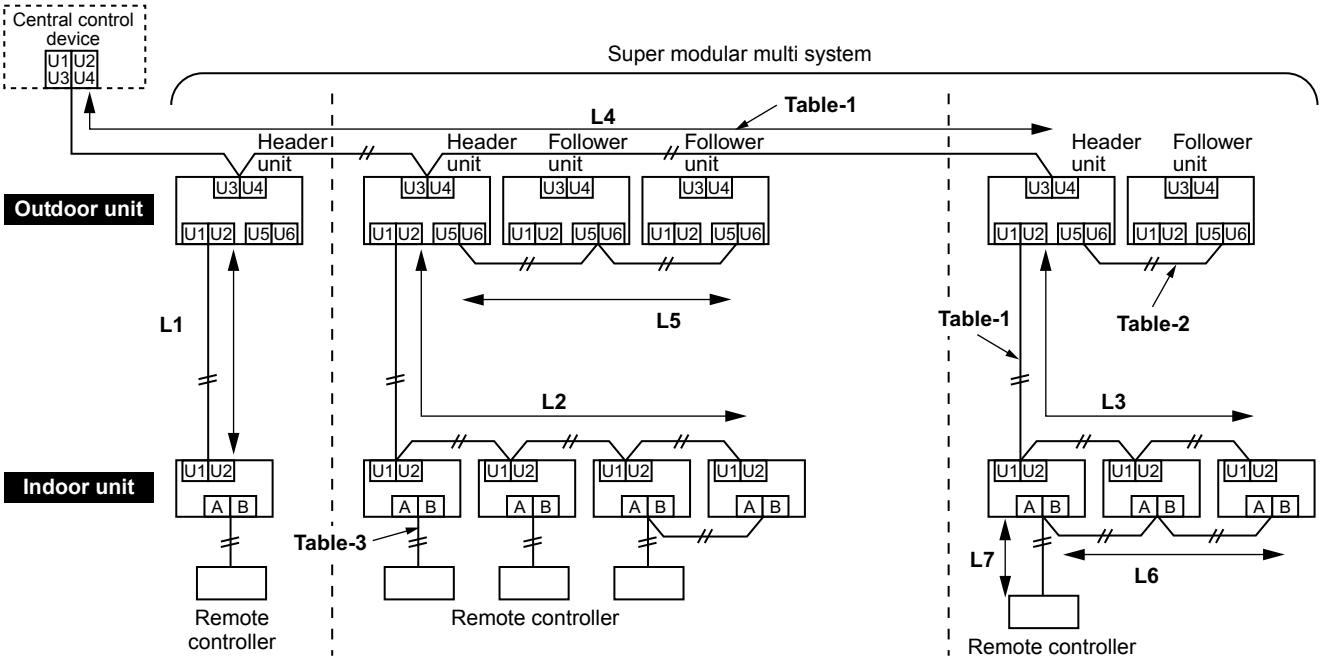


Table-1 Control wiring between indoor and outdoor units (L1, L2, L3), Central control wiring (L4)

Wiring	2-core, non-polarity
Type	Shield wire
Size/Length	1.25 mm^2: Up to 1000 m/2.0 mm^2: Up to 2000 m (*1)

Note (*1): Total length of control wiring length for all refrigerant circuits (L1 + L2 + L3 + L4)

Table-2 Control wiring between outdoor units (L5)

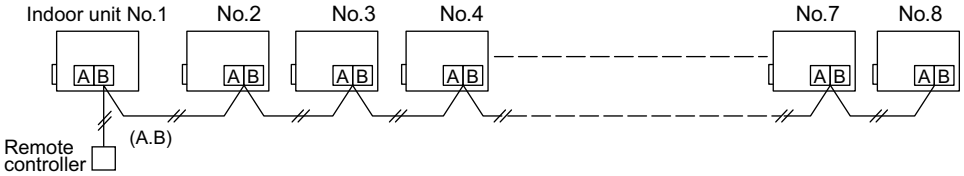
Wiring	2-core, non-polarity
Type	Shield wire
Size/Length	1.25 mm^2 to 2.0 mm^2/Up to 100 m (L5)

Table-3 Remote controller wiring (L6, L7)

Wire	2-core
Size	0.5 mm^2 to 2.0 mm^2
Length	• Up to 500 m (L6 + L7) • Up 400 m in case of wireless remote controller in group control. • Up to 200 m total length of control wiring between indoor units (L6)

• Group Operation through a Remote Controller

Group operation of multiple indoor units (8 units) through a single remote controller switch



5-1. Specifications

Standard model

Model name		Heat pump		MMY-MAP0806HT8P-E	MMY-MAP1006HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1406HT8P-E
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	22.4	28.0	33.5	40.0
Heating capacity (*1)			kW	25.0	31.5	37.5	45.0
Capacity range			HP	8	10	12	14
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342	342	342
		Maximum	V	456	456	456	456
Electrical characteristic (*1)	Cooling	Running current	A	8.79	12.1	15.5	19.5
		Power input	kW	5.54	7.69	10.0	12.3
		EER	kW/kW	4.04	3.64	3.35	3.25
	Heating	Running current	A	8.77	11.6	15.0	17.8
		Power input	kW	5.53	7.41	9.65	11.2
		COP	kW/kW	4.52	4.25	3.89	4.02
	Starting current		A	Soft Start	Soft Start	Soft Start	Soft Start
Dimension		Height	mm	1830	1830	1830	1830
		Width	mm	990	990	990	1210
		Depth	mm	780	780	780	780
Weight		Heat pump	kg	242	242	242	300
Color				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor		Type		Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor
		Motor output	kW	2.1x2	3.1x2	3.9x2	4.8x2
Fan unit		Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
		Motor output	W	1.0	1.0	1.0	1.0
		Air volume	m3/h	9700	9700	12200	12200
Max. external static pressure			Pa	60	60	50	50
Heat exchanger				Finned tube	Finned tube	Finned tube	Finned tube
Refrigerant	Name			R410A	R410A	R410A	R410A
	Charge	Heat pump	kg	11.5	11.5	11.5	11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)	(*3)	(*3)
Power supply wiring		MCA (*4)	A	20.5	21.5	26.1	31.0
		MOCP (*5)	A	25.0	25.0	32.0	40.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing	Brazing
		Diameter	mm	19.1	22.2	28.6	28.6
	Liquid	Type		Flare	Flare	Flare	Flare
		Diameter	mm	12.7	12.7	12.7	15.9 or 12.7 (*8)
	Balance	Type		Flare	Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5	9.5
Max. number of connected indoor units				18	22	27	31
Sound pressure level		Cooling	dB(A)	55.0	57.0	59.0	60.0
		Heating	dB(A)	56.0	58.0	61.0	62.0
Sound power level		Cooling	dB(A)	74.0	74.0	80.0	80.0
		Heating	dB(A)	74.0	74.0	82.0	82.0
Operation temperature range		Cooling(*7)	CDB	-10.0 to 46.0	-10.0 to 46.0	-10.0 to 46.0	-10.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions — Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC Wet Bulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

(*7) Low ambient cooling (-5 deg C or less) is limited to application.

(*8) This pipe size can be used in refrigerant saving condition. Refrigerant saving condition can be adopted under all the conditions below,
- Real length of main piping (L1) : 50m or less
- Height difference between outdoor and indoor units (H1) : 30m or less
- Total capacity codes of all outdoor units is 14HP to below 46HP.

Model name		Heat pump		MMY-MAP1606HT8P-E	MMY-MAP1806HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP2206HT8P-E
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	45.0	50.4	56.0	61.5
Heating capacity (*1)			kW	50.0	56.0	63.0	64.0
Capacity range			HP	16	18	20	22
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342	342	342
		Maximum	V	456	456	456	456
Electrical characteristic (*1)	Cooling	Running current	A	22.4	22.9	26.8	35.6
		Power input	kW	14.3	14.6	17.3	23.2
		EER	kW/kW	3.15	3.45	3.24	2.65
	Heating	Running current	A	20.2	22.1	26.1	26.5
		Power input	kW	12.9	14.1	17.0	17.1
		COP	kW/kW	3.88	3.97	3.71	3.74
	Starting current		A	Soft Start	Soft Start	Soft Start	Soft Start
Dimension		Height	mm	1830	1830	1830	1830
		Width	mm	1210	1600	1600	1600
		Depth	mm	780	780	780	780
Weight		Heat pump	kg	300	371	371	371
Colour				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor		Type		Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor
		Motor output	kW	5.8x2	6.5x2	7.6x2	9.0x2
Fan unit		Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan
		Motor output	kW	1.0	2.0	2.0	2.0
		Air volume	m3/h	12600	17300	17900	18500
Max. external static pressure			Pa	40	50	40	40
Heat exchanger				Finned tube	Finned tube	Finned tube	Finned tube
Refrigerant	Name			R410A	R410A	R410A	R410A
	Charge	Heat pump	kg	11.5	11.5	11.5	11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)	(*3)	(*3)
Power supply wiring		MCA (*4)	A	35.8	40.6	44.9	49.3
		MOCP (*5)	A	40.0	50.0	63.0	63.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing	Brazing
		Diameter	mm	28.6	28.6	28.6	28.6
	Liquid	Type		Flare	Flare	Flare	Flare
		Diameter	mm	15.9 or 12.7 (*8)	15.9 or 12.7 (*8)	15.9 or 12.7 (*8)	19.1 or 15.9 (*8)
	Balance	Type		Flare	Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5	9.5
Max. number of connected indoor units				36	40	45	49
Sound pressure level		Cooling	dB(A)	62.0	60.0	61.0	61.0
		Heating	dB(A)	64.0	61.0	62.0	62.0
Sound power level		Cooling	dB(A)	81.0	81.0	82.0	83.0
		Heating	dB(A)	83.0	83.0	84.0	84.0
Operation temperature range		Cooling(*7)	CDB	-10.0 to 46.0	-10.0 to 46.0	-10.0 to 46.0	-10.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC Wet Bulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

(*7) Low ambient cooling (-5 deg C or less) is limited to application.

(*8) This pipe size can be used in refrigerant saving condition. Refrigerant saving condition can be adopted under all the conditions below,
- Real length of main piping (L1) : 50m or less
- Height difference between outdoor and indoor units (H1) : 30m or less
- Total capacity codes of all outdoor units is 14HP to below 46HP.

Model	Name	Heat pump		MMY-AP2416HT8P-E	MMY-AP2616HT8P-E	MMY-AP2816HT8P-E	MMY-AP3016HT8P-E
	Combination	Heat pump		MMY-MAP1206HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E
				MMY-MAP1206HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1406HT8P-E
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	67.0	73.5	78.5	85.0
Heating capacity (*1)			kW	75.0	82.5	87.5	95.0
Capacity range			HP	24	26	28	30
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342	342	342
		Maximum	V	456	456	456	456
Electrical characteristic (*1)	Cooling	Running current	A	31.0	35.0	37.9	41.9
		Power input	kW	20.0	22.3	24.3	26.6
		EER	kW/kW	3.35	3.3	3.23	3.2
	Heating	Running current	A	30.0	32.8	35.2	38.0
		Power input	kW	19.3	20.9	22.6	24.1
		COP	kW/kW	3.89	3.96	3.88	3.94
	Starting current		A	Soft Start	Soft Start	Soft Start	Soft Start
Weight	Heat pump		kg	242 + 242	300 + 242	300 + 242	300 + 300
Colour				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor	Type			Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor
	Motor output		kW	3.9x2 + 3.9x2	4.8x2 + 3.9x2	5.8x2 + 3.9x2	5.8x2 + 4.8x2
Fan unit	Fan			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor output		kW	1.0 + 1.0	1.0 + 1.0	1.0 + 1.0	1.0 + 1.0
	Air volume		m3/h	12200 + 12200	12200 + 12200	12600 + 12200	12600 + 12200
Max. external static pressure			Pa	50	50	40	40
Heat exchanger				Finned tube	Finned tube	Finned tube	Finned tube
Refrigerant	Name			R410A	R410A	R410A	R410A
	Charge	Heat pump	kg	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)	(*3)	(*3)
Power supply wiring		MCA (*4)	A	52.2	57.1	61.9	66.8
		MOCP (*5)	A	63.0	63.0	80.0	80.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing	Brazing
		Diameter	mm	34.9	34.9	34.9	34.9
	Liquid	Type		Flare	Flare	Flare	Flare
		Diameter	mm	19.1 or 15.9 (*7)	19.1 or 15.9 (*7)	19.1 or 15.9 (*7)	19.1 or 15.9 (*7)
	Balance	Type		Flare	Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5	9.5
Max. number of connected indoor units				54	58	63	64
Sound pressure level		Cooling	dB(A)	62.0	62.5	64.0	64.5
		Heating	dB(A)	64.0	64.5	66.0	66.5
Sound power level		Cooling	dB(A)	83.0	83.0	83.5	83.5
		Heating	dB(A)	85.0	85.0	85.5	85.5
Operation temperature range		Cooling	CDB	-5.0 to 46.0	-5.0 to 46.0	-5.0 to 46.0	-5.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC Wet Bulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

(*7) Low ambient cooling (-5 deg C or less) is limited to application.

(*8) This pipe size can be used in refrigerant saving condition. Refrigerant saving condition can be adopted under all the conditions below,
- Real length of main piping (L1) : 50m or less
- Height difference between outdoor and indoor units (H1) : 30m or less
- Total capacity codes of all outdoor units is 14HP to below 46HP.

Model	Name	Heat pump		MMY-AP3216HT8P-E	MMY-AP3416HT8P-E	MMY-AP3616HT8P-E	MMY-AP3816HT8P-E
	Combination	Heat pump		MMY-MAP1606HT8P-E	MMY-MAP1806HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP2206HT8P-E
				MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	90.0	95.4	101.0	106.5
Heating capacity (*1)			kW	100.0	106.0	113.0	114.0
Capacity range			HP	32	34	36	38
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342	342	342
		Maximum	V	456	456	456	456
Electrical characteristic (*1)	Cooling	Running current	A	44.8	45.3	49.2	58.0
		Power input	kW	28.6	28.9	31.6	37.5
		EER	kW/kW	3.15	3.3	3.2	2.84
	Heating	Running current	A	40.4	42.3	46.3	46.7
		Power input	kW	25.8	27.0	29.9	30.0
		COP	kW/kW	3.88	3.93	3.78	3.8
	Starting current		A	Soft Start	Soft Start	Soft Start	Soft Start
Weight	Heat pump		kg	300 + 300	371 + 300	371 + 300	371 + 300
Colour				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor	Type			Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor
	Motor output		kW	5.8x2 + 5.8x2	6.5x2 + 5.8x2	7.6x2 + 5.8x2	9.0x2 + 5.8x2
Fan unit	Fan			Propeller fan	Propeller fan	Propeller fan	Propeller fan
	Motor output		kW	1.0 + 1.0	2.0 + 1.0	2.0 + 1.0	2.0 + 1.0
	Air volume		m3/h	12600 + 12600	17300 + 12600	17900 + 12600	18500 + 12600
Max. external static pressure			Pa	40	40	40	40
Heat exchanger				Finned tube	Finned tube	Finned tube	Finned tube
Refrigerant	Name			R410A	R410A	R410A	R410A
	Charge	Heat pump	kg	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)	(*3)	(*3)
Power supply wiring		MCA (*4)	A	71.6	76.4	80.7	85.1
		MOCP (*5)	A	80.0	100.0	100.0	100.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing	Brazing
		Diameter	mm	34.9	34.9	41.3	41.3
	Liquid	Type		Flare	Flare	Flare	Flare
		Diameter	mm	19.1 or 15.9 (*7)	19.1 or 15.9 (*7)	22.2 or 19.1 (*7)	22.2 or 19.1 (*7)
	Balance	Type		Flare	Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5	9.5
Max. number of connected indoor units				64	64	64	64
Sound pressure level		Cooling	dB(A)	65.0	64.5	64.5	64.5
		Heating	dB(A)	67.0	66.0	66.5	66.5
Sound power level		Cooling	dB(A)	84.0	84.0	84.5	85.5
		Heating	dB(A)	86.0	86.0	86.5	86.5
Operation temperature range		Cooling	CDB	-5.0 to 46.0	-5.0 to 46.0	-5.0 to 46.0	-5.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC Wet Bulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

(*7) Low ambient cooling (-5 deg C or less) is limited to application.

(*8) This pipe size can be used in refrigerant saving condition. Refrigerant saving condition can be adopted under all the conditions below,
- Real length of main piping (L1) : 50m or less
- Height difference between outdoor and indoor units (H1) : 30m or less
- Total capacity codes of all outdoor units is 14HP to below 46HP.

Model	Name	Heat pump		MMY-AP4016HT8P-E	MMY-AP4216HT8P-E	MMY-AP4416HT8P-E
	Combination	Heat pump		MMY-MAP2006HT8P-E	MMY-MAP2206HT8P-E	MMY-MAP2206HT8P-E
				MMY-MAP2006HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP2206HT8P-E
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	112.0	117.5	123.0
Heating capacity (*1)			kW	126.0	127.0	128.0
Capacity range			HP	40	42	44
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342	342
		Maximum	V	456	456	456
Electrical characteristic (*1)	Cooling	Running current	A	53.6	62.4	71.2
		Power input	kW	34.6	40.5	46.4
		EER	kW/kW	3.24	2.9	2.65
	Heating	Running current	A	52.2	52.6	53.0
		Power input	kW	34.0	34.1	34.2
		COP	kW/kW	3.71	3.72	3.74
	Starting current		A	Soft Start	Soft Start	Soft Start
Weight	Heat pump		kg	371 + 371	371 + 371	371 + 371
Colour				Silky shade	Silky shade	Silky shade
Compressor	Type			Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor
	Motor output		kW	7.6x2 + 7.6x2	9.0x2 + 7.6x2	9.0x2 + 9.0x2
Fan unit	Fan			Propeller fan	Propeller fan	Propeller fan
	Motor output		kW	2.0 + 2.0	2.0 + 2.0	2.0 + 2.0
	Air volume		m3/h	17900 + 17900	18500 + 17900	18500 + 18500
Max. external static pressure			Pa	40	40	40
Heat exchanger				Finned tube	Finned tube	Finned tube
Refrigerant	Name			R410A	R410A	R410A
	Charge	Heat pump	kg	11.5 + 11.5	11.5 + 11.5	11.5 + 11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)	(*3)
Power supply wiring		MCA (*4)	A	89.8	94.2	98.6
		MOCP (*5)	A	100.0	125.0	125.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing
		Diameter	mm	41.3	41.3	41.3
	Liquid	Type		Flare	Flare	Flare
		Diameter	mm	22.2 or 19.1 (*7)	22.2 or 19.1 (*7)	22.2 or 19.1 (*7)
	Balance	Type		Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5
Max. number of connected indoor units				64	64	64
Sound pressure level		Cooling	dB(A)	64.0	64.0	64.0
		Heating	dB(A)	65.0	65.0	65.0
Sound power level		Cooling	dB(A)	85.0	85.5	86.0
		Heating	dB(A)	87.0	87.0	87.0
Operation temperature range		Cooling	CDB	-5.0 to 46.0	-5.0 to 46.0	-5.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC WetBulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

(*7) This pipe size can be used in refrigerant saving condition. Refrigerant saving condition can be adopted under all the conditions below,
- Real length of main piping (L1) : 50m or less
- Height difference between outdoor and indoor units (H1) : 30m or less
- Total capacity codes of all outdoor units is 14HP to below 46HP.

Model	Name	Heat pump		MMY-AP4616HT8P-E	MMY-AP4816HT8P-E	MMY-AP5016HT8P-E
	Combination	Heat pump		MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1806HT8P-E
				MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E
				MMY-MAP1406HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	130.0	135.0	140.4
Heating capacity (*1)			kW	145.0	150.0	156.0
Capacity range			HP	46	48	50
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342	342
		Maximum	V	456	456	456
Electrical characteristic (*1)	Cooling	Running current	A	64.3	67.2	67.7
		Power input	kW	40.9	42.9	43.2
		EER	kW/kW	3.18	3.15	3.25
	Heating	Running current	A	58.2	60.6	62.5
		Power input	kW	37.0	38.7	39.9
		COP	kW/kW	3.92	3.88	3.91
	Starting current		A	Soft Start	Soft Start	Soft Start
Weight	Heat pump		kg	300 + 300 + 300	300 + 300 + 300	371 + 300 + 300
Colour				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor	Type			Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor
	Motor output		kW	5.8x2 + 5.8x2 + 4.8x2	5.8x2 + 5.8x2 + 5.8x2	6.5x2 + 5.8x2 + 5.8x2
Fan unit	Fan			Propeller fan	Propeller fan	Propeller fan
	Motor output		kW	1.0 + 1.0 + 1.0	1.0 + 1.0 + 1.0	2.0 + 1.0 + 1.0
	Air volume		m3/h	12600 + 12600 + 12200	12600 + 12600 + 12600	17300 + 12600 + 12600
Max. external static pressure			Pa	40	40	40
Heat exchanger				Finned tube	Finned tube	Finned tube
Refrigerant	Name			R410A	R410A	R410A
	Charge	Heat pump	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)	(*3)
Power supply wiring		MCA (*4)	A	102.6	107.4	112.2
		MOCP (*5)	A	125.0	125.0	125.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing
		Diameter	mm	41.3	41.3	41.3
	Liquid	Type		Flare	Flare	Flare
		Diameter	mm	22.2	22.2	22.2
	Balance	Type		Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5
Max. number of connected indoor units				64	64	64
Sound pressure level		Cooling	dB(A)	66.5	67.0	66.5
		Heating	dB(A)	68.5	69.0	68.0
Sound power level		Cooling	dB(A)	85.5	86.0	86.0
		Heating	dB(A)	87.5	88.0	88.0
Operation temperature range		Cooling	CDB	-5.0 to 46.0	-5.0 to 46.0	-5.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC WetBulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

Model	Name	Heat pump		MMY-AP5216HT8P-E	MMY-AP5416HT8P-E	MMY-AP5616HT8P-E
	Combination	Heat pump		MMY-MAP2006HT8P-E	MMY-MAP2206HT8P-E	MMY-MAP2006HT8P-E
				MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP2006HT8P-E
				MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	146.0	151.5	157.0
Heating capacity (*1)			kW	163.0	164.0	176.0
Capacity range			HP	52	54	56
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342	342
		Maximum	V	456	456	456
Electrical characteristic (*1)	Cooling	Running current	A	71.6	80.4	76.0
		Power input	kW	45.9	51.8	48.9
		EER	kW/kW	3.18	2.92	3.21
	Heating	Running current	A	66.5	66.9	72.4
		Power input	kW	42.8	42.9	46.9
		COP	kW/kW	3.81	3.82	3.75
	Starting current		A	Soft Start	Soft Start	Soft Start
Weight	Heat pump		kg	371 + 300 + 300	371 + 300 + 300	371 + 371 + 300
Colour				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor	Type			Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor
	Motor output		kW	7.6x2 + 5.8x2 + 5.8x2	9.0x2 + 5.8x2 + 5.8x2	7.6x2 + 7.6x2 + 5.8x2
Fan unit	Fan			Propeller fan	Propeller fan	Propeller fan
	Motor output		kW	2.0 + 1.0 + 1.0	2.0 + 1.0 + 1.0	2.0 + 2.0 + 1.0
	Air volume		m3/h	17900 + 12600 + 12600	18500 + 12600 + 12600	17900 + 17900 + 12600
Max. external static pressure			Pa	40	40	40
Heat exchanger				Finned tube	Finned tube	Finned tube
Refrigerant	Name			R410A	R410A	R410A
	Charge	Heat pump	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)	(*3)
Power supply wiring		MCA (*4)	A	116.5	120.9	125.6
		MOCP (*5)	A	160.0	160.0	160.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing
		Diameter	mm	41.3	41.3	41.3
	Liquid	Type		Flare	Flare	Flare
		Diameter	mm	22.2	22.2	22.2
	Balance	Type		Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5
Max. number of connected indoor units				64	64	64
Sound pressure level		Cooling	dB(A)	66.5	66.5	66.5
		Heating	dB(A)	68.5	68.5	67.5
Sound power level		Cooling	dB(A)	86.5	86.5	86.5
		Heating	dB(A)	88.5	88.5	88.5
Operation temperature range		Cooling	CDB	-5.0 to 46.0	-5.0 to 46.0	-5.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC WetBulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

Model	Name	Heat pump		MMY-AP5816HT8P-E	MMY-AP6016HT8P-E
	Combination	Heat pump		MMY-MAP2206HT8P-E	MMY-MAP2206HT8P-E
				MMY-MAP2006HT8P-E	MMY-MAP2206HT8P-E
				MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E
Outdoor unit type				Inverter unit	Inverter unit
Cooling capacity (*1)			kW	162.5	168.0
Heating capacity (*1)			kW	177.0	178.0
Capacity range			HP	58	60
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342
		Maximum	V	456	456
Electrical characteristic (*1)	Cooling	Running current	A	84.8	93.6
		Power input	kW	54.8	60.7
		EER	kW/kW	2.97	2.77
	Heating	Running current	A	72.8	73.2
		Power input	kW	47.0	47.1
		COP	kW/kW	3.77	3.78
	Starting current		A	Soft Start	Soft Start
Weight	Heat pump		kg	371 + 371 + 300	371 + 371 + 300
Colour				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor	Type			Hermetic twin rotary compressor	Hermetic twin rotary compressor
	Motor output		kW	9.0x2 + 7.6x2 + 5.8x2	9.0x2 + 9.0x2 + 5.8x2
Fan unit	Fan			Propeller fan	Propeller fan
	Motor output		kW	2.0 + 2.0 + 1.0	2.0 + 2.0 + 1.0
	Air volume		m3/h	18500 + 17900 + 12600	18500 + 18500 + 12600
Max. external static pressure			Pa	40	40
Heat exchanger				Finned tube	Finned tube
Refrigerant	Name			R410A	R410A
	Charge	Heat pump	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)
Power supply wiring		MCA (*4)	A	130.0	134.4
		MOCP (*5)	A	160.0	160.0
Piping connections	Gas	Type		Brazing	Brazing
		Diameter	mm	41.3	41.3
	Liquid	Type		Flare	Flare
		Diameter	mm	22.2	22.2
	Balance	Type		Flare	Flare
		Diameter	mm	9.5	9.5
Max. number of connected indoor units				64	64
Sound pressure level		Cooling	dB(A)	66.5	66.5
		Heating	dB(A)	67.5	67.5
Sound power level		Cooling	dB(A)	87.0	87.5
		Heating	dB(A)	88.5	88.5
Operation temperature range		Cooling	CDB	-5.0 to 46.0	-5.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC WetBulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

High efficiency / Heating capacity priority model

Model	Name	Heat pump		MMY-AP2026HT8P-E	MMY-AP2226HT8P-E
	Combination	Heat pump		MMY-MAP1006HT8P-E	MMY-MAP1206HT8P-E
				MMY-MAP1006HT8P-E	MMY-MAP1006HT8P-E
Outdoor unit type				Inverter unit	Inverter unit
Cooling capacity (*1)			kW	56.0	61.5
Heating capacity (*1)			kW	63.0	69.0
Capacity range			HP	20	22
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342
		Maximum	V	456	456
Electrical characteristic (*1)	Cooling	Running current	A	24.2	27.6
		Power input	kW	15.4	17.7
		EER	kW/kW	3.64	3.48
	Heating	Running current	A	23.2	26.6
		Power input	kW	14.8	17.1
		COP	kW/kW	4.25	4.04
	Starting current		A	Soft Start	Soft Start
Weight	Heat pump		kg	242 + 242	242 + 242
Colour				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor	Type			Hermetic twin rotary compressor	Hermetic twin rotary compressor
	Motor output		kW	3.1x2 + 3.1x2	3.9x2 + 3.1x2
Fan unit	Fan			Propeller fan	Propeller fan
	Motor output		kW	1.0 + 1.0	1.0 + 1.0
	Air volume		m3/h	9700 + 9700	12200 + 9700
Max. external static pressure			Pa	60	50
Heat exchanger				Finned tube	Finned tube
Refrigerant	Name			R410A	R410A
	Charge	Heat pump	kg	11.5 + 11.5	11.5 + 11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)
Power supply wiring		MCA (*4)	A	43.0	47.6
		MOCP (*5)	A	50.0	63.0
Piping connections	Gas	Type		Brazing	Brazing
		Diameter	mm	28.6	28.6
	Liquid	Type		Flare	Flare
		Diameter	mm	15.9 or 12.7 (*7)	19.1 or 15.9 (*7)
	Balance	Type		Flare	Flare
		Diameter	mm	9.5	9.5
Max. number of connected indoor units				45	49
Sound pressure level		Cooling	dB(A)	60.0	61.5
		Heating	dB(A)	61.0	63.0
Sound power level		Cooling	dB(A)	77.0	81.0
		Heating	dB(A)	77.0	83.0
Operation temperature range		Cooling	CDB	-5.0 to 46.0	-5.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC WetBulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

(*7) This pipe size can be used in refrigerant saving condition. Refrigerant saving condition can be adopted under all the conditions below,
- Real length of main piping (L1) : 50m or less
- Height difference between outdoor and indoor units (H1) : 30m or less
- Total capacity codes of all outdoor units is 14HP to below 46HP.

Model	Name	Heat pump		MMY-AP3626HT8P-E	MMY-AP3826HT8P-E	MMY-AP4026HT8P-E
	Combination	Heat pump		MMY-MAP1206HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1406HT8P-E
				MMY-MAP1206HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1406HT8P-E
				MMY-MAP1206HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1206HT8P-E
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	100.5	107.0	113.5
Heating capacity (*1)			kW	112.5	120.0	127.5
Capacity range			HP	36	38	40
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342	342
		Maximum	V	456	456	456
Electrical characteristic (*1)	Cooling	Running current	A	46.5	50.5	54.5
		Power input	kW	30.0	32.3	34.6
		EER	kW/kW	3.35	3.31	3.28
	Heating	Running current	A	45.0	47.8	50.6
		Power input	kW	29.0	30.5	32.1
		COP	kW/kW	3.89	3.93	3.98
	Starting current		A	Soft Start	Soft Start	Soft Start
Weight	Heat pump		kg	242 + 242 + 242	300 + 242 + 242	300 + 300 + 242
Colour				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor	Type			Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor
	Motor output		kW	3.9x2 + 3.9x2 + 3.9x2	4.8x2 + 3.9x2 + 3.9x2	4.8x2 + 4.8x2 + 3.9x2
Fan unit	Fan			Propeller fan	Propeller fan	Propeller fan
	Motor output		kW	1.0 + 1.0 + 1.0	1.0 + 1.0 + 1.0	1.0 + 1.0 + 1.0
	Air volume		m3/h	12200 + 12200 + 12200	12200 + 12200 + 12200	12200 + 12200 + 12200
Max. external static pressure			Pa	50	50	50
Heat exchanger				Finned tube	Finned tube	Finned tube
Refrigerant	Name			R410A	R410A	R410A
	Charge	Heat pump	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)	(*3)
Power supply wiring		MCA (*4)	A	78.3	83.2	88.1
		MOCP (*5)	A	100.0	100.0	100.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing
		Diameter	mm	41.3	41.3	41.3
	Liquid	Type		Flare	Flare	Flare
		Diameter	mm	22.2 or 19.1 (*7)	22.2 or 19.1 (*7)	22.2 or 19.1 (*7)
	Balance	Type		Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5
Max. number of connected indoor units				64	64	64
Sound pressure level		Cooling	dB(A)	64.0	64.5	64.5
		Heating	dB(A)	66.0	66.5	66.5
Sound power level		Cooling	dB(A)	85.0	85.0	85.0
		Heating	dB(A)	87.0	87.0	87.0
Operation temperature range		Cooling	CDB	-5.0 to 46.0	-5.0 to 46.0	-5.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC WetBulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

(*7) This pipe size can be used in refrigerant saving condition. Refrigerant saving condition can be adopted under all the conditions below,
- Real length of main piping (L1) : 50m or less
- Height difference between outdoor and indoor units (H1) : 30m or less
- Total capacity codes of all outdoor units is 14HP to below 46HP.

Model	Name	Heat pump		MMY-AP4226HT8P-E	MMY-AP4426HT8P-E	MMY-AP5426HT8P-E
	Combination	Heat pump		MMY-MAP1406HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP2006HT8P-E
				MMY-MAP1406HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP2006HT8P-E
				MMY-MAP1406HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1406HT8P-E
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	120.0	125.0	152.0
Heating capacity (*1)			kW	135.0	140.0	171.0
Capacity range			HP	42	44	54
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*2)		Minimum	V	342	342	342
		Maximum	V	456	456	456
Electrical characteristic (*1)	Cooling	Running current	A	58.5	61.4	73.1
		Power input	kW	36.9	38.9	46.9
		EER	kW/kW	3.25	3.21	3.24
	Heating	Running current	A	53.4	55.8	70.0
		Power input	kW	33.6	35.3	45.2
		COP	kW/kW	4.02	3.97	3.78
	Starting current		A	Soft Start	Soft Start	Soft Start
Weight	Heat pump		kg	300 + 300 + 300	300 + 300 + 300	371 + 371 + 300
Colour				Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)	Silky shade (Munsell 1Y8.5/0.5)
Compressor	Type			Hermetic twin rotary compressor	Hermetic twin rotary compressor	Hermetic twin rotary compressor
	Motor output		kW	4.8x2 + 4.8x2 + 4.8x2	5.8x2 + 4.8x2 + 4.8x2	7.6x2 + 7.6x2 + 4.8x2
Fan unit	Fan			Propeller fan	Propeller fan	Propeller fan
	Motor output		kW	1.0 + 1.0 + 1.0	1.0 + 1.0 + 1.0	2.0 + 2.0 + 1.0
	Air volume		m3/h	12200 + 12200 + 12200	12600 + 12200 + 12200	17900 + 17900 + 12200
Max. external static pressure			Pa	50	40	40
Heat exchanger				Finned tube	Finned tube	Finned tube
Refrigerant	Name			R410A	R410A	R410A
	Charge	Heat pump	kg	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5	11.5 + 11.5 + 11.5
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*3)	(*3)	(*3)
Power supply wiring		MCA (*4)	A	93.0	97.8	120.8
		MOCP (*5)	A	125.0	125.0	160.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing
		Diameter	mm	41.3	41.3	41.3
	Liquid	Type		Flare	Flare	Flare
		Diameter	mm	22.2 or 19.1 (*7)	22.2 or 19.1 (*7)	22.2
	Balance	Type		Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5
Max. number of connected indoor units				64	64	64
Sound pressure level		Cooling	dB(A)	65.0	65.5	65.5
		Heating	dB(A)	67.0	67.5	67.0
Sound power level		Cooling	dB(A)	85.0	85.5	86.5
		Heating	dB(A)	87.0	87.5	88.5
Operation temperature range		Cooling	CDB	-5.0 to 46.0	-5.0 to 46.0	-5.0 to 46.0
		Heating(*6)	CWB	-25.0 to 15.5	-25.0 to 15.5	-25.0 to 15.5

Note

(*1) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 35 degC Dry Bulb.
Heating : Indoor 20 degC Dry Bulb, Outdoor 7 degC Dry Bulb / 6 degC WetBulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

(*3) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse

(*4) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps

(*5) MOCP : Maximum Overcurrent Protection(Amps)

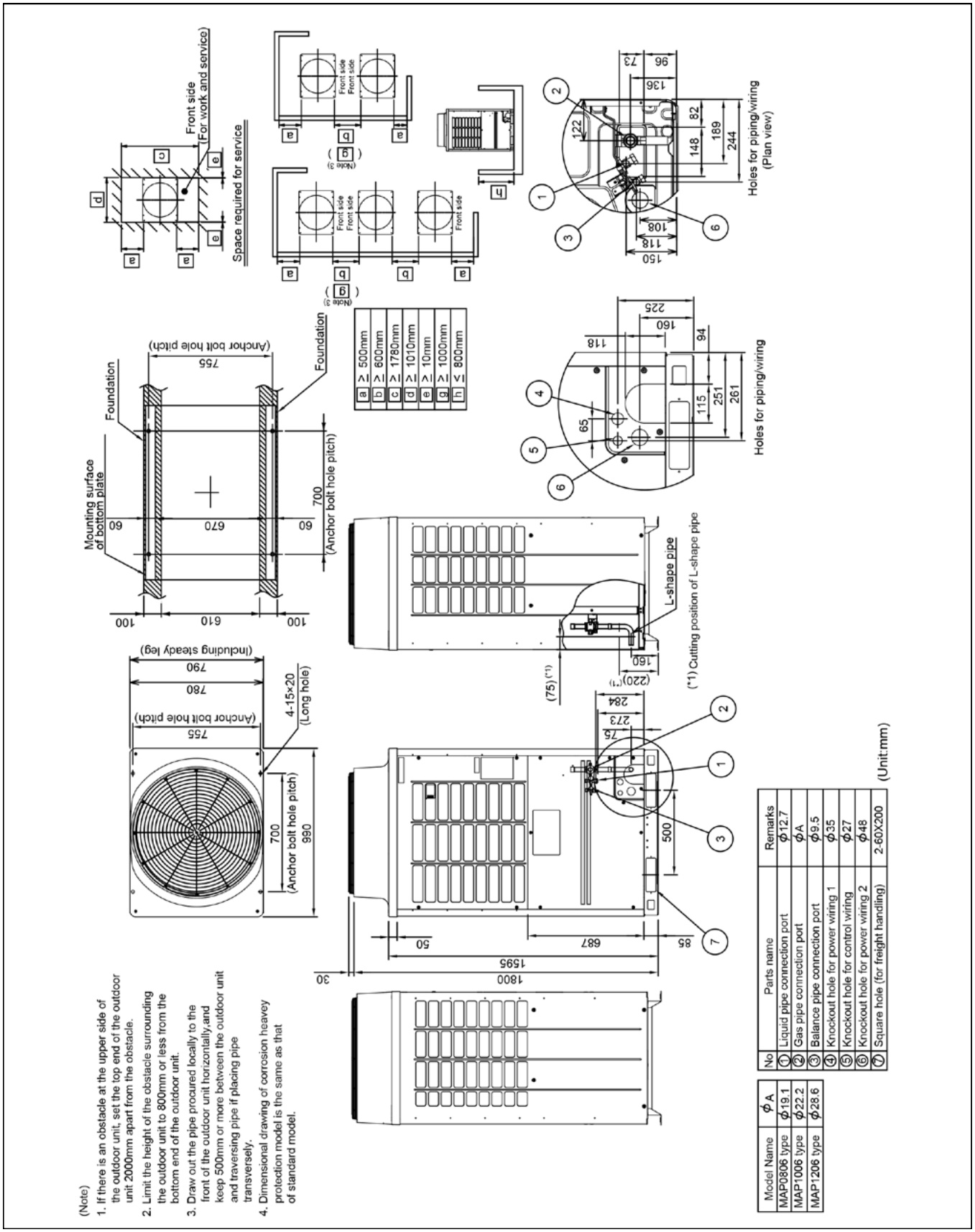
(*6) Low ambient heating (-20degC or less) for extended periods of time is not allowed

(*7) This pipe size can be used in refrigerant saving condition. Refrigerant saving condition can be adopted under all the conditions below,
- Real length of main piping (L1) : 50m or less
- Height difference between outdoor and indoor units (H1) : 30m or less
- Total capacity codes of all outdoor units is 14HP to below 46HP.

5-2. Dimensional drawing

Single unit

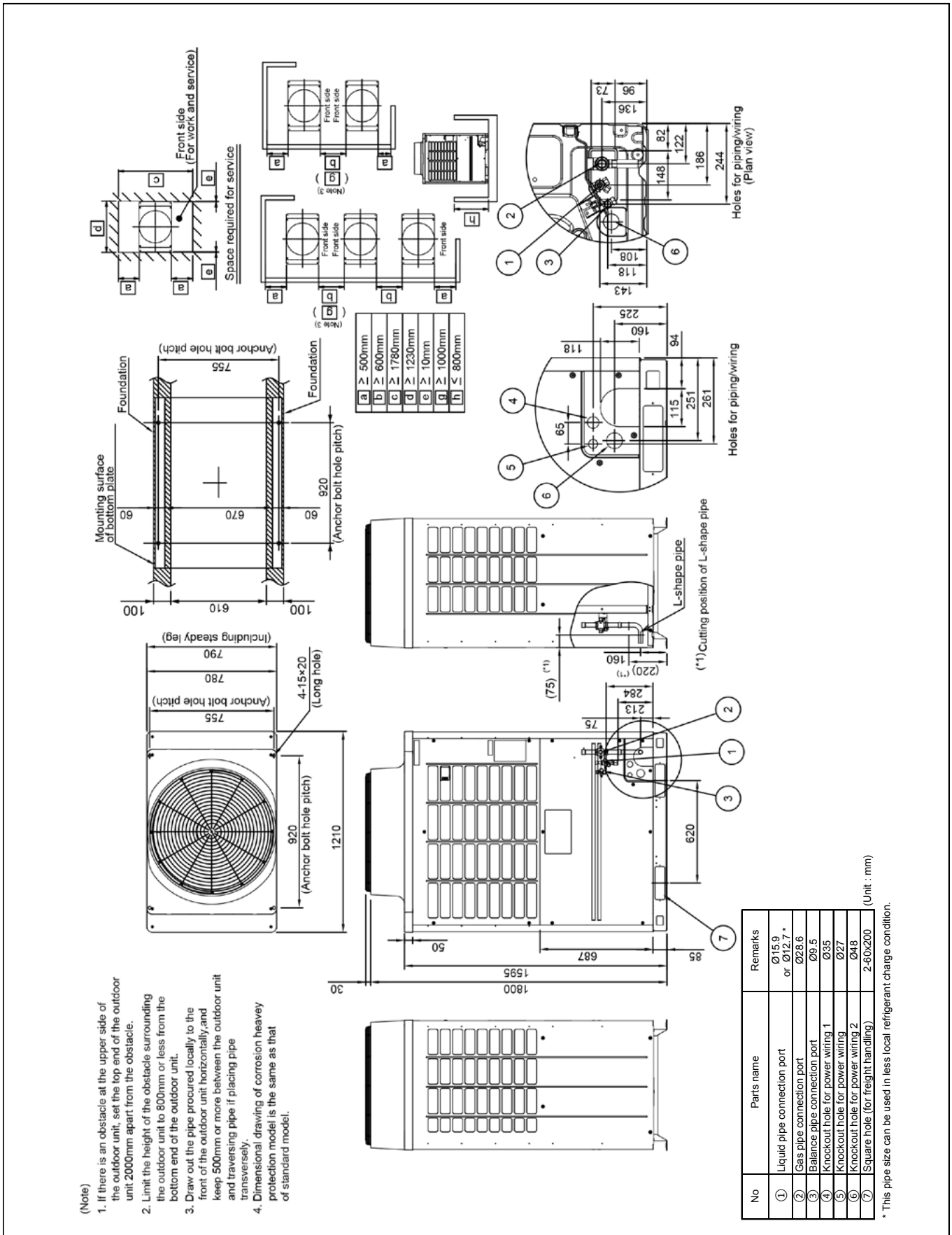
Model : MMY-MAP0806HT8P-E
MMY-MAP1006HT8P-E
MMY-MAP1206HT8P-E



Model Name	ϕA
MAP0806 type	ϕ19.1
MAP1006 type	ϕ22.2
MAP1206 type	ϕ28.6

No	Parts name	Remarks
①	Liquid pipe connection port	ϕ12.7
②	Gas pipe connection port	ϕA
③	Balance pipe connection port	ϕ9.5
④	Knockout hole for power wiring 1	ϕ35
⑤	Knockout hole for control wiring	ϕ27
⑥	Knockout hole for power wiring 2	ϕ48
⑦	Square hole (for freight handling)	2-60X200

Model : MMY-MAP1406HT8P-E
MMY-MAP1606HT8P-E



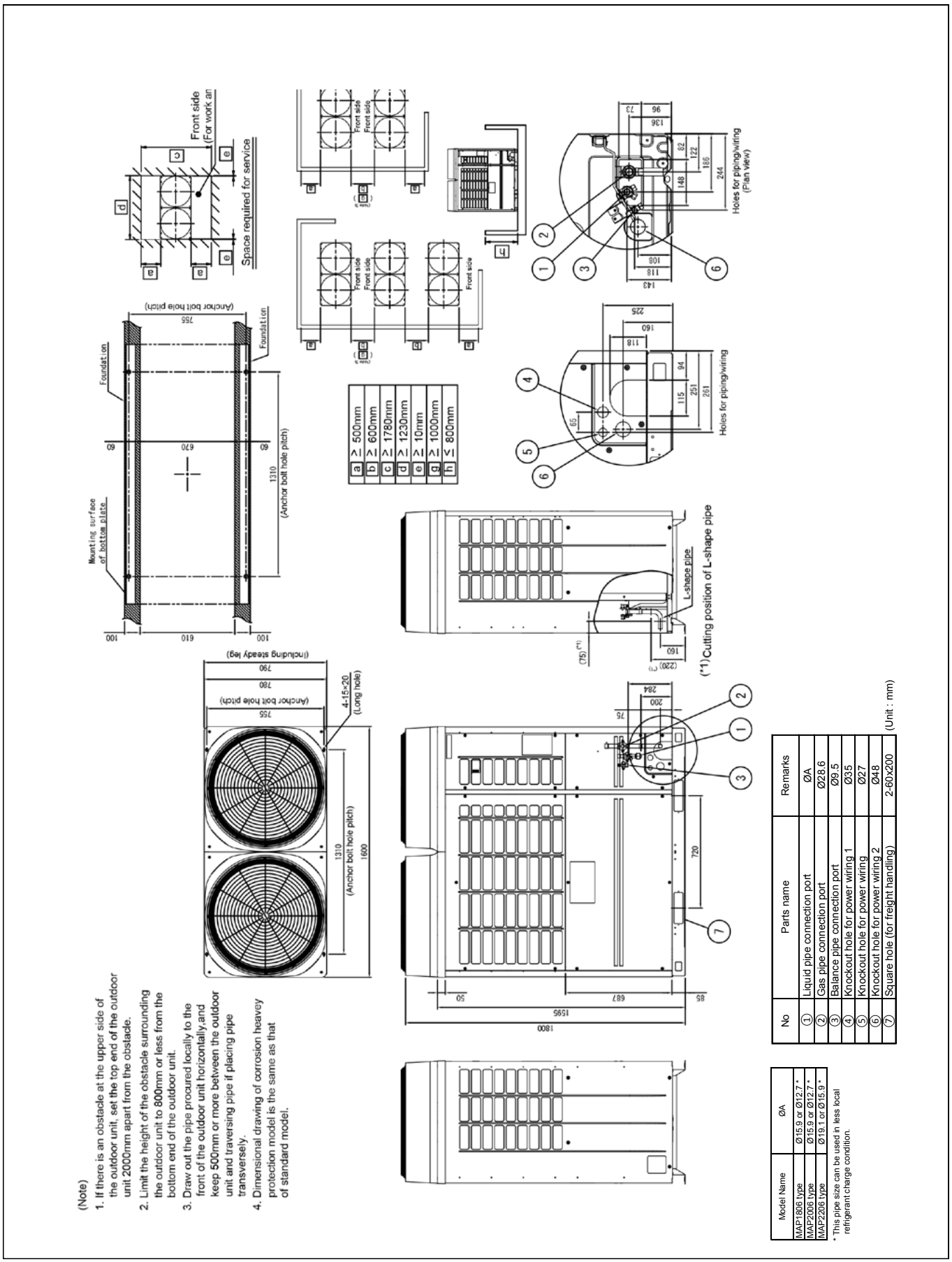
(Note)
1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally,and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

No	Parts name	Remarks
①	Liquid pipe connection port	Ø15.9 or Ø12.7 *
②	Gas pipe connection port	Ø28.6
③	Balance pipe connection port	Ø9.5
④	Knockout hole for power wiring 1	Ø35
⑤	Knockout hole for power wiring	Ø27
⑥	Knockout hole for power wiring 2	Ø48
⑦	Square hole (for freight handling)	2-60x200

(Unit : mm)

* This pipe size can be used in less local refrigerant charge condition.

Model : MMY-MAP1806HT8P-E
MMY-MAP2006HT8P-E
MMY-MAP2206HT8P-E



(Note)
1. If there is an obstacle at the upper side of the outdoor unit, set the top end of the outdoor unit 2000mm apart from the obstacle.
2. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally,and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

No	Parts name	Remarks
①	Liquid pipe connection port	ØA
②	Gas pipe connection port	Ø28.6
③	Balance pipe connection port	Ø9.5
④	Knockout hole for power wiring 1	Ø35
⑤	Knockout hole for power wiring	Ø27
⑥	Knockout hole for power wiring 2	Ø48
⑦	Square hole (for freight handling)	2-60×200

(Unit : mm)

Model Name	ØA
MAP1806 type	Ø15.9 or Ø12.7 *
MAP2006 type	Ø15.9 or Ø12.7 *
MAP2206 type	Ø19.1 or Ø15.9 *

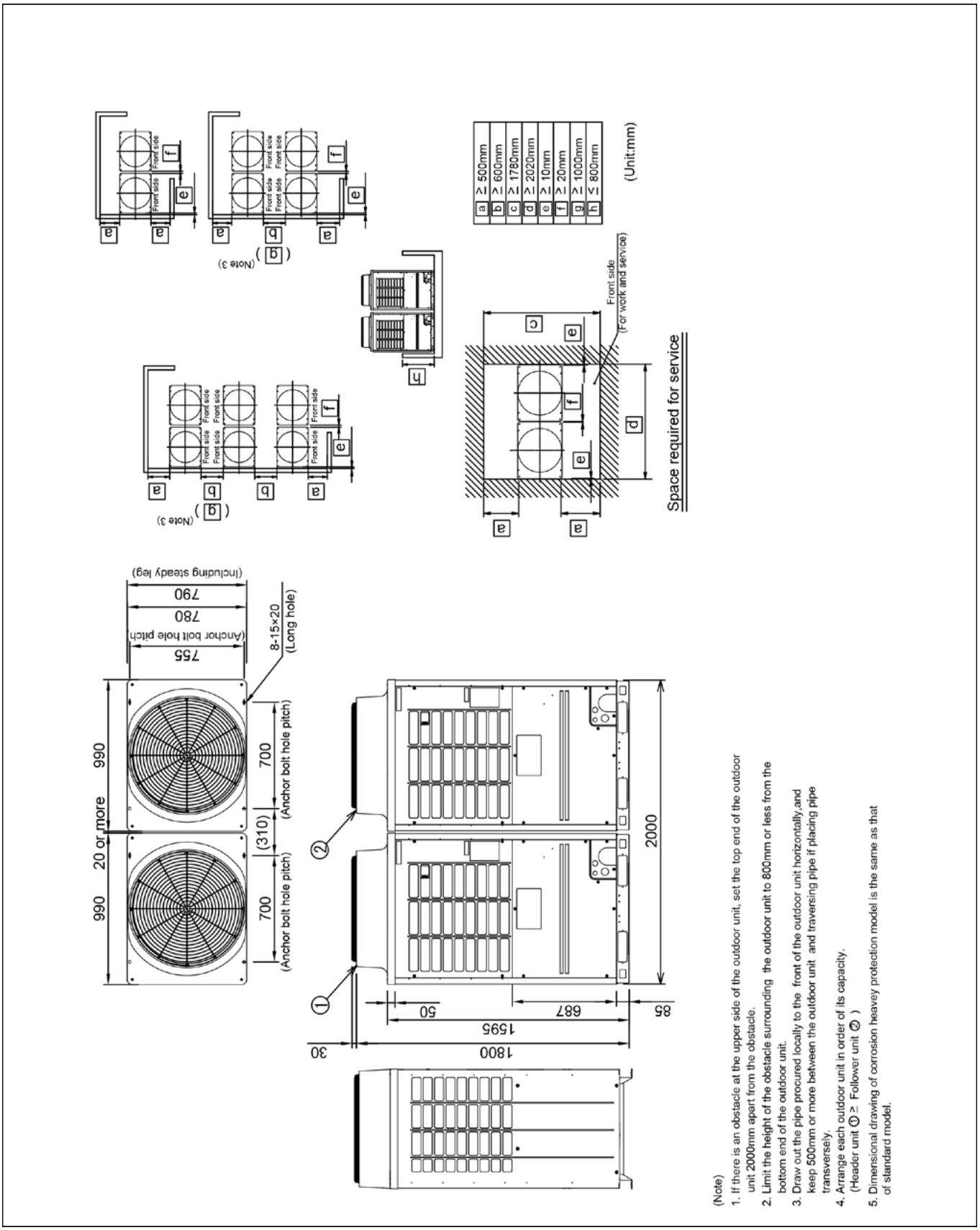
* This pipe size can be used in less local refrigerant charge condition.

Combination

Two units connected

(Note) All drawings are common with coding only model (MMY-AP_HT8P-E)

Model	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-AP2026HT8P-E	MMY-MAP1006HT8P-E	MMY-MAP1006HT8P-E
MMY-AP2226HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1006HT8P-E
MMY-AP2416HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1206HT8P-E



(Note)
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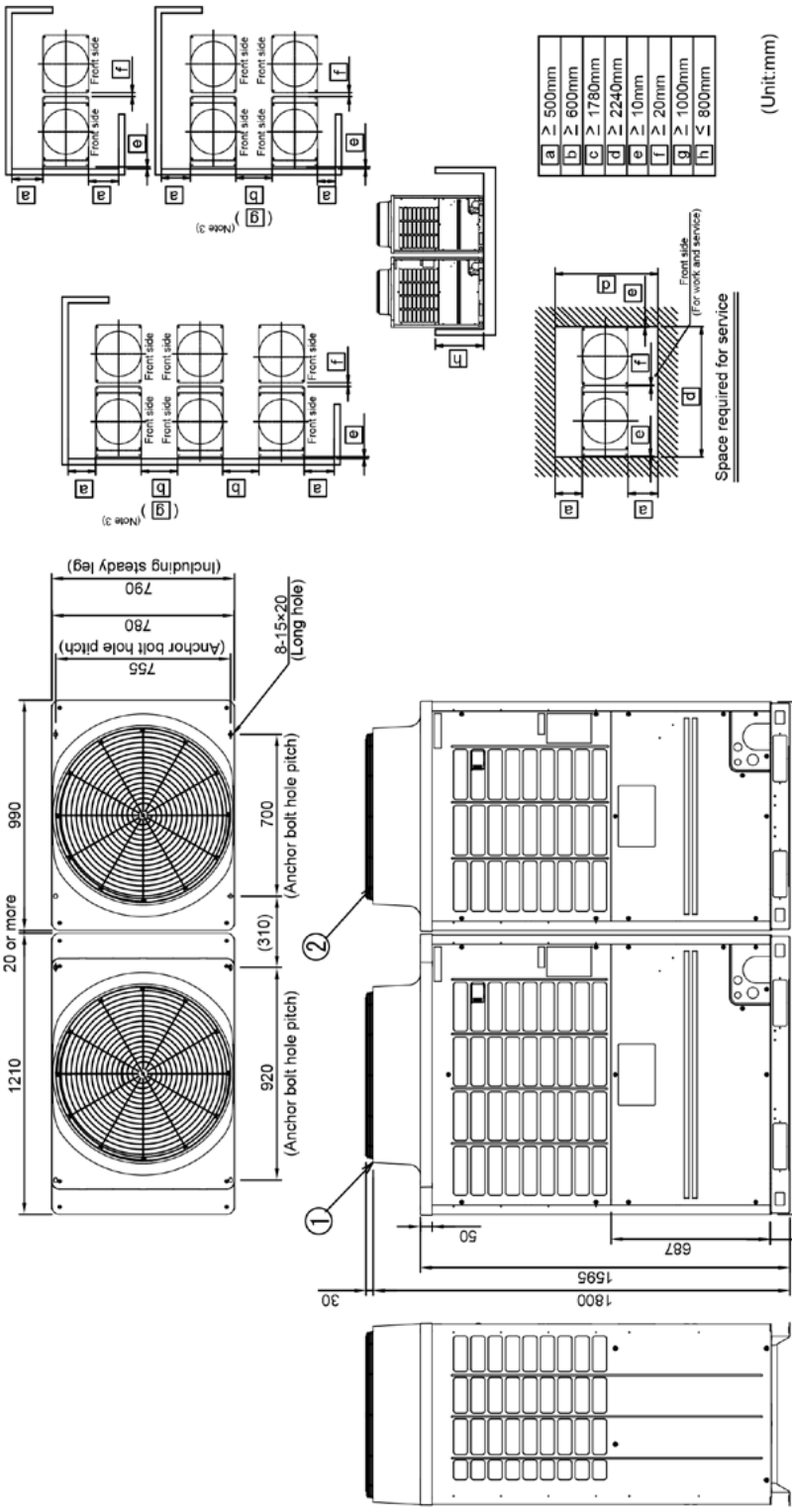
2. Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
3. Draw out the pipe procured locally to the front of the outdoor unit horizontally,and keep 500mm or more between the outdoor unit and traversing pipe if placing pipe transversely.
4. Arrange each outdoor unit in order of its capacity.
(Header unit ① ≥ Follower unit ②)
5. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

Model	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-AP2616HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1206HT8P-E
MMY-AP2816HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1206HT8P-E

Two units connected



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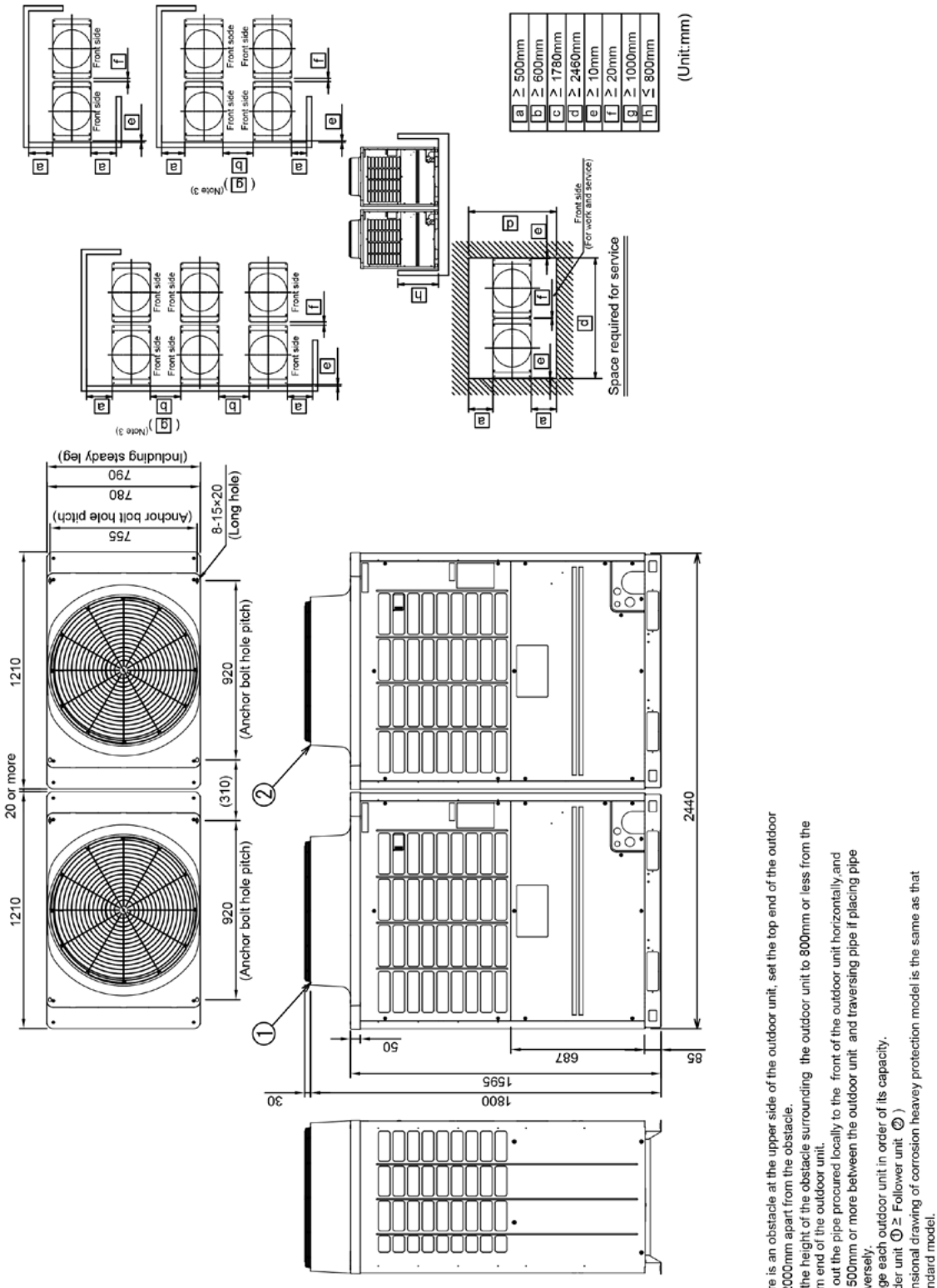
5. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

Model	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-AP3016HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1406HT8P-E
MMY-AP3216HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E

Two units connected



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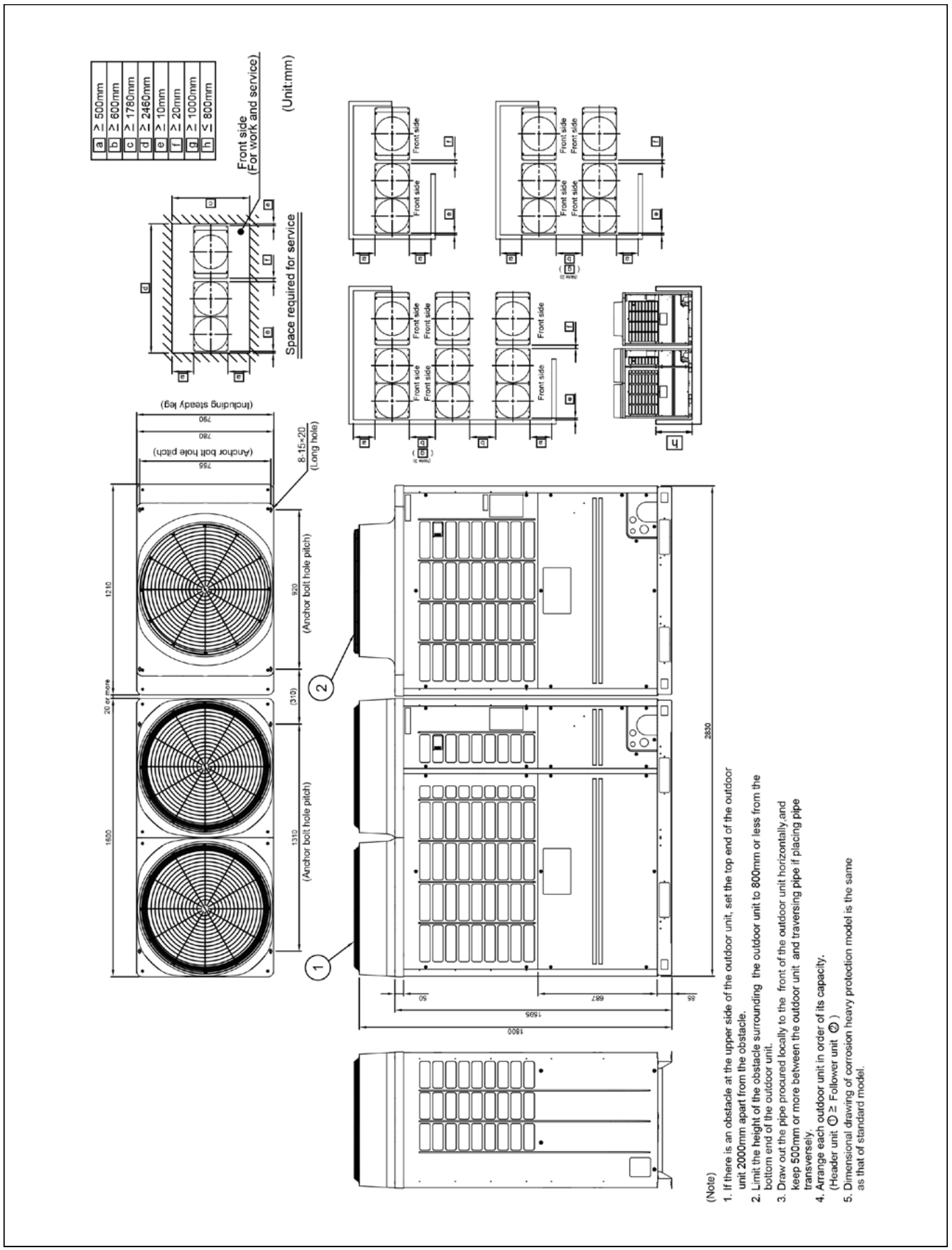
(Header unit ① ≥ Follower unit ②)
5. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

Model	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-AP3416HT8P-E	MMY-MAP1806HT8P-E	MMY-MAP1606HT8P-E
MMY-AP3616HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP1606HT8P-E
MMY-AP3816HT8P-E	MMY-MAP2206HT8P-E	MMY-MAP1606HT8P-E

Two units connected



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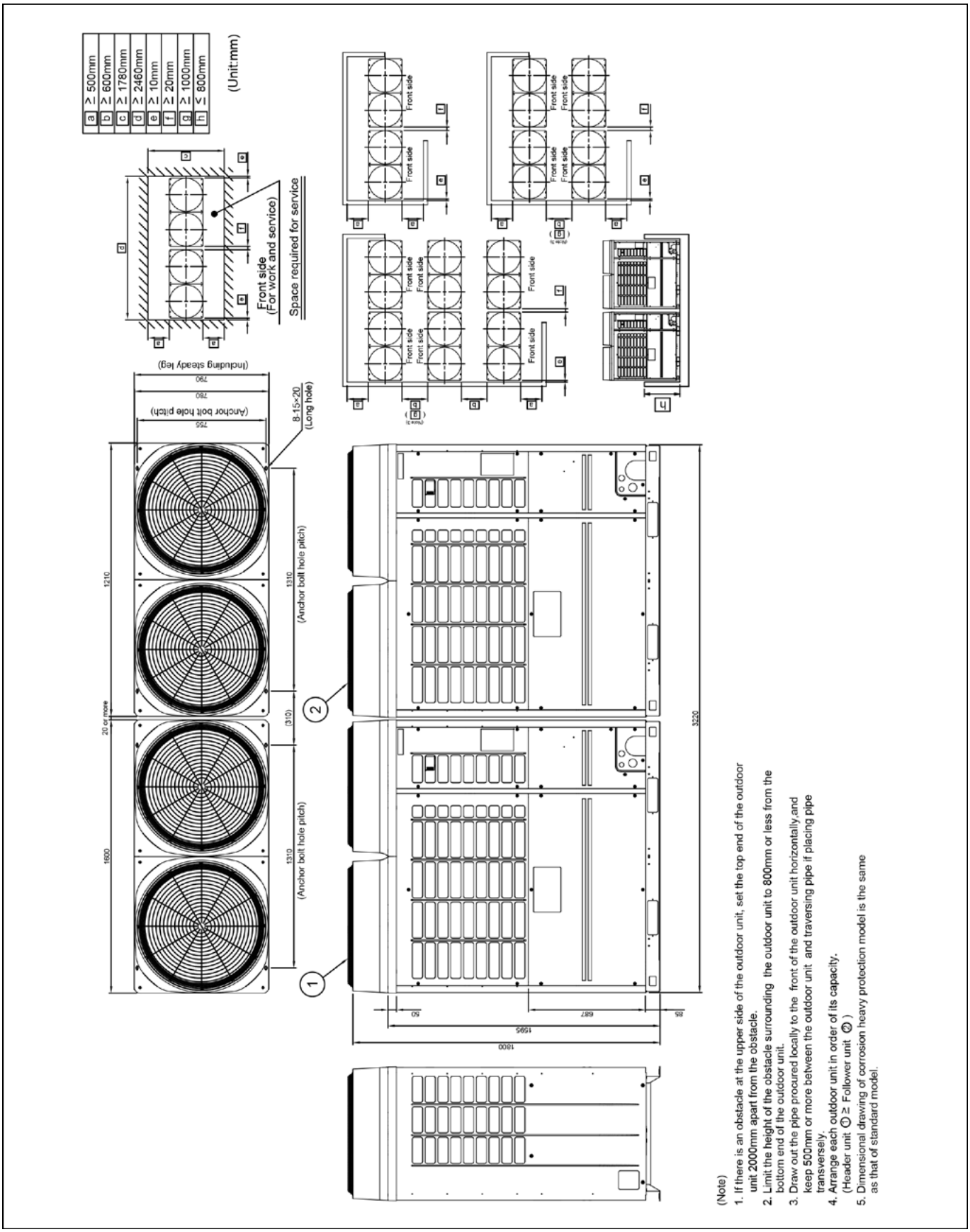
(Header unit ① ≥ Follower unit ②)
5. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.

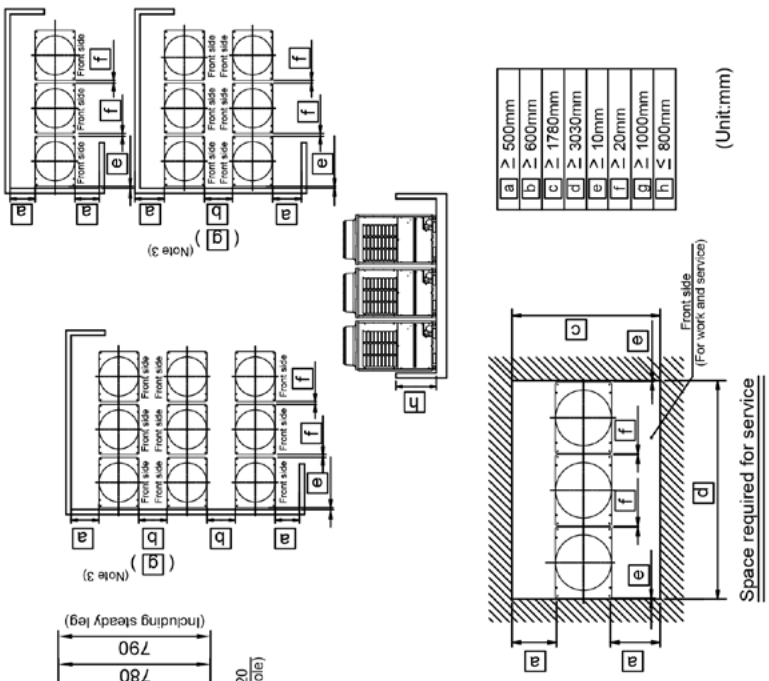
Model	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-AP4016HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP2006HT8P-E
MMY-AP4216HT8P-E	MMY-MAP2206HT8P-E	MMY-MAP2006HT8P-E
MMY-AP4416HT8P-E	MMY-MAP2206HT8P-E	MMY-MAP2206HT8P-E

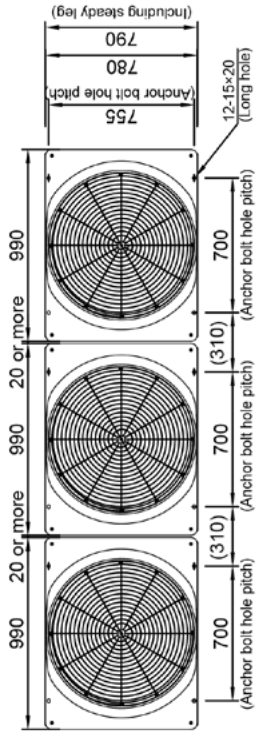
Two units connected

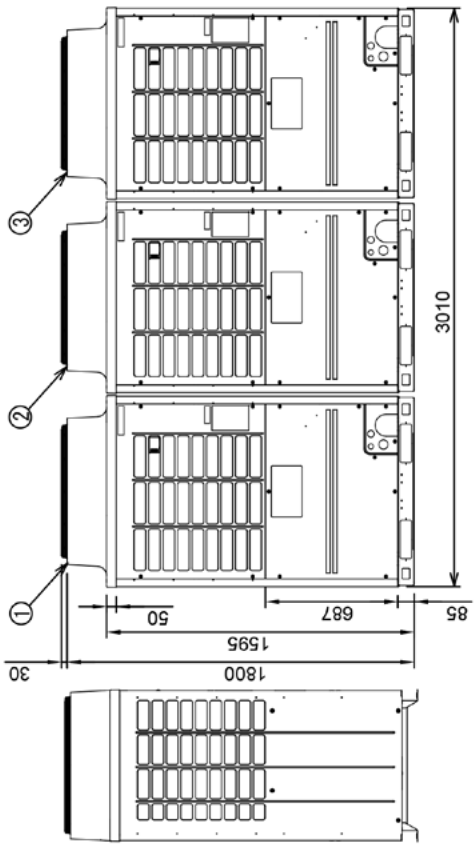


Model	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP3626HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1206HT8P-E

Three units connected







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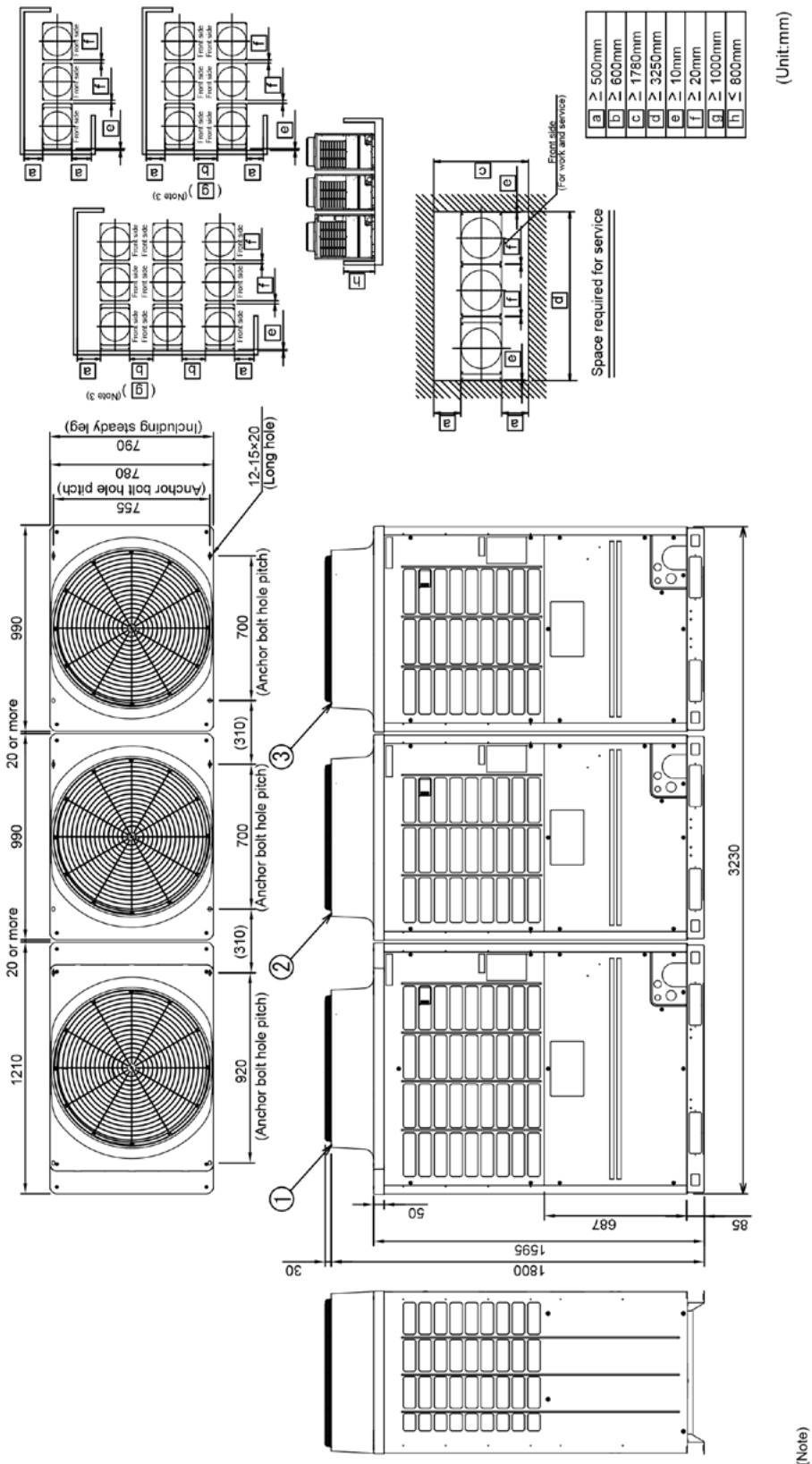
4. Arrange each outdoor unit in order of its capacity.
(Header unit ① ≥ Follower unit ② ≥ Follower unit ③)
5. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

Model	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP3826HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1206HT8P-E	MMY-MAP1206HT8P-E

Three units connected



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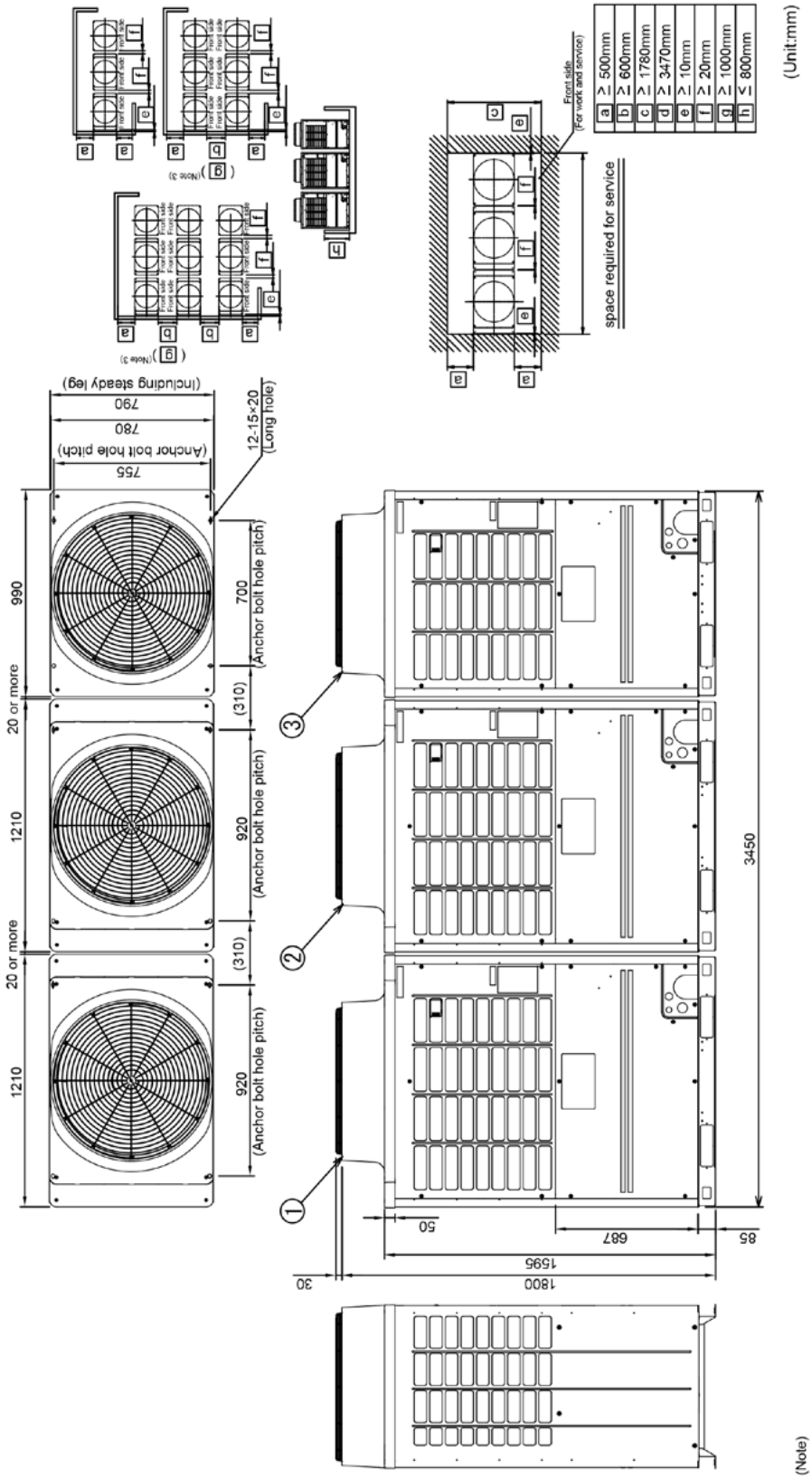
4. Arrange each outdoor unit in order of its capacity.
(Header unit ① ≥ Follower unit ② ≥ Follower unit ③)
5. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

Model	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP4026HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1206HT8P-E

Three units connected



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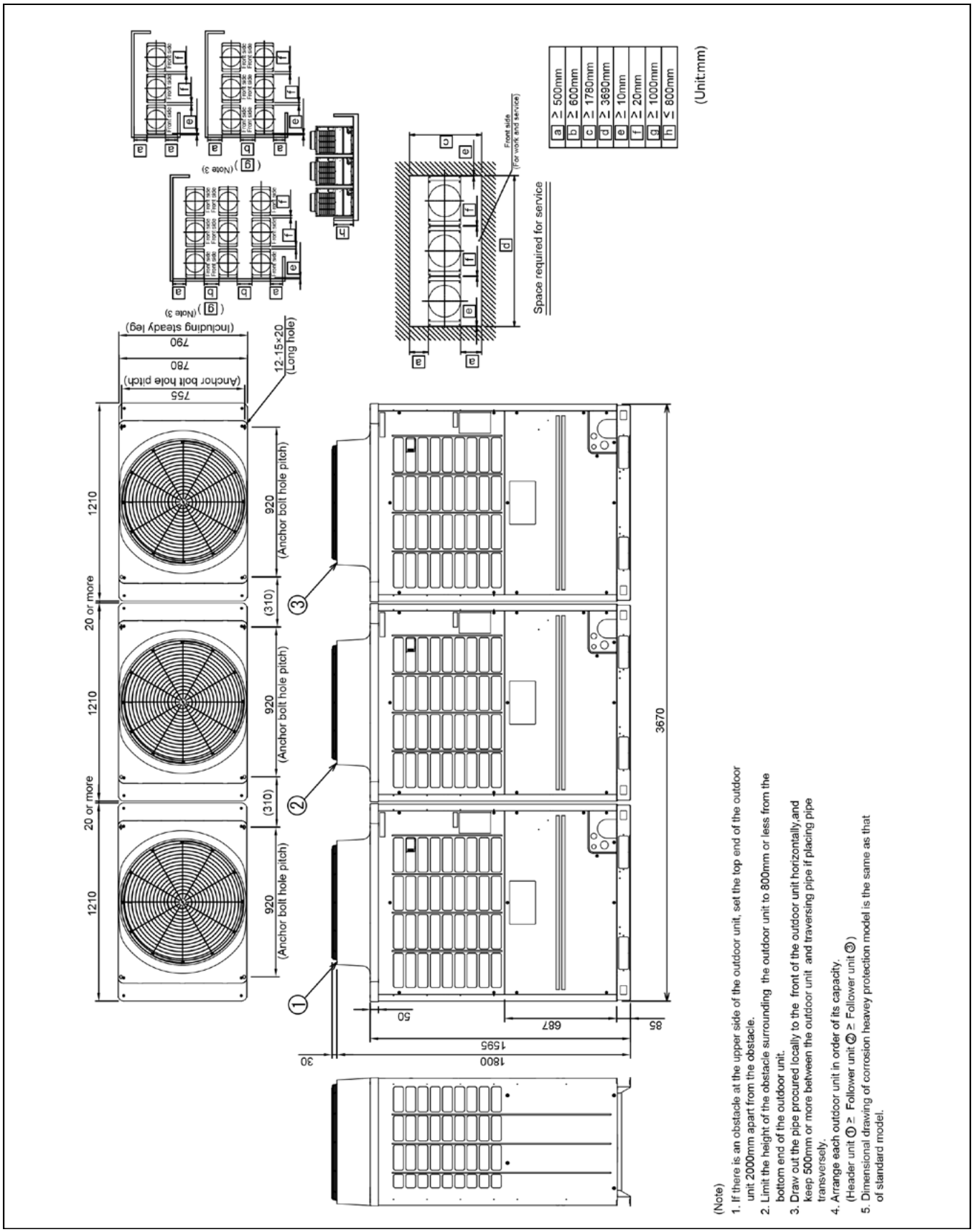
4. Arrange each outdoor unit in order of its capacity.
(Header unit ① ≥ Follower unit ② ≥ Follower unit ③)
5. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

Model	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP4226HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1406HT8P-E
MMY-AP4426HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1406HT8P-E	MMY-MAP1406HT8P-E
MMY-AP4616HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1406HT8P-E
MMY-AP4816HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E

Three units connected



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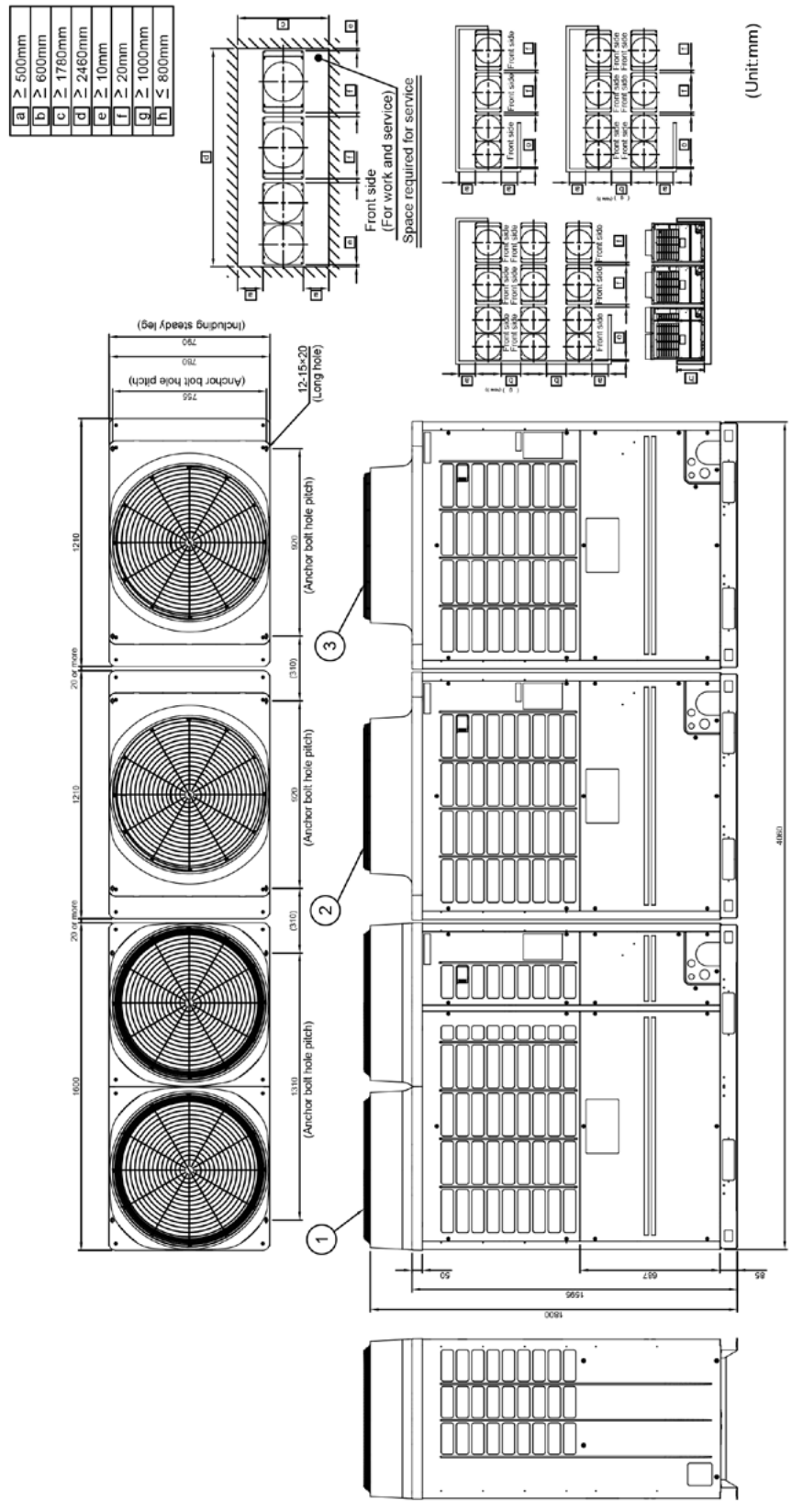
5. Dimensional drawing of corrosion heavey protection model is the same as that of standard model.

Model	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP5016HT8P-E	MMY-MAP1806HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E
MMY-AP5216HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E
MMY-AP5416HT8P-E	MMY-MAP2206HT8P-E	MMY-MAP1606HT8P-E	MMY-MAP1606HT8P-E

Three units connected



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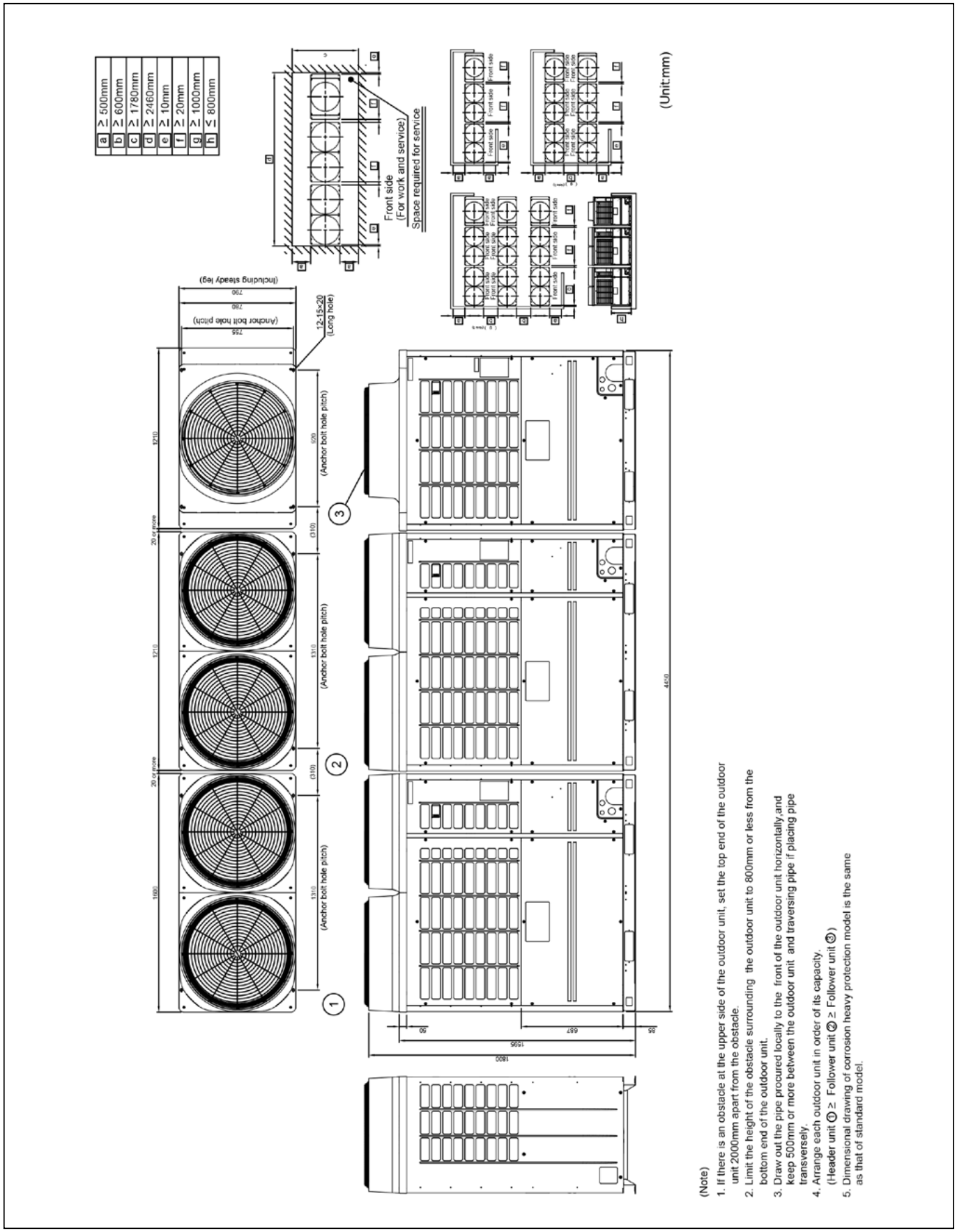
4. Arrange each outdoor unit in order of its capacity.
(Header unit ① ≥ Follower unit ② ≥ Follower unit ③)
5. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.

Three units connected

Model	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP5426HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP1406HT8P-E
MMY-AP5616HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP1606HT8P-E
MMY-AP5816HT8P-E	MMY-MAP2206HT8P-E	MMY-MAP2006HT8P-E	MMY-MAP1606HT8P-E
MMY-AP6016HT8P-E	MMY-MAP2206HT8P-E	MMY-MAP2206HT8P-E	MMY-MAP1606HT8P-E



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4. Arrange each outdoor unit in order of its capacity.
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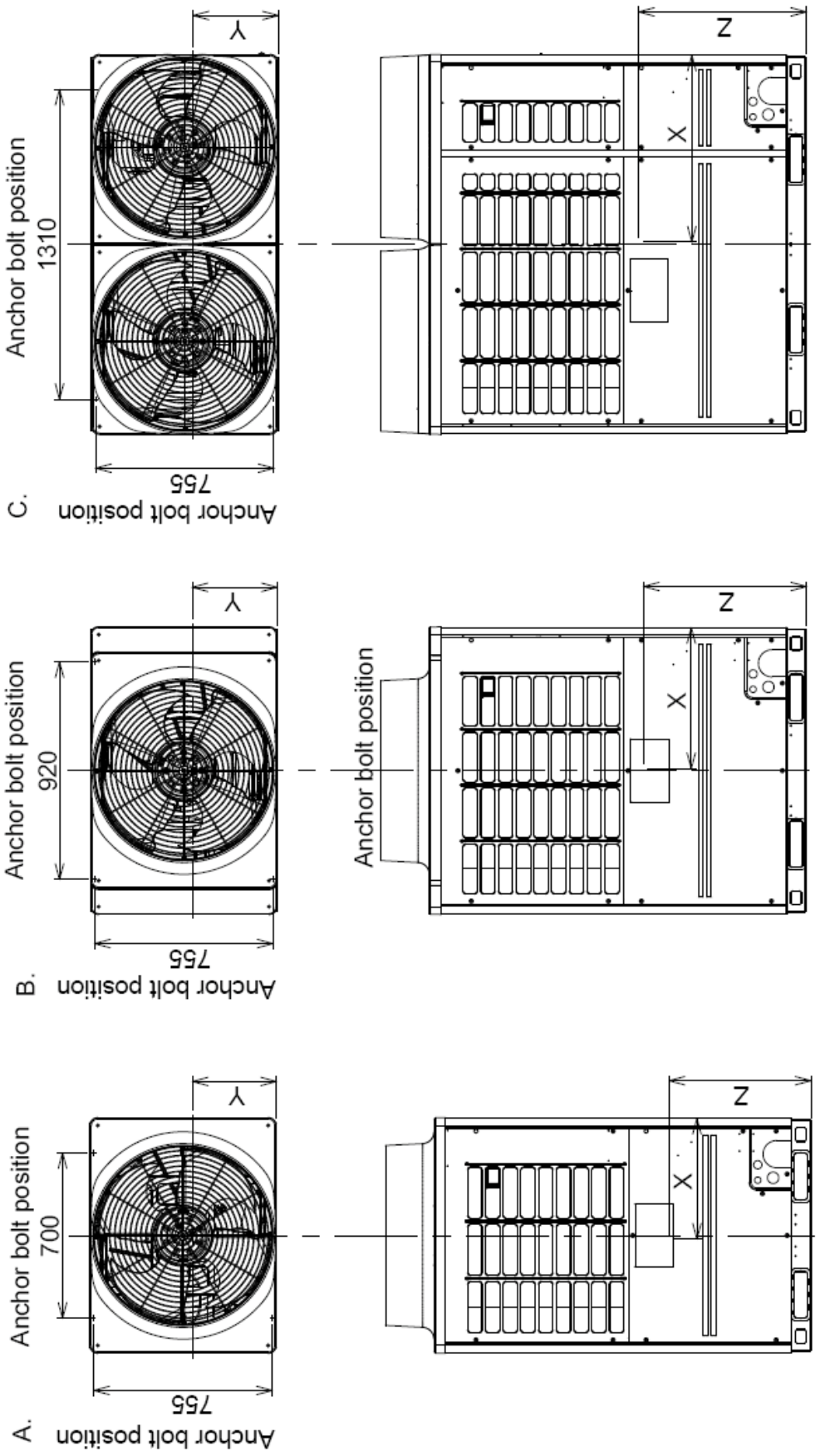
5. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.

5-3. Center of gravity



(Unit : mm)

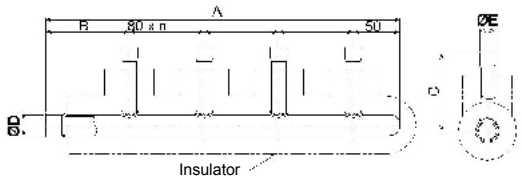
No.	Model Type	X(mm)	Y(mm)	Z(mm)	Mass(kg)
A	MMY-MAP0806HT8P-E MMY-MAP1006HT8P-E MMY-MAP1206HT8P-E	510	355	600	242
B	MMY-MAP1406HT8P-E MMY-MAP1606HT8P-E MMY-MAP1806HT8P-E	595	360	690	299
C	MMY-MAP2006HT8P-E MMY-MAP2206HT8P-E	790	360	710	370

5-4. Branch header / branch joint

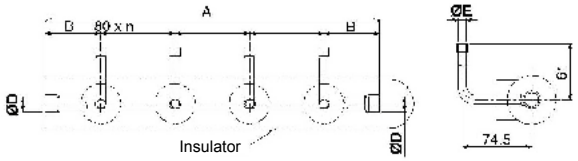
• Branch header

RBM-HY1043E, HY1083E, HY2043E, HY2083E

Gas side



Liquid side



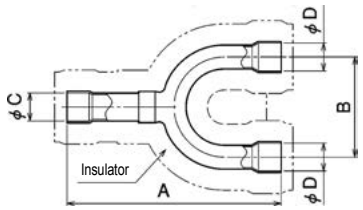
(Unit : mm)

Model		A	B	C	øD	øE	n	Accessory socket Qty
RBM-HY1043E	Gas side	380	90	83.6	22.2	15.9	3	⑥x 4, ⑨x 4, ⑭x 1, ⑱x 1, ⑦⓪x 1
	Liquid side	360	60	-	15.9	9.5	3	①x 4, ⑥x 1, ⑨x 1
RBM-HY1083E	Gas side	700	90	83.6	22.2	15.9	7	⑥x 8, ⑨x 8, ⑭x 1, ⑱x 1, ⑦⓪x 1
	Liquid side	680	60	-	15.9	9.5	7	①x 8, ⑥x 1, ⑨x 1
RBM-HY2043E	Gas side	385.5	95.5	89.3	31.8	15.9	3	⑥x 2, ⑨x 2, ㉗x 1, ⑤⑨x 1
	Liquid side	360	60	-	15.9	9.5	3	①x 2 ⑤①x 1
RBM-HY2083E	Gas side	705.5	95.5	89.3	31.8	15.9	7	⑥x 7, ⑨x 7, ㉗x 1, ⑤⑨x 1
	Liquid side	680	60	-	15.9	9.5	7	①x 7, ⑤①x 1

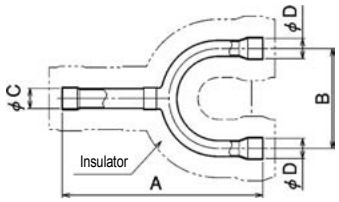
• Y-shape branch joint

RBM-BY55E, BY105E, BY205E, BY305E

Gas side



Liquid side

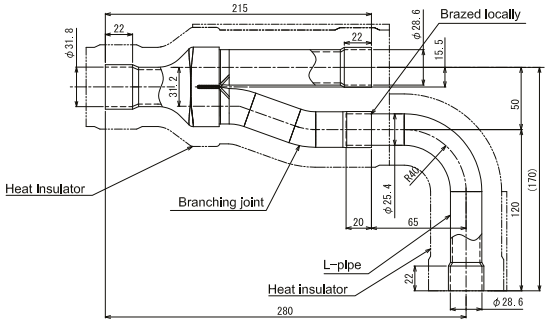


(Unit : mm)

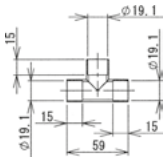
RBM-		A	B	øC	øD	Accessory socket Qty
BY55E	Gas side	160	80	15.9	15.9	⑨x 1, ⑤①x 2, ⑨①x 2
	Liquid side	130	70	9.5	9.5	①x 2te
BY105E	Gas side	170	80	22.2	22.2	⑭x 2, ⑦⓪x 2, ⑨①x 1
	Liquid side	160	80	15.9	15.9	⑨x 1, ⑨①x 1, ⑨②x 1
BY205E	Gas side	200	80	31.8	28.6	⑯x 1, ㉗x 1, ㊸x 2, ⑤⑧x 1, ⑤⑨x 1, ⑨①x 1
	Liquid side	160	80	15.9	15.9	⑨x 1, ⑤①x 2, ⑨②x 1
BY305E	Gas side	220	80	38.1	38.1	㊸x 1, ⑥①x 3, ⑥②x 2, ⑦①x 2, ⑦⑤x 1, ⑨①x 1
	Liquid side	170	80	22.2	22.2	⑨②x 1, ⑨④x 3, ⑦⓪x 2

• Branching joint for connection of outdoor units (Set of three kinds of joint)
RBM-BT14E

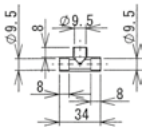
Gas side



Liquid side



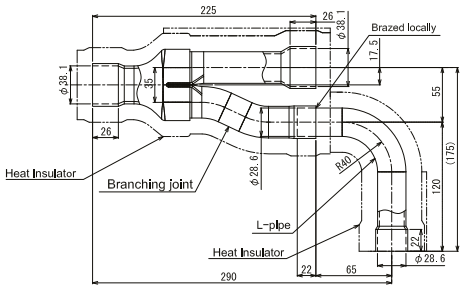
Balance pipe



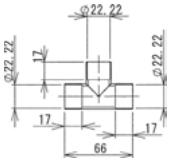
RBM-BT14E	
	Accessory socket Qty
Gas side	㉗x 1, ㊸x 2, ㊾x 1
Liquid side	⑩x 3, ⑬x 1

RBM-BT24E

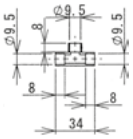
Gas side



Liquid side



Balance pipe

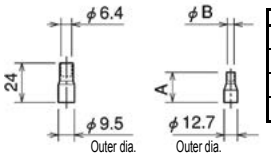


RBM-BT24E	
	Accessory socket Qty
Gas side	㊸x1, ㊶x2, ㊷x2, ㉑x1, ㉓x1
Liquid side	⑭x3, ⑱x3, ㉟x1, ⑳x1

(Unit : mm)

• Accessory socket

① ② ⑤ ⑭ ⑧④

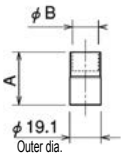


	A	øB
②	29	6.4
⑤	26	9.5
⑭	31	15.9
⑧④	40	19.1

③ ⑥ ⑨ ⑤①

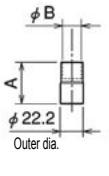
	A	øB
③	35	6.4
⑥	32	9.5
⑨	28	12.7
⑤①	37.5	19.1

④ ⑦ ⑩ ⑬ ⑤② ⑥⑦



	A	øB
④	39	6.4
⑦	39	9.5
⑩	36	12.7
⑬	33	15.9
⑤②	42.5	22.2
⑥⑦	49	25.4

⑭ ⑱ ⑥⑨ ⑦⓪ ⑧⑤ ⑧⑥

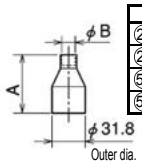


	A	øB
⑭	40	15.9
⑱	40	19.1
⑥⑨	48	25.4
⑦⓪	54	28.6
⑧⑤	41	12.7
⑧⑥	44	9.5

⑯ ⑳ ㉔ ㊸ ㊽ ㊾ ⑤③ ⑤⑧

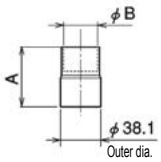
	A	øB
⑯	50	15.9
⑳	52	19.1
㉔	48	25.4
㊸	50	22.2
㊽	54	9.5
㊾	52	12.7
⑤③	55	31.8
⑤⑧	62	34.9

㉕ ㉗ ⑤⑤ ⑤⑨



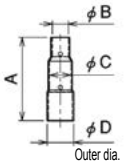
	A	øB
㉕	53	25.4
㉗	49	28.6
⑤⑤	64	38.1
⑤⑨	59	34.9

㉘ ⑥① ⑥② ⑦① ⑦② ⑦③ ⑦④ ⑦⑤ ⑦⑥ ⑦⑦



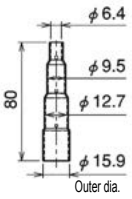
	A	øB
㉘	58	31.8
⑥①	55	34.9
⑥②	66	41.3
⑦①	66	28.6
⑦②	66	25.4
⑦③	66	22.2
⑦④	66	19.1
⑦⑤	64	15.9
⑦⑥	62	12.7
⑦⑦	62	9.5

⑨① ⑨④ ⑨⑤ ⑨⑥ ⑨⑦

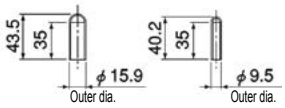


	A	øB	øC	øD
⑨①	58	9.5	12.7	15.9
⑨④	71	15.9	19.1	22.2
⑨⑤	80	22.2	25.4	28.6
⑨⑥	87	25.4	28.6	31.8
⑨⑦	95	28.6	31.8	38.1

⑨②



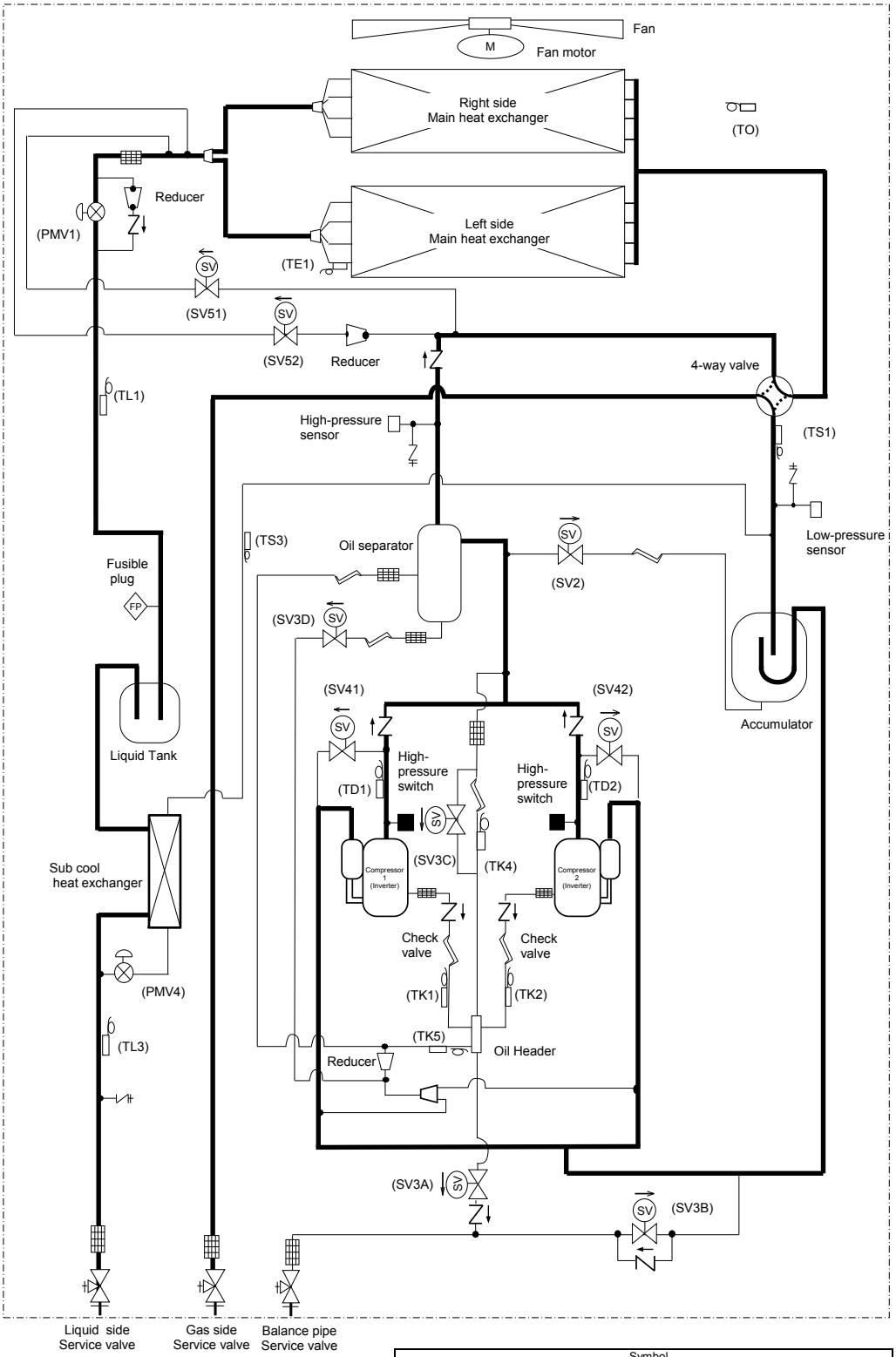
Closure tube



(Unit : mm)

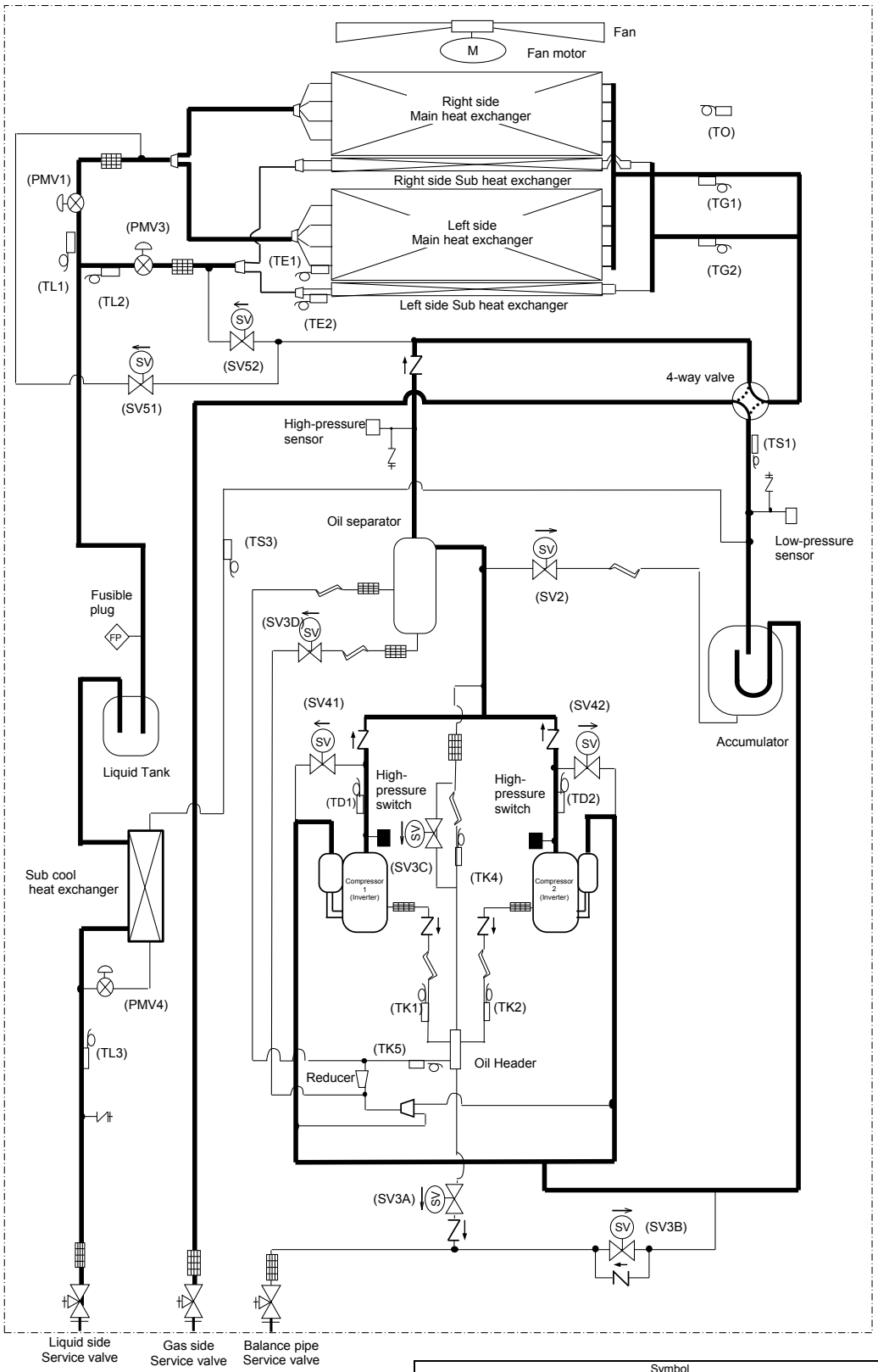
5.5 Refrigerant cycle diagram

MMY-MAP0806HT8P-E, MMY-MAP1006HT8P-E, MMY-MAP1204HTP-E



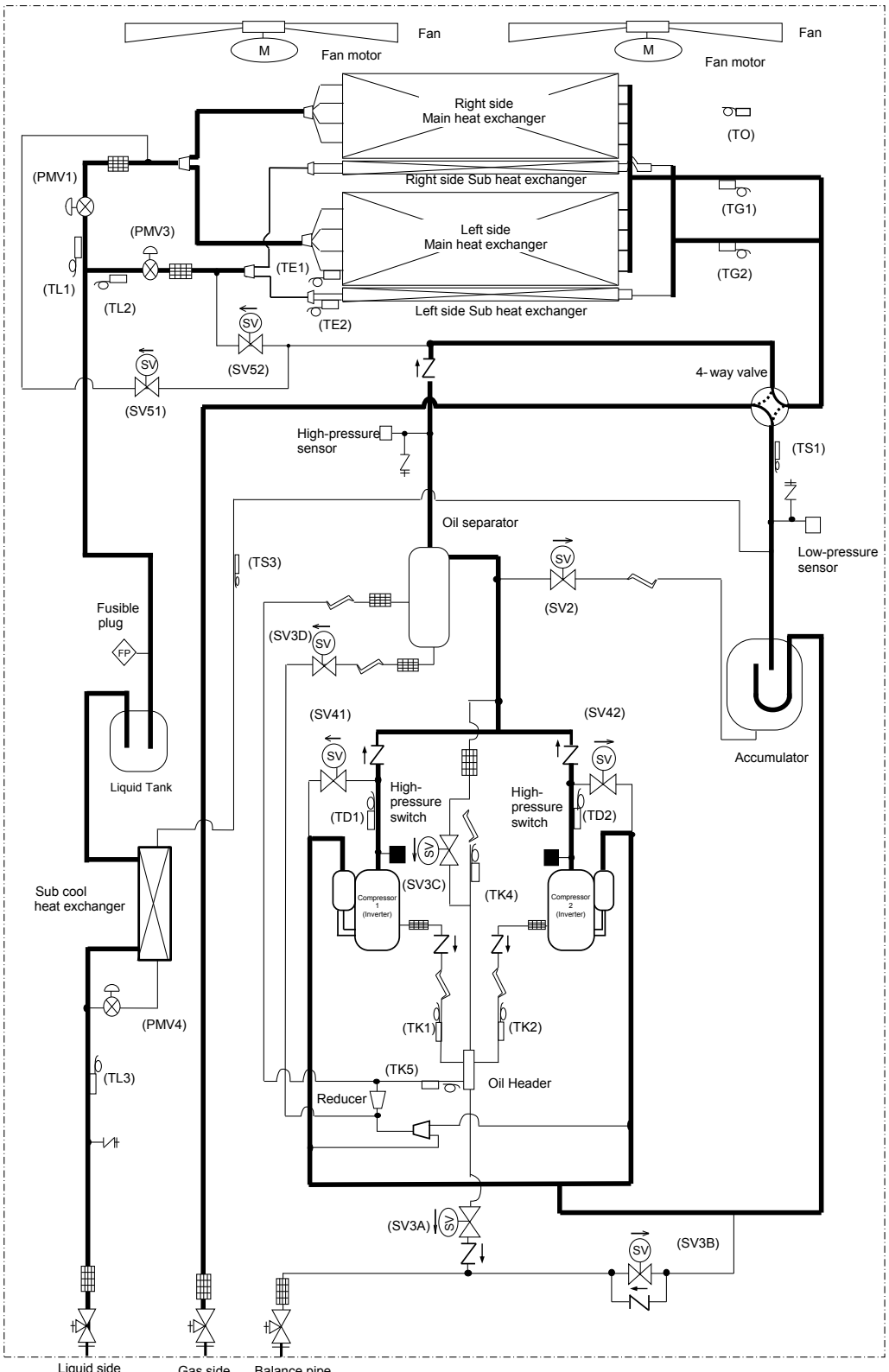
Symbol						
Solenoid valve	Capillary tube	Check valve	Check joint	Strainer	Temperature sensor	Distributor

MMY-MAP1406HT8P-E, MMY-MAP1606HTP-E



Symbol						
Solenoid valve	Capillary tube	Check valve	Check joint	Strainer	Temperature sensor	Distributor

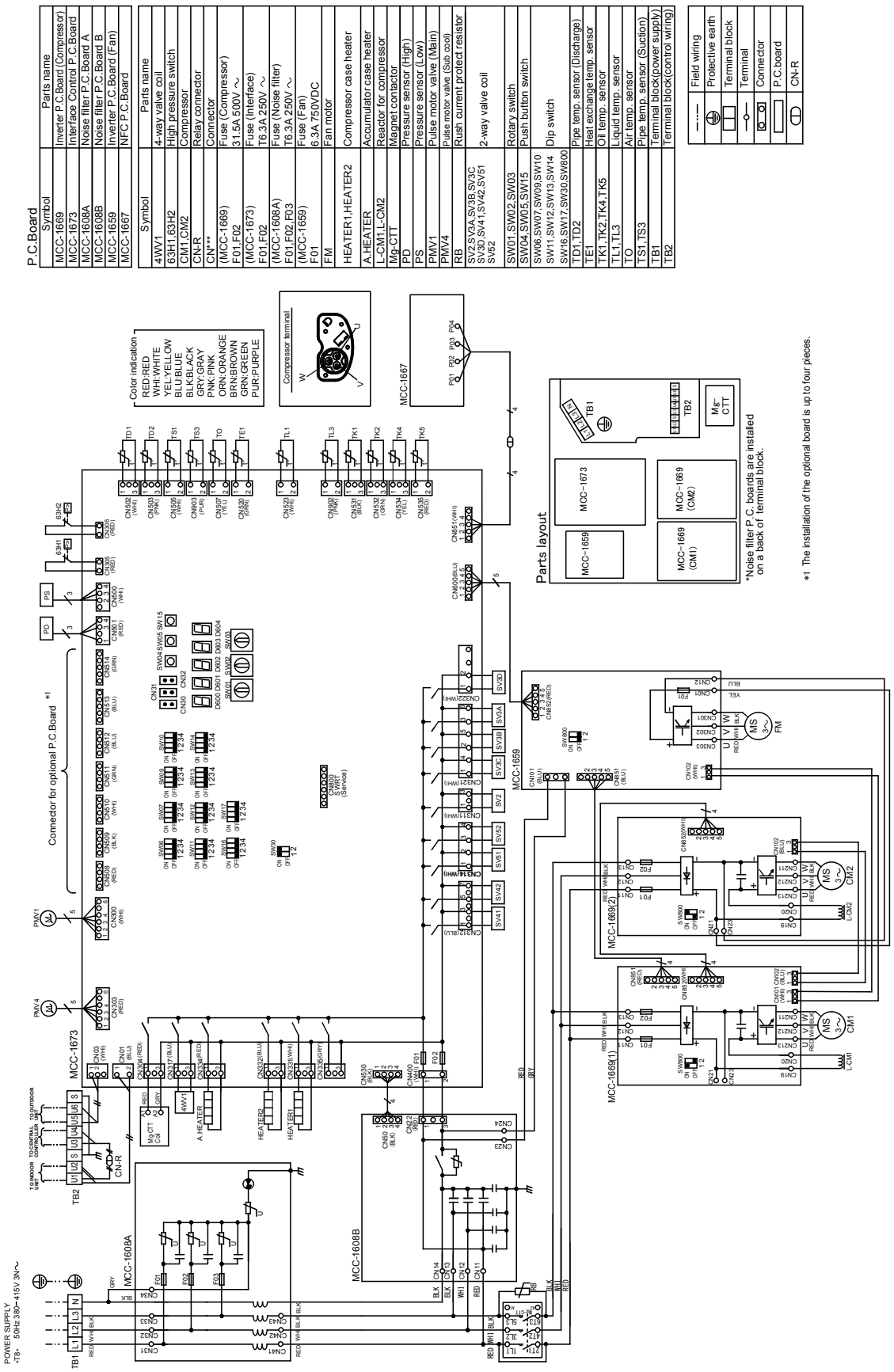
MMY-MAP1806HT8P-E, MMY-MAP2006HT8P-E, MMY-MAP2204HT8P-E



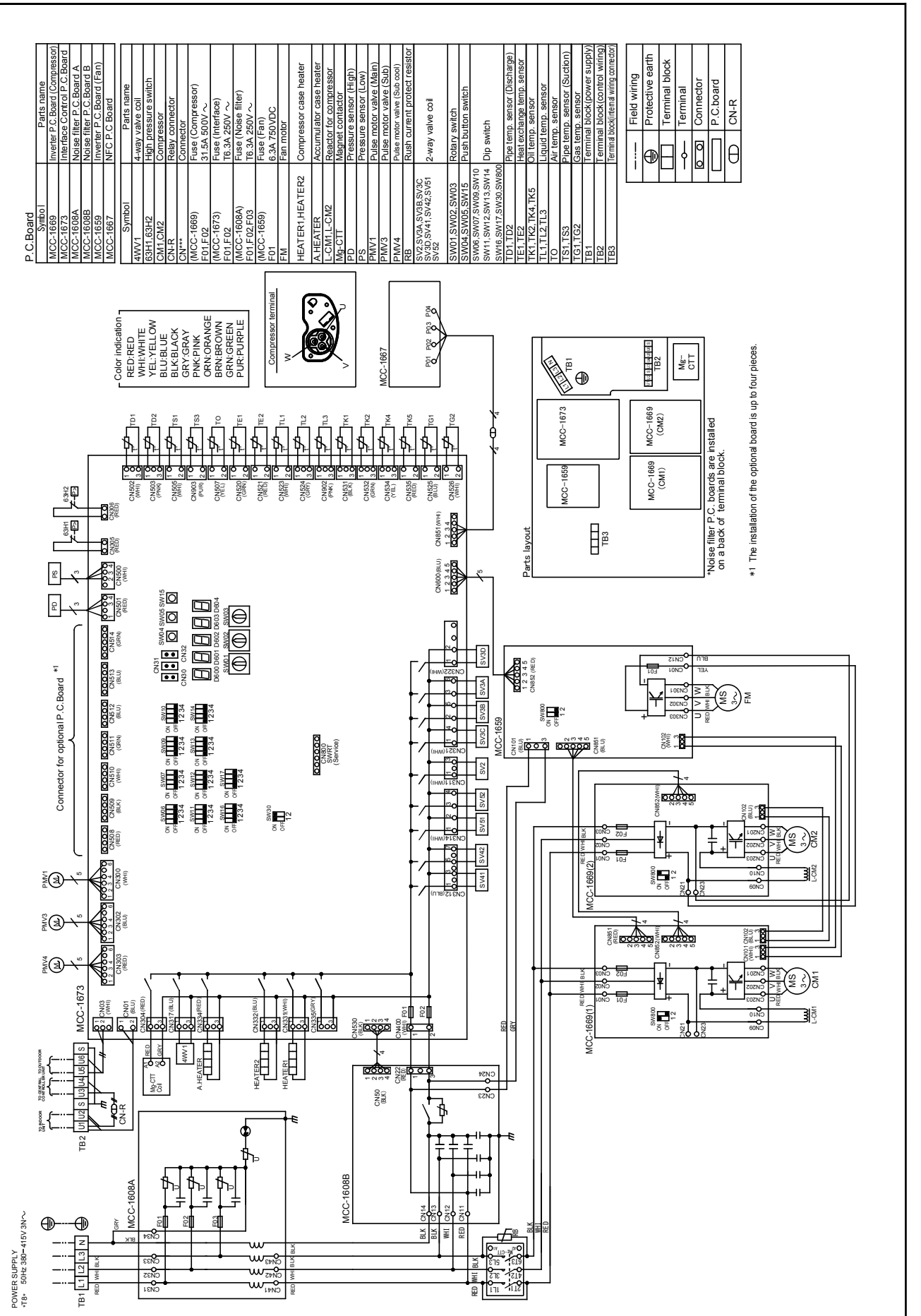
Symbol						
Solenoid valve	Capillary tube	Check valve	Check joint	Strainer	Temperature sensor	Distributor

5-6. Wiring diagram

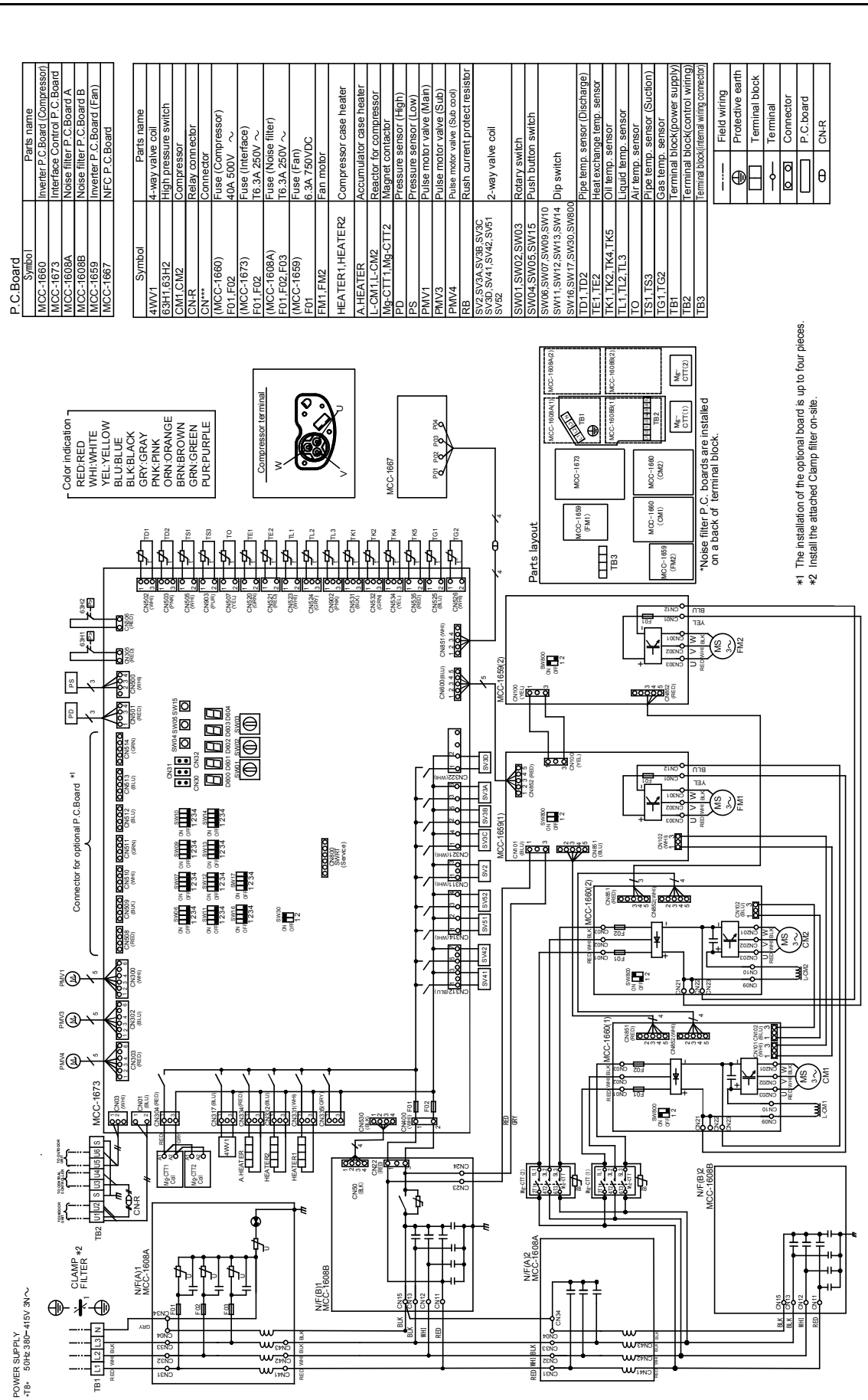
MMY-MAP0806HT8P-E,MMY-MAP1006HT8P-E,MMY-MAP1206HT8P-E



MMY-MAP1406HT8P-E,MMY-MAP1606HT8P-E



MMY-MAP1806HT8P-E,MMY-MAP2006HT8P-E,MMY-MAP2206HT8P-E



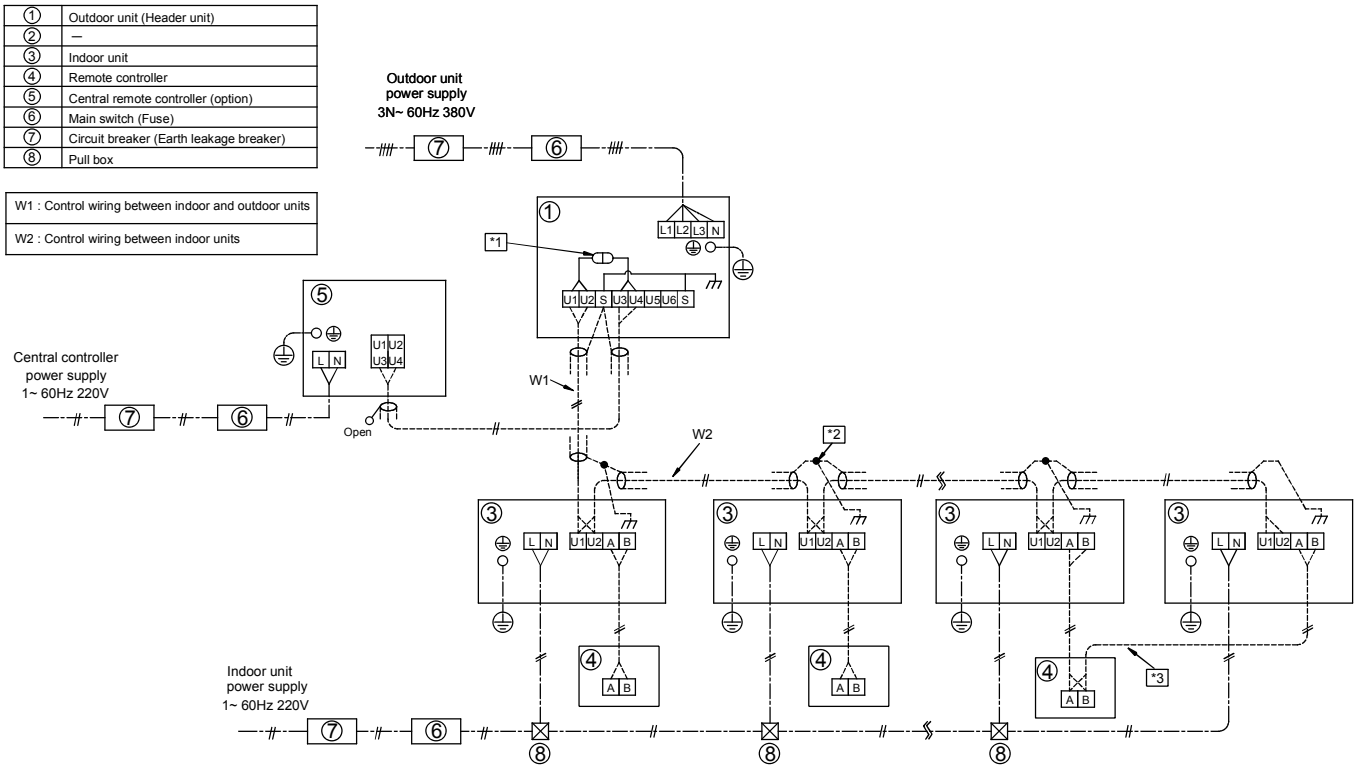
5-7. Connecting diagram

Single unit connected

Model : MMY-AP***6HT8P-E

①	Outdoor unit (Header unit)
②	—
③	Indoor unit
④	Remote controller
⑤	Central remote controller (option)
⑥	Main switch (Fuse)
⑦	Circuit breaker (Earth leakage breaker)
⑧	Pull box

W1 : Control wiring between indoor and outdoor units
W2 : Control wiring between indoor units



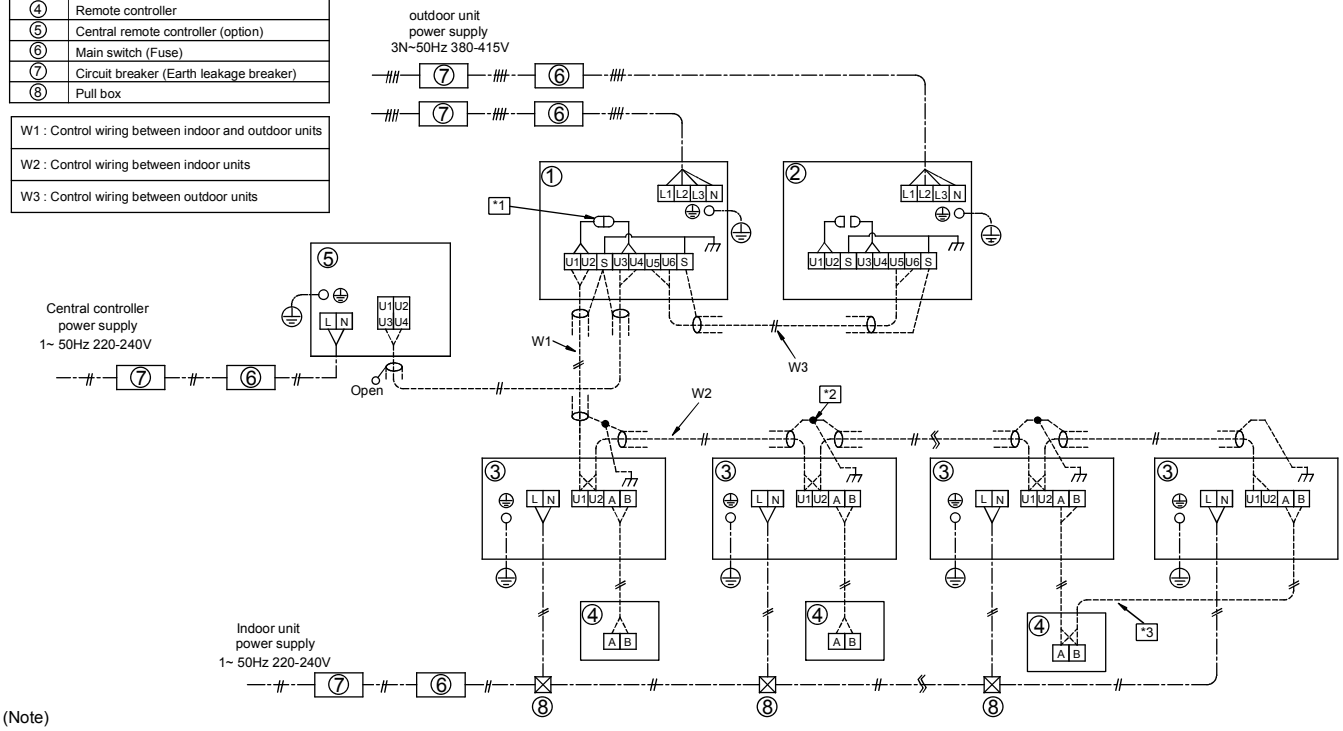
(Note)

1. When perform a central control, connect the relay connector between [U1,U2] and [U3,U4] terminal of the header unit. (At shipment from factory : No connection)
2. Connect the closed end terminal of shield wire. (Connected to all connecting sections in each unit)
3. Group control.
4. Select the power supply wiring and fuse of outdoor/indoor units according to each model's specification. Perform wiring of power supply complying with the rules and regulations of the local electric company.
5. For the control wires connecting indoor units, outdoor units, and between indoor and outdoor units, use 2-core and non-polarity shield wires.
6. As for details, see the wiring diagram of indoor/outdoor unit.
7. Diagram of corrosion heavy protection model is the same as that of standard model.

Two units connected
Model : MMY-AP***6HT8P-E

①	Outdoor unit (Header unit)
②	Outdoor unit (Follower unit)
③	Indoor unit
④	Remote controller
⑤	Central remote controller (option)
⑥	Main switch (Fuse)
⑦	Circuit breaker (Earth leakage breaker)
⑧	Pull box

W1 : Control wiring between indoor and outdoor units
W2 : Control wiring between indoor units
W3 : Control wiring between outdoor units



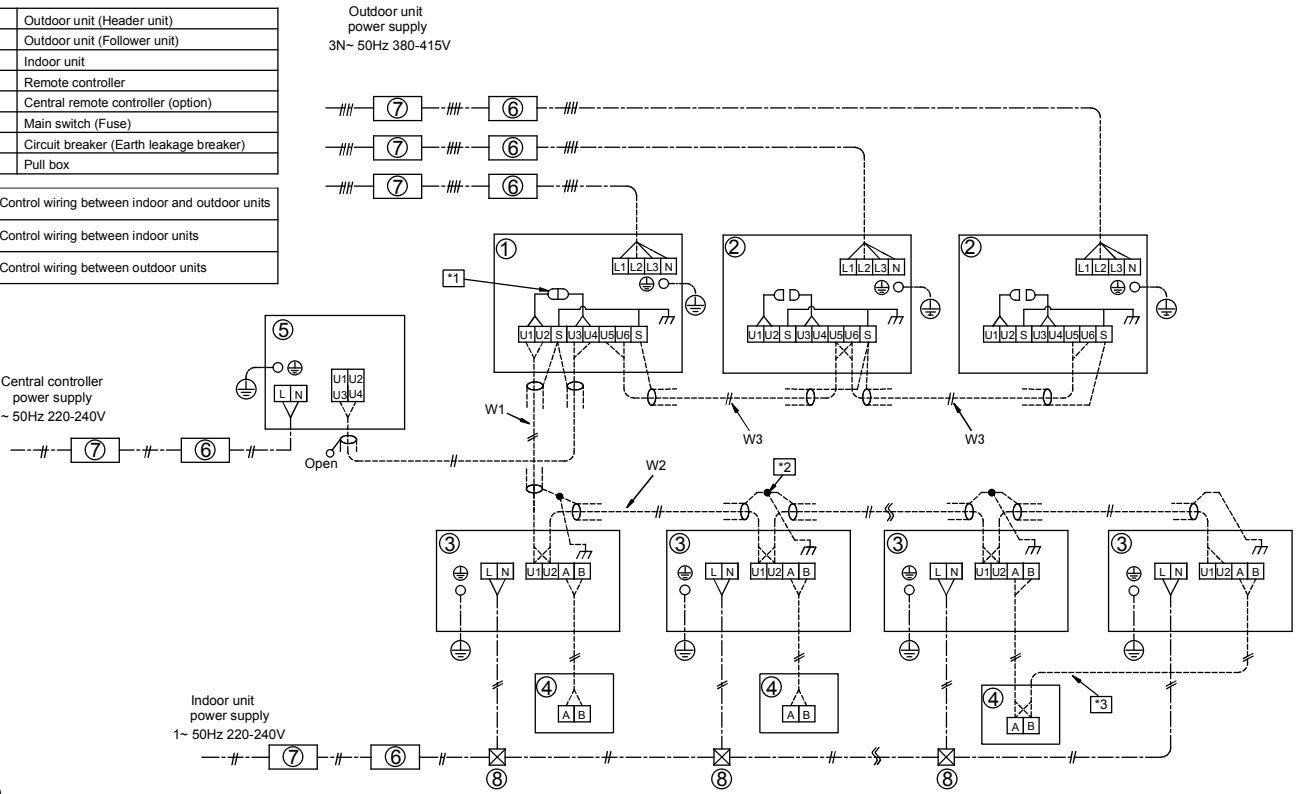
(Note)

1. When perform a central control, connect the relay connector between [U1,U2] and [U3,U4] terminal of the header unit. (At shipment from factory : No connection)
2. Connect the closed end terminal of shield wire. (Connected to all connecting sections in each unit)
3. Group control.
4. Select the power supply wiring and fuse of outdoor/indoor units according to each model's specification. Perform wiring of power supply complying with the rules and regulations of the local electric company.
5. For the control wires connecting indoor units, outdoor units, and between indoor and outdoor units, use 2-core and non-polarity shield wires.
6. As for details, see the wiring diagram of indoor/outdoor unit.
7. Diagram of corrosion heavy protection model is the same as that of standard model.

Three units connected
Model : MMY-AP***6HT8P-E

①	Outdoor unit (Header unit)
②	Outdoor unit (Follower unit)
③	Indoor unit
④	Remote controller
⑤	Central remote controller (option)
⑥	Main switch (Fuse)
⑦	Circuit breaker (Earth leakage breaker)
⑧	Pull box

W1 : Control wiring between indoor and outdoor units
W2 : Control wiring between indoor units
W3 : Control wiring between outdoor units



(Note)

1. When perform a central control, connect the relay connector between [U1,U2] and [U3,U4] terminal of the header unit. (At shipment from factory : No connection)
2. Connect the closed end terminal of shield wire. (Connected to all connecting sections in each unit)
3. Group control.
4. Select the power supply wiring and fuse of outdoor/indoor units according to each model's specification. Perform wiring of power supply complying with the rules and regulations of the local electric company.
5. For the control wires connecting indoor units, outdoor units, and between indoor and outdoor units, use 2-core and non-polarity shield wires.
6. As for details, see the wiring diagram of indoor/outdoor unit.
7. Diagram of corrosion heavy protection model is the same as that of standard model.

5-8. Applied control for Outdoor Unit

The outdoor fan high static pressure support and priority operation mode setting (cooling / heating / number of units / or priority indoor unit) functions are made available by setting relevant switches provided on the interface P.C. board of the outdoor unit.

5-8-1. Outdoor Fan High Static Pressure Shift

Purpose/characteristics

This function is used when connecting a duct to the discharge port of an outdoor unit (as part of, for example, unit installation on the floor by floor installation.)

Setup

Turn ON the DIP switch [SW10, Bit 2] provided on the interface P.C. board of the outdoor unit.
This function must be enabled with every discharge duct connected outdoor unit for both of the header and follower units.

Specification

Increase the speed of the propeller fan units on the outdoor fan to allow the installation of a duct with a maximum external static pressure not greater than specified in the table below. If a discharge duct with a resistance greater than 15 Pa (1.5 mmAq) is to be used, enable this function. The maximum external static pressures of base units are shown below (Table 1). In the case of combined use of multiple outdoor units, set all the units to the same maximum external static pressure as the one with the lowest maximum external static pressure (see Table 2).

Table 1: Maximum External Static Pressures of Base Outdoor Units

Model	MMY-	MAP0806*	MAP1006*	MAP1206*	MAP1406*	MAP1606*	MAP1806*	MAP2006*	MAP2206*
Maximum external static pressure	(Pa)	60	60	50	50	40	50	40	40
(*) Outdoor unit air flow	(m^3/h)	9700	9700	12200	12200	12600	17300	17900	18500

(*) Calculate duct resistance from outdoor unit air flow.

Table 2: Maximum External Static Pressures for Combined Use of Base Units

(1) Standard models

System	Combination			Maximum external static pressure (Pa)
HP	HP			
8	8			60
10	10			60
12	12			50
14	14			50
16	16			40
18	18			50
20	20			40
22	22			40
24	12	12		50
26	14	12		50
28	16	12		40
30	16	14		40
32	16	16		40
34	18	16		40
36	20	16		40
38	22	16		40
40	20	20		40
42	22	20		40
44	22	22		40
46	16	16	14	40
48	16	16	16	40
50	18	16	16	40
52	20	16	16	40
54	22	16	16	40
56	20	20	16	40
58	22	20	16	40
60	22	22	16	40

(2) High efficiency models

System	Combination			Maximum external static pressure (Pa)
HP	HP			
20	10	10		60
22	12	10		50
36	12	12	12	50
38	14	12	12	50
40	14	14	12	50
42	14	14	14	50
44	16	14	14	40
54	20	20	14	40

5-8-2. Priority Operation Mode Setting

Purpose/characteristics

This function allows switching between priority cooling and priority heating.
Four patterns of priority operation mode setting are available as shown in the table below. Select a suitable priority mode according to the needs of the customer.

Setup

⚠ CAUTION

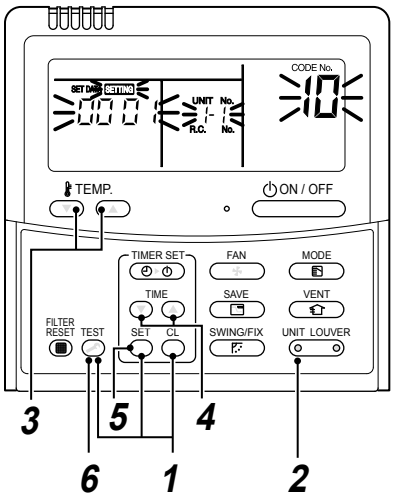
In the case of the priority indoor unit mode, it is necessary to set up the specific indoor unit chosen for priority operation (a single unit only).

(1) Outdoor unit setup method (header unit)

SW11		Operation
Bit 1	Bit 2	
OFF	OFF	Priority heating (factory default)
ON	OFF	Priority cooling
OFF	ON	Priority operation based on No. of units in operation (priority given to the operation mode with the largest share of units in operation)
ON	ON	Priority indoor unit (priority given to the operation mode of the specific indoor unit set up for priority operation)

(2) Indoor unit setup method for priority indoor unit mode

The setting can be changed only when the system is at rest. (Be sure to turn off the system prior to this operation.)



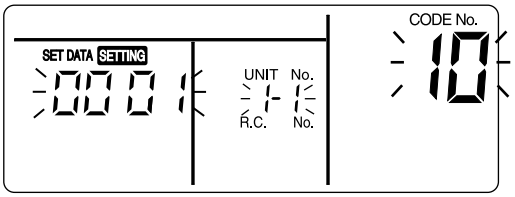
1 Push the TEST + SET + CL buttons simultaneously and hold for at least 4 seconds. The display window will start flashing in a little while.

Verify that the displayed CODE No. is 10.

- If the displayed CODE No. is not 10, press the TEST button to erase the display and repeat the procedure from the beginning.

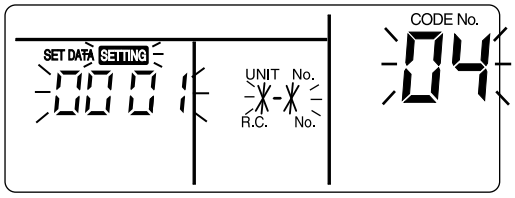
  (Note that the system does not respond to remote controller operation for about 1 minute after the TEST button is pushed.)

  (In the case of group control, the indoor unit No. displayed first indicates the header unit.)



2 Each time the UNIT LOUVER button is pushed, one of the indoor unit Nos. under group control is displayed in turn. Select the indoor unit whose setting is to be changed.

The fan and flap of the selected indoor unit then come on, so that the position of this unit can be confirmed.



3 Use the TEMP. button to select the CODE No. 04.

4 Use the TIME button to select the SET DATA 0001.

Priority set 0001 No priority set 0000

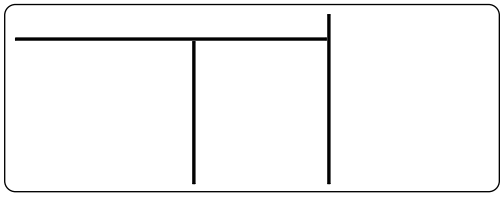
5 Push the SET button.

The setup is finished when the display changes from flashing to steady.

6 Upon finishing the setup, push the TEST button. (This finalizes the setting.)

When the TEST button is pushed, the display goes blank, and the system returns to normal off state.

(Note that the system does not respond to remote controller operation for about 1 minute after the TEST button is pushed.)



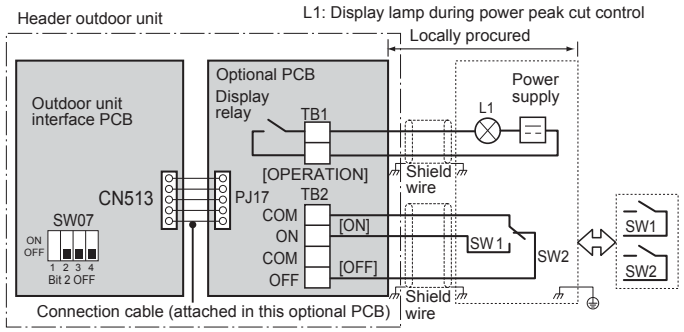
NOTE

Priority can be given to only one indoor unit. If more than one indoor unit is accidentally set to priority, an error code (L5 or L6: Duplicated indoor unit priority setting) will be displayed.

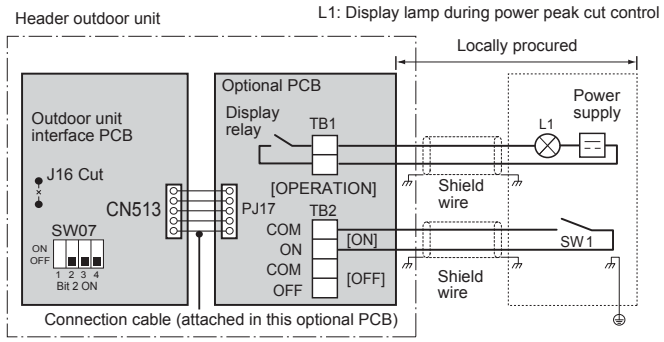
All units displaying L5 have been set to 0001 (priority). Keep the unit to which priority should be given as it is, and change the value back to 0000 (no priority) for all the rest.

Error code	Description
L5	Duplicated indoor unit priority setting (The unit is set to 0001.)
L6	Duplicated indoor unit priority setting (The unit is set to 0000.)

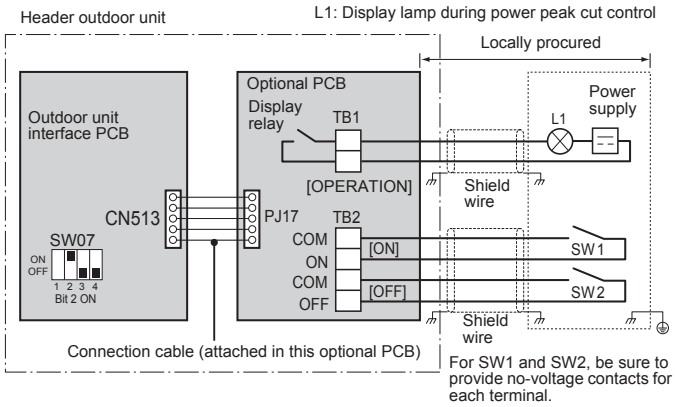
5-9. Optional printed board (PCB) of outdoor unit

<table>
<tr><th>Model name</th><th>Appearance</th><th>Function</th></tr>
<tr><td rowspan="2">TCB-PCDM4E</td><td> 
Size: 2.80 × 3.35 (in)
Application
 
* Install the optional PCB in the inverter assembly of the outdoor header unit.</td><td>
Power peak-cut Control
Standard Specifications
(Wiring example)


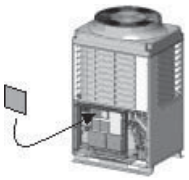
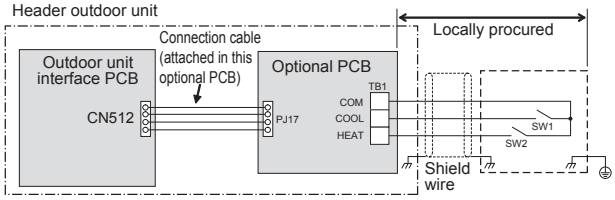
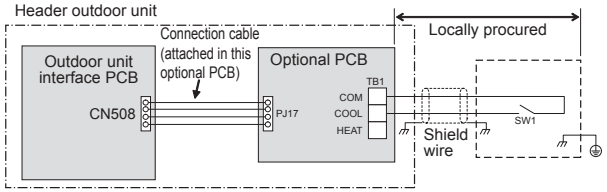
For SW1 and SW2, be sure to provide no-voltage contacts for each terminal.
The input signals of SW1 and SW2 may be pulse input (100 msec or more) or continuous make.
Do not turn on [SW1] and [SW2] simultaneously.

<SW07 (bit 2) OFF [2-stage switching]>
<table>
<tr><th colspan="2">Input</th><th colspan="2">SW07 (bit 1)</th><th rowspan="2">Display relay (L1)</th></tr>
<tr><th>SW1</th><th>SW2</th><th>Bit 1 OFF</th><th>Bit 1 ON</th></tr>
<tr><td>OFF</td><td>ON</td><td>100% (normal operation)</td><td>100% (normal operation)</td><td>OFF</td></tr>
<tr><td>ON</td><td>OFF</td><td>0% (forced stop)</td><td>Approx. 60% (upper limit regulated)</td><td>ON</td></tr>
</table>
For one input function
Power peak-cut ON-OFF control is made possible on SMMS-e and SHRM-e on the [ON]terminal input (SW1) by cutting the jumper lead(J16) of the center outdoor unit interface PCB.
(Wiring example)


<SW07 (bit 2) OFF [2-stage switching]>
Power peak-cut control turns ON when SW1 in the wiring example is ON (continuous make).
<table>
<tr><th rowspan="2">Jumper lead J16</th><th rowspan="2">Input SW1</th><th colspan="2">SW07 (bit 1)</th><th rowspan="2">Display relay (L1)</th></tr>
<tr><th>Bit 1 OFF</th><th>Bit 1 ON</th></tr>
<tr><td rowspan="2">Cut</td><td>OFF</td><td>100% (normal operation)</td><td>100% (normal operation)</td><td>OFF</td></tr>
<tr><td>ON</td><td>0% (forced stop)</td><td>Approx. 60% (upper limit regulated)</td><td>ON</td></tr>
</table>
</td></tr>
</table>

Model name	Appearance	Function
TCB-PCDM4E	 Size: 2.80 × 3.35 (in) Application  * Install the optional PCB in the inverter assembly of the outdoor header unit.	Enhanced Specifications (Wiring example)  <SW07 (bit 2) ON [4-stage switching]>

Input		SW07 (bit 1)		Display relay (L1)
SW1	SW2	Bit 1 OFF	Bit 1 ON	
OFF	OFF	100% (normal operation)	100% (normal operation)	OFF
ON	OFF	Approx. 80% (upper limit regulated)	Approx. 85% (upper limit regulated)	ON
OFF	ON	Approx. 60% (upper limit regulated)	Approx. 75% (upper limit regulated)	ON
ON	ON	0% (forced stop)	Approx. 60% (upper limit regulated)	ON

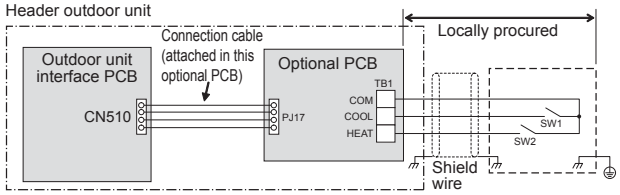
Model name	Appearance	Function
TCB-PCMO4E	 Size: 2.19 × 2.35 (in) Application  * Install the optional PCB in the inverter assembly of the outdoor header unit.	[1] External master ON/OFF control ▼ Function By connecting the cable (attached in this optional PCB) to the interface PC board on an outdoor unit, all indoor units connected to the outdoor unit enable to operate simultaneously. ▼ Operation The outdoor unit connection is for the header unit (U1).  SW1: Operation input switch SW2: Stop input switch Terminal / Input Signal / Operation COOL (SW1) — ON / OFF — All indoor units operate together HEAT (SW2) — ON / OFF — All indoor units stop together Provide no-voltage pulse contacts for each terminal. Hold the ON state for at least 100 msec. Do not turn SW1 and SW2 ON simultaneously [2] Night time operation (sound reduction) control ▼ Function As the cable (attached in this optional PCB) is connected to the “Interface PCB” on an outdoor unit, both compressor speed and fan speed are restricted while the signal of the night operation control is input. It makes the noise reduction during the night time operation. ▼ Operation The outdoor unit connection is for the header unit (U1).  SW1: Night time signal switch Terminal / Input Signal / Operation COOL (SW1) — ON / OFF — Night time operation control ON / OFF — Normal operation Each terminal should be connected to dry contact. ▼ Sound reduction and approximation capacity (reference)

Outdoor unit (bace unit)	During low noise mode dB(A)	Capacity	
		Cooling	Heating
072 type	50	Approx. 85%	Approx. 80%
096 type	53	Approx. 85%	Approx. 85%
120 type	53	Approx. 80%	Approx. 80%
144 type	54	Approx. 70%	Approx. 70%
168 type	54	Approx. 65%	Approx. 65%

* Position of noise measuring device:
3.3 ft (1 m) from the front face of the set and 4.9 ft (1.5 m) above ground (anechoic sound)

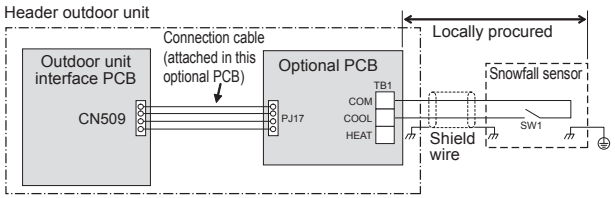
<table>
<tr><th>Model name</th><th>Appearance</th><th>Function</th></tr>
<tr>
<td>TCB-PCMO4E</td>
<td>

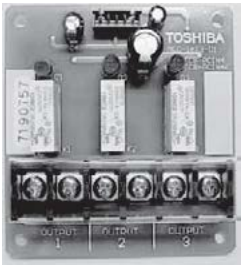
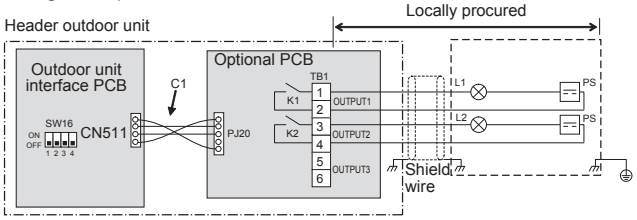

Size: 2.19 × 2.35 (in)
Application

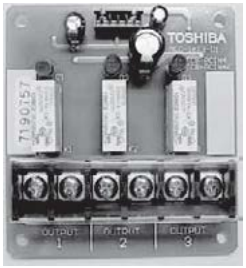
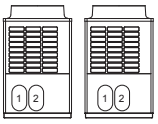
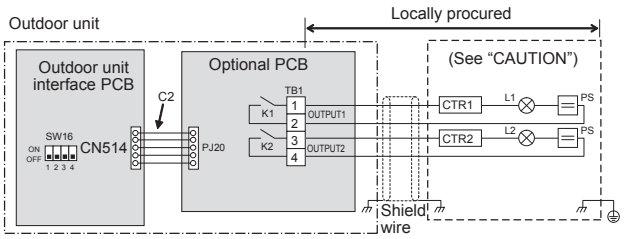
* Install the optional PCB in the inverter assembly of the outdoor header unit.
</td>
<td>
[3] Operation mode selection control
▼ Function
The heating/cooling mode of the system can be selected by connecting to the interface PCB of outdoor units.
▼ Operation
The outdoor unit connection is for the header unit (U1).


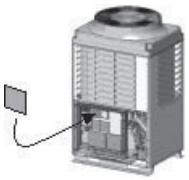
SW1: Cooling mode specified input switch
SW2: Heating mode specified input switch
<table>
<tr><th colspan="2">Input Signal</th><th rowspan="2">Operation: Selected operation mode</th></tr>
<tr><th>Cooling (SW1)</th><th>Heating (SW2)</th></tr>
<tr><td>ON</td><td>OFF</td><td>Cooling operation only</td></tr>
<tr><td>OFF</td><td>ON</td><td>Heating operation only</td></tr>
<tr><td>OFF</td><td>OFF</td><td>Normal operation</td></tr>
</table>
Each terminal should be connected to dry contact.

The Switching of processing of Indoor Unit Operation State
Processing of the operation state can be switched for indoor units in a mode other than the selected operation mode by setting the jumper lead (J01) of the header outdoor unit interface PCB.
<table>
<tr><th>Jumper lead</th><th>Details of Processing</th></tr>
<tr><td>J01 connected (factory default)</td><td>Unallowed indoor units in a mode other than the selected operation mode are not treated as priority (thermo OFF state). (Unallowed indoor units)
<table>
<tr><th>Operation Mode</th><th>Operation State</th><th>Remote control</th></tr>
<tr><td>Cooling unit</td><td>Air blow operation at blow rate set on remote control</td><td rowspan="3">⏻, ❁ indicator is displayed.</td></tr>
<tr><td>Heating unit</td><td>Air blow operation at super-slow blow rate</td></tr>
<tr><td>Air blow unit</td><td>Regular air blow operation at blow rate set on remote control</td></tr>
</table></td></tr>
<tr><td>J01 cut</td><td>Indoor units in a mode other than the selected operation mode are forcibly switched to the selected operation mode.
<table>
<tr><th>PC board selection mode</th><th colspan="2">Remote control operation/display</th></tr>
<tr><td>Normal</td><td>❄, 💧, ☀, or ✣ can be selected</td><td rowspan="3">When using the remote control, 📝 (mode select control) indicator is displayed.</td></tr>
<tr><td>Cool</td><td>Only ❄, 💧, or ✣ can be selected</td></tr>
<tr><td>Heat</td><td>Only ☀ or ✣ can be selected</td></tr>
</table></td></tr>
</table>
</td>
</tr>
</table>

Model name	Appearance	Function
TCB-PCMO4E	 Size: 2.19 × 2.35 (in) Application  * Install the optional PCB in the inverter assembly of the outdoor header unit.	[4] Snowfall fan control ▼ Function The outdoor unit fan operates at snowfall by connecting to the outdoor unit interface PCB. ▼ Operation  SW1: Snowfall detection switch (snowfall sensor) Terminal / Input Signal / Operation Cooling (SW1): ON → OFF — Snowfall fan control (Fan in outdoor unit operates.) Cooling (SW1): ON → OFF — Normal operation Provide no-voltage continuous contacts for each terminal.

Model name	Appearance	Function
TCB-PCIN4E	 Size: 2.87 × 3.11 (in) Application  * Install the optional PCB in the inverter assembly of the outdoor header unit.	[1] Error / Operation Output ▼ Function The operation error output PCB can indicate operation and error states by connecting to the interface PCB of outdoor units. ▼ Operation Operation output: The operation indicator is on while any indoor unit in the system is operating. Error output: The error indicator is on when an error is occurred on even one of the indoor or outdoor units in the system. Wiring example  C1 Attached connection cable 1 (4wires) CN511 Connector on interface side (green) K1, K2 Relays L1 Error indication Lamp L2 Operation indication Lamp OUTPUT1 Error output OUTPUT2 Operation output PJ20 Connector on optional PCB side PS Power supply unit TB1 Terminal block * [OUTPUT3] is displayed when power is turned on.

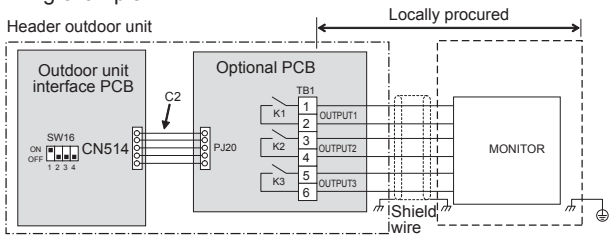
Model name	Appearance	Function
TCB-PCIN4E	 Size: 2.87 × 3.11 (in) Application  * Install the optional PCB in the inverter assembly of individual outdoor unit.	[2] Compressor Operation Output ▼ Function While each compressor in the outdoor unit is running, the compressor operation signal is displayed. This function can also be used to measure the elapsed time for the compressor operation. ▼ Operation During a compressor is in operation, the relay of the output terminal corresponding to that compressor turns on (closed) and turns OFF (opens) . When operation stops. As shown in the figure, the output terminals “OUTPUT1”, “OUTPUT2” from the left compressors facing to the front of the outdoor unit.  Wiring example  Outdoor unit Locally procured Outdoor unit interface PCB Optional PCB (See “CAUTION”) C2 TB1 K1 OUTPUT1 SW16 CN514 PJ20 K2 OUTPUT2 CTR1 CTR2 L1 L2 PS Shield wire C2 | Connection cable 2 (2) CN514 | Connector on interface side (green) CTR1 | Elapsed operation counter 1 CTR2 | Elapsed operation counter 2 K1, K2 | Relays L1, L2, L3 | Operation indication LEDs OUTPUT1 | Compressor 1 operation output terminal OUTPUT2 | Compressor 2 operation output terminal PJ20 | Connector on optional PCB side PS | Power supply unit TB1 | Terminal block

Model name	Appearance	Function
TCB-PCIN4E	 Size: 2.87 × 3.11 (in) Application  * Install the optional PCB in the inverter assembly of the outdoor header unit.	[3] Operating Rate Output ▼ Function The state of operation is available to check remotely as the signal of system operation rate enable to output. ▼ Operation As shown in the table, each of the output terminals turns ON (relay closes) and OFF (relay opens) depending on the system operating rate.

Functions	SW16	OUTPUT1	OUTPUT2	OUTPUT3	Operating rate FA
System operating rate output	ON OFF 1 2 3 4 bit 1: ON bit 2: OFF	OFF	OFF	OFF	FA = 0%
		ON	OFF	OFF	0% < FA < 20%
		OFF	ON	OFF	20% ≤ FA < 35%
		ON	ON	OFF	35% ≤ FA < 50%
		OFF	OFF	ON	50% ≤ FA < 65%
		ON	OFF	ON	65% ≤ FA < 80%
		OFF	ON	ON	80% ≤ FA < 95%
		ON	ON	ON	95% ≤ FA

OFF=relay open ON=relay closed

Wiring example

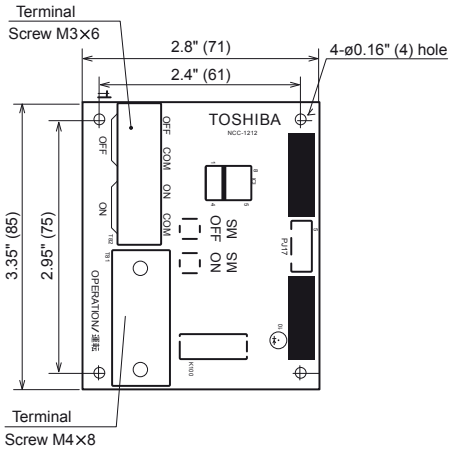


C2	Attached connection cable 2 (5wires)
CN514	Connector on interface side (green)
K1, K2, K3	Relays
MONITOR	Monitoring device
OUTPUT1	Output terminal for each function
OUTPUT2	Output terminal for each function
OUTPUT3	Output terminal for each function
PJ20	Connector on optional PCB side
TB1	Terminal block

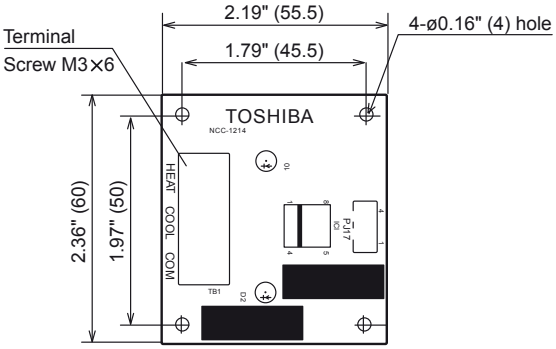
Dimensions of P.C. board

Unit: in (mm)

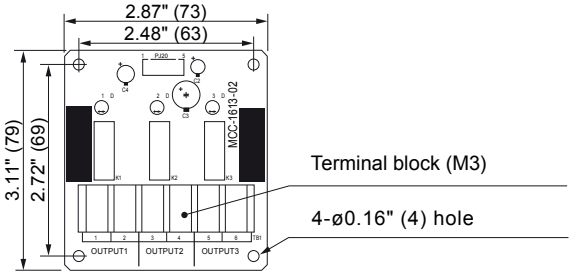
TCB-PCDM4E



TCB-PCMO4E



TCB-PCIN4E



5-10. Part Load performance

MMY-MAP0806HT8P-E (8HP, 22.4kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (℃)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	20.8	20.8	5.99	18.8	4.85	16.7	3.89	14.6	3.09	12.5	2.43	10.4	1.89	8.34	1.47	6.25	1.15
39 ℃	21.2	21.2	5.90	19.1	4.78	16.9	3.84	14.8	3.04	12.7	2.39	10.6	1.87	8.47	1.45	6.35	1.13
37 ℃	21.8	21.8	5.72	19.6	4.64	17.5	3.72	15.3	2.95	13.1	2.32	10.9	1.81	8.73	1.41	6.54	1.10
35 ℃	22.4	22.4	5.54	20.2	4.49	17.9	3.60	15.7	2.86	13.4	2.25	11.2	1.75	8.96	1.36	6.72	1.06
32 ℃	22.4	22.4	5.10	20.2	4.15	17.9	3.34	15.7	2.66	13.4	2.10	11.2	1.65	8.96	1.29	6.72	1.01
31 ℃	22.4	22.4	4.72	20.2	3.85	17.9	3.10	15.7	2.48	13.4	1.97	11.2	1.55	8.96	1.22	6.72	0.96
30 ℃	22.4	22.4	4.55	20.2	3.71	17.9	3.00	15.7	2.40	13.4	1.90	11.2	1.50	8.96	1.18	6.72	0.94
29 ℃	22.4	22.4	4.38	20.2	3.58	17.9	2.89	15.7	2.32	13.4	1.84	11.2	1.46	8.96	1.15	6.72	0.91
27 ℃	22.4	22.4	4.08	20.2	3.34	17.9	2.70	15.7	2.17	13.4	1.73	11.2	1.38	8.96	1.09	6.72	0.87
25 ℃	22.4	22.4	3.80	20.2	3.11	17.9	2.53	15.7	2.04	13.4	1.63	11.2	1.30	8.96	1.03	6.72	0.83
23 ℃	22.4	22.4	3.62	20.2	2.97	17.9	2.42	15.7	1.95	13.4	1.57	11.2	1.25	8.96	1.00	6.72	0.80
21 ℃	22.4	22.4	3.54	20.2	2.91	17.9	2.37	15.7	1.92	13.4	1.54	11.2	1.23	8.96	0.99	6.72	0.80
20 ℃	22.4	22.4	3.51	20.2	2.88	17.9	2.35	15.7	1.90	13.4	1.53	11.2	1.23	8.96	0.98	6.72	0.79
19 ℃	22.4	22.4	3.47	20.2	2.86	17.9	2.33	15.7	1.89	13.4	1.52	11.2	1.22	8.96	0.98	6.72	0.79
17 ℃	22.4	22.4	3.41	20.2	2.81	17.9	2.30	15.7	1.86	13.4	1.50	11.2	1.21	8.96	0.97	6.72	0.79
15 ℃	22.4	22.4	3.36	20.2	2.77	17.9	2.27	15.7	1.84	13.4	1.49	11.2	1.20	8.96	0.97	6.72	0.78

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	25.0	25.0	4.48	22.5	3.71	20.0	3.07	17.5	2.55	15.0	2.12	12.5	1.75	10.0	1.43	7.50	1.12
13.0	11.8	25.0	25.0	4.69	22.5	3.87	20.0	3.19	17.5	2.63	15.0	2.18	12.5	1.79	10.0	1.46	7.50	1.14
11.0	9.8	25.0	25.0	4.95	22.5	4.06	20.0	3.32	17.5	2.73	15.0	2.24	12.5	1.84	10.0	1.49	7.50	1.17
9.0	7.9	25.0	25.0	5.22	22.5	4.25	20.0	3.47	17.5	2.83	15.0	2.31	12.5	1.89	10.0	1.52	7.50	1.19
7.0	6.0	25.0	25.0	5.53	22.5	4.48	20.0	3.62	17.5	2.94	15.0	2.39	12.5	1.94	10.0	1.56	7.50	1.21
5.0	4.1	24.3	24.3	5.51	21.8	4.46	19.4	3.61	17.0	2.93	14.6	2.38	12.1	1.93	9.7	1.55	7.28	1.21
3.0	2.2	23.5	23.5	5.50	21.2	4.45	18.8	3.60	16.5	2.92	14.1	2.37	11.8	1.93	9.4	1.55	7.06	1.21
0.0	-0.7	22.4	22.4	5.47	20.2	4.43	17.9	3.59	15.7	2.91	13.5	2.36	11.2	1.92	9.0	1.54	6.73	1.20
-3.0	-3.7	21.3	21.3	5.44	19.1	4.41	17.0	3.57	14.9	2.89	12.8	2.35	10.6	1.91	8.5	1.54	6.38	1.20
-5.0	-5.6	20.5	20.5	5.43	18.5	4.39	16.4	3.56	14.4	2.89	12.3	2.34	10.3	1.90	8.2	1.53	6.16	1.19
-7.0	-7.6	19.8	19.8	5.41	17.8	4.38	15.8	3.55	13.8	2.88	11.9	2.34	9.9	1.90	7.9	1.53	5.93	1.19
-10	-10.5	18.7	18.7	5.38	16.8	4.36	14.9	3.53	13.1	2.86	11.2	2.33	9.3	1.89	7.5	1.52	5.60	1.18
-14.5	-15.0	16.9	16.9	5.34	15.2	4.33	13.5	3.50	11.8	2.84	10.2	2.31	8.5	1.87	6.8	1.51	5.08	1.17

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

Part Load performance

MMY-MAP1006HT8P-E (10HP, 28kW system)

Cooling

Outdoor Unit Dry-Bulb (℃)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	26.1	26.1	8.31	23.5	6.77	20.8	5.41	18.2	4.24	15.6	3.24	13.0	2.43	10.42	1.82	7.82	1.39
39 ℃	26.5	26.5	8.19	23.8	6.67	21.2	5.33	18.5	4.17	15.9	3.19	13.2	2.40	10.59	1.79	7.94	1.37
37 ℃	27.3	27.3	7.94	24.5	6.47	21.8	5.17	19.1	4.05	16.4	3.10	13.6	2.33	10.91	1.73	8.18	1.33
35 ℃	28.0	28.0	7.69	25.2	6.26	22.4	5.01	19.6	3.92	16.8	3.00	14.0	2.25	11.20	1.68	8.40	1.28
32 ℃	28.0	28.0	7.10	25.2	5.79	22.4	4.63	19.6	3.63	16.8	2.79	14.0	2.10	11.20	1.58	8.40	1.22
31 ℃	28.0	28.0	6.57	25.2	5.37	22.4	4.30	19.6	3.38	16.8	2.60	14.0	1.97	11.20	1.49	8.40	1.16
30 ℃	28.0	28.0	6.33	25.2	5.17	22.4	4.15	19.6	3.26	16.8	2.51	14.0	1.91	11.20	1.45	8.40	1.13
29 ℃	28.0	28.0	6.11	25.2	4.99	22.4	4.00	19.6	3.15	16.8	2.43	14.0	1.85	11.20	1.41	8.40	1.11
27 ℃	28.0	28.0	5.68	25.2	4.65	22.4	3.73	19.6	2.94	16.8	2.28	14.0	1.74	11.20	1.33	8.40	1.05
25 ℃	28.0	28.0	5.30	25.2	4.33	22.4	3.48	19.6	2.75	16.8	2.13	14.0	1.64	11.20	1.26	8.40	1.00
23 ℃	28.0	28.0	5.06	25.2	4.14	22.4	3.33	19.6	2.63	16.8	2.05	14.0	1.57	11.20	1.22	8.40	0.97
21 ℃	28.0	28.0	4.94	25.2	4.05	22.4	3.26	19.6	2.58	16.8	2.01	14.0	1.55	11.20	1.20	8.40	0.97
20 ℃	28.0	28.0	4.89	25.2	4.01	22.4	3.23	19.6	2.55	16.8	1.99	14.0	1.54	11.20	1.19	8.40	0.96
19 ℃	28.0	28.0	4.84	25.2	3.97	22.4	3.20	19.6	2.53	16.8	1.98	14.0	1.53	11.20	1.19	8.40	0.96
17 ℃	28.0	28.0	4.76	25.2	3.90	22.4	3.15	19.6	2.49	16.8	1.95	14.0	1.51	11.20	1.18	8.40	0.96
15 ℃	28.0	28.0	4.69	25.2	3.84	22.4	3.10	19.6	2.46	16.8	1.93	14.0	1.49	11.20	1.17	8.40	0.95

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	31.5	31.5	5.98	28.4	4.96	25.2	4.12	22.1	3.44	18.9	2.88	15.8	2.38	12.6	1.90	9.45	1.42
13.0	11.8	31.5	31.5	6.27	28.4	5.17	25.2	4.28	22.1	3.55	18.9	2.95	15.8	2.43	12.6	1.95	9.45	1.45
11.0	9.8	31.5	31.5	6.62	28.4	5.42	25.2	4.45	22.1	3.68	18.9	3.04	15.8	2.50	12.6	2.00	9.45	1.49
9.0	7.9	31.5	31.5	6.99	28.4	5.68	25.2	4.64	22.1	3.81	18.9	3.13	15.8	2.56	12.6	2.05	9.45	1.53
7.0	6.0	31.5	31.5	7.41	28.4	5.98	25.2	4.85	22.1	3.95	18.9	3.23	15.8	2.63	12.6	2.10	9.45	1.57
5.0	4.1	30.5	30.5	7.37	27.4	5.95	24.4	4.82	21.3	3.93	18.3	3.21	15.2	2.62	12.2	2.09	9.15	1.57
3.0	2.2	29.5	29.5	7.32	26.5	5.91	23.6	4.79	20.6	3.90	17.7	3.19	14.7	2.60	11.8	2.08	8.84	1.56
0.0	-0.7	27.9	27.9	7.26	25.1	5.86	22.3	4.75	19.5	3.87	16.8	3.17	14.0	2.58	11.2	2.06	8.38	1.54
-3.0	-3.7	26.3	26.3	7.19	23.7	5.81	21.1	4.71	18.4	3.83	15.8	3.14	13.2	2.56	10.5	2.04	7.90	1.53
-5.0	-5.6	25.3	25.3	7.15	22.8	5.77	20.3	4.68	17.7	3.81	15.2	3.12	12.7	2.54	10.1	2.03	7.59	1.52
-7.0	-7.6	24.2	24.2	7.11	21.8	5.74	19.4	4.65	17.0	3.79	14.5	3.10	12.1	2.53	9.7	2.01	7.27	1.51
-10	-10.5	22.7	22.7	7.04	20.4	5.68	18.2	4.61	15.9	3.75	13.6	3.07	11.4	2.50	9.1	2.00	6.81	1.50
-14.5	-15.0	20.3	20.3	6.94	18.3	5.60	16.2	4.54	14.2	3.70	12.2	3.03	10.2	2.47	8.1	1.97	6.09	1.48

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-MAP1206HT8P-E (12HP, 33.5kW system)

Cooling

Outdoor Unit Dry-Bulb (℃)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	31.2	31.2	10.80	28.1	8.65	24.9	6.85	21.8	5.35	18.7	4.11	15.6	3.09	12.47	2.24	9.35	1.54
39 ℃	31.7	31.7	10.64	28.5	8.53	25.3	6.75	22.2	5.27	19.0	4.05	15.8	3.04	12.67	2.21	9.50	1.51
37 ℃	32.6	32.6	10.32	29.4	8.27	26.1	6.54	22.8	5.11	19.6	3.92	16.3	2.95	13.05	2.14	9.79	1.47
35 ℃	33.5	33.5	10.00	30.1	8.01	26.8	6.34	23.4	4.95	20.1	3.80	16.7	2.86	13.40	2.08	10.05	1.42
32 ℃	33.5	33.5	9.19	30.2	7.38	26.8	5.86	23.5	4.59	20.1	3.54	16.8	2.67	13.40	1.94	10.05	1.33
31 ℃	33.5	33.5	8.48	30.2	6.83	26.8	5.43	23.5	4.27	20.1	3.30	16.8	2.49	13.40	1.82	10.05	1.25
30 ℃	33.5	33.5	8.15	30.2	6.57	26.8	5.24	23.5	4.12	20.1	3.19	16.8	2.41	13.40	1.77	10.05	1.22
29 ℃	33.5	33.5	7.85	30.2	6.33	26.8	5.05	23.5	3.98	20.1	3.08	16.8	2.34	13.40	1.71	10.05	1.18
27 ℃	33.5	33.5	7.29	30.2	5.89	26.8	4.71	23.5	3.72	20.1	2.89	16.8	2.19	13.40	1.61	10.05	1.11
25 ℃	33.5	33.5	6.78	30.2	5.49	26.8	4.40	23.5	3.48	20.1	2.71	16.8	2.06	13.40	1.52	10.05	1.05
23 ℃	33.5	33.5	6.46	30.2	5.24	26.8	4.20	23.5	3.33	20.1	2.60	16.8	1.98	13.40	1.46	10.05	1.01
21 ℃	33.5	33.5	6.30	30.2	5.12	26.8	4.11	23.5	3.26	20.1	2.55	16.8	1.95	13.40	1.43	10.05	0.99
20 ℃	33.5	33.5	6.24	30.2	5.07	26.8	4.07	23.5	3.23	20.1	2.53	16.8	1.93	13.40	1.42	10.05	0.99
19 ℃	33.5	33.5	6.17	30.2	5.02	26.8	4.04	23.5	3.21	20.1	2.51	16.8	1.92	13.40	1.42	10.05	0.98
17 ℃	33.5	33.5	6.06	30.2	4.93	26.8	3.97	23.5	3.16	20.1	2.47	16.8	1.89	13.40	1.40	10.05	0.97
15 ℃	33.5	33.5	5.96	30.2	4.86	26.8	3.92	23.5	3.12	20.1	2.44	16.8	1.87	13.40	1.38	10.05	0.96

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	37.5	37.5	7.91	33.8	6.62	30.0	5.53	26.3	4.61	22.5	3.80	18.8	3.08	15.0	2.39	11.3	1.70
13.0	11.8	37.5	37.5	8.28	33.8	6.89	30.0	5.73	26.3	4.76	22.5	3.92	18.8	3.17	15.0	2.46	11.3	1.75
11.0	9.8	37.5	37.5	8.70	33.8	7.21	30.0	5.97	26.3	4.93	22.5	4.04	18.8	3.26	15.0	2.53	11.3	1.81
9.0	7.9	37.5	37.5	9.15	33.8	7.54	30.0	6.21	26.3	5.11	22.5	4.17	18.8	3.36	15.0	2.61	11.3	1.87
7.0	6.0	37.5	37.5	9.65	33.8	7.91	30.0	6.48	26.3	5.30	22.5	4.31	18.8	3.46	15.0	2.68	11.3	1.93
5.0	4.1	36.2	36.2	9.58	32.5	7.85	28.9	6.43	25.3	5.26	21.7	4.28	18.1	3.43	14.5	2.66	10.8	1.91
3.0	2.2	34.8	34.8	9.50	31.3	7.79	27.9	6.38	24.4	5.22	20.9	4.25	17.4	3.41	13.9	2.64	10.4	1.90
0.0	-0.7	32.8	32.8	9.39	29.5	7.70	26.2	6.31	22.9	5.16	19.7	4.20	16.4	3.37	13.1	2.61	9.8	1.88
-3.0	-3.7	30.6	30.6	9.27	27.6	7.60	24.5	6.23	21.5	5.09	18.4	4.15	15.3	3.33	12.3	2.58	9.2	1.85
-5.0	-5.6	29.3	29.3	9.20	26.4	7.54	23.4	6.18	20.5	5.05	17.6	4.11	14.7	3.30	11.7	2.56	8.8	1.84
-7.0	-7.6	27.9	27.9	9.12	25.1	7.48	22.3	6.13	19.5	5.01	16.7	4.08	13.9	3.27	11.2	2.54	8.4	1.82
-10	-10.5	25.8	25.8	9.01	23.3	7.39	20.7	6.05	18.1	4.95	15.5	4.03	12.9	3.23	10.3	2.51	7.8	1.80
-14.5	-15.0	22.7	22.7	8.84	20.4	7.25	18.1	5.94	15.9	4.85	13.6	3.95	11.3	3.17	9.1	2.46	6.8	1.77

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-MAP1406HT8P-E (14HP, 40kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (℃)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	37.2	37.2	13.3	33.5	10.5	29.8	8.21	26.1	6.40	22.3	4.95	18.6	3.79	14.9	2.82	11.2	1.95
39 ℃	37.8	37.8	13.1	34.0	10.3	30.3	8.08	26.5	6.30	22.7	4.88	18.9	3.74	15.1	2.78	11.3	1.92
37 ℃	39.0	39.0	12.7	35.1	10.0	31.2	7.84	27.3	6.11	23.4	4.73	19.5	3.62	15.6	2.69	11.7	1.86
35 ℃	40.0	40.0	12.3	36.0	9.69	32.0	7.59	28.0	5.92	24.0	4.58	20.0	3.51	16.0	2.61	12.0	1.81
33 ℃	40.0	40.0	11.3	36.0	8.91	32.0	7.01	28.0	5.49	24.0	4.27	20.0	3.28	16.0	2.45	12.0	1.69
31 ℃	40.0	40.0	10.3	36.0	8.22	32.0	6.50	28.0	5.11	24.0	3.99	20.0	3.08	16.0	2.30	12.0	1.59
30 ℃	40.0	40.0	9.94	36.0	7.91	32.0	6.26	28.0	4.94	24.0	3.86	20.0	2.98	16.0	2.23	12.0	1.54
29 ℃	40.0	40.0	9.55	36.0	7.62	32.0	6.04	28.0	4.77	24.0	3.74	20.0	2.89	16.0	2.16	12.0	1.49
27 ℃	40.0	40.0	8.85	36.0	7.08	32.0	5.63	28.0	4.46	24.0	3.51	20.0	2.72	16.0	2.04	12.0	1.40
25 ℃	40.0	40.0	8.22	36.0	6.59	32.0	5.26	28.0	4.18	24.0	3.30	20.0	2.56	16.0	1.92	12.0	1.32
23 ℃	40.0	40.0	7.81	36.0	6.28	32.0	5.02	28.0	4.00	24.0	3.16	20.0	2.46	16.0	1.85	12.0	1.27
21 ℃	40.0	40.0	7.62	36.0	6.13	32.0	4.92	28.0	3.93	24.0	3.11	20.0	2.42	16.0	1.82	12.0	1.25
20 ℃	40.0	40.0	7.53	36.0	6.07	32.0	4.87	28.0	3.89	24.0	3.09	20.0	2.41	16.0	1.81	12.0	1.24
19 ℃	40.0	40.0	7.45	36.0	6.01	32.0	4.83	28.0	3.86	24.0	3.06	20.0	2.39	16.0	1.79	12.0	1.23
17 ℃	40.0	40.0	7.31	36.0	5.90	32.0	4.75	28.0	3.81	24.0	3.02	20.0	2.36	16.0	1.77	12.0	1.22
15 ℃	40.0	40.0	7.18	36.0	5.81	32.0	4.69	28.0	3.76	24.0	2.99	20.0	2.34	16.0	1.76	12.0	1.20

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	45.0	45.0	9.05	40.5	7.48	36.0	6.19	31.5	5.13	27.0	4.26	22.5	3.53	18.0	2.89	13.5	2.31
13.0	11.8	45.0	45.0	9.50	40.5	7.81	36.0	6.43	31.5	5.30	27.0	4.37	22.5	3.61	18.0	2.95	13.5	2.35
11.0	9.8	45.0	45.0	10.0	40.5	8.19	36.0	6.70	31.5	5.49	27.0	4.51	22.5	3.70	18.0	3.01	13.5	2.39
9.0	7.9	45.0	45.0	10.6	40.5	8.60	36.0	6.99	31.5	5.69	27.0	4.65	22.5	3.79	18.0	3.07	13.5	2.43
7.0	6.0	45.0	45.0	11.2	40.5	9.06	36.0	7.32	31.5	5.92	27.0	4.80	22.5	3.90	18.0	3.14	13.5	2.48
5.0	4.1	43.6	43.6	11.1	39.2	9.00	34.8	7.27	30.5	5.88	26.1	4.77	21.8	3.87	17.4	3.13	13.1	2.47
3.0	2.2	42.1	42.1	11.1	37.9	8.95	33.7	7.23	29.5	5.85	25.3	4.74	21.1	3.85	16.8	3.11	12.6	2.45
0.0	-0.7	39.9	39.9	11.0	35.9	8.87	31.9	7.17	27.9	5.80	23.9	4.70	19.9	3.82	16.0	3.08	12.0	2.43
-3.0	-3.7	37.6	37.6	10.9	33.8	8.79	30.1	7.10	26.3	5.75	22.6	4.66	18.8	3.78	15.0	3.05	11.3	2.41
-5.0	-5.6	36.2	36.2	10.8	32.5	8.74	28.9	7.06	25.3	5.71	21.7	4.63	18.1	3.76	14.5	3.03	10.8	2.39
-7.0	-7.6	34.6	34.6	10.7	31.2	8.68	27.7	7.02	24.2	5.68	20.8	4.60	17.3	3.74	13.9	3.02	10.4	2.38
-10	-10.5	32.4	32.4	10.6	29.2	8.61	25.9	6.95	22.7	5.63	19.5	4.56	16.2	3.70	13.0	2.99	9.7	2.36
-14.5	-15.0	29.0	29.0	10.5	26.1	8.48	23.2	6.85	20.3	5.55	17.4	4.50	14.5	3.65	11.6	2.95	8.7	2.32

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-MAP1606HT8P-E (16HP, 45kW system)

Cooling

Outdoor Unit Dry-Bulb (℃)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	41.9	41.9	15.4	37.7	12.3	33.5	9.70	29.3	7.54	25.1	5.77	20.9	4.31	16.8	3.10	12.6	2.08
39 ℃	42.6	42.6	15.2	38.3	12.1	34.0	9.56	29.8	7.43	25.5	5.68	21.3	4.25	17.0	3.06	12.8	2.05
37 ℃	43.8	43.8	14.8	39.4	11.8	35.1	9.27	30.7	7.20	26.3	5.51	21.9	4.12	17.5	2.96	13.1	1.98
35 ℃	45.0	45.0	14.3	40.5	11.4	36.0	8.97	31.5	6.98	27.0	5.34	22.5	3.99	18.0	2.87	13.5	1.92
33 ℃	45.0	45.0	13.1	40.5	10.5	36.0	8.29	31.5	6.47	27.0	4.96	22.5	3.72	18.0	2.68	13.5	1.80
31 ℃	45.0	45.0	12.1	40.5	9.69	36.0	7.68	31.5	6.01	27.0	4.63	22.5	3.48	18.0	2.51	13.5	1.68
30 ℃	45.0	45.0	11.6	40.5	9.33	36.0	7.40	31.5	5.80	27.0	4.47	22.5	3.37	18.0	2.44	13.5	1.63
29 ℃	45.0	45.0	11.2	40.5	8.99	36.0	7.14	31.5	5.60	27.0	4.32	22.5	3.26	18.0	2.36	13.5	1.58
27 ℃	45.0	45.0	10.4	40.5	8.36	36.0	6.65	31.5	5.23	27.0	4.05	22.5	3.06	18.0	2.22	13.5	1.49
25 ℃	45.0	45.0	9.65	40.5	7.78	36.0	6.21	31.5	4.89	27.0	3.79	22.5	2.87	18.0	2.08	13.5	1.40
23 ℃	45.0	45.0	9.19	40.5	7.42	36.0	5.93	31.5	4.68	27.0	3.63	22.5	2.75	18.0	2.00	13.5	1.34
21 ℃	45.0	45.0	8.96	40.5	7.25	36.0	5.80	31.5	4.59	27.0	3.57	22.5	2.71	18.0	1.97	13.5	1.32
20 ℃	45.0	45.0	8.86	40.5	7.17	36.0	5.75	31.5	4.54	27.0	3.54	22.5	2.68	18.0	1.95	13.5	1.31
19 ℃	45.0	45.0	8.77	40.5	7.10	36.0	5.69	31.5	4.51	27.0	3.51	22.5	2.66	18.0	1.94	13.5	1.30
17 ℃	45.0	45.0	8.61	40.5	6.98	36.0	5.60	31.5	4.44	27.0	3.46	22.5	2.63	18.0	1.92	13.5	1.28
15 ℃	45.0	45.0	8.47	40.5	6.87	36.0	5.52	31.5	4.38	27.0	3.42	22.5	2.60	18.0	1.89	13.5	1.27

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit Dry-Bulb (℃)	Outdoor Unit Wet-Bulb (℃)	Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
			100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	50.0	50.0	10.6	45.0	8.83	40.0	7.32	35.0	6.03	30.0	4.95	25.0	4.03	20.0	3.26	15.0	2.61
13.0	11.8	50.0	50.0	11.1	45.0	9.21	40.0	7.60	35.0	6.24	30.0	5.09	25.0	4.13	20.0	3.33	15.0	2.65
11.0	9.8	50.0	50.0	11.7	45.0	9.64	40.0	7.93	35.0	6.48	30.0	5.26	25.0	4.25	20.0	3.41	15.0	2.70
9.0	7.9	50.0	50.0	12.2	45.0	10.1	40.0	8.27	35.0	6.73	30.0	5.44	25.0	4.37	20.0	3.48	15.0	2.75
7.0	6.0	50.0	50.0	12.9	45.0	10.6	40.0	8.64	35.0	7.00	30.0	5.63	25.0	4.50	20.0	3.57	15.0	2.80
5.0	4.1	48.2	48.2	12.8	43.4	10.5	38.6	8.58	33.7	6.95	28.9	5.59	24.1	4.47	19.3	3.54	14.5	2.78
3.0	2.2	46.4	46.4	12.7	41.8	10.4	37.1	8.51	32.5	6.89	27.9	5.55	23.2	4.43	18.6	3.51	13.9	2.76
0.0	-0.7	43.7	43.7	12.6	39.3	10.3	34.9	8.41	30.6	6.81	26.2	5.48	21.8	4.38	17.5	3.47	13.1	2.72
-3.0	-3.7	40.9	40.9	12.4	36.8	10.2	32.7	8.31	28.6	6.73	24.5	5.41	20.4	4.33	16.3	3.43	12.3	2.69
-5.0	-5.6	39.1	39.1	12.3	35.2	10.1	31.3	8.24	27.3	6.67	23.4	5.37	19.5	4.29	15.6	3.40	11.7	2.67
-7.0	-7.6	37.2	37.2	12.2	33.5	10.0	29.7	8.17	26.0	6.62	22.3	5.32	18.6	4.25	14.9	3.37	11.2	2.65
-10	-10.5	34.5	34.5	12.0	31.0	9.90	27.6	8.07	24.1	6.54	20.7	5.26	17.2	4.20	13.8	3.33	10.3	2.61
-14.5	-15.0	30.2	30.2	11.8	27.2	9.71	24.2	7.92	21.1	6.41	18.1	5.16	15.1	4.12	12.1	3.27	9.06	2.56

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-MAP1806HT8P-E (18HP, 50.4kW system)

Cooling

Outdoor Unit Dry-Bulb (℃)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	46.9	46.9	15.8	42.2	12.8	37.5	10.26	32.8	8.17	28.1	6.42	23.5	4.95	18.8	3.69	14.1	2.54
39 ℃	47.7	47.7	15.5	42.9	12.6	38.1	10.11	33.4	8.05	28.6	6.33	23.8	4.88	19.1	3.63	14.3	2.51
37 ℃	49.1	49.1	15.1	44.2	12.2	39.3	9.80	34.4	7.80	29.4	6.14	24.5	4.73	19.6	3.52	14.7	2.43
35 ℃	50.4	50.4	14.6	45.4	11.8	40.3	9.49	35.3	7.56	30.2	5.94	25.2	4.58	20.2	3.41	15.1	2.35
33 ℃	50.4	50.4	13.4	45.4	10.9	40.3	8.80	35.3	7.03	30.2	5.55	25.2	4.29	20.2	3.20	15.1	2.21
31 ℃	50.4	50.4	12.4	45.4	10.1	40.3	8.19	35.3	6.56	30.2	5.19	25.2	4.03	20.2	3.00	15.1	2.07
30 ℃	50.4	50.4	12.0	45.4	9.76	40.3	7.91	35.3	6.35	30.2	5.03	25.2	3.90	20.2	2.91	15.1	2.01
29 ℃	50.4	50.4	11.5	45.4	9.42	40.3	7.64	35.3	6.14	30.2	4.87	25.2	3.78	20.2	2.83	15.1	1.95
27 ℃	50.4	50.4	10.7	45.4	8.78	40.3	7.14	35.3	5.75	30.2	4.57	25.2	3.56	20.2	2.66	15.1	1.83
25 ℃	50.4	50.4	10.0	45.4	8.20	40.3	6.68	35.3	5.39	30.2	4.30	25.2	3.35	20.2	2.50	15.1	1.72
23 ℃	50.4	50.4	9.53	45.4	7.84	40.3	6.39	35.3	5.17	30.2	4.13	25.2	3.22	20.2	2.41	15.1	1.66
21 ℃	50.4	50.4	9.32	45.4	7.67	40.3	6.27	35.3	5.08	30.2	4.06	25.2	3.17	20.2	2.37	15.1	1.63
20 ℃	50.4	50.4	9.22	45.4	7.60	40.3	6.22	35.3	5.04	30.2	4.03	25.2	3.15	20.2	2.36	15.1	1.62
19 ℃	50.4	50.4	9.13	45.4	7.53	40.3	6.16	35.3	5.00	30.2	4.00	25.2	3.12	20.2	2.34	15.1	1.61
17 ℃	50.4	50.4	8.98	45.4	7.41	40.3	6.07	35.3	4.93	30.2	3.95	25.2	3.09	20.2	2.31	15.1	1.59
15 ℃	50.4	50.4	8.84	45.4	7.31	40.3	6.00	35.3	4.87	30.2	3.90	25.2	3.06	20.2	2.29	15.1	1.57

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	56.0	56.0	11.7	50.4	9.90	44.8	8.31	39.2	6.92	33.6	5.69	28.0	4.60	22.4	3.60	16.8	2.65
13.0	11.8	56.0	56.0	12.2	50.4	10.3	44.8	8.61	39.2	7.14	33.6	5.86	28.0	4.73	22.4	3.69	16.8	2.72
11.0	9.8	56.0	56.0	12.8	50.4	10.7	44.8	8.95	39.2	7.40	33.6	6.06	28.0	4.87	22.4	3.80	16.8	2.80
9.0	7.9	56.0	56.0	13.4	50.4	11.2	44.8	9.30	39.2	7.67	33.6	6.25	28.0	5.02	22.4	3.90	16.8	2.87
7.0	6.0	56.0	56.0	14.1	50.4	11.7	44.8	9.69	39.2	7.96	33.6	6.47	28.0	5.17	22.4	4.02	16.8	2.95
5.0	4.1	54.2	54.2	14.0	48.8	11.7	43.4	9.64	37.9	7.91	32.5	6.43	27.1	5.14	21.7	3.99	16.3	2.93
3.0	2.2	52.4	52.4	13.9	47.2	11.6	41.9	9.58	36.7	7.87	31.4	6.39	26.2	5.11	21.0	3.97	15.7	2.92
0.0	-0.7	49.6	49.6	13.8	44.7	11.5	39.7	9.50	34.8	7.80	29.8	6.34	24.8	5.07	19.9	3.93	14.9	2.89
-3.0	-3.7	46.8	46.8	13.7	42.1	11.4	37.4	9.41	32.8	7.73	28.1	6.28	23.4	5.02	18.7	3.90	14.0	2.86
-5.0	-5.6	45.0	45.0	13.6	40.5	11.3	36.0	9.35	31.5	7.68	27.0	6.24	22.5	4.99	18.0	3.88	13.5	2.85
-7.0	-7.6	43.1	43.1	13.5	38.8	11.2	34.5	9.30	30.2	7.63	25.9	6.20	21.6	4.96	17.2	3.85	12.9	2.83
-10	-10.5	40.4	40.4	13.4	36.3	11.1	32.3	9.21	28.3	7.56	24.2	6.15	20.2	4.92	16.1	3.82	12.1	2.80
-14.5	-15.0	36.1	36.1	13.2	32.5	11.0	28.9	9.08	25.3	7.46	21.7	6.06	18.0	4.85	14.4	3.76	10.8	2.76

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-MAP2006HT8P-E (20HP, 56.0kW system)

Cooling

Outdoor Unit Dry-Bulb (℃)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	52.1	52.1	18.7	46.9	15.1	41.7	12.0	36.5	9.49	31.3	7.39	26.1	5.63	20.8	4.13	15.6	2.80
39 ℃	53.0	53.0	18.4	47.7	14.8	42.4	11.8	37.1	9.35	31.8	7.28	26.5	5.54	21.2	4.07	15.9	2.76
37 ℃	54.5	54.5	17.9	49.1	14.4	43.6	11.5	38.2	9.06	32.7	7.06	27.3	5.38	21.8	3.94	16.4	2.68
35 ℃	56.0	56.0	17.3	50.4	13.9	44.8	11.1	39.2	8.78	33.6	6.83	28.0	5.21	22.4	3.82	16.8	2.59
33 ℃	56.0	56.0	15.9	50.4	12.9	44.8	10.3	39.2	8.16	33.6	6.37	28.0	4.87	22.4	3.58	16.8	2.43
31 ℃	56.0	56.0	14.7	50.4	11.9	44.8	9.56	39.2	7.60	33.6	5.95	28.0	4.56	22.4	3.36	16.8	2.28
30 ℃	56.0	56.0	14.1	50.4	11.5	44.8	9.23	39.2	7.34	33.6	5.76	28.0	4.42	22.4	3.25	16.8	2.20
29 ℃	56.0	56.0	13.6	50.4	11.1	44.8	8.91	39.2	7.10	33.6	5.57	28.0	4.28	22.4	3.15	16.8	2.14
27 ℃	56.0	56.0	12.7	50.4	10.3	44.8	8.32	39.2	6.64	33.6	5.23	28.0	4.02	22.4	2.96	16.8	2.01
25 ℃	56.0	56.0	11.8	50.4	9.62	44.8	7.78	39.2	6.22	33.6	4.91	28.0	3.78	22.4	2.79	16.8	1.89
23 ℃	56.0	56.0	11.2	50.4	9.18	44.8	7.44	39.2	5.96	33.6	4.71	28.0	3.63	22.4	2.68	16.8	1.81
21 ℃	56.0	56.0	11.0	50.4	8.98	44.8	7.29	39.2	5.85	33.6	4.63	28.0	3.57	22.4	2.64	16.8	1.78
20 ℃	56.0	56.0	10.9	50.4	8.89	44.8	7.22	39.2	5.80	33.6	4.59	28.0	3.54	22.4	2.62	16.8	1.77
19 ℃	56.0	56.0	10.8	50.4	8.81	44.8	7.16	39.2	5.76	33.6	4.56	28.0	3.52	22.4	2.60	16.8	1.76
17 ℃	56.0	56.0	10.6	50.4	8.67	44.8	7.05	39.2	5.67	33.6	4.50	28.0	3.48	22.4	2.57	16.8	1.74
15 ℃	56.0	56.0	10.4	50.4	8.54	44.8	6.96	39.2	5.60	33.6	4.44	28.0	3.44	22.4	2.54	16.8	1.72

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
			100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	63.0	63.0	14.2	56.7	12.0	50.4	10.1	44.1	8.39	37.8	6.89	31.5	5.52	25.2	4.25	18.9	3.02
13.0	11.8	63.0	63.0	14.8	56.7	12.5	50.4	10.4	44.1	8.66	37.8	7.10	31.5	5.68	25.2	4.37	18.9	3.11
11.0	9.8	63.0	63.0	15.5	56.7	13.0	50.4	10.8	44.1	8.97	37.8	7.33	31.5	5.86	25.2	4.51	18.9	3.21
9.0	7.9	63.0	63.0	16.2	56.7	13.5	50.4	11.3	44.1	9.30	37.8	7.58	31.5	6.05	25.2	4.64	18.9	3.30
7.0	6.0	63.0	63.0	17.0	56.7	14.2	50.4	11.7	44.1	9.65	37.8	7.84	31.5	6.24	25.2	4.79	18.9	3.41
5.0	4.1	60.7	60.7	16.9	54.7	14.1	48.6	11.6	42.5	9.58	36.4	7.78	30.4	6.19	24.3	4.75	18.2	3.38
3.0	2.2	58.5	58.5	16.7	52.6	13.9	46.8	11.6	40.9	9.50	35.1	7.72	29.2	6.15	23.4	4.71	17.5	3.36
0.0	-0.7	55.0	55.0	16.5	49.5	13.8	44.0	11.4	38.5	9.39	33.0	7.63	27.5	6.07	22.0	4.66	16.5	3.32
-3.0	-3.7	51.5	51.5	16.3	46.3	13.6	41.2	11.3	36.0	9.27	30.9	7.54	25.7	6.00	20.6	4.60	15.4	3.28
-5.0	-5.6	49.2	49.2	16.2	44.3	13.5	39.4	11.2	34.5	9.20	29.5	7.48	24.6	5.95	19.7	4.56	14.8	3.25
-7.0	-7.6	46.9	46.9	16.1	42.2	13.4	37.5	11.1	32.8	9.12	28.1	7.41	23.4	5.90	18.7	4.53	14.1	3.23
-10	-10.5	43.4	43.4	15.9	39.1	13.2	34.7	11.0	30.4	9.01	26.0	7.32	21.7	5.83	17.4	4.47	13.0	3.19
-14.5	-15.0	38.1	38.1	15.6	34.3	13.0	30.5	10.7	26.6	8.84	22.8	7.18	19.0	5.72	15.2	4.38	11.4	3.12

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-MAP2206HT8P-E (22HP, 61.5kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	57.2	57.2	25.1	51.5	19.7	45.8	15.2	40.1	11.6	34.3	8.59	28.6	6.22	22.9	4.36	17.2	2.91
39 ℃	58.2	58.2	24.7	52.3	19.4	46.5	15.0	40.7	11.4	34.9	8.46	29.1	6.13	23.3	4.30	17.4	2.87
37 ℃	59.9	59.9	23.9	53.9	18.8	47.9	14.6	41.9	11.0	35.9	8.20	29.9	5.94	24.0	4.17	18.0	2.78
35 ℃	61.5	61.5	23.2	55.3	18.2	49.2	14.1	43.0	10.7	36.9	7.95	30.7	5.75	24.6	4.03	18.4	2.69
33 ℃	61.5	61.5	21.2	55.4	16.7	49.2	13.0	43.1	9.87	36.9	7.36	30.8	5.35	24.6	3.76	18.5	2.52
31 ℃	61.5	61.5	19.5	55.4	15.4	49.2	12.0	43.1	9.14	36.9	6.83	30.8	4.99	24.6	3.52	18.5	2.37
30 ℃	61.5	61.5	18.7	55.4	14.8	49.2	11.5	43.1	8.80	36.9	6.59	30.8	4.82	24.6	3.41	18.5	2.30
29 ℃	61.5	61.5	18.0	55.4	14.2	49.2	11.1	43.1	8.48	36.9	6.36	30.8	4.66	24.6	3.30	18.5	2.23
27 ℃	61.5	61.5	16.7	55.4	13.2	49.2	10.3	43.1	7.90	36.9	5.94	30.8	4.36	24.6	3.10	18.5	2.10
25 ℃	61.5	61.5	15.5	55.4	12.3	49.2	9.59	43.1	7.36	36.9	5.55	30.8	4.08	24.6	2.91	18.5	1.97
23 ℃	61.5	61.5	14.7	55.4	11.7	49.2	9.13	43.1	7.03	36.9	5.31	30.8	3.91	24.6	2.79	18.5	1.90
21 ℃	61.5	61.5	14.3	55.4	11.4	49.2	8.92	43.1	6.87	36.9	5.20	30.8	3.84	24.6	2.75	18.5	1.87
20 ℃	61.5	61.5	14.1	55.4	11.2	49.2	8.82	43.1	6.80	36.9	5.15	30.8	3.81	24.6	2.73	18.5	1.86
19 ℃	61.5	61.5	14.0	55.4	11.1	49.2	8.73	43.1	6.74	36.9	5.10	30.8	3.78	24.6	2.71	18.5	1.85
17 ℃	61.5	61.5	13.7	55.4	10.9	49.2	8.57	43.1	6.62	36.9	5.02	30.8	3.72	24.6	2.67	18.5	1.83
15 ℃	61.5	61.5	13.5	55.4	10.7	49.2	8.44	43.1	6.53	36.9	4.96	30.8	3.68	24.6	2.64	18.5	1.81

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	64.0	64.0	14.2	57.6	12.0	51.2	10.1	44.8	8.42	38.4	6.95	32.0	5.61	25.6	4.33	19.2	3.07
13.0	11.8	64.0	64.0	14.8	57.6	12.5	51.2	10.4	44.8	8.69	38.4	7.15	32.0	5.77	25.6	4.46	19.2	3.16
11.0	9.8	64.0	64.0	15.5	57.6	13.0	51.2	10.8	44.8	9.00	38.4	7.39	32.0	5.94	25.6	4.59	19.2	3.27
9.0	7.9	64.0	64.0	16.3	57.6	13.6	51.2	11.3	44.8	9.31	38.4	7.62	32.0	6.12	25.6	4.73	19.2	3.37
7.0	6.0	64.0	64.0	17.1	57.6	14.2	51.2	11.7	44.8	9.66	38.4	7.88	32.0	6.31	25.6	4.87	19.2	3.48
5.0	4.1	61.7	61.7	17.0	55.5	14.1	49.4	11.6	43.2	9.59	37.0	7.82	30.9	6.27	24.7	4.84	18.5	3.45
3.0	2.2	59.4	59.4	16.8	53.5	14.0	47.5	11.6	41.6	9.51	35.6	7.76	29.7	6.22	23.8	4.80	17.8	3.43
0.0	-0.7	55.9	55.9	16.6	50.3	13.8	44.7	11.4	39.1	9.40	33.6	7.67	28.0	6.14	22.4	4.74	16.8	3.38
-3.0	-3.7	52.3	52.3	16.4	47.1	13.6	41.8	11.3	36.6	9.28	31.4	7.57	26.1	6.07	20.9	4.68	15.7	3.34
-5.0	-5.6	50.0	50.0	16.3	45.0	13.5	40.0	11.2	35.0	9.21	30.0	7.51	25.0	6.02	20.0	4.65	15.0	3.32
-7.0	-7.6	47.6	47.6	16.2	42.8	13.4	38.1	11.1	33.3	9.13	28.6	7.45	23.8	5.97	19.0	4.61	14.3	3.29
-10	-10.5	44.1	44.1	16.0	39.7	13.2	35.3	11.0	30.9	9.02	26.5	7.36	22.0	5.90	17.6	4.55	13.2	3.25
-14.5	-15.0	38.7	38.7	15.7	34.8	13.0	30.9	10.7	27.1	8.85	23.2	7.22	19.3	5.78	15.5	4.46	11.6	3.19

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP2416HT8P-E (24HP, 67kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	62.4	62.4	21.6	56.1	17.3	49.9	13.7	43.6	10.7	37.4	8.22	31.2	6.17	24.9	4.49	18.7	3.07
39 ℃	63.4	63.4	21.3	57.0	17.1	50.7	13.5	44.3	10.5	38.0	8.09	31.7	6.08	25.3	4.42	19.0	3.03
37 ℃	65.2	65.2	20.6	58.7	16.5	52.2	13.1	45.7	10.2	39.1	7.85	32.6	5.90	26.1	4.29	19.6	2.94
35 ℃	67.0	67.0	20.0	60.3	16.0	53.6	12.7	46.9	9.90	40.2	7.60	33.5	5.71	26.8	4.15	20.1	2.84
33 ℃	67.0	67.0	18.4	60.3	14.8	53.6	11.7	46.9	9.18	40.2	7.07	33.5	5.33	26.8	3.89	20.1	2.67
31 ℃	67.0	67.0	17.0	60.3	13.7	53.6	10.9	46.9	8.54	40.2	6.60	33.5	4.99	26.8	3.65	20.1	2.51
30 ℃	67.0	67.0	16.3	60.3	13.1	53.6	10.5	46.9	8.24	40.2	6.38	33.5	4.83	26.8	3.53	20.1	2.43
29 ℃	67.0	67.0	15.7	60.3	12.7	53.6	10.1	46.9	7.96	40.2	6.17	33.5	4.68	26.8	3.43	20.1	2.36
27 ℃	67.0	67.0	14.6	60.3	11.8	53.6	9.42	46.9	7.44	40.2	5.78	33.5	4.39	26.8	3.22	20.1	2.22
25 ℃	67.0	67.0	13.6	60.3	11.0	53.6	8.80	46.9	6.96	40.2	5.42	33.5	4.12	26.8	3.03	20.1	2.09
23 ℃	67.0	67.0	12.9	60.3	10.5	53.6	8.41	46.9	6.66	40.2	5.19	33.5	3.96	26.8	2.92	20.1	2.01
21 ℃	67.0	67.0	12.6	60.3	10.2	53.6	8.23	46.9	6.53	40.2	5.10	33.5	3.89	26.8	2.87	20.1	1.98
20 ℃	67.0	67.0	12.5	60.3	10.1	53.6	8.15	46.9	6.47	40.2	5.06	33.5	3.86	26.8	2.85	20.1	1.97
19 ℃	67.0	67.0	12.3	60.3	10.0	53.6	8.07	46.9	6.42	40.2	5.02	33.5	3.84	26.8	2.83	20.1	1.96
17 ℃	67.0	67.0	12.1	60.3	9.86	53.6	7.94	46.9	6.32	40.2	4.95	33.5	3.79	26.8	2.80	20.1	1.94
15 ℃	67.0	67.0	11.9	60.3	9.72	53.6	7.83	46.9	6.24	40.2	4.89	33.5	3.74	26.8	2.77	20.1	1.92

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	75.0	75.0	15.8	67.5	13.2	60.0	11.1	52.5	9.22	45.0	7.61	37.5	6.16	30.0	4.79	22.5	3.41
13.0	11.8	75.0	75.0	16.6	67.5	13.8	60.0	11.5	52.5	9.51	45.0	7.83	37.5	6.33	30.0	4.92	22.5	3.51
11.0	9.8	75.0	75.0	17.4	67.5	14.4	60.0	11.9	52.5	9.86	45.0	8.08	37.5	6.52	30.0	5.07	22.5	3.62
9.0	7.9	75.0	75.0	18.3	67.5	15.1	60.0	12.4	52.5	10.2	45.0	8.34	37.5	6.71	30.0	5.21	22.5	3.74
7.0	6.0	75.0	75.0	19.3	67.5	15.8	60.0	13.0	52.5	10.6	45.0	8.62	37.5	6.92	30.0	5.37	22.5	3.86
5.0	4.1	72.3	72.3	19.2	65.1	15.7	57.9	12.9	50.6	10.5	43.4	8.56	36.2	6.87	28.9	5.33	21.7	3.83
3.0	2.2	69.6	69.6	19.0	62.7	15.6	55.7	12.8	48.7	10.4	41.8	8.49	34.8	6.81	27.9	5.29	20.9	3.80
0.0	-0.7	65.5	65.5	18.8	59.0	15.4	52.4	12.6	45.9	10.3	39.3	8.39	32.8	6.73	26.2	5.22	19.7	3.75
-3.0	-3.7	61.3	61.3	18.5	55.2	15.2	49.0	12.5	42.9	10.2	36.8	8.29	30.6	6.65	24.5	5.16	18.4	3.71
-5.0	-5.6	58.6	58.6	18.4	52.7	15.1	46.9	12.4	41.0	10.1	35.2	8.22	29.3	6.60	23.4	5.12	17.6	3.68
-7.0	-7.6	55.8	55.8	18.2	50.2	15.0	44.6	12.3	39.0	10.0	33.5	8.16	27.9	6.54	22.3	5.08	16.7	3.65
-10	-10.5	51.7	51.7	18.0	46.5	14.8	41.3	12.1	36.2	9.90	31.0	8.06	25.8	6.46	20.7	5.01	15.5	3.60
-14.5	-15.0	45.3	45.3	17.7	40.8	14.5	36.3	11.9	31.7	9.71	27.2	7.90	22.7	6.34	18.1	4.92	13.6	3.53

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP2616HT8P-E (26HP, 73.5kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	68.4	68.4	24.1	61.6	19.1	54.7	15.1	47.9	11.7	41.0	9.06	34.2	6.88	27.4	5.06	20.5	3.49
39 ℃	69.5	69.5	23.7	62.6	18.8	55.6	14.8	48.7	11.6	41.7	8.93	34.8	6.78	27.8	4.99	20.9	3.44
37 ℃	71.6	71.6	23.0	64.4	18.3	57.3	14.4	50.1	11.2	42.9	8.66	35.8	6.57	28.6	4.84	21.5	3.33
35 ℃	73.5	73.5	22.3	66.1	17.7	58.8	13.9	51.4	10.9	44.1	8.38	36.7	6.36	29.4	4.69	22.0	3.23
33 ℃	73.5	73.5	20.4	66.2	16.3	58.8	12.9	51.5	10.1	44.1	7.81	36.8	5.95	29.4	4.39	22.1	3.03
31 ℃	73.5	73.5	18.8	66.2	15.0	58.8	11.9	51.5	9.38	44.1	7.29	36.8	5.57	29.4	4.12	22.1	2.84
30 ℃	73.5	73.5	18.1	66.2	14.5	58.8	11.5	51.5	9.06	44.1	7.05	36.8	5.40	29.4	4.00	22.1	2.76
29 ℃	73.5	73.5	17.4	66.2	13.9	58.8	11.1	51.5	8.75	44.1	6.83	36.8	5.23	29.4	3.88	22.1	2.67
27 ℃	73.5	73.5	16.1	66.2	13.0	58.8	10.3	51.5	8.18	44.1	6.40	36.8	4.91	29.4	3.65	22.1	2.52
25 ℃	73.5	73.5	15.0	66.2	12.1	58.8	9.66	51.5	7.66	44.1	6.00	36.8	4.62	29.4	3.43	22.1	2.37
23 ℃	73.5	73.5	14.3	66.2	11.5	58.8	9.23	51.5	7.33	44.1	5.76	36.8	4.44	29.4	3.30	22.1	2.28
21 ℃	73.5	73.5	13.9	66.2	11.3	58.8	9.03	51.5	7.19	44.1	5.66	36.8	4.37	29.4	3.25	22.1	2.24
20 ℃	73.5	73.5	13.8	66.2	11.1	58.8	8.95	51.5	7.13	44.1	5.61	36.8	4.34	29.4	3.23	22.1	2.23
19 ℃	73.5	73.5	13.6	66.2	11.0	58.8	8.87	51.5	7.07	44.1	5.57	36.8	4.31	29.4	3.21	22.1	2.21
17 ℃	73.5	73.5	13.4	66.2	10.8	58.8	8.72	51.5	6.97	44.1	5.50	36.8	4.25	29.4	3.17	22.1	2.18
15 ℃	73.5	73.5	13.1	66.2	10.7	58.8	8.60	51.5	6.88	44.1	5.43	36.8	4.21	29.4	3.14	22.1	2.16

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	82.5	82.5	17.0	74.3	14.1	66.0	11.7	57.8	9.74	49.5	8.06	41.3	6.61	33.0	5.28	24.8	4.01
13.0	11.8	82.5	82.5	17.8	74.3	14.7	66.0	12.2	57.8	10.1	49.5	8.29	41.3	6.77	33.0	5.41	24.8	4.10
11.0	9.8	82.5	82.5	18.7	74.3	15.4	66.0	12.7	57.8	10.4	49.5	8.55	41.3	6.96	33.0	5.54	24.8	4.20
9.0	7.9	82.5	82.5	19.7	74.3	16.1	66.0	13.2	57.8	10.8	49.5	8.82	41.3	7.15	33.0	5.68	24.8	4.30
7.0	6.0	82.5	82.5	20.8	74.3	17.0	66.0	13.8	57.8	11.2	49.5	9.11	41.3	7.36	33.0	5.83	24.8	4.41
5.0	4.1	79.7	79.7	20.7	71.7	16.9	63.8	13.7	55.8	11.1	47.8	9.05	39.9	7.31	31.9	5.79	23.9	4.38
3.0	2.2	76.9	76.9	20.6	69.2	16.7	61.5	13.6	53.8	11.1	46.2	8.99	38.5	7.26	30.8	5.75	23.1	4.35
0.0	-0.7	72.7	72.7	20.4	65.4	16.6	58.1	13.5	50.9	11.0	43.6	8.90	36.3	7.18	29.1	5.69	21.8	4.31
-3.0	-3.7	68.3	68.3	20.1	61.4	16.4	54.6	13.3	47.8	10.8	41.0	8.80	34.1	7.11	27.3	5.63	20.5	4.26
-5.0	-5.6	65.5	65.5	20.0	58.9	16.3	52.4	13.2	45.8	10.8	39.3	8.74	32.7	7.06	26.2	5.59	19.6	4.23
-7.0	-7.6	62.5	62.5	19.9	56.3	16.2	50.0	13.1	43.8	10.7	37.5	8.68	31.3	7.01	25.0	5.55	18.8	4.20
-10	-10.5	58.3	58.3	19.7	52.4	16.0	46.6	13.0	40.8	10.6	35.0	8.59	29.1	6.93	23.3	5.49	17.5	4.16
-14.5	-15.0	51.7	51.7	19.3	46.5	15.7	41.3	12.8	36.2	10.4	31.0	8.45	25.8	6.82	20.7	5.40	15.5	4.09

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP2816HT8P-E (28HP, 78.5kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	73.1	73.1	26.3	65.7	21.0	58.4	16.5	51.1	12.9	43.8	9.87	36.5	7.40	29.2	5.35	21.9	3.61
39 ℃	74.2	74.2	25.9	66.8	20.7	59.4	16.3	52.0	12.7	44.5	9.73	37.1	7.29	29.7	5.27	22.3	3.56
37 ℃	76.4	76.4	25.1	68.8	20.0	61.2	15.8	53.5	12.3	45.9	9.43	38.2	7.07	30.6	5.11	22.9	3.45
35 ℃	78.5	78.5	24.3	70.6	19.4	62.8	15.3	54.9	11.9	47.1	9.14	39.2	6.84	31.4	4.95	23.5	3.34
33 ℃	78.5	78.5	22.3	70.7	17.9	62.8	14.1	55.0	11.1	47.1	8.50	39.3	6.39	31.4	4.63	23.6	3.13
31 ℃	78.5	78.5	20.6	70.7	16.5	62.8	13.1	55.0	10.3	47.1	7.92	39.3	5.97	31.4	4.34	23.6	2.94
30 ℃	78.5	78.5	19.8	70.7	15.9	62.8	12.6	55.0	9.9	47.1	7.66	39.3	5.78	31.4	4.20	23.6	2.85
29 ℃	78.5	78.5	19.0	70.7	15.3	62.8	12.2	55.0	9.58	47.1	7.41	39.3	5.60	31.4	4.07	23.6	2.76
27 ℃	78.5	78.5	17.7	70.7	14.2	62.8	11.4	55.0	8.95	47.1	6.93	39.3	5.25	31.4	3.83	23.6	2.60
25 ℃	78.5	78.5	16.4	70.7	13.3	62.8	10.6	55.0	8.37	47.1	6.50	39.3	4.93	31.4	3.60	23.6	2.44
23 ℃	78.5	78.5	15.6	70.7	12.7	62.8	10.1	55.0	8.01	47.1	6.23	39.3	4.73	31.4	3.46	23.6	2.35
21 ℃	78.5	78.5	15.3	70.7	12.4	62.8	9.9	55.0	7.85	47.1	6.11	39.3	4.65	31.4	3.40	23.6	2.31
20 ℃	78.5	78.5	15.1	70.7	12.2	62.8	9.8	55.0	7.78	47.1	6.06	39.3	4.62	31.4	3.38	23.6	2.30
19 ℃	78.5	78.5	14.9	70.7	12.1	62.8	9.7	55.0	7.71	47.1	6.02	39.3	4.58	31.4	3.36	23.6	2.28
17 ℃	78.5	78.5	14.7	70.7	11.9	62.8	9.57	55.0	7.60	47.1	5.93	39.3	4.52	31.4	3.31	23.6	2.25
15 ℃	78.5	78.5	14.4	70.7	11.7	62.8	9.44	55.0	7.50	47.1	5.86	39.3	4.47	31.4	3.28	23.6	2.23

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	87.5	87.5	18.5	78.8	15.5	70.0	12.9	61.3	10.6	52.5	8.75	43.8	7.11	35.0	5.66	26.3	4.32
13.0	11.8	87.5	87.5	19.4	78.8	16.1	70.0	13.3	61.3	11.0	52.5	9.01	43.8	7.30	35.0	5.79	26.3	4.41
11.0	9.8	87.5	87.5	20.4	78.8	16.8	70.0	13.9	61.3	11.4	52.5	9.31	43.8	7.51	35.0	5.94	26.3	4.51
9.0	7.9	87.5	87.5	21.4	78.8	17.6	70.0	14.5	61.3	11.8	52.5	9.61	43.8	7.73	35.0	6.09	26.3	4.62
7.0	6.0	87.5	87.5	22.5	78.8	18.5	70.0	15.1	61.3	12.3	52.5	9.94	43.8	7.96	35.0	6.25	26.3	4.73
5.0	4.1	84.4	84.4	22.4	75.9	18.4	67.5	15.0	59.1	12.2	50.6	9.87	42.2	7.90	33.7	6.20	25.3	4.69
3.0	2.2	81.2	81.2	22.2	73.1	18.2	65.0	14.9	56.9	12.1	48.7	9.79	40.6	7.84	32.5	6.16	24.4	4.65
0.0	-0.7	76.4	76.4	21.9	68.8	18.0	61.2	14.7	53.5	12.0	45.9	9.68	38.2	7.75	30.6	6.08	22.9	4.60
-3.0	-3.7	71.5	71.5	21.7	64.4	17.8	57.2	14.5	50.1	11.8	42.9	9.56	35.8	7.65	28.6	6.01	21.5	4.54
-5.0	-5.6	68.4	68.4	21.5	61.5	17.6	54.7	14.4	47.9	11.7	41.0	9.48	34.2	7.59	27.3	5.96	20.5	4.51
-7.0	-7.6	65.1	65.1	21.3	58.6	17.5	52.1	14.3	45.5	11.6	39.0	9.40	32.5	7.53	26.0	5.91	19.5	4.47
-10	-10.5	60.3	60.3	21.1	54.3	17.3	48.2	14.1	42.2	11.5	36.2	9.29	30.1	7.43	24.1	5.84	18.1	4.41
-14.5	-15.0	52.9	52.9	20.7	47.6	17.0	42.3	13.9	37.0	11.3	31.7	9.11	26.4	7.29	21.1	5.73	15.9	4.33

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP3016HT8P-E (30HP, 85kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	79.1	79.1	28.7	71.2	22.8	63.3	17.9	55.4	13.9	47.5	10.7	39.6	8.10	31.6	5.92	23.7	4.03
39 ℃	80.4	80.4	28.3	72.3	22.5	64.3	17.6	56.3	13.7	48.2	10.6	40.2	7.98	32.2	5.84	24.1	3.97
37 ℃	82.8	82.8	27.5	74.5	21.8	66.2	17.1	57.9	13.3	49.7	10.2	41.4	7.74	33.1	5.66	24.8	3.85
35 ℃	85.0	85.0	26.6	76.5	21.1	68.0	16.6	59.5	12.9	51.0	9.9	42.5	7.50	34.0	5.48	25.5	3.73
33 ℃	85.0	85.0	24.4	76.5	19.4	68.0	15.3	59.5	12.0	51.0	9.23	42.5	7.00	34.0	5.13	25.5	3.49
31 ℃	85.0	85.0	22.4	76.5	17.9	68.0	14.2	59.5	11.1	51.0	8.62	42.5	6.56	34.0	4.82	25.5	3.27
30 ℃	85.0	85.0	21.6	76.5	17.2	68.0	13.7	59.5	10.7	51.0	8.34	42.5	6.35	34.0	4.67	25.5	3.17
29 ℃	85.0	85.0	20.7	76.5	16.6	68.0	13.2	59.5	10.4	51.0	8.06	42.5	6.15	34.0	4.52	25.5	3.07
27 ℃	85.0	85.0	19.2	76.5	15.4	68.0	12.3	59.5	9.69	51.0	7.56	42.5	5.78	34.0	4.25	25.5	2.89
25 ℃	85.0	85.0	17.9	76.5	14.4	68.0	11.5	59.5	9.07	51.0	7.09	42.5	5.43	34.0	4.00	25.5	2.72
23 ℃	85.0	85.0	17.0	76.5	13.7	68.0	11.0	59.5	8.68	51.0	6.80	42.5	5.21	34.0	3.85	25.5	2.61
21 ℃	85.0	85.0	16.6	76.5	13.4	68.0	10.7	59.5	8.51	51.0	6.68	42.5	5.13	34.0	3.79	25.5	2.57
20 ℃	85.0	85.0	16.4	76.5	13.2	68.0	10.6	59.5	8.44	51.0	6.62	42.5	5.09	34.0	3.76	25.5	2.55
19 ℃	85.0	85.0	16.2	76.5	13.1	68.0	10.5	59.5	8.37	51.0	6.57	42.5	5.05	34.0	3.73	25.5	2.53
17 ℃	85.0	85.0	15.9	76.5	12.9	68.0	10.4	59.5	8.24	51.0	6.48	42.5	4.99	34.0	3.69	25.5	2.50
15 ℃	85.0	85.0	15.7	76.5	12.7	68.0	10.2	59.5	8.14	51.0	6.41	42.5	4.94	34.0	3.65	25.5	2.47

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	95.0	95.0	19.7	85.5	16.3	76.0	13.5	66.5	11.2	57.0	9.20	47.5	7.56	38.0	6.15	28.5	4.92
13.0	11.8	95.0	95.0	20.6	85.5	17.0	76.0	14.0	66.5	11.5	57.0	9.47	47.5	7.74	38.0	6.28	28.5	5.00
11.0	9.8	95.0	95.0	21.7	85.5	17.8	76.0	14.6	66.5	12.0	57.0	9.77	47.5	7.95	38.0	6.42	28.5	5.09
9.0	7.9	95.0	95.0	22.8	85.5	18.7	76.0	15.3	66.5	12.4	57.0	10.1	47.5	8.16	38.0	6.56	28.5	5.18
7.0	6.0	95.0	95.0	24.1	85.5	19.7	76.0	16.0	66.5	12.9	57.0	10.4	47.5	8.40	38.0	6.71	28.5	5.28
5.0	4.1	91.8	91.8	23.9	82.6	19.5	73.4	15.9	64.2	12.8	55.1	10.4	45.9	8.34	36.7	6.67	27.5	5.24
3.0	2.2	88.5	88.5	23.8	79.7	19.4	70.8	15.7	62.0	12.7	53.1	10.3	44.3	8.28	35.4	6.62	26.6	5.21
0.0	-0.7	83.6	83.6	23.5	75.2	19.2	66.9	15.6	58.5	12.6	50.1	10.2	41.8	8.20	33.4	6.55	25.1	5.15
-3.0	-3.7	78.5	78.5	23.3	70.6	19.0	62.8	15.4	54.9	12.5	47.1	10.1	39.2	8.11	31.4	6.48	23.5	5.10
-5.0	-5.6	75.2	75.2	23.1	67.7	18.8	60.2	15.3	52.7	12.4	45.1	10.0	37.6	8.05	30.1	6.44	22.6	5.06
-7.0	-7.6	71.8	71.8	22.9	64.6	18.7	57.5	15.2	50.3	12.3	43.1	9.93	35.9	7.99	28.7	6.39	21.5	5.03
-10	-10.5	66.9	66.9	22.7	60.2	18.5	53.5	15.0	46.8	12.2	40.1	9.82	33.4	7.91	26.8	6.32	20.1	4.97
-14.5	-15.0	59.2	59.2	22.3	53.3	18.2	47.4	14.8	41.5	12.0	35.5	9.65	29.6	7.77	23.7	6.21	17.8	4.89

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP3216HT8P-E (32HP, 90kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	83.8	83.8	30.9	75.4	24.6	67.0	19.4	58.6	15.1	50.3	11.5	41.9	8.62	33.5	6.21	25.1	4.15
39 ℃	85.1	85.1	30.4	76.6	24.3	68.1	19.1	59.6	14.9	51.1	11.4	42.6	8.49	34.0	6.11	25.5	4.09
37 ℃	87.6	87.6	29.5	78.9	23.5	70.1	18.5	61.4	14.4	52.6	11.0	43.8	8.24	35.1	5.93	26.3	3.97
35 ℃	90.0	90.0	28.6	81.0	22.8	72.0	17.9	63.0	14.0	54.0	10.7	45.0	7.98	36.0	5.74	27.0	3.84
33 ℃	90.0	90.0	26.2	81.0	21.0	72.0	16.6	63.0	12.9	54.0	9.92	45.0	7.44	36.0	5.37	27.0	3.60
31 ℃	90.0	90.0	24.2	81.0	19.4	72.0	15.4	63.0	12.0	54.0	9.25	45.0	6.96	36.0	5.03	27.0	3.37
30 ℃	90.0	90.0	23.3	81.0	18.7	72.0	14.8	63.0	11.6	54.0	8.94	45.0	6.73	36.0	4.87	27.0	3.26
29 ℃	90.0	90.0	22.4	81.0	18.0	72.0	14.3	63.0	11.2	54.0	8.64	45.0	6.52	36.0	4.72	27.0	3.16
27 ℃	90.0	90.0	20.8	81.0	16.7	72.0	13.3	63.0	10.5	54.0	8.09	45.0	6.11	36.0	4.43	27.0	2.97
25 ℃	90.0	90.0	19.3	81.0	15.6	72.0	12.4	63.0	9.78	54.0	7.58	45.0	5.74	36.0	4.17	27.0	2.79
23 ℃	90.0	90.0	18.4	81.0	14.8	72.0	11.9	63.0	9.36	54.0	7.27	45.0	5.51	36.0	4.00	27.0	2.68
21 ℃	90.0	90.0	17.9	81.0	14.5	72.0	11.6	63.0	9.17	54.0	7.13	45.0	5.41	36.0	3.94	27.0	2.64
20 ℃	90.0	90.0	17.7	81.0	14.3	72.0	11.5	63.0	9.09	54.0	7.07	45.0	5.37	36.0	3.91	27.0	2.62
19 ℃	90.0	90.0	17.5	81.0	14.2	72.0	11.4	63.0	9.01	54.0	7.02	45.0	5.33	36.0	3.88	27.0	2.60
17 ℃	90.0	90.0	17.2	81.0	14.0	72.0	11.2	63.0	8.87	54.0	6.92	45.0	5.26	36.0	3.83	27.0	2.57
15 ℃	90.0	90.0	16.9	81.0	13.7	72.0	11.0	63.0	8.76	54.0	6.83	45.0	5.20	36.0	3.79	27.0	2.54

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	100.0	100.0	21.2	90.0	17.7	80.0	14.6	70.0	12.1	60.0	9.89	50.0	8.07	40.0	6.53	30.0	5.23
13.0	11.8	100.0	100.0	22.2	90.0	18.4	80.0	15.2	70.0	12.5	60.0	10.2	50.0	8.27	40.0	6.66	30.0	5.31
11.0	9.8	100.0	100.0	23.3	90.0	19.3	80.0	15.9	70.0	13.0	60.0	10.5	50.0	8.50	40.0	6.81	30.0	5.40
9.0	7.9	100.0	100.0	24.5	90.0	20.2	80.0	16.5	70.0	13.5	60.0	10.9	50.0	8.74	40.0	6.97	30.0	5.50
7.0	6.0	100.0	100.0	25.8	90.0	21.2	80.0	17.3	70.0	14.0	60.0	11.3	50.0	9.00	40.0	7.14	30.0	5.60
5.0	4.1	96.4	96.4	25.6	86.8	21.0	77.1	17.2	67.5	13.9	57.9	11.2	48.2	8.93	38.6	7.08	28.9	5.56
3.0	2.2	92.8	92.8	25.4	83.6	20.9	74.3	17.0	65.0	13.8	55.7	11.1	46.4	8.86	37.1	7.03	27.9	5.51
0.0	-0.7	87.4	87.4	25.1	78.6	20.6	69.9	16.8	61.2	13.6	52.4	11.0	43.7	8.76	34.9	6.94	26.2	5.45
-3.0	-3.7	81.7	81.7	24.8	73.5	20.4	65.4	16.6	57.2	13.5	49.0	10.8	40.9	8.65	32.7	6.86	24.5	5.38
-5.0	-5.6	78.1	78.1	24.6	70.3	20.2	62.5	16.5	54.7	13.3	46.9	10.7	39.1	8.58	31.3	6.80	23.4	5.34
-7.0	-7.6	74.4	74.4	24.4	66.9	20.0	59.5	16.3	52.1	13.2	44.6	10.6	37.2	8.51	29.7	6.75	22.3	5.29
-10	-10.5	68.9	68.9	24.1	62.0	19.8	55.1	16.1	48.2	13.1	41.3	10.5	34.5	8.41	27.6	6.67	20.7	5.23
-14.5	-15.0	60.4	60.4	23.6	54.4	19.4	48.3	15.8	42.3	12.8	36.3	10.3	30.2	8.24	24.2	6.54	18.1	5.13

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP3416HT8P-E (34HP, 95.4kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	88.8	88.8	31.2	79.9	25.1	71.0	20.0	62.1	15.7	53.3	12.2	44.4	9.27	35.5	6.79	26.6	4.62
39 ℃	90.2	90.2	30.8	81.2	24.7	72.2	19.7	63.1	15.5	54.1	12.0	45.1	9.13	36.1	6.69	27.1	4.55
37 ℃	92.9	92.9	29.8	83.6	24.0	74.3	19.1	65.0	15.0	55.7	11.6	46.5	8.85	37.2	6.49	27.9	4.41
35 ℃	95.4	95.4	28.9	85.8	23.2	76.3	18.5	66.8	14.5	57.2	11.3	47.7	8.57	38.2	6.28	28.6	4.27
33 ℃	95.4	95.4	26.6	85.9	21.4	76.3	17.1	66.8	13.5	57.2	10.5	47.7	8.01	38.2	5.88	28.6	4.00
31 ℃	95.4	95.4	24.5	85.9	19.8	76.3	15.9	66.8	12.6	57.2	9.82	47.7	7.50	38.2	5.52	28.6	3.76
30 ℃	95.4	95.4	23.6	85.9	19.1	76.3	15.3	66.8	12.1	57.2	9.50	47.7	7.27	38.2	5.35	28.6	3.64
29 ℃	95.4	95.4	22.7	85.9	18.4	76.3	14.8	66.8	11.7	57.2	9.19	47.7	7.04	38.2	5.18	28.6	3.53
27 ℃	95.4	95.4	21.1	85.9	17.1	76.3	13.8	66.8	11.0	57.2	8.62	47.7	6.61	38.2	4.88	28.6	3.32
25 ℃	95.4	95.4	19.6	85.9	16.0	76.3	12.9	66.8	10.3	57.2	8.09	47.7	6.21	38.2	4.59	28.6	3.12
23 ℃	95.4	95.4	18.7	85.9	15.3	76.3	12.3	66.8	9.85	57.2	7.76	47.7	5.97	38.2	4.41	28.6	3.00
21 ℃	95.4	95.4	18.3	85.9	14.9	76.3	12.1	66.8	9.67	57.2	7.62	47.7	5.87	38.2	4.34	28.6	2.95
20 ℃	95.4	95.4	18.1	85.9	14.8	76.3	12.0	66.8	9.58	57.2	7.56	47.7	5.83	38.2	4.31	28.6	2.93
19 ℃	95.4	95.4	17.9	85.9	14.6	76.3	11.9	66.8	9.51	57.2	7.51	47.7	5.79	38.2	4.28	28.6	2.91
17 ℃	95.4	95.4	17.6	85.9	14.4	76.3	11.7	66.8	9.37	57.2	7.41	47.7	5.72	38.2	4.23	28.6	2.87
15 ℃	95.4	95.4	17.3	85.9	14.2	76.3	11.5	66.8	9.25	57.2	7.32	47.7	5.65	38.2	4.18	28.6	2.84

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	106.0	106.0	22.3	95.4	18.7	84.8	15.6	74.2	13.0	63.6	10.6	53.0	8.63	42.4	6.86	31.8	5.27
13.0	11.8	106.0	106.0	23.3	95.4	19.5	84.8	16.2	74.2	13.4	63.6	11.0	53.0	8.86	42.4	7.02	31.8	5.38
11.0	9.8	106.0	106.0	24.5	95.4	20.4	84.8	16.9	74.2	13.9	63.6	11.3	53.0	9.12	42.4	7.20	31.8	5.50
9.0	7.9	106.0	106.0	25.7	95.4	21.3	84.8	17.6	74.2	14.4	63.6	11.7	53.0	9.38	42.4	7.39	31.8	5.62
7.0	6.0	106.0	106.0	27.0	95.4	22.3	84.8	18.3	74.2	15.0	63.6	12.1	53.0	9.67	42.4	7.58	31.8	5.75
5.0	4.1	102.4	102.4	26.8	92.2	22.2	81.9	18.2	71.7	14.9	61.4	12.0	51.2	9.61	41.0	7.53	30.7	5.71
3.0	2.2	98.8	98.8	26.6	88.9	22.0	79.1	18.1	69.2	14.8	59.3	11.9	49.4	9.54	39.5	7.48	29.6	5.67
0.0	-0.7	93.3	93.3	26.4	84.0	21.8	74.7	17.9	65.3	14.6	56.0	11.8	46.7	9.45	37.3	7.41	28.0	5.61
-3.0	-3.7	87.7	87.7	26.1	78.9	21.6	70.1	17.7	61.4	14.5	52.6	11.7	43.8	9.35	35.1	7.33	26.3	5.55
-5.0	-5.6	84.1	84.1	25.9	75.7	21.4	67.3	17.6	58.9	14.4	50.4	11.6	42.0	9.28	33.6	7.28	25.2	5.52
-7.0	-7.6	80.3	80.3	25.7	72.3	21.3	64.2	17.5	56.2	14.3	48.2	11.5	40.1	9.22	32.1	7.23	24.1	5.48
-10	-10.5	74.8	74.8	25.4	67.3	21.0	59.8	17.3	52.4	14.1	44.9	11.4	37.4	9.12	29.9	7.15	22.4	5.42
-14.5	-15.0	66.3	66.3	25.0	59.7	20.7	53.0	17.0	46.4	13.9	39.8	11.2	33.2	8.97	26.5	7.03	19.9	5.33

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP3616HT8P-E (36HP, 101kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	94.0	94.0	34.1	84.6	27.4	75.2	21.7	65.8	17.0	56.4	13.2	47.0	9.94	37.6	7.23	28.2	4.88
39 ℃	95.5	95.5	33.6	86.0	27.0	76.4	21.4	66.9	16.8	57.3	13.0	47.8	9.79	38.2	7.12	28.7	4.81
37 ℃	98.4	98.4	32.6	88.5	26.1	78.7	20.7	68.8	16.3	59.0	12.6	49.2	9.49	39.3	6.91	29.5	4.66
35 ℃	101.0	101.0	31.6	90.9	25.3	80.8	20.1	70.7	15.8	60.6	12.2	50.5	9.19	40.4	6.69	30.3	4.51
33 ℃	101.0	101.0	29.0	90.9	23.3	80.8	18.6	70.7	14.6	60.6	11.3	50.5	8.59	40.4	6.26	30.3	4.22
31 ℃	101.0	101.0	26.8	90.9	21.6	80.8	17.2	70.7	13.6	60.6	10.58	50.5	8.04	40.4	5.87	30.3	3.96
30 ℃	101.0	101.0	25.8	90.9	20.8	80.8	16.6	70.7	13.1	60.6	10.23	50.5	7.78	40.4	5.69	30.3	3.84
29 ℃	101.0	101.0	24.8	90.9	20.1	80.8	16.1	70.7	12.7	60.6	9.90	50.5	7.54	40.4	5.51	30.3	3.72
27 ℃	101.0	101.0	23.0	90.9	18.7	80.8	15.0	70.7	11.9	60.6	9.27	50.5	7.07	40.4	5.18	30.3	3.49
25 ℃	101.0	101.0	21.4	90.9	17.4	80.8	14.0	70.7	11.1	60.6	8.70	50.5	6.65	40.4	4.87	30.3	3.28
23 ℃	101.0	101.0	20.4	90.9	16.6	80.8	13.4	70.7	10.6	60.6	8.34	50.5	6.38	40.4	4.68	30.3	3.16
21 ℃	101.0	101.0	19.9	90.9	16.2	80.8	13.1	70.7	10.4	60.6	8.19	50.5	6.28	40.4	4.61	30.3	3.10
20 ℃	101.0	101.0	19.7	90.9	16.1	80.8	13.0	70.7	10.3	60.6	8.13	50.5	6.23	40.4	4.57	30.3	3.08
19 ℃	101.0	101.0	19.5	90.9	15.9	80.8	12.9	70.7	10.3	60.6	8.06	50.5	6.18	40.4	4.54	30.3	3.06
17 ℃	101.0	101.0	19.2	90.9	15.6	80.8	12.6	70.7	10.1	60.6	7.95	50.5	6.10	40.4	4.48	30.3	3.02
15 ℃	101.0	101.0	18.9	90.9	15.4	80.8	12.5	70.7	9.98	60.6	7.86	50.5	6.04	40.4	4.44	30.3	2.99

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)														
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	113.0	113.0	24.8	101.7	20.8	90.4	17.4	79.1	14.4	67.8	11.8	56.5	9.56	45.2	7.51	33.9	5.63
13.0	11.8	113.0	113.0	25.9	101.7	21.7	90.4	18.0	79.1	14.9	67.8	12.2	56.5	9.82	45.2	7.70	33.9	5.76
11.0	9.8	113.0	113.0	27.1	101.7	22.6	90.4	18.8	79.1	15.5	67.8	12.6	56.5	10.1	45.2	7.91	33.9	5.91
9.0	7.9	113.0	113.0	28.4	101.7	23.6	90.4	19.5	79.1	16.0	67.8	13.0	56.5	10.4	45.2	8.13	33.9	6.05
7.0	6.0	113.0	113.0	29.9	101.7	24.8	90.4	20.4	79.1	16.6	67.8	13.5	56.5	10.7	45.2	8.35	33.9	6.21
5.0	4.1	109.0	109.0	29.7	98.1	24.6	87.2	20.2	76.3	16.5	65.4	13.4	54.5	10.7	43.6	8.29	32.7	6.16
3.0	2.2	104.9	104.9	29.4	94.4	24.4	83.9	20.1	73.4	16.4	62.9	13.3	52.5	10.6	42.0	8.23	31.5	6.12
0.0	-0.7	98.7	98.7	29.1	88.9	24.1	79.0	19.8	69.1	16.2	59.2	13.1	49.4	10.5	39.5	8.13	29.6	6.04
-3.0	-3.7	92.3	92.3	28.7	83.1	23.8	73.9	19.6	64.6	16.0	55.4	12.9	46.2	10.3	36.9	8.03	27.7	5.97
-5.0	-5.6	88.3	88.3	28.5	79.5	23.6	70.6	19.4	61.8	15.9	53.0	12.8	44.1	10.2	35.3	7.97	26.5	5.92
-7.0	-7.6	84.0	84.0	28.3	75.6	23.4	67.2	19.3	58.8	15.7	50.4	12.7	42.0	10.2	33.6	7.90	25.2	5.87
-10	-10.5	77.9	77.9	27.9	70.1	23.1	62.3	19.0	54.5	15.5	46.7	12.6	38.9	10.0	31.1	7.80	23.4	5.80
-14.5	-15.0	68.3	68.3	27.4	61.4	22.7	54.6	18.7	47.8	15.3	41.0	12.3	34.1	9.84	27.3	7.65	20.5	5.69

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP3816HT8P-E (38HP, 106.5kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	99.1	99.1	40.5	89.2	32.0	79.3	24.9	69.4	19.1	59.5	14.4	49.6	10.53	39.6	7.46	29.7	4.98
39 ℃	100.7	100.7	39.9	90.6	31.5	80.6	24.6	70.5	18.8	60.4	14.1	50.4	10.38	40.3	7.35	30.2	4.91
37 ℃	103.7	103.7	38.7	93.3	30.6	83.0	23.8	72.6	18.2	62.2	13.7	51.9	10.06	41.5	7.13	31.1	4.76
35 ℃	106.5	106.5	37.5	95.8	29.6	85.2	23.1	74.5	17.7	63.9	13.3	53.2	9.74	42.6	6.90	31.9	4.61
33 ℃	106.5	106.5	34.3	95.9	27.2	85.2	21.2	74.6	16.3	63.9	12.3	53.3	9.07	42.6	6.45	32.0	4.32
31 ℃	106.5	106.5	31.6	95.9	25.1	85.2	19.6	74.6	15.1	63.9	11.5	53.3	8.46	42.6	6.04	32.0	4.05
30 ℃	106.5	106.5	30.4	95.9	24.1	85.2	18.9	74.6	14.6	63.9	11.1	53.3	8.18	42.6	5.84	32.0	3.93
29 ℃	106.5	106.5	29.2	95.9	23.2	85.2	18.2	74.6	14.1	63.9	10.7	53.3	7.91	42.6	5.66	32.0	3.81
27 ℃	106.5	106.5	27.1	95.9	21.6	85.2	17.0	74.6	13.1	63.9	9.98	53.3	7.41	42.6	5.31	32.0	3.58
25 ℃	106.5	106.5	25.1	95.9	20.1	85.2	15.8	74.6	12.3	63.9	9.34	53.3	6.95	42.6	4.99	32.0	3.37
23 ℃	106.5	106.5	23.9	95.9	19.1	85.2	15.1	74.6	11.7	63.9	8.94	53.3	6.67	42.6	4.80	32.0	3.24
21 ℃	106.5	106.5	23.3	95.9	18.6	85.2	14.7	74.6	11.5	63.9	8.76	53.3	6.54	42.6	4.72	32.0	3.19
20 ℃	106.5	106.5	23.0	95.9	18.4	85.2	14.6	74.6	11.3	63.9	8.68	53.3	6.49	42.6	4.68	32.0	3.17
19 ℃	106.5	106.5	22.8	95.9	18.2	85.2	14.4	74.6	11.2	63.9	8.61	53.3	6.44	42.6	4.65	32.0	3.15
17 ℃	106.5	106.5	22.3	95.9	17.9	85.2	14.2	74.6	11.1	63.9	8.48	53.3	6.35	42.6	4.59	32.0	3.11
15 ℃	106.5	106.5	21.9	95.9	17.6	85.2	14.0	74.6	10.9	63.9	8.37	53.3	6.28	42.6	4.54	32.0	3.08

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	114.0	114.0	24.8	102.6	20.8	91.2	17.4	79.8	14.5	68.4	11.9	57.0	9.64	45.6	7.60	34.2	5.68
13.0	11.8	114.0	114.0	25.9	102.6	21.7	91.2	18.0	79.8	14.9	68.4	12.2	57.0	9.90	45.6	7.79	34.2	5.82
11.0	9.8	114.0	114.0	27.2	102.6	22.6	91.2	18.8	79.8	15.5	68.4	12.6	57.0	10.2	45.6	8.00	34.2	5.97
9.0	7.9	114.0	114.0	28.5	102.6	23.7	91.2	19.5	79.8	16.0	68.4	13.1	57.0	10.5	45.6	8.21	34.2	6.12
7.0	6.0	114.0	114.0	30.0	102.6	24.8	91.2	20.4	79.8	16.7	68.4	13.5	57.0	10.8	45.6	8.44	34.2	6.28
5.0	4.1	109.9	109.9	29.8	98.9	24.6	87.9	20.2	76.9	16.5	65.9	13.4	55.0	10.7	44.0	8.38	33.0	6.23
3.0	2.2	105.8	105.8	29.5	95.2	24.4	84.7	20.1	74.1	16.4	63.5	13.3	52.9	10.6	42.3	8.31	31.7	6.18
0.0	-0.7	99.6	99.6	29.2	89.6	24.1	79.7	19.8	69.7	16.2	59.8	13.1	49.8	10.5	39.8	8.22	29.9	6.11
-3.0	-3.7	93.2	93.2	28.8	83.8	23.8	74.5	19.6	65.2	16.0	55.9	13.0	46.6	10.4	37.3	8.11	27.9	6.03
-5.0	-5.6	89.1	89.1	28.6	80.2	23.6	71.3	19.4	62.4	15.9	53.4	12.9	44.5	10.3	35.6	8.05	26.7	5.99
-7.0	-7.6	84.8	84.8	28.4	76.3	23.4	67.8	19.3	59.3	15.8	50.9	12.8	42.4	10.2	33.9	7.98	25.4	5.94
-10	-10.5	78.5	78.5	28.0	70.7	23.1	62.8	19.0	55.0	15.6	47.1	12.6	39.3	10.1	31.4	7.88	23.6	5.86
-14.5	-15.0	68.9	68.9	27.5	62.0	22.7	55.1	18.7	48.2	15.3	41.3	12.4	34.4	9.90	27.6	7.73	20.7	5.75

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP4016HT8P-E (40HP, 112kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	104.2	104.2	37.4	93.8	30.1	83.4	24.0	73.0	19.0	62.5	14.8	52.1	11.25	41.7	8.25	31.3	5.60
39 ℃	105.9	105.9	36.8	95.3	29.7	84.7	23.7	74.1	18.7	63.5	14.6	53.0	11.09	42.4	8.13	31.8	5.52
37 ℃	109.1	109.1	35.7	98.2	28.8	87.3	23.0	76.3	18.1	65.4	14.1	54.5	10.75	43.6	7.89	32.7	5.35
35 ℃	112.0	112.0	34.6	100.8	27.9	89.6	22.2	78.4	17.6	67.2	13.7	56.0	10.41	44.8	7.64	33.6	5.18
33 ℃	112.0	112.0	31.8	100.8	25.7	89.6	20.6	78.4	16.3	67.2	12.7	56.0	9.73	44.8	7.15	33.6	4.85
31 ℃	112.0	112.0	29.4	100.8	23.8	89.6	19.1	78.4	15.2	67.2	11.9	56.0	9.12	44.8	6.71	33.6	4.55
30 ℃	112.0	112.0	28.3	100.8	22.9	89.6	18.5	78.4	14.7	67.2	11.5	56.0	8.83	44.8	6.50	33.6	4.41
29 ℃	112.0	112.0	27.2	100.8	22.1	89.6	17.8	78.4	14.2	67.2	11.1	56.0	8.56	44.8	6.30	33.6	4.27
27 ℃	112.0	112.0	25.3	100.8	20.6	89.6	16.6	78.4	13.3	67.2	10.5	56.0	8.04	44.8	5.93	33.6	4.02
25 ℃	112.0	112.0	23.6	100.8	19.2	89.6	15.6	78.4	12.4	67.2	9.81	56.0	7.55	44.8	5.57	33.6	3.78
23 ℃	112.0	112.0	22.5	100.8	18.4	89.6	14.9	78.4	11.9	67.2	9.42	56.0	7.26	44.8	5.36	33.6	3.63
21 ℃	112.0	112.0	22.0	100.8	18.0	89.6	14.6	78.4	11.7	67.2	9.25	56.0	7.14	44.8	5.28	33.6	3.57
20 ℃	112.0	112.0	21.7	100.8	17.8	89.6	14.4	78.4	11.6	67.2	9.18	56.0	7.09	44.8	5.24	33.6	3.54
19 ℃	112.0	112.0	21.5	100.8	17.6	89.6	14.3	78.4	11.5	67.2	9.11	56.0	7.04	44.8	5.20	33.6	3.52
17 ℃	112.0	112.0	21.1	100.8	17.3	89.6	14.1	78.4	11.3	67.2	8.99	56.0	6.95	44.8	5.14	33.6	3.47
15 ℃	112.0	112.0	20.8	100.8	17.1	89.6	13.9	78.4	11.2	67.2	8.89	56.0	6.87	44.8	5.08	33.6	3.43

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	126.0	126.0	28.4	113.4	24.0	100.8	20.1	88.2	16.8	75.6	13.8	63.0	11.0	50.4	8.50	37.8	6.03
13.0	11.8	126.0	126.0	29.6	113.4	24.9	100.8	20.9	88.2	17.3	75.6	14.2	63.0	11.4	50.4	8.74	37.8	6.21
11.0	9.8	126.0	126.0	30.9	113.4	26.0	100.8	21.7	88.2	17.9	75.6	14.7	63.0	11.7	50.4	9.01	37.8	6.41
9.0	7.9	126.0	126.0	32.4	113.4	27.1	100.8	22.5	88.2	18.6	75.6	15.2	63.0	12.1	50.4	9.28	37.8	6.61
7.0	6.0	126.0	126.0	34.0	113.4	28.3	100.8	23.5	88.2	19.3	75.6	15.7	63.0	12.5	50.4	9.57	37.8	6.82
5.0	4.1	121.5	121.5	33.7	109.3	28.1	97.2	23.3	85.0	19.2	72.9	15.6	60.7	12.4	48.6	9.50	36.4	6.77
3.0	2.2	117.0	117.0	33.5	105.3	27.9	93.6	23.1	81.9	19.0	70.2	15.4	58.5	12.3	46.8	9.43	35.1	6.72
0.0	-0.7	110.1	110.1	33.1	99.1	27.6	88.1	22.8	77.1	18.8	66.1	15.3	55.0	12.1	44.0	9.32	33.0	6.64
-3.0	-3.7	103.0	103.0	32.7	92.7	27.2	82.4	22.6	72.1	18.5	61.8	15.1	51.5	12.0	41.2	9.20	30.9	6.56
-5.0	-5.6	98.5	98.5	32.4	88.6	27.0	78.8	22.4	68.9	18.4	59.1	15.0	49.2	11.9	39.4	9.13	29.5	6.50
-7.0	-7.6	93.7	93.7	32.1	84.3	26.8	75.0	22.2	65.6	18.2	56.2	14.8	46.9	11.8	37.5	9.05	28.1	6.45
-10	-10.5	86.8	86.8	31.8	78.1	26.5	69.5	21.9	60.8	18.0	52.1	14.6	43.4	11.7	34.7	8.94	26.0	6.37
-14.5	-15.0	76.1	76.1	31.1	68.5	25.9	60.9	21.5	53.3	17.7	45.7	14.4	38.1	11.4	30.5	8.77	22.8	6.25

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP4216HT8P-E (42HP, 117kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	109.4	109.4	43.8	98.4	34.8	87.5	27.2	76.5	21.0	65.6	16.0	54.7	11.8	43.7	8.49	32.8	5.71
39 ℃	111.1	111.1	43.1	100.0	34.2	88.9	26.8	77.8	20.7	66.7	15.7	55.6	11.7	44.4	8.36	33.3	5.63
37 ℃	114.4	114.4	41.8	103.0	33.2	91.5	26.0	80.1	20.1	68.7	15.3	57.2	11.3	45.8	8.11	34.3	5.45
35 ℃	117.5	117.5	40.5	105.7	32.2	94.0	25.2	82.2	19.5	70.5	14.8	58.7	11.0	47.0	7.85	35.2	5.28
33 ℃	117.5	117.5	37.1	105.8	29.6	94.0	23.3	82.3	18.0	70.5	13.7	58.8	10.2	47.0	7.34	35.3	4.95
31 ℃	117.5	117.5	34.2	105.8	27.3	94.0	21.5	82.3	16.7	70.5	12.8	58.8	9.54	47.0	6.88	35.3	4.64
30 ℃	117.5	117.5	32.9	105.8	26.3	94.0	20.7	82.3	16.1	70.5	12.4	58.8	9.23	47.0	6.66	35.3	4.50
29 ℃	117.5	117.5	31.6	105.8	25.3	94.0	20.0	82.3	15.6	70.5	11.9	58.8	8.94	47.0	6.45	35.3	4.36
27 ℃	117.5	117.5	29.3	105.8	23.5	94.0	18.6	82.3	14.5	70.5	11.2	58.8	8.38	47.0	6.06	35.3	4.11
25 ℃	117.5	117.5	27.3	105.8	21.9	94.0	17.4	82.3	13.6	70.5	10.5	58.8	7.86	47.0	5.70	35.3	3.86
23 ℃	117.5	117.5	25.9	105.8	20.9	94.0	16.6	82.3	13.0	70.5	10.0	58.8	7.54	47.0	5.47	35.3	3.71
21 ℃	117.5	117.5	25.3	105.8	20.4	94.0	16.2	82.3	12.7	70.5	9.82	58.8	7.41	47.0	5.39	35.3	3.66
20 ℃	117.5	117.5	25.0	105.8	20.1	94.0	16.0	82.3	12.6	70.5	9.74	58.8	7.35	47.0	5.35	35.3	3.63
19 ℃	117.5	117.5	24.7	105.8	19.9	94.0	15.9	82.3	12.5	70.5	9.66	58.8	7.30	47.0	5.31	35.3	3.61
17 ℃	117.5	117.5	24.3	105.8	19.6	94.0	15.6	82.3	12.3	70.5	9.52	58.8	7.20	47.0	5.24	35.3	3.56
15 ℃	117.5	117.5	23.9	105.8	19.3	94.0	15.4	82.3	12.1	70.5	9.40	58.8	7.11	47.0	5.19	35.3	3.53

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	127.0	127.0	28.4	114.3	24.0	101.6	20.1	88.9	16.8	76.2	13.8	63.5	11.1	50.8	8.58	38.1	6.08
13.0	11.8	127.0	127.0	29.6	114.3	24.9	101.6	20.9	88.9	17.3	76.2	14.3	63.5	11.4	50.8	8.83	38.1	6.27
11.0	9.8	127.0	127.0	31.0	114.3	26.0	101.6	21.7	88.9	18.0	76.2	14.7	63.5	11.8	50.8	9.10	38.1	6.47
9.0	7.9	127.0	127.0	32.5	114.3	27.1	101.6	22.5	88.9	18.6	76.2	15.2	63.5	12.2	50.8	9.37	38.1	6.67
7.0	6.0	127.0	127.0	34.1	114.3	28.3	101.6	23.5	88.9	19.3	76.2	15.7	63.5	12.6	50.8	9.66	38.1	6.89
5.0	4.1	122.4	122.4	33.8	110.2	28.1	98.0	23.3	85.7	19.2	73.5	15.6	61.2	12.5	49.0	9.59	36.7	6.84
3.0	2.2	117.9	117.9	33.6	106.1	27.9	94.3	23.1	82.5	19.0	70.7	15.5	59.0	12.4	47.2	9.51	35.4	6.78
0.0	-0.7	111.0	111.0	33.2	99.9	27.6	88.8	22.8	77.7	18.8	66.6	15.3	55.5	12.2	44.4	9.40	33.3	6.70
-3.0	-3.7	103.8	103.8	32.8	93.4	27.2	83.0	22.6	72.6	18.6	62.3	15.1	51.9	12.1	41.5	9.29	31.1	6.62
-5.0	-5.6	99.2	99.2	32.5	89.3	27.0	79.4	22.4	69.5	18.4	59.5	15.0	49.6	12.0	39.7	9.21	29.8	6.57
-7.0	-7.6	94.4	94.4	32.2	85.0	26.8	75.6	22.2	66.1	18.3	56.7	14.9	47.2	11.9	37.8	9.13	28.3	6.51
-10	-10.5	87.5	87.5	31.8	78.8	26.5	70.0	21.9	61.3	18.0	52.5	14.7	43.8	11.7	35.0	9.02	26.3	6.43
-14.5	-15.0	76.7	76.7	31.2	69.1	26.0	61.4	21.5	53.7	17.7	46.0	14.4	38.4	11.5	30.7	8.85	23.0	6.31

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP4416HT8P-E (44HP, 123kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	114.5	114.5	50.1	103.0	39.4	91.6	30.5	80.1	23.1	68.7	17.2	57.2	12.4	45.8	8.72	34.3	5.82
39 ℃	116.3	116.3	49.4	104.7	38.8	93.0	30.0	81.4	22.8	69.8	16.9	58.2	12.3	46.5	8.59	34.9	5.73
37 ℃	119.8	119.8	47.9	107.8	37.6	95.8	29.1	83.8	22.1	71.9	16.4	59.9	11.9	47.9	8.33	35.9	5.56
35 ℃	123.0	123.0	46.4	110.7	36.5	98.4	28.2	86.1	21.4	73.8	15.9	61.5	11.5	49.2	8.07	36.9	5.38
33 ℃	123.0	123.0	42.5	110.7	33.4	98.4	25.9	86.1	19.7	73.8	14.7	61.5	10.7	49.2	7.53	36.9	5.05
31 ℃	123.0	123.0	39.0	110.7	30.8	98.4	23.9	86.1	18.3	73.8	13.7	61.5	9.97	49.2	7.04	36.9	4.74
30 ℃	123.0	123.0	37.5	110.7	29.6	98.4	23.0	86.1	17.6	73.8	13.2	61.5	9.63	49.2	6.82	36.9	4.59
29 ℃	123.0	123.0	36.0	110.7	28.5	98.4	22.2	86.1	17.0	73.8	12.7	61.5	9.31	49.2	6.60	36.9	4.46
27 ℃	123.0	123.0	33.3	110.7	26.4	98.4	20.6	86.1	15.8	73.8	11.9	61.5	8.72	49.2	6.20	36.9	4.19
25 ℃	123.0	123.0	30.9	110.7	24.5	98.4	19.2	86.1	14.7	73.8	11.1	61.5	8.17	49.2	5.82	36.9	3.95
23 ℃	123.0	123.0	29.4	110.7	23.3	98.4	18.3	86.1	14.1	73.8	10.6	61.5	7.82	49.2	5.59	36.9	3.80
21 ℃	123.0	123.0	28.6	110.7	22.8	98.4	17.8	86.1	13.7	73.8	10.39	61.5	7.68	49.2	5.50	36.9	3.75
20 ℃	123.0	123.0	28.3	110.7	22.5	98.4	17.6	86.1	13.6	73.8	10.30	61.5	7.61	49.2	5.45	36.9	3.72
19 ℃	123.0	123.0	28.0	110.7	22.3	98.4	17.5	86.1	13.5	73.8	10.21	61.5	7.55	49.2	5.42	36.9	3.70
17 ℃	123.0	123.0	27.4	110.7	21.8	98.4	17.1	86.1	13.2	73.8	10.05	61.5	7.45	49.2	5.35	36.9	3.65
15 ℃	123.0	123.0	26.9	110.7	21.5	98.4	16.9	86.1	13.1	73.8	9.91	61.5	7.35	49.2	5.29	36.9	3.62

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	128.0	128.0	28.4	115.2	24.0	102.4	20.2	89.6	16.8	76.8	13.9	64.0	11.2	51.2	8.67	38.4	6.14
13.0	11.8	128.0	128.0	29.6	115.2	24.9	102.4	20.9	89.6	17.4	76.8	14.3	64.0	11.5	51.2	8.91	38.4	6.32
11.0	9.8	128.0	128.0	31.0	115.2	26.0	102.4	21.7	89.6	18.0	76.8	14.8	64.0	11.9	51.2	9.18	38.4	6.53
9.0	7.9	128.0	128.0	32.5	115.2	27.1	102.4	22.5	89.6	18.6	76.8	15.2	64.0	12.2	51.2	9.46	38.4	6.74
7.0	6.0	128.0	128.0	34.2	115.2	28.4	102.4	23.5	89.6	19.3	76.8	15.8	64.0	12.6	51.2	9.75	38.4	6.96
5.0	4.1	123.4	123.4	33.9	111.1	28.2	98.7	23.3	86.4	19.2	74.0	15.6	61.7	12.5	49.4	9.67	37.0	6.90
3.0	2.2	118.8	118.8	33.7	106.9	27.9	95.1	23.1	83.2	19.0	71.3	15.5	59.4	12.4	47.5	9.60	35.6	6.85
0.0	-0.7	111.8	111.8	33.3	100.7	27.6	89.5	22.8	78.3	18.8	67.1	15.3	55.9	12.3	44.7	9.49	33.6	6.77
-3.0	-3.7	104.6	104.6	32.9	94.1	27.3	83.7	22.6	73.2	18.6	62.8	15.1	52.3	12.1	41.8	9.37	31.4	6.69
-5.0	-5.6	100.0	100.0	32.6	90.0	27.1	80.0	22.4	70.0	18.4	60.0	15.0	50.0	12.0	40.0	9.29	30.0	6.63
-7.0	-7.6	95.2	95.2	32.3	85.7	26.8	76.2	22.2	66.6	18.3	57.1	14.9	47.6	11.9	38.1	9.22	28.6	6.58
-10	-10.5	88.2	88.2	31.9	79.4	26.5	70.6	21.9	61.7	18.0	52.9	14.7	44.1	11.8	35.3	9.10	26.5	6.50
-14.5	-15.0	77.3	77.3	31.3	69.6	26.0	61.9	21.5	54.1	17.7	46.4	14.4	38.7	11.6	30.9	8.93	23.2	6.37

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP4616HT8P-E (46HP, 130kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	121.0	121.0	44.2	108.9	35.1	96.8	27.6	84.7	21.5	72.6	16.5	60.5	12.4	48.4	9.03	36.3	6.10
39 ℃	122.9	122.9	43.5	110.6	34.6	98.3	27.2	86.0	21.2	73.8	16.2	61.5	12.2	49.2	8.89	36.9	6.01
37 ℃	126.6	126.6	42.2	113.9	33.5	101.3	26.4	88.6	20.5	76.0	15.8	63.3	11.9	50.6	8.62	38.0	5.83
35 ℃	130.0	130.0	40.9	117.0	32.5	104.0	25.5	91.0	19.9	78.0	15.3	65.0	11.5	52.0	8.35	39.0	5.65
33 ℃	130.0	130.0	37.5	117.0	29.9	104.0	23.6	91.0	18.4	78.0	14.2	65.0	10.7	52.0	7.82	39.0	5.29
31 ℃	130.0	130.0	34.5	117.0	27.6	104.0	21.9	91.0	17.1	78.0	13.2	65.0	10.0	52.0	7.33	39.0	4.96
30 ℃	130.0	130.0	33.2	117.0	26.6	104.0	21.1	91.0	16.5	78.0	12.8	65.0	9.71	52.0	7.10	39.0	4.80
29 ℃	130.0	130.0	31.9	117.0	25.6	104.0	20.3	91.0	16.0	78.0	12.4	65.0	9.41	52.0	6.88	39.0	4.66
27 ℃	130.0	130.0	29.6	117.0	23.8	104.0	18.9	91.0	14.9	78.0	11.6	65.0	8.83	52.0	6.47	39.0	4.38
25 ℃	130.0	130.0	27.5	117.0	22.2	104.0	17.7	91.0	14.0	78.0	10.9	65.0	8.30	52.0	6.08	39.0	4.11
23 ℃	130.0	130.0	26.2	117.0	21.1	104.0	16.9	91.0	13.4	78.0	10.4	65.0	7.97	52.0	5.85	39.0	3.95
21 ℃	130.0	130.0	25.5	117.0	20.6	104.0	16.5	91.0	13.1	78.0	10.2	65.0	7.83	52.0	5.75	39.0	3.89
20 ℃	130.0	130.0	25.3	117.0	20.4	104.0	16.4	91.0	13.0	78.0	10.2	65.0	7.77	52.0	5.71	39.0	3.86
19 ℃	130.0	130.0	25.0	117.0	20.2	104.0	16.2	91.0	12.9	78.0	10.1	65.0	7.72	52.0	5.67	39.0	3.83
17 ℃	130.0	130.0	24.5	117.0	19.9	104.0	16.0	91.0	12.7	78.0	9.94	65.0	7.62	52.0	5.60	39.0	3.78
15 ℃	130.0	130.0	24.1	117.0	19.6	104.0	15.7	91.0	12.5	78.0	9.82	65.0	7.53	52.0	5.54	39.0	3.74

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit Dry-Bulb (℃)	Outdoor Unit Wet-Bulb (℃)	Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
			100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	145.0	145.0	30.3	130.5	25.1	116.0	20.8	101.5	17.2	87.0	14.2	72.5	11.6	58.0	9.42	43.5	7.53
13.0	11.8	145.0	145.0	31.7	130.5	26.2	116.0	21.6	101.5	17.8	87.0	14.6	72.5	11.9	58.0	9.61	43.5	7.66
11.0	9.8	145.0	145.0	33.3	130.5	27.5	116.0	22.6	101.5	18.4	87.0	15.0	72.5	12.2	58.0	9.82	43.5	7.79
9.0	7.9	145.0	145.0	35.1	130.5	28.8	116.0	23.5	101.5	19.1	87.0	15.5	72.5	12.5	58.0	10.0	43.5	7.93
7.0	6.0	145.0	145.0	37.0	130.5	30.2	116.0	24.6	101.5	19.9	87.0	16.1	72.5	12.9	58.0	10.3	43.5	8.08
5.0	4.1	140.0	140.0	36.7	126.0	30.0	112.0	24.4	98.0	19.8	84.0	15.9	70.0	12.8	56.0	10.2	42.0	8.02
3.0	2.2	134.9	134.9	36.5	121.4	29.8	108.0	24.3	94.5	19.6	81.0	15.8	67.5	12.7	54.0	10.1	40.5	7.96
0.0	-0.7	127.3	127.3	36.1	114.5	29.5	101.8	24.0	89.1	19.4	76.4	15.7	63.6	12.6	50.9	10.0	38.2	7.88
-3.0	-3.7	119.3	119.3	35.7	107.4	29.2	95.5	23.7	83.5	19.2	71.6	15.5	59.7	12.4	47.7	9.91	35.8	7.79
-5.0	-5.6	114.3	114.3	35.4	102.9	28.9	91.4	23.5	80.0	19.1	68.6	15.4	57.1	12.3	45.7	9.84	34.3	7.73
-7.0	-7.6	109.0	109.0	35.1	98.1	28.7	87.2	23.4	76.3	18.9	65.4	15.3	54.5	12.2	43.6	9.76	32.7	7.67
-10	-10.5	101.3	101.3	34.7	91.2	28.4	81.1	23.1	70.9	18.7	60.8	15.1	50.7	12.1	40.5	9.65	30.4	7.59
-14.5	-15.0	89.4	89.4	34.1	80.5	27.9	71.5	22.7	62.6	18.4	53.7	14.8	44.7	11.9	35.8	9.48	26.8	7.45

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP4816HT8P (48HP, 135kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	125.6	125.6	46.3	113.1	36.9	100.5	29.1	87.9	22.6	75.4	17.3	62.8	12.9	50.3	9.31	37.7	6.23
39 ℃	127.7	127.7	45.7	114.9	36.4	102.1	28.7	89.4	22.3	76.6	17.0	63.8	12.7	51.1	9.17	38.3	6.14
37 ℃	131.5	131.5	44.3	118.3	35.3	105.2	27.8	92.0	21.6	78.9	16.5	65.7	12.4	52.6	8.89	39.4	5.95
35 ℃	135.0	135.0	42.9	121.5	34.2	108.0	26.9	94.5	20.9	81.0	16.0	67.5	12.0	54.0	8.61	40.5	5.76
33 ℃	135.0	135.0	39.4	121.5	31.5	108.0	24.9	94.5	19.4	81.0	14.9	67.5	11.2	54.0	8.05	40.5	5.39
31 ℃	135.0	135.0	36.3	121.5	29.1	108.0	23.0	94.5	18.0	81.0	13.9	67.5	10.4	54.0	7.54	40.5	5.05
30 ℃	135.0	135.0	34.9	121.5	28.0	108.0	22.2	94.5	17.4	81.0	13.4	67.5	10.1	54.0	7.31	40.5	4.90
29 ℃	135.0	135.0	33.6	121.5	27.0	108.0	21.4	94.5	16.8	81.0	13.0	67.5	9.77	54.0	7.08	40.5	4.74
27 ℃	135.0	135.0	31.1	121.5	25.1	108.0	20.0	94.5	15.7	81.0	12.1	67.5	9.17	54.0	6.65	40.5	4.46
25 ℃	135.0	135.0	29.0	121.5	23.4	108.0	18.6	94.5	14.7	81.0	11.4	67.5	8.60	54.0	6.25	40.5	4.19
23 ℃	135.0	135.0	27.6	121.5	22.3	108.0	17.8	94.5	14.0	81.0	10.9	67.5	8.26	54.0	6.00	40.5	4.03
21 ℃	135.0	135.0	26.9	121.5	21.7	108.0	17.4	94.5	13.8	81.0	10.7	67.5	8.12	54.0	5.90	40.5	3.96
20 ℃	135.0	135.0	26.6	121.5	21.5	108.0	17.2	94.5	13.6	81.0	10.6	67.5	8.05	54.0	5.86	40.5	3.93
19 ℃	135.0	135.0	26.3	121.5	21.3	108.0	17.1	94.5	13.5	81.0	10.5	67.5	7.99	54.0	5.82	40.5	3.90
17 ℃	135.0	135.0	25.8	121.5	20.9	108.0	16.8	94.5	13.3	81.0	10.4	67.5	7.89	54.0	5.75	40.5	3.85
15 ℃	135.0	135.0	25.4	121.5	20.6	108.0	16.6	94.5	13.1	81.0	10.2	67.5	7.80	54.0	5.68	40.5	3.81

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	150.0	150.0	31.8	135.0	26.5	120.0	22.0	105.0	18.1	90.0	14.8	75.0	12.1	60.0	9.79	45.0	7.84
13.0	11.8	150.0	150.0	33.3	135.0	27.6	120.0	22.8	105.0	18.7	90.0	15.3	75.0	12.4	60.0	9.99	45.0	7.96
11.0	9.8	150.0	150.0	35.0	135.0	28.9	120.0	23.8	105.0	19.4	90.0	15.8	75.0	12.7	60.0	10.2	45.0	8.10
9.0	7.9	150.0	150.0	36.7	135.0	30.3	120.0	24.8	105.0	20.2	90.0	16.3	75.0	13.1	60.0	10.5	45.0	8.24
7.0	6.0	150.0	150.0	38.7	135.0	31.8	120.0	25.9	105.0	21.0	90.0	16.9	75.0	13.5	60.0	10.7	45.0	8.40
5.0	4.1	144.6	144.6	38.4	130.2	31.5	115.7	25.7	101.2	20.8	86.8	16.8	72.3	13.4	57.9	10.6	43.4	8.33
3.0	2.2	139.3	139.3	38.1	125.3	31.3	111.4	25.5	97.5	20.7	83.6	16.6	69.6	13.3	55.7	10.5	41.8	8.27
0.0	-0.7	131.1	131.1	37.7	118.0	30.9	104.8	25.2	91.7	20.4	78.6	16.4	65.5	13.1	52.4	10.4	39.3	8.17
-3.0	-3.7	122.6	122.6	37.2	110.3	30.6	98.1	24.9	85.8	20.2	73.5	16.2	61.3	13.0	49.0	10.3	36.8	8.07
-5.0	-5.6	117.2	117.2	36.9	105.5	30.3	93.8	24.7	82.0	20.0	70.3	16.1	58.6	12.9	46.9	10.2	35.2	8.01
-7.0	-7.6	111.6	111.6	36.6	100.4	30.1	89.2	24.5	78.1	19.9	66.9	16.0	55.8	12.8	44.6	10.1	33.5	7.94
-10	-10.5	103.4	103.4	36.1	93.0	29.7	82.7	24.2	72.3	19.6	62.0	15.8	51.7	12.6	41.3	10.00	31.0	7.84
-14.5	-15.0	90.6	90.6	35.4	81.6	29.1	72.5	23.7	63.4	19.2	54.4	15.5	45.3	12.4	36.3	9.80	27.2	7.69

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP5016HT8P-E (50HP, 140.4kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	130.7	130.7	46.7	117.6	37.4	104.5	29.7	91.5	23.2	78.4	18.0	65.3	13.6	52.3	9.89	39.2	6.70
39 ℃	132.8	132.8	46.0	119.5	36.8	106.2	29.2	92.9	22.9	79.7	17.7	66.4	13.4	53.1	9.75	39.8	6.60
37 ℃	136.7	136.7	44.6	123.1	35.7	109.4	28.3	95.7	22.2	82.0	17.2	68.4	13.0	54.7	9.45	41.0	6.40
35 ℃	140.4	140.4	43.2	126.3	34.6	112.3	27.4	98.3	21.5	84.2	16.6	70.2	12.6	56.2	9.15	42.1	6.19
33 ℃	140.4	140.4	39.7	126.4	31.9	112.3	25.4	98.3	20.0	84.2	15.5	70.2	11.7	56.2	8.57	42.1	5.80
31 ℃	140.4	140.4	36.6	126.4	29.5	112.3	23.6	98.3	18.6	84.2	14.4	70.2	11.0	56.2	8.03	42.1	5.44
30 ℃	140.4	140.4	35.2	126.4	28.4	112.3	22.7	98.3	17.9	84.2	14.0	70.2	10.6	56.2	7.78	42.1	5.27
29 ℃	140.4	140.4	33.9	126.4	27.4	112.3	21.9	98.3	17.3	84.2	13.5	70.2	10.3	56.2	7.54	42.1	5.11
27 ℃	140.4	140.4	31.5	126.4	25.5	112.3	20.4	98.3	16.2	84.2	12.7	70.2	9.67	56.2	7.09	42.1	4.80
25 ℃	140.4	140.4	29.3	126.4	23.8	112.3	19.1	98.3	15.2	84.2	11.9	70.2	9.08	56.2	6.67	42.1	4.52
23 ℃	140.4	140.4	27.9	126.4	22.7	112.3	18.3	98.3	14.5	84.2	11.4	70.2	8.72	56.2	6.41	42.1	4.34
21 ℃	140.4	140.4	27.2	126.4	22.2	112.3	17.9	98.3	14.3	84.2	11.2	70.2	8.58	56.2	6.31	42.1	4.27
20 ℃	140.4	140.4	27.0	126.4	21.9	112.3	17.7	98.3	14.1	84.2	11.1	70.2	8.51	56.2	6.26	42.1	4.24
19 ℃	140.4	140.4	26.7	126.4	21.7	112.3	17.6	98.3	14.0	84.2	11.0	70.2	8.45	56.2	6.22	42.1	4.21
17 ℃	140.4	140.4	26.2	126.4	21.4	112.3	17.3	98.3	13.8	84.2	10.9	70.2	8.35	56.2	6.14	42.1	4.16
15 ℃	140.4	140.4	25.8	126.4	21.1	112.3	17.0	98.3	13.6	84.2	10.74	70.2	8.25	56.2	6.08	42.1	4.11

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)														
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	156.0	156.0	32.9	140.4	27.6	124.8	22.9	109.2	19.0	93.6	15.6	78.0	12.7	62.4	10.1	46.8	7.88
13.0	11.8	156.0	156.0	34.4	140.4	28.7	124.8	23.8	109.2	19.6	93.6	16.1	78.0	13.0	62.4	10.4	46.8	8.03
11.0	9.8	156.0	156.0	36.1	140.4	30.0	124.8	24.8	109.2	20.4	93.6	16.6	78.0	13.4	62.4	10.6	46.8	8.20
9.0	7.9	156.0	156.0	37.9	140.4	31.4	124.8	25.8	109.2	21.1	93.6	17.1	78.0	13.8	62.4	10.9	46.8	8.37
7.0	6.0	156.0	156.0	39.9	140.4	32.9	124.8	27.0	109.2	22.0	93.6	17.7	78.0	14.2	62.4	11.2	46.8	8.55
5.0	4.1	150.6	150.6	39.6	135.6	32.7	120.5	26.8	105.4	21.8	90.4	17.6	75.3	14.1	60.2	11.1	45.2	8.49
3.0	2.2	145.2	145.2	39.3	130.7	32.5	116.2	26.6	101.7	21.7	87.1	17.5	72.6	14.0	58.1	11.0	43.6	8.43
0.0	-0.7	137.0	137.0	38.9	123.3	32.1	109.6	26.3	95.9	21.4	82.2	17.3	68.5	13.8	54.8	10.9	41.1	8.34
-3.0	-3.7	128.5	128.5	38.5	115.7	31.7	102.8	26.0	90.0	21.2	77.1	17.1	64.3	13.7	51.4	10.8	38.6	8.24
-5.0	-5.6	123.1	123.1	38.2	110.8	31.5	98.5	25.8	86.2	21.0	73.9	17.0	61.6	13.6	49.3	10.7	36.9	8.18
-7.0	-7.6	117.5	117.5	37.9	105.7	31.3	94.0	25.6	82.2	20.9	70.5	16.9	58.7	13.5	47.0	10.6	35.2	8.12
-10	-10.5	109.3	109.3	37.5	98.3	30.9	87.4	25.4	76.5	20.6	65.6	16.7	54.6	13.3	43.7	10.5	32.8	8.03
-14.5	-15.0	96.5	96.5	36.8	86.9	30.4	77.2	24.9	67.6	20.3	57.9	16.4	48.3	13.1	38.6	10.3	29.0	7.89

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP5216HT8P-E (52HP, 146kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	135.9	135.9	49.6	122.3	39.7	108.7	31.4	95.1	24.6	81.5	18.9	67.9	14.2	54.3	10.3	40.8	6.95
39 ℃	138.1	138.1	48.9	124.3	39.1	110.4	30.9	96.6	24.2	82.8	18.6	69.0	14.0	55.2	10.2	41.4	6.85
37 ℃	142.2	142.2	47.4	128.0	37.9	113.7	30.0	99.5	23.5	85.3	18.1	71.1	13.6	56.9	9.87	42.7	6.64
35 ℃	146.0	146.0	45.9	131.4	36.7	116.8	29.1	102.2	22.7	87.6	17.5	73.0	13.2	58.4	9.56	43.8	6.43
33 ℃	146.0	146.0	42.2	131.4	33.8	116.8	26.9	102.2	21.1	87.6	16.3	73.0	12.3	58.4	8.95	43.8	6.02
31 ℃	146.0	146.0	38.9	131.4	31.3	116.8	24.9	102.2	19.6	87.6	15.2	73.0	11.5	58.4	8.38	43.8	5.65
30 ℃	146.0	146.0	37.4	131.4	30.1	116.8	24.0	102.2	18.9	87.6	14.7	73.0	11.1	58.4	8.12	43.8	5.47
29 ℃	146.0	146.0	36.0	131.4	29.0	116.8	23.2	102.2	18.3	87.6	14.2	73.0	10.8	58.4	7.87	43.8	5.30
27 ℃	146.0	146.0	33.4	131.4	27.0	116.8	21.6	102.2	17.1	87.6	13.3	73.0	10.1	58.4	7.40	43.8	4.98
25 ℃	146.0	146.0	31.1	131.4	25.2	116.8	20.2	102.2	16.0	87.6	12.5	73.0	9.51	58.4	6.95	43.8	4.68
23 ℃	146.0	146.0	29.6	131.4	24.0	116.8	19.3	102.2	15.3	87.6	12.0	73.0	9.14	58.4	6.68	43.8	4.50
21 ℃	146.0	146.0	28.9	131.4	23.5	116.8	18.9	102.2	15.0	87.6	11.8	73.0	8.98	58.4	6.57	43.8	4.42
20 ℃	146.0	146.0	28.6	131.4	23.2	116.8	18.7	102.2	14.9	87.6	11.7	73.0	8.91	58.4	6.53	43.8	4.39
19 ℃	146.0	146.0	28.3	131.4	23.0	116.8	18.5	102.2	14.8	87.6	11.6	73.0	8.85	58.4	6.48	43.8	4.36
17 ℃	146.0	146.0	27.8	131.4	22.6	116.8	18.2	102.2	14.5	87.6	11.4	73.0	8.73	58.4	6.40	43.8	4.30
15 ℃	146.0	146.0	27.3	131.4	22.3	116.8	18.0	102.2	14.4	87.6	11.3	73.0	8.63	58.4	6.33	43.8	4.26

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	163.0	163.0	35.4	146.7	29.7	130.4	24.7	114.1	20.5	97.8	16.8	81.5	13.6	65.2	10.8	48.9	8.24
13.0	11.8	163.0	163.0	37.0	146.7	30.9	130.4	25.6	114.1	21.1	97.8	17.3	81.5	14.0	65.2	11.0	48.9	8.42
11.0	9.8	163.0	163.0	38.8	146.7	32.3	130.4	26.7	114.1	21.9	97.8	17.9	81.5	14.4	65.2	11.3	48.9	8.61
9.0	7.9	163.0	163.0	40.7	146.7	33.7	130.4	27.8	114.1	22.8	97.8	18.5	81.5	14.8	65.2	11.6	48.9	8.80
7.0	6.0	163.0	163.0	42.8	146.7	35.4	130.4	29.0	114.1	23.6	97.8	19.1	81.5	15.2	65.2	11.9	48.9	9.01
5.0	4.1	157.2	157.2	42.5	141.4	35.1	125.7	28.8	110.0	23.5	94.3	19.0	78.6	15.1	62.9	11.8	47.1	8.94
3.0	2.2	151.3	151.3	42.1	136.2	34.8	121.1	28.6	105.9	23.3	90.8	18.8	75.7	15.0	60.5	11.7	45.4	8.87
0.0	-0.7	142.4	142.4	41.6	128.2	34.4	113.9	28.2	99.7	23.0	85.4	18.6	71.2	14.8	57.0	11.6	42.7	8.77
-3.0	-3.7	133.2	133.2	41.1	119.9	34.0	106.6	27.9	93.2	22.7	79.9	18.4	66.6	14.6	53.3	11.5	40.0	8.66
-5.0	-5.6	127.4	127.4	40.8	114.6	33.7	101.9	27.7	89.2	22.6	76.4	18.2	63.7	14.5	50.9	11.4	38.2	8.59
-7.0	-7.6	121.2	121.2	40.5	109.1	33.4	97.0	27.4	84.9	22.4	72.7	18.1	60.6	14.4	48.5	11.3	36.4	8.52
-10	-10.5	112.3	112.3	40.0	101.1	33.0	89.8	27.1	78.6	22.1	67.4	17.8	56.2	14.2	44.9	11.1	33.7	8.41
-14.5	-15.0	98.5	98.5	39.2	88.6	32.4	78.8	26.6	68.9	21.7	59.1	17.5	49.2	14.0	39.4	10.9	29.5	8.25

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP5416HT8P-E (54HP, 151.5kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	141.0	141.0	56.0	126.9	44.3	112.8	34.6	98.7	26.6	84.6	20.1	70.5	14.8	56.4	10.6	42.3	7.06
39 ℃	143.3	143.3	55.1	128.9	43.7	114.6	34.1	100.3	26.2	86.0	19.8	71.6	14.6	57.3	10.4	43.0	6.96
37 ℃	147.5	147.5	53.5	132.8	42.3	118.0	33.1	103.3	25.5	88.5	19.2	73.8	14.2	59.0	10.1	44.3	6.75
35 ℃	151.5	151.5	51.8	136.3	41.0	121.2	32.0	106.0	24.6	90.9	18.6	75.7	13.7	60.6	9.77	45.4	6.53
33 ℃	151.5	151.5	47.5	136.4	37.7	121.2	29.5	106.1	22.8	90.9	17.3	75.8	12.8	60.6	9.13	45.5	6.12
31 ℃	151.5	151.5	43.7	136.4	34.8	121.2	27.3	106.1	21.2	90.9	16.1	75.8	11.9	60.6	8.55	45.5	5.74
30 ℃	151.5	151.5	42.0	136.4	33.5	121.2	26.3	106.1	20.4	90.9	15.5	75.8	11.5	60.6	8.28	45.5	5.56
29 ℃	151.5	151.5	40.4	136.4	32.2	121.2	25.4	106.1	19.7	90.9	15.0	75.8	11.2	60.6	8.02	45.5	5.39
27 ℃	151.5	151.5	37.4	136.4	29.9	121.2	23.6	106.1	18.4	90.9	14.0	75.8	10.5	60.6	7.53	45.5	5.07
25 ℃	151.5	151.5	34.8	136.4	27.8	121.2	22.0	106.1	17.1	90.9	13.1	75.8	9.82	60.6	7.08	45.5	4.77
23 ℃	151.5	151.5	33.1	136.4	26.5	121.2	21.0	106.1	16.4	90.9	12.6	75.8	9.42	60.6	6.80	45.5	4.58
21 ℃	151.5	151.5	32.2	136.4	25.9	121.2	20.5	106.1	16.0	90.9	12.3	75.8	9.25	60.6	6.68	45.5	4.51
20 ℃	151.5	151.5	31.9	136.4	25.6	121.2	20.3	106.1	15.9	90.9	12.2	75.8	9.17	60.6	6.63	45.5	4.48
19 ℃	151.5	151.5	31.5	136.4	25.3	121.2	20.1	106.1	15.8	90.9	12.1	75.8	9.10	60.6	6.59	45.5	4.45
17 ℃	151.5	151.5	30.9	136.4	24.9	121.2	19.8	106.1	15.5	90.9	11.9	75.8	8.98	60.6	6.50	45.5	4.39
15 ℃	151.5	151.5	30.4	136.4	24.5	121.2	19.5	106.1	15.3	90.9	11.8	75.8	8.87	60.6	6.43	45.5	4.35

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)														
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	164.0	164.0	35.4	147.6	29.7	131.2	24.7	114.8	20.5	98.4	16.8	82.0	13.7	65.6	10.9	49.2	8.30
13.0	11.8	164.0	164.0	37.0	147.6	30.9	131.2	25.6	114.8	21.2	98.4	17.3	82.0	14.0	65.6	11.1	49.2	8.47
11.0	9.8	164.0	164.0	38.8	147.6	32.3	131.2	26.7	114.8	22.0	98.4	17.9	82.0	14.4	65.6	11.4	49.2	8.67
9.0	7.9	164.0	164.0	40.8	147.6	33.7	131.2	27.8	114.8	22.8	98.4	18.5	82.0	14.9	65.6	11.7	49.2	8.86
7.0	6.0	164.0	164.0	42.9	147.6	35.4	131.2	29.0	114.8	23.7	98.4	19.1	82.0	15.3	65.6	12.0	49.2	9.08
5.0	4.1	158.1	158.1	42.6	142.3	35.1	126.5	28.8	110.7	23.5	94.9	19.0	79.1	15.2	63.2	11.9	47.4	9.01
3.0	2.2	152.3	152.3	42.2	137.0	34.8	121.8	28.6	106.6	23.3	91.4	18.9	76.1	15.1	60.9	11.8	45.7	8.94
0.0	-0.7	143.3	143.3	41.7	129.0	34.4	114.6	28.2	100.3	23.0	86.0	18.6	71.6	14.9	57.3	11.7	43.0	8.83
-3.0	-3.7	134.0	134.0	41.2	120.6	34.0	107.2	27.9	93.8	22.7	80.4	18.4	67.0	14.7	53.6	11.5	40.2	8.72
-5.0	-5.6	128.1	128.1	40.9	115.3	33.7	102.5	27.7	89.7	22.6	76.9	18.3	64.1	14.6	51.3	11.5	38.4	8.65
-7.0	-7.6	122.0	122.0	40.6	109.8	33.5	97.6	27.4	85.4	22.4	73.2	18.1	61.0	14.5	48.8	11.4	36.6	8.58
-10	-10.5	113.0	113.0	40.1	101.7	33.0	90.4	27.1	79.1	22.1	67.8	17.9	56.5	14.3	45.2	11.2	33.9	8.48
-14.5	-15.0	99.1	99.1	39.3	89.2	32.4	79.3	26.6	69.4	21.7	59.5	17.5	49.5	14.0	39.6	11.0	29.7	8.31

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP5616HT8P-E (56HP, 157.0kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	146.1	146.1	52.8	131.5	42.4	116.9	33.7	102.3	26.5	87.7	20.5	73.1	15.6	58.4	11.4	43.8	7.68
39 ℃	148.5	148.5	52.0	133.6	41.8	118.8	33.2	103.9	26.1	89.1	20.2	74.2	15.3	59.4	11.2	44.5	7.56
37 ℃	152.9	152.9	50.5	137.6	40.5	122.3	32.2	107.0	25.3	91.7	19.6	76.4	14.9	61.2	10.9	45.9	7.34
35 ℃	157.0	157.0	48.9	141.3	39.2	125.6	31.2	109.9	24.5	94.2	19.0	78.5	14.4	62.8	10.51	47.1	7.10
33 ℃	157.0	157.0	44.9	141.3	36.2	125.6	28.9	109.9	22.8	94.2	17.7	78.5	13.5	62.8	9.84	47.1	6.65
31 ℃	157.0	157.0	41.5	141.3	33.5	125.6	26.8	109.9	21.2	94.2	16.5	78.5	12.60	62.8	9.22	47.1	6.24
30 ℃	157.0	157.0	39.9	141.3	32.3	125.6	25.9	109.9	20.5	94.2	16.0	78.5	12.20	62.8	8.94	47.1	6.04
29 ℃	157.0	157.0	38.4	141.3	31.1	125.6	25.0	109.9	19.8	94.2	15.5	78.5	11.81	62.8	8.66	47.1	5.86
27 ℃	157.0	157.0	35.7	141.3	29.0	125.6	23.3	109.9	18.5	94.2	14.5	78.5	11.09	62.8	8.14	47.1	5.50
25 ℃	157.0	157.0	33.2	141.3	27.0	125.6	21.8	109.9	17.3	94.2	13.6	78.5	10.42	62.8	7.66	47.1	5.17
23 ℃	157.0	157.0	31.7	141.3	25.8	125.6	20.8	109.9	16.6	94.2	13.1	78.5	10.01	62.8	7.36	47.1	4.97
21 ℃	157.0	157.0	30.9	141.3	25.2	125.6	20.4	109.9	16.3	94.2	12.8	78.5	9.85	62.8	7.24	47.1	4.89
20 ℃	157.0	157.0	30.6	141.3	25.0	125.6	20.2	109.9	16.1	94.2	12.7	78.5	9.77	62.8	7.19	47.1	4.85
19 ℃	157.0	157.0	30.3	141.3	24.7	125.6	20.0	109.9	16.0	94.2	12.6	78.5	9.70	62.8	7.14	47.1	4.82
17 ℃	157.0	157.0	29.7	141.3	24.3	125.6	19.7	109.9	15.8	94.2	12.5	78.5	9.58	62.8	7.05	47.1	4.76
15 ℃	157.0	157.0	29.3	141.3	24.0	125.6	19.4	109.9	15.6	94.2	12.3	78.5	9.47	62.8	6.98	47.1	4.70

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	176.0	176.0	39.0	158.4	32.8	140.8	27.5	123.2	22.8	105.6	18.7	88.0	15.1	70.4	11.8	52.8	8.65
13.0	11.8	176.0	176.0	40.6	158.4	34.1	140.8	28.5	123.2	23.6	105.6	19.3	88.0	15.5	70.4	12.1	52.8	8.87
11.0	9.8	176.0	176.0	42.6	158.4	35.6	140.8	29.6	123.2	24.4	105.6	19.9	88.0	16.0	70.4	12.4	52.8	9.11
9.0	7.9	176.0	176.0	44.6	158.4	37.2	140.8	30.8	123.2	25.3	105.6	20.6	88.0	16.5	70.4	12.8	52.8	9.36
7.0	6.0	176.0	176.0	46.9	158.4	38.9	140.8	32.1	123.2	26.3	105.6	21.3	88.0	17.0	70.4	13.1	52.8	9.62
5.0	4.1	169.7	169.7	46.5	152.7	38.6	135.8	31.9	118.8	26.1	101.8	21.1	84.8	16.9	67.9	13.0	50.9	9.55
3.0	2.2	163.4	163.4	46.2	147.1	38.3	130.7	31.6	114.4	25.9	98.0	21.0	81.7	16.7	65.4	12.9	49.0	9.47
0.0	-0.7	153.8	153.8	45.6	138.4	37.9	123.0	31.3	107.6	25.6	92.3	20.7	76.9	16.5	61.5	12.8	46.1	9.36
-3.0	-3.7	143.8	143.8	45.1	129.4	37.4	115.1	30.9	100.7	25.3	86.3	20.5	71.9	16.3	57.5	12.6	43.1	9.25
-5.0	-5.6	137.5	137.5	44.7	123.8	37.1	110.0	30.6	96.3	25.1	82.5	20.3	68.8	16.2	55.0	12.5	41.3	9.17
-7.0	-7.6	130.9	130.9	44.3	117.8	36.8	104.7	30.4	91.6	24.9	78.5	20.2	65.4	16.1	52.4	12.4	39.3	9.10
-10	-10.5	121.3	121.3	43.8	109.1	36.4	97.0	30.0	84.9	24.6	72.8	19.9	60.6	15.9	48.5	12.3	36.4	8.99
-14.5	-15.0	106.3	106.3	43.0	95.7	35.7	85.1	29.4	74.4	24.1	63.8	19.5	53.2	15.6	42.5	12.0	31.9	8.81

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP5816HT8P-E (58HP, 162.5kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	151.2	151.2	59.2	136.1	47.1	121.0	36.9	105.9	28.6	90.7	21.7	75.6	16.2	60.5	11.6	45.4	7.79
39 ℃	153.7	153.7	58.3	138.3	46.4	122.9	36.4	107.6	28.2	92.2	21.4	76.8	15.9	61.5	11.4	46.1	7.67
37 ℃	158.2	158.2	56.6	142.4	45.0	126.6	35.3	110.8	27.3	94.9	20.8	79.1	15.4	63.3	11.1	47.5	7.44
35 ℃	162.5	162.5	54.8	146.2	43.5	130.0	34.2	113.7	26.4	97.5	20.1	81.2	14.9	65.0	10.7	48.7	7.20
33 ℃	162.5	162.5	50.3	146.3	40.1	130.0	31.5	113.8	24.5	97.5	18.7	81.3	13.9	65.0	10.0	48.8	6.75
31 ℃	162.5	162.5	46.3	146.3	37.0	130.0	29.2	113.8	22.7	97.5	17.4	81.3	13.0	65.0	9.39	48.8	6.33
30 ℃	162.5	162.5	44.5	146.3	35.6	130.0	28.1	113.8	21.9	97.5	16.8	81.3	12.6	65.0	9.10	48.8	6.13
29 ℃	162.5	162.5	42.8	146.3	34.3	130.0	27.1	113.8	21.2	97.5	16.3	81.3	12.2	65.0	8.81	48.8	5.95
27 ℃	162.5	162.5	39.7	146.3	31.9	130.0	25.3	113.8	19.8	97.5	15.2	81.3	11.4	65.0	8.28	48.8	5.59
25 ℃	162.5	162.5	36.9	146.3	29.7	130.0	23.6	113.8	18.5	97.5	14.2	81.3	10.7	65.0	7.78	48.8	5.26
23 ℃	162.5	162.5	35.1	146.3	28.3	130.0	22.5	113.8	17.7	97.5	13.6	81.3	10.3	65.0	7.48	48.8	5.06
21 ℃	162.5	162.5	34.2	146.3	27.6	130.0	22.0	113.8	17.3	97.5	13.4	81.3	10.1	65.0	7.35	48.8	4.98
20 ℃	162.5	162.5	33.9	146.3	27.3	130.0	21.8	113.8	17.1	97.5	13.3	81.3	10.0	65.0	7.30	48.8	4.94
19 ℃	162.5	162.5	33.5	146.3	27.0	130.0	21.6	113.8	17.0	97.5	13.2	81.3	9.96	65.0	7.25	48.8	4.91
17 ℃	162.5	162.5	32.9	146.3	26.6	130.0	21.2	113.8	16.7	97.5	13.0	81.3	9.83	65.0	7.16	48.8	4.85
15 ℃	162.5	162.5	32.3	146.3	26.1	130.0	20.9	113.8	16.5	97.5	12.8	81.3	9.71	65.0	7.08	48.8	4.80

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	177.0	177.0	39.0	159.3	32.8	141.6	27.5	123.9	22.8	106.2	18.8	88.5	15.2	70.8	11.8	53.1	8.70
13.0	11.8	177.0	177.0	40.7	159.3	34.1	141.6	28.5	123.9	23.6	106.2	19.3	88.5	15.6	70.8	12.2	53.1	8.92
11.0	9.8	177.0	177.0	42.6	159.3	35.6	141.6	29.6	123.9	24.4	106.2	20.0	88.5	16.1	70.8	12.5	53.1	9.17
9.0	7.9	177.0	177.0	44.7	159.3	37.2	141.6	30.8	123.9	25.3	106.2	20.6	88.5	16.5	70.8	12.9	53.1	9.42
7.0	6.0	177.0	177.0	47.0	159.3	38.9	141.6	32.1	123.9	26.3	106.2	21.4	88.5	17.1	70.8	13.2	53.1	9.69
5.0	4.1	170.7	170.7	46.6	153.6	38.6	136.5	31.9	119.5	26.1	102.4	21.2	85.3	16.9	68.3	13.1	51.2	9.61
3.0	2.2	164.3	164.3	46.3	147.9	38.4	131.5	31.6	115.0	25.9	98.6	21.0	82.2	16.8	65.7	13.0	49.3	9.54
0.0	-0.7	154.6	154.6	45.7	139.2	37.9	123.7	31.2	108.3	25.6	92.8	20.8	77.3	16.6	61.9	12.9	46.4	9.43
-3.0	-3.7	144.6	144.6	45.2	130.2	37.4	115.7	30.9	101.2	25.3	86.8	20.5	72.3	16.4	57.9	12.7	43.4	9.31
-5.0	-5.6	138.3	138.3	44.8	124.5	37.1	110.6	30.6	96.8	25.1	83.0	20.4	69.2	16.3	55.3	12.6	41.5	9.24
-7.0	-7.6	131.6	131.6	44.4	118.5	36.8	105.3	30.4	92.1	24.9	79.0	20.2	65.8	16.1	52.7	12.5	39.5	9.16
-10	-10.5	122.0	122.0	43.9	109.8	36.4	97.6	30.0	85.4	24.6	73.2	19.9	61.0	15.9	48.8	12.4	36.6	9.05
-14.5	-15.0	106.9	106.9	43.0	96.3	35.7	85.6	29.4	74.9	24.1	64.2	19.6	53.5	15.6	42.8	12.1	32.1	8.87

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP6016HT8P-E (60HP, 168kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	156.3	156.3	65.6	140.7	51.7	125.1	40.2	109.4	30.7	93.8	22.9	78.2	16.8	62.5	11.8	46.9	7.89
39 ℃	158.9	158.9	64.6	143.0	50.9	127.1	39.6	111.2	30.2	95.3	22.6	79.4	16.5	63.5	11.6	47.7	7.78
37 ℃	163.6	163.6	62.7	147.2	49.4	130.9	38.4	114.5	29.3	98.2	21.9	81.8	16.0	65.4	11.3	49.1	7.54
35 ℃	168.0	168.0	60.7	151.2	47.8	134.4	37.2	117.6	28.4	100.8	21.2	84.0	15.5	67.2	10.9	50.4	7.30
33 ℃	168.0	168.0	55.6	151.2	43.9	134.4	34.2	117.6	26.2	100.8	19.7	84.0	14.4	67.2	10.2	50.4	6.84
31 ℃	168.0	168.0	51.1	151.2	40.5	134.4	31.6	117.6	24.3	100.8	18.3	84.0	13.4	67.2	9.56	50.4	6.42
30 ℃	168.0	168.0	49.1	151.2	38.9	134.4	30.4	117.6	23.4	100.8	17.7	84.0	13.0	67.2	9.25	50.4	6.23
29 ℃	168.0	168.0	47.2	151.2	37.5	134.4	29.3	117.6	22.6	100.8	17.0	84.0	12.6	67.2	8.96	50.4	6.04
27 ℃	168.0	168.0	43.7	151.2	34.8	134.4	27.3	117.6	21.0	100.8	15.9	84.0	11.8	67.2	8.41	50.4	5.68
25 ℃	168.0	168.0	40.6	151.2	32.3	134.4	25.4	117.6	19.6	100.8	14.9	84.0	11.0	67.2	7.90	50.4	5.35
23 ℃	168.0	168.0	38.6	151.2	30.8	134.4	24.2	117.6	18.7	100.8	14.2	84.0	10.6	67.2	7.59	50.4	5.14
21 ℃	168.0	168.0	37.6	151.2	30.0	134.4	23.6	117.6	18.3	100.8	14.0	84.0	10.4	67.2	7.46	50.4	5.06
20 ℃	168.0	168.0	37.1	151.2	29.7	134.4	23.4	117.6	18.2	100.8	13.8	84.0	10.3	67.2	7.41	50.4	5.03
19 ℃	168.0	168.0	36.7	151.2	29.4	134.4	23.2	117.6	18.0	100.8	13.7	84.0	10.2	67.2	7.36	50.4	5.00
17 ℃	168.0	168.0	36.0	151.2	28.8	134.4	22.7	117.6	17.7	100.8	13.5	84.0	10.1	67.2	7.26	50.4	4.94
15 ℃	168.0	168.0	35.4	151.2	28.3	134.4	22.4	117.6	17.4	100.8	13.3	84.0	9.95	67.2	7.18	50.4	4.89

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	178.0	178.0	39.0	160.2	32.8	142.4	27.5	124.6	22.9	106.8	18.8	89.0	15.2	71.2	11.9	53.4	8.75
13.0	11.8	178.0	178.0	40.7	160.2	34.1	142.4	28.5	124.6	23.6	106.8	19.4	89.0	15.7	71.2	12.2	53.4	8.98
11.0	9.8	178.0	178.0	42.7	160.2	35.6	142.4	29.6	124.6	24.5	106.8	20.0	89.0	16.1	71.2	12.6	53.4	9.23
9.0	7.9	178.0	178.0	44.8	160.2	37.2	142.4	30.8	124.6	25.4	106.8	20.7	89.0	16.6	71.2	12.9	53.4	9.49
7.0	6.0	178.0	178.0	47.1	160.2	39.0	142.4	32.1	124.6	26.3	106.8	21.4	89.0	17.1	71.2	13.3	53.4	9.76
5.0	4.1	171.6	171.6	46.7	154.5	38.7	137.3	31.9	120.1	26.1	103.0	21.2	85.8	17.0	68.6	13.2	51.5	9.68
3.0	2.2	165.2	165.2	46.4	148.7	38.4	132.2	31.6	115.7	25.9	99.1	21.1	82.6	16.9	66.1	13.1	49.6	9.61
0.0	-0.7	155.5	155.5	45.8	140.0	37.9	124.4	31.2	108.9	25.6	93.3	20.8	77.8	16.7	62.2	13.0	46.7	9.49
-3.0	-3.7	145.5	145.5	45.3	130.9	37.5	116.4	30.9	101.8	25.3	87.3	20.6	72.7	16.5	58.2	12.8	43.6	9.38
-5.0	-5.6	139.1	139.1	44.9	125.2	37.2	111.3	30.6	97.4	25.1	83.4	20.4	69.5	16.3	55.6	12.7	41.7	9.30
-7.0	-7.6	132.4	132.4	44.5	119.1	36.8	105.9	30.4	92.7	24.9	79.4	20.2	66.2	16.2	52.9	12.6	39.7	9.22
-10	-10.5	122.6	122.6	44.0	110.4	36.4	98.1	30.0	85.9	24.6	73.6	20.0	61.3	16.0	49.1	12.4	36.8	9.11
-14.5	-15.0	107.5	107.5	43.1	96.8	35.7	86.0	29.4	75.3	24.1	64.5	19.6	53.8	15.7	43.0	12.2	32.3	8.94

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP2026HT8P-E (20HP, 56kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	52.1	52.1	16.6	46.9	13.5	41.7	10.8	36.5	8.47	31.3	6.48	26.1	4.87	20.8	3.63	15.6	2.77
39 ℃	53.0	53.0	16.4	47.7	13.3	42.4	10.7	37.1	8.34	31.8	6.39	26.5	4.80	21.2	3.58	15.9	2.73
37 ℃	54.5	54.5	15.9	49.1	12.9	43.6	10.3	38.2	8.09	32.7	6.19	27.3	4.65	21.8	3.47	16.4	2.65
35 ℃	56.0	56.0	15.4	50.4	12.5	44.8	10.0	39.2	7.84	33.6	6.00	28.0	4.50	22.4	3.36	16.8	2.57
33 ℃	56.0	56.0	14.2	50.4	11.6	44.8	9.27	39.2	7.26	33.6	5.58	28.0	4.21	22.4	3.16	16.8	2.44
31 ℃	56.0	56.0	13.1	50.4	10.7	44.8	8.60	39.2	6.75	33.6	5.20	28.0	3.94	22.4	2.98	16.8	2.32
30 ℃	56.0	56.0	12.7	50.4	10.3	44.8	8.29	39.2	6.52	33.6	5.03	28.0	3.82	22.4	2.90	16.8	2.27
29 ℃	56.0	56.0	12.2	50.4	10.0	44.8	8.00	39.2	6.30	33.6	4.86	28.0	3.70	22.4	2.82	16.8	2.21
27 ℃	56.0	56.0	11.4	50.4	9.29	44.8	7.46	39.2	5.88	33.6	4.55	28.0	3.48	22.4	2.66	16.8	2.11
25 ℃	56.0	56.0	10.6	50.4	8.67	44.8	6.97	39.2	5.50	33.6	4.27	28.0	3.27	22.4	2.52	16.8	2.00
23 ℃	56.0	56.0	10.1	50.4	8.27	44.8	6.66	39.2	5.26	33.6	4.09	28.0	3.15	22.4	2.43	16.8	1.95
21 ℃	56.0	56.0	9.88	50.4	8.09	44.8	6.52	39.2	5.16	33.6	4.02	28.0	3.10	22.4	2.40	16.8	1.93
20 ℃	56.0	56.0	9.78	50.4	8.01	44.8	6.45	39.2	5.11	33.6	3.98	28.0	3.08	22.4	2.39	16.8	1.93
19 ℃	56.0	56.0	9.69	50.4	7.94	44.8	6.39	39.2	5.07	33.6	3.95	28.0	3.06	22.4	2.38	16.8	1.92
17 ℃	56.0	56.0	9.52	50.4	7.80	44.8	6.29	39.2	4.99	33.6	3.90	28.0	3.02	22.4	2.36	16.8	1.91
15 ℃	56.0	56.0	9.38	50.4	7.69	44.8	6.20	39.2	4.92	33.6	3.85	28.0	2.99	22.4	2.34	16.8	1.90

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	63.0	63.0	12.0	56.7	9.91	50.4	8.25	44.1	6.89	37.8	5.75	31.5	4.75	25.2	3.81	18.9	2.84
13.0	11.8	63.0	63.0	12.5	56.7	10.3	50.4	8.55	44.1	7.10	37.8	5.90	31.5	4.87	25.2	3.90	18.9	2.91
11.0	9.8	63.0	63.0	13.2	56.7	10.8	50.4	8.90	44.1	7.35	37.8	6.08	31.5	4.99	25.2	4.00	18.9	2.99
9.0	7.9	63.0	63.0	14.0	56.7	11.4	50.4	9.28	44.1	7.61	37.8	6.26	31.5	5.12	25.2	4.09	18.9	3.07
7.0	6.0	63.0	63.0	14.8	56.7	12.0	50.4	9.70	44.1	7.90	37.8	6.46	31.5	5.27	25.2	4.20	18.9	3.15
5.0	4.1	61.0	61.0	14.7	54.9	11.9	48.8	9.64	42.7	7.85	36.6	6.42	30.5	5.24	24.4	4.18	18.3	3.13
3.0	2.2	58.9	58.9	14.6	53.1	11.8	47.2	9.58	41.3	7.81	35.4	6.39	29.5	5.21	23.6	4.15	17.7	3.11
0.0	-0.7	55.9	55.9	14.5	50.3	11.7	44.7	9.50	39.1	7.74	33.5	6.33	27.9	5.16	22.3	4.12	16.8	3.09
-3.0	-3.7	52.7	52.7	14.4	47.4	11.6	42.1	9.41	36.9	7.67	31.6	6.27	26.3	5.11	21.1	4.08	15.8	3.06
-5.0	-5.6	50.6	50.6	14.3	45.6	11.5	40.5	9.36	35.4	7.62	30.4	6.24	25.3	5.08	20.3	4.05	15.2	3.04
-7.0	-7.6	48.5	48.5	14.2	43.6	11.5	38.8	9.30	33.9	7.58	29.1	6.20	24.2	5.05	19.4	4.03	14.5	3.02
-10	-10.5	45.4	45.4	14.1	40.9	11.4	36.3	9.21	31.8	7.51	27.2	6.14	22.7	5.00	18.2	3.99	13.6	2.99
-14.5	-15.0	40.6	40.6	13.9	36.5	11.2	32.5	9.08	28.4	7.40	24.4	6.05	20.3	4.93	16.2	3.94	12.2	2.95

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP2226HT8P-E (22HP, 61.5kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	57.2	57.2	19.1	51.5	15.4	45.8	12.3	40.1	9.58	34.3	7.35	28.6	5.52	22.9	4.06	17.2	2.92
39 ℃	58.2	58.2	18.8	52.3	15.2	46.5	12.1	40.7	9.44	34.9	7.24	29.1	5.44	23.3	4.00	17.4	2.88
37 ℃	59.9	59.9	18.3	53.9	14.7	47.9	11.7	41.9	9.16	35.9	7.02	29.9	5.28	24.0	3.88	18.0	2.79
35 ℃	61.5	61.5	17.7	55.3	14.3	49.2	11.3	43.0	8.87	36.9	6.80	30.7	5.11	24.6	3.76	18.4	2.71
33 ℃	61.5	61.5	16.3	55.4	13.2	49.2	10.5	43.1	8.22	36.9	6.33	30.8	4.77	24.6	3.53	18.5	2.55
31 ℃	61.5	61.5	15.1	55.4	12.2	49.2	9.73	43.1	7.64	36.9	5.90	30.8	4.47	24.6	3.31	18.5	2.42
30 ℃	61.5	61.5	14.5	55.4	11.7	49.2	9.38	43.1	7.38	36.9	5.70	30.8	4.32	24.6	3.22	18.5	2.35
29 ℃	61.5	61.5	14.0	55.4	11.3	49.2	9.05	43.1	7.13	36.9	5.52	30.8	4.19	24.6	3.12	18.5	2.29
27 ℃	61.5	61.5	13.0	55.4	10.5	49.2	8.44	43.1	6.66	36.9	5.16	30.8	3.93	24.6	2.94	18.5	2.16
25 ℃	61.5	61.5	12.1	55.4	9.83	49.2	7.88	43.1	6.23	36.9	4.84	30.8	3.70	24.6	2.77	18.5	2.05
23 ℃	61.5	61.5	11.5	55.4	9.38	49.2	7.53	43.1	5.96	36.9	4.64	30.8	3.55	24.6	2.67	18.5	1.98
21 ℃	61.5	61.5	11.2	55.4	9.17	49.2	7.37	43.1	5.84	36.9	4.56	30.8	3.50	24.6	2.64	18.5	1.96
20 ℃	61.5	61.5	11.1	55.4	9.07	49.2	7.30	43.1	5.79	36.9	4.52	30.8	3.47	24.6	2.62	18.5	1.95
19 ℃	61.5	61.5	11.0	55.4	8.99	49.2	7.23	43.1	5.74	36.9	4.48	30.8	3.45	24.6	2.60	18.5	1.94
17 ℃	61.5	61.5	10.8	55.4	8.83	49.2	7.12	43.1	5.65	36.9	4.42	30.8	3.40	24.6	2.58	18.5	1.92
15 ℃	61.5	61.5	10.7	55.4	8.70	49.2	7.02	43.1	5.58	36.9	4.37	30.8	3.37	24.6	2.55	18.5	1.91

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	69.0	69.0	13.9	62.1	11.6	55.2	9.66	48.3	8.05	41.4	6.68	34.5	5.46	27.6	4.30	20.7	3.12
13.0	11.8	69.0	69.0	14.6	62.1	12.1	55.2	10.0	48.3	8.31	41.4	6.87	34.5	5.60	27.6	4.41	20.7	3.21
11.0	9.8	69.0	69.0	15.3	62.1	12.6	55.2	10.4	48.3	8.60	41.4	7.08	34.5	5.76	27.6	4.53	20.7	3.31
9.0	7.9	69.0	69.0	16.1	62.1	13.2	55.2	10.8	48.3	8.91	41.4	7.30	34.5	5.92	27.6	4.65	20.7	3.40
7.0	6.0	69.0	69.0	17.1	62.1	13.9	55.2	11.3	48.3	9.25	41.4	7.54	34.5	6.09	27.6	4.78	20.7	3.50
5.0	4.1	66.6	66.6	16.9	60.0	13.8	53.3	11.2	46.6	9.19	40.0	7.49	33.3	6.05	26.7	4.75	20.0	3.48
3.0	2.2	64.3	64.3	16.8	57.9	13.7	51.4	11.2	45.0	9.12	38.6	7.44	32.1	6.01	25.7	4.72	19.3	3.46
0.0	-0.7	60.7	60.7	16.6	54.6	13.6	48.6	11.1	42.5	9.03	36.4	7.36	30.3	5.95	24.3	4.67	18.2	3.42
-3.0	-3.7	57.0	57.0	16.5	51.3	13.4	45.6	10.9	39.9	8.93	34.2	7.28	28.5	5.88	22.8	4.62	17.1	3.38
-5.0	-5.6	54.6	54.6	16.4	49.2	13.3	43.7	10.9	38.2	8.87	32.8	7.23	27.3	5.84	21.8	4.59	16.4	3.36
-7.0	-7.6	52.1	52.1	16.2	46.9	13.2	41.7	10.8	36.5	8.80	31.3	7.18	26.1	5.80	20.9	4.55	15.6	3.33
-10	-10.5	48.5	48.5	16.1	43.7	13.1	38.8	10.7	34.0	8.70	29.1	7.10	24.3	5.73	19.4	4.50	14.6	3.30
-14.5	-15.0	43.0	43.0	15.8	38.7	12.8	34.4	10.5	30.1	8.55	25.8	6.98	21.5	5.64	17.2	4.43	12.9	3.24

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP3626HT8P-E (36HP, 100.5kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	93.5	93.5	32.4	84.2	26.0	74.8	20.5	65.5	16.0	56.1	12.3	46.8	9.26	37.4	6.73	28.1	4.61
39 ℃	95.0	95.0	31.9	85.5	25.6	76.0	20.2	66.5	15.8	57.0	12.1	47.5	9.12	38.0	6.63	28.5	4.54
37 ℃	97.9	97.9	31.0	88.1	24.8	78.3	19.6	68.5	15.3	58.7	11.8	48.9	8.85	39.1	6.43	29.4	4.41
35 ℃	100.5	100.5	30.0	90.4	24.0	80.4	19.0	70.3	14.8	60.3	11.4	50.2	8.57	40.2	6.23	30.1	4.27
33 ℃	100.5	100.5	27.6	90.5	22.1	80.4	17.6	70.4	13.8	60.3	10.6	50.3	8.00	40.2	5.83	30.2	4.00
31 ℃	100.5	100.5	25.4	90.5	20.5	80.4	16.3	70.4	12.8	60.3	9.90	50.3	7.48	40.2	5.47	30.2	3.76
30 ℃	100.5	100.5	24.5	90.5	19.7	80.4	15.7	70.4	12.4	60.3	9.57	50.3	7.24	40.2	5.30	30.2	3.65
29 ℃	100.5	100.5	23.6	90.5	19.0	80.4	15.2	70.4	11.9	60.3	9.25	50.3	7.01	40.2	5.14	30.2	3.54
27 ℃	100.5	100.5	21.9	90.5	17.7	80.4	14.1	70.4	11.2	60.3	8.66	50.3	6.58	40.2	4.83	30.2	3.33
25 ℃	100.5	100.5	20.3	90.5	16.5	80.4	13.2	70.4	10.4	60.3	8.12	50.3	6.18	40.2	4.55	30.2	3.14
23 ℃	100.5	100.5	19.4	90.5	15.7	80.4	12.6	70.4	10.0	60.3	7.79	50.3	5.94	40.2	4.37	30.2	3.02
21 ℃	100.5	100.5	18.9	90.5	15.4	80.4	12.3	70.4	9.79	60.3	7.65	50.3	5.84	40.2	4.30	30.2	2.98
20 ℃	100.5	100.5	18.7	90.5	15.2	80.4	12.2	70.4	9.70	60.3	7.58	50.3	5.79	40.2	4.27	30.2	2.96
19 ℃	100.5	100.5	18.5	90.5	15.1	80.4	12.1	70.4	9.62	60.3	7.52	50.3	5.75	40.2	4.25	30.2	2.94
17 ℃	100.5	100.5	18.2	90.5	14.8	80.4	11.9	70.4	9.48	60.3	7.42	50.3	5.68	40.2	4.19	30.2	2.90
15 ℃	100.5	100.5	17.9	90.5	14.6	80.4	11.7	70.4	9.35	60.3	7.33	50.3	5.62	40.2	4.15	30.2	2.88

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	112.5	112.5	23.7	101.3	19.9	90.0	16.6	78.8	13.8	67.5	11.4	56.3	9.24	45.0	7.18	33.8	5.11
13.0	11.8	112.5	112.5	24.8	101.3	20.7	90.0	17.2	78.8	14.3	67.5	11.7	56.3	9.50	45.0	7.38	33.8	5.26
11.0	9.8	112.5	112.5	26.1	101.3	21.6	90.0	17.9	78.8	14.8	67.5	12.1	56.3	9.78	45.0	7.60	33.8	5.43
9.0	7.9	112.5	112.5	27.4	101.3	22.6	90.0	18.6	78.8	15.3	67.5	12.5	56.3	10.1	45.0	7.82	33.8	5.60
7.0	6.0	112.5	112.5	28.9	101.3	23.7	90.0	19.4	78.8	15.9	67.5	12.9	56.3	10.4	45.0	8.05	33.8	5.78
5.0	4.1	108.5	108.5	28.7	97.6	23.6	86.8	19.3	75.9	15.8	65.1	12.8	54.2	10.3	43.4	7.99	32.5	5.74
3.0	2.2	104.4	104.4	28.5	94.0	23.4	83.6	19.1	73.1	15.7	62.7	12.7	52.2	10.2	41.8	7.93	31.3	5.70
0.0	-0.7	98.3	98.3	28.2	88.5	23.1	78.6	18.9	68.8	15.5	59.0	12.6	49.1	10.1	39.3	7.84	29.5	5.63
-3.0	-3.7	91.9	91.9	27.8	82.7	22.8	73.5	18.7	64.4	15.3	55.2	12.4	46.0	10.0	36.8	7.74	27.6	5.56
-5.0	-5.6	87.9	87.9	27.6	79.1	22.6	70.3	18.5	61.5	15.2	52.7	12.3	44.0	9.90	35.2	7.68	26.4	5.52
-7.0	-7.6	83.7	83.7	27.4	75.3	22.4	66.9	18.4	58.6	15.0	50.2	12.2	41.8	9.81	33.5	7.61	25.1	5.47
-10	-10.5	77.5	77.5	27.0	69.8	22.2	62.0	18.2	54.3	14.8	46.5	12.1	38.8	9.69	31.0	7.52	23.3	5.40
-14.5	-15.0	68.0	68.0	26.5	61.2	21.7	54.4	17.8	47.6	14.6	40.8	11.9	34.0	9.51	27.2	7.38	20.4	5.30

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP3826HT8P-E (38HP, 107kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	99.6	99.6	34.9	89.6	27.8	79.7	21.9	69.7	17.1	59.7	13.2	49.8	10.0	39.8	7.31	29.9	5.03
39 ℃	101.2	101.2	34.4	91.1	27.4	80.9	21.6	70.8	16.8	60.7	13.0	50.6	9.82	40.5	7.20	30.4	4.95
37 ℃	104.2	104.2	33.3	93.8	26.5	83.4	20.9	72.9	16.3	62.5	12.6	52.1	9.52	41.7	6.98	31.3	4.80
35 ℃	107.0	107.0	32.3	96.3	25.7	85.6	20.3	74.9	15.8	64.2	12.2	53.5	9.22	42.8	6.76	32.1	4.65
33 ℃	107.0	107.0	29.6	96.3	23.7	85.6	18.7	74.9	14.7	64.2	11.3	53.5	8.62	42.8	6.34	32.1	4.36
31 ℃	107.0	107.0	27.3	96.3	21.9	85.6	17.4	74.9	13.6	64.2	10.6	53.5	8.07	42.8	5.95	32.1	4.10
30 ℃	107.0	107.0	26.2	96.3	21.1	85.6	16.7	74.9	13.2	64.2	10.2	53.5	7.81	42.8	5.77	32.1	3.97
29 ℃	107.0	107.0	25.3	96.3	20.3	85.6	16.1	74.9	12.7	64.2	9.91	53.5	7.57	42.8	5.59	32.1	3.85
27 ℃	107.0	107.0	23.4	96.3	18.9	85.6	15.1	74.9	11.9	64.2	9.29	53.5	7.11	42.8	5.26	32.1	3.63
25 ℃	107.0	107.0	21.8	96.3	17.6	85.6	14.1	74.9	11.1	64.2	8.71	53.5	6.68	42.8	4.95	32.1	3.41
23 ℃	107.0	107.0	20.7	96.3	16.8	85.6	13.4	74.9	10.7	64.2	8.36	53.5	6.42	42.8	4.76	32.1	3.28
21 ℃	107.0	107.0	20.2	96.3	16.4	85.6	13.1	74.9	10.5	64.2	8.21	53.5	6.32	42.8	4.69	32.1	3.23
20 ℃	107.0	107.0	20.0	96.3	16.2	85.6	13.0	74.9	10.4	64.2	8.14	53.5	6.27	42.8	4.66	32.1	3.21
19 ℃	107.0	107.0	19.8	96.3	16.0	85.6	12.9	74.9	10.3	64.2	8.08	53.5	6.23	42.8	4.62	32.1	3.19
17 ℃	107.0	107.0	19.4	96.3	15.8	85.6	12.7	74.9	10.1	64.2	7.97	53.5	6.15	42.8	4.57	32.1	3.15
15 ℃	107.0	107.0	19.1	96.3	15.5	85.6	12.5	74.9	10.0	64.2	7.88	53.5	6.08	42.8	4.52	32.1	3.12

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	120.0	120.0	24.9	108.0	20.7	96.0	17.3	84.0	14.3	72.0	11.9	60.0	9.69	48.0	7.68	36.0	5.71
13.0	11.8	120.0	120.0	26.1	108.0	21.6	96.0	17.9	84.0	14.8	72.0	12.2	60.0	9.94	48.0	7.87	36.0	5.85
11.0	9.8	120.0	120.0	27.4	108.0	22.6	96.0	18.6	84.0	15.3	72.0	12.6	60.0	10.2	48.0	8.08	36.0	6.01
9.0	7.9	120.0	120.0	28.9	108.0	23.7	96.0	19.4	84.0	15.9	72.0	13.0	60.0	10.5	48.0	8.29	36.0	6.17
7.0	6.0	120.0	120.0	30.5	108.0	24.9	96.0	20.3	84.0	16.5	72.0	13.4	60.0	10.8	48.0	8.51	36.0	6.34
5.0	4.1	115.9	115.9	30.3	104.3	24.7	92.7	20.1	81.1	16.4	69.5	13.3	57.9	10.7	46.3	8.45	34.8	6.29
3.0	2.2	111.7	111.7	30.1	100.6	24.5	89.4	20.0	78.2	16.3	67.0	13.2	55.9	10.7	44.7	8.39	33.5	6.25
0.0	-0.7	105.4	105.4	29.8	94.9	24.3	84.3	19.8	73.8	16.1	63.3	13.1	52.7	10.6	42.2	8.30	31.6	6.18
-3.0	-3.7	98.9	98.9	29.4	89.0	24.0	79.1	19.6	69.2	15.9	59.3	12.9	49.4	10.4	39.6	8.21	29.7	6.11
-5.0	-5.6	94.8	94.8	29.2	85.3	23.8	75.8	19.4	66.3	15.8	56.9	12.9	47.4	10.4	37.9	8.15	28.4	6.07
-7.0	-7.6	90.4	90.4	29.0	81.4	23.6	72.3	19.3	63.3	15.7	54.2	12.8	45.2	10.3	36.2	8.09	27.1	6.03
-10	-10.5	84.1	84.1	28.7	75.7	23.4	67.3	19.1	58.9	15.5	50.5	12.6	42.1	10.2	33.6	8.00	25.2	5.96
-14.5	-15.0	74.3	74.3	28.2	66.9	23.0	59.5	18.7	52.0	15.3	44.6	12.4	37.2	10.0	29.7	7.86	22.3	5.86

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP4026HT8P-E (40HP, 113.5kW system)

Cooling

Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)															
		100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	105.6	105.6	37.4	95.1	29.6	84.5	23.3	73.9	18.1	63.4	14.0	52.8	10.7	42.3	7.89	31.7	5.44
39 ℃	107.3	107.3	36.8	96.6	29.2	85.9	22.9	75.1	17.9	64.4	13.8	53.7	10.5	42.9	7.77	32.2	5.36
37 ℃	110.5	110.5	35.7	99.5	28.3	88.4	22.2	77.4	17.3	66.3	13.4	55.3	10.2	44.2	7.53	33.2	5.20
35 ℃	113.5	113.5	34.6	102.1	27.4	90.8	21.5	79.4	16.8	68.1	13.0	56.7	9.87	45.4	7.30	34.0	5.03
33 ℃	113.5	113.5	31.7	102.2	25.2	90.8	19.9	79.5	15.6	68.1	12.1	56.8	9.23	45.4	6.84	34.1	4.72
31 ℃	113.5	113.5	29.2	102.2	23.3	90.8	18.4	79.5	14.5	68.1	11.3	56.8	8.65	45.4	6.42	34.1	4.43
30 ℃	113.5	113.5	28.0	102.2	22.4	90.8	17.8	79.5	14.0	68.1	10.9	56.8	8.38	45.4	6.23	34.1	4.30
29 ℃	113.5	113.5	27.0	102.2	21.6	90.8	17.1	79.5	13.5	68.1	10.6	56.8	8.12	45.4	6.04	34.1	4.17
27 ℃	113.5	113.5	25.0	102.2	20.0	90.8	16.0	79.5	12.6	68.1	9.91	56.8	7.63	45.4	5.68	34.1	3.92
25 ℃	113.5	113.5	23.2	102.2	18.7	90.8	14.9	79.5	11.8	68.1	9.30	56.8	7.18	45.4	5.35	34.1	3.69
23 ℃	113.5	113.5	22.1	102.2	17.8	90.8	14.3	79.5	11.3	68.1	8.92	56.8	6.90	45.4	5.15	34.1	3.55
21 ℃	113.5	113.5	21.5	102.2	17.4	90.8	14.0	79.5	11.1	68.1	8.77	56.8	6.79	45.4	5.07	34.1	3.49
20 ℃	113.5	113.5	21.3	102.2	17.2	90.8	13.8	79.5	11.0	68.1	8.70	56.8	6.74	45.4	5.04	34.1	3.47
19 ℃	113.5	113.5	21.1	102.2	17.0	90.8	13.7	79.5	10.9	68.1	8.64	56.8	6.70	45.4	5.00	34.1	3.44
17 ℃	113.5	113.5	20.7	102.2	16.7	90.8	13.5	79.5	10.8	68.1	8.52	56.8	6.62	45.4	4.95	34.1	3.40
15 ℃	113.5	113.5	20.3	102.2	16.5	90.8	13.3	79.5	10.6	68.1	8.42	56.8	6.55	45.4	4.89	34.1	3.37

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating

Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	Compressor + Oudoor Fan Power consumption (kW)														
Dry-Bulb (℃)	Wet-Bulb (℃)		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
			TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	127.5	127.5	26.0	114.8	21.6	102.0	17.9	89.3	14.9	76.5	12.3	63.8	10.1	51.0	8.18	38.3	6.32
13.0	11.8	127.5	127.5	27.3	114.8	22.5	102.0	18.6	89.3	15.3	76.5	12.7	63.8	10.4	51.0	8.35	38.3	6.45
11.0	9.8	127.5	127.5	28.7	114.8	23.6	102.0	19.4	89.3	15.9	76.5	13.1	63.8	10.7	51.0	8.55	38.3	6.59
9.0	7.9	127.5	127.5	30.3	114.8	24.7	102.0	20.2	89.3	16.5	76.5	13.5	63.8	10.9	51.0	8.75	38.3	6.74
7.0	6.0	127.5	127.5	32.0	114.8	26.0	102.0	21.1	89.3	17.1	76.5	13.9	63.8	11.3	51.0	8.97	38.3	6.89
5.0	4.1	123.3	123.3	31.8	110.9	25.9	98.6	21.0	86.3	17.0	74.0	13.8	61.6	11.2	49.3	8.91	37.0	6.85
3.0	2.2	119.0	119.0	31.6	107.1	25.7	95.2	20.8	83.3	16.9	71.4	13.7	59.5	11.1	47.6	8.86	35.7	6.80
0.0	-0.7	112.6	112.6	31.3	101.3	25.4	90.0	20.6	78.8	16.8	67.5	13.6	56.3	11.0	45.0	8.77	33.8	6.74
-3.0	-3.7	105.9	105.9	31.0	95.3	25.2	84.7	20.4	74.1	16.6	63.5	13.5	52.9	10.9	42.3	8.68	31.8	6.67
-5.0	-5.6	101.6	101.6	30.8	91.5	25.0	81.3	20.3	71.1	16.5	61.0	13.4	50.8	10.8	40.7	8.63	30.5	6.63
-7.0	-7.6	97.2	97.2	30.6	87.5	24.8	77.7	20.2	68.0	16.4	58.3	13.3	48.6	10.7	38.9	8.57	29.2	6.58
-10	-10.5	90.7	90.7	30.3	81.6	24.6	72.6	20.0	63.5	16.2	54.4	13.2	45.4	10.6	36.3	8.48	27.2	6.52
-14.5	-15.0	80.7	80.7	29.8	72.6	24.2	64.5	19.6	56.5	15.9	48.4	12.9	40.3	10.5	32.3	8.35	24.2	6.41

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP4226HT8P-E (42HP, 120kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	111.7	111.7	39.9	100.5	31.4	89.3	24.6	78.2	19.2	67.0	14.9	55.8	11.4	44.7	8.46	33.5	5.85
39 ℃	113.5	113.5	39.3	102.1	31.0	90.8	24.3	79.4	18.9	68.1	14.6	56.7	11.2	45.4	8.34	34.0	5.77
37 ℃	116.9	116.9	38.1	105.2	30.0	93.5	23.5	81.8	18.3	70.1	14.2	58.4	10.9	46.7	8.08	35.1	5.59
35 ℃	120.0	120.0	36.9	108.0	29.1	96.0	22.8	84.0	17.8	72.0	13.8	60.0	10.5	48.0	7.83	36.0	5.42
33 ℃	120.0	120.0	33.8	108.0	26.7	96.0	21.0	84.0	16.5	72.0	12.8	60.0	9.85	48.0	7.34	36.0	5.08
31 ℃	120.0	120.0	31.0	108.0	24.7	96.0	19.5	84.0	15.3	72.0	12.0	60.0	9.24	48.0	6.90	36.0	4.77
30 ℃	120.0	120.0	29.8	108.0	23.7	96.0	18.8	84.0	14.8	72.0	11.6	60.0	8.95	48.0	6.69	36.0	4.62
29 ℃	120.0	120.0	28.7	108.0	22.8	96.0	18.1	84.0	14.3	72.0	11.2	60.0	8.68	48.0	6.49	36.0	4.48
27 ℃	120.0	120.0	26.5	108.0	21.2	96.0	16.9	84.0	13.4	72.0	10.5	60.0	8.16	48.0	6.11	36.0	4.21
25 ℃	120.0	120.0	24.7	108.0	19.8	96.0	15.8	84.0	12.5	72.0	9.89	60.0	7.68	48.0	5.75	36.0	3.96
23 ℃	120.0	120.0	23.4	108.0	18.8	96.0	15.1	84.0	12.0	72.0	9.49	60.0	7.38	48.0	5.54	36.0	3.81
21 ℃	120.0	120.0	22.8	108.0	18.4	96.0	14.8	84.0	11.8	72.0	9.33	60.0	7.27	48.0	5.45	36.0	3.75
20 ℃	120.0	120.0	22.6	108.0	18.2	96.0	14.6	84.0	11.7	72.0	9.26	60.0	7.22	48.0	5.42	36.0	3.72
19 ℃	120.0	120.0	22.3	108.0	18.0	96.0	14.5	84.0	11.6	72.0	9.19	60.0	7.17	48.0	5.38	36.0	3.70
17 ℃	120.0	120.0	21.9	108.0	17.7	96.0	14.3	84.0	11.4	72.0	9.07	60.0	7.08	48.0	5.32	36.0	3.65
15 ℃	120.0	120.0	21.6	108.0	17.4	96.0	14.1	84.0	11.3	72.0	8.97	60.0	7.01	48.0	5.27	36.0	3.61

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	135.0	135.0	27.2	121.5	22.4	108.0	18.6	94.5	15.4	81.0	12.8	67.5	10.6	54.0	8.67	40.5	6.92
13.0	11.8	135.0	135.0	28.5	121.5	23.4	108.0	19.3	94.5	15.9	81.0	13.1	67.5	10.8	54.0	8.84	40.5	7.04
11.0	9.8	135.0	135.0	30.1	121.5	24.6	108.0	20.1	94.5	16.5	81.0	13.5	67.5	11.1	54.0	9.03	40.5	7.17
9.0	7.9	135.0	135.0	31.7	121.5	25.8	108.0	21.0	94.5	17.1	81.0	13.9	67.5	11.4	54.0	9.22	40.5	7.30
7.0	6.0	135.0	135.0	33.6	121.5	27.2	108.0	21.9	94.5	17.8	81.0	14.4	67.5	11.7	54.0	9.43	40.5	7.44
5.0	4.1	130.7	130.7	33.4	117.6	27.0	104.5	21.8	91.5	17.7	78.4	14.3	65.3	11.6	52.3	9.38	39.2	7.40
3.0	2.2	126.3	126.3	33.2	113.7	26.9	101.0	21.7	88.4	17.6	75.8	14.2	63.2	11.6	50.5	9.32	37.9	7.36
0.0	-0.7	119.7	119.7	32.9	107.7	26.6	95.7	21.5	83.8	17.4	71.8	14.1	59.8	11.5	47.9	9.24	35.9	7.29
-3.0	-3.7	112.8	112.8	32.6	101.5	26.4	90.3	21.3	79.0	17.2	67.7	14.0	56.4	11.3	45.1	9.16	33.8	7.22
-5.0	-5.6	108.5	108.5	32.4	97.6	26.2	86.8	21.2	75.9	17.1	65.1	13.9	54.2	11.3	43.4	9.10	32.5	7.18
-7.0	-7.6	103.9	103.9	32.2	93.5	26.1	83.1	21.1	72.7	17.0	62.4	13.8	52.0	11.2	41.6	9.05	31.2	7.14
-10	-10.5	97.3	97.3	31.9	87.6	25.8	77.8	20.9	68.1	16.9	58.4	13.7	48.6	11.1	38.9	8.96	29.2	7.07
-14.5	-15.0	87.0	87.0	31.5	78.3	25.4	69.6	20.6	60.9	16.6	52.2	13.5	43.5	10.9	34.8	8.84	26.1	6.97

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP4426HT8P-E (44HP, 125kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	116.3	116.3	42.0	104.7	33.3	93.1	26.1	81.4	20.3	69.8	15.7	58.2	11.9	46.5	8.74	34.9	5.98
39 ℃	118.2	118.2	41.4	106.4	32.8	94.6	25.7	82.7	20.0	70.9	15.4	59.1	11.7	47.3	8.62	35.5	5.89
37 ℃	121.7	121.7	40.2	109.6	31.8	97.4	24.9	85.2	19.4	73.0	15.0	60.9	11.4	48.7	8.35	36.5	5.71
35 ℃	125.0	125.0	38.9	112.5	30.8	100.0	24.2	87.5	18.8	75.0	14.5	62.5	11.0	50.0	8.09	37.5	5.53
33 ℃	125.0	125.0	35.6	112.5	28.3	100.0	22.3	87.5	17.4	75.0	13.5	62.5	10.3	50.0	7.58	37.5	5.18
31 ℃	125.0	125.0	32.8	112.5	26.1	100.0	20.7	87.5	16.2	75.0	12.6	62.5	9.64	50.0	7.12	37.5	4.86
30 ℃	125.0	125.0	31.5	112.5	25.1	100.0	19.9	87.5	15.7	75.0	12.2	62.5	9.33	50.0	6.90	37.5	4.71
29 ℃	125.0	125.0	30.3	112.5	24.2	100.0	19.2	87.5	15.1	75.0	11.8	62.5	9.04	50.0	6.69	37.5	4.57
27 ℃	125.0	125.0	28.1	112.5	22.5	100.0	17.9	87.5	14.2	75.0	11.1	62.5	8.50	50.0	6.29	37.5	4.29
25 ℃	125.0	125.0	26.1	112.5	21.0	100.0	16.7	87.5	13.2	75.0	10.4	62.5	7.99	50.0	5.92	37.5	4.04
23 ℃	125.0	125.0	24.8	112.5	20.0	100.0	16.0	87.5	12.7	75.0	10.0	62.5	7.68	50.0	5.69	37.5	3.88
21 ℃	125.0	125.0	24.2	112.5	19.5	100.0	15.6	87.5	12.4	75.0	9.79	62.5	7.55	50.0	5.60	37.5	3.82
20 ℃	125.0	125.0	23.9	112.5	19.3	100.0	15.5	87.5	12.3	75.0	9.71	62.5	7.50	50.0	5.57	37.5	3.79
19 ℃	125.0	125.0	23.7	112.5	19.1	100.0	15.3	87.5	12.2	75.0	9.64	62.5	7.44	50.0	5.53	37.5	3.76
17 ℃	125.0	125.0	23.2	112.5	18.8	100.0	15.1	87.5	12.1	75.0	9.51	62.5	7.35	50.0	5.46	37.5	3.72
15 ℃	125.0	125.0	22.8	112.5	18.5	100.0	14.9	87.5	11.9	75.0	9.40	62.5	7.27	50.0	5.41	37.5	3.68

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)														
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	140.0	140.0	28.7	126.0	23.8	112.0	19.7	98.0	16.3	84.0	13.5	70.0	11.1	56.0	9.05	42.0	7.23
13.0	11.8	140.0	140.0	30.1	126.0	24.8	112.0	20.5	98.0	16.8	84.0	13.8	70.0	11.3	56.0	9.22	42.0	7.35
11.0	9.8	140.0	140.0	31.7	126.0	26.0	112.0	21.3	98.0	17.5	84.0	14.3	70.0	11.6	56.0	9.43	42.0	7.48
9.0	7.9	140.0	140.0	33.4	126.0	27.3	112.0	22.3	98.0	18.1	84.0	14.7	70.0	12.0	56.0	9.63	42.0	7.62
7.0	6.0	140.0	140.0	35.3	126.0	28.7	112.0	23.3	98.0	18.8	84.0	15.2	70.0	12.3	56.0	9.86	42.0	7.76
5.0	4.1	135.3	135.3	35.1	121.8	28.5	108.2	23.1	94.7	18.7	81.2	15.1	67.7	12.2	54.1	9.79	40.6	7.71
3.0	2.2	130.6	130.6	34.8	117.6	28.3	104.5	23.0	91.4	18.6	78.4	15.0	65.3	12.1	52.2	9.73	39.2	7.66
0.0	-0.7	123.5	123.5	34.5	111.1	28.1	98.8	22.7	86.4	18.4	74.1	14.9	61.7	12.0	49.4	9.63	37.0	7.59
-3.0	-3.7	116.1	116.1	34.1	104.5	27.8	92.9	22.5	81.3	18.2	69.6	14.7	58.0	11.9	46.4	9.53	34.8	7.51
-5.0	-5.6	111.4	111.4	33.9	100.3	27.6	89.1	22.4	78.0	18.1	66.8	14.6	55.7	11.8	44.6	9.47	33.4	7.46
-7.0	-7.6	106.5	106.5	33.7	95.8	27.4	85.2	22.2	74.5	18.0	63.9	14.5	53.2	11.7	42.6	9.40	31.9	7.41
-10	-10.5	99.3	99.3	33.3	89.4	27.1	79.5	22.0	69.5	17.8	59.6	14.4	49.7	11.6	39.7	9.31	29.8	7.33
-14.5	-15.0	88.2	88.2	32.8	79.4	26.7	70.6	21.6	61.8	17.5	52.9	14.2	44.1	11.4	35.3	9.16	26.5	7.21

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

MMY-AP5426HT8P-E (54HP, 152kW system)

Cooling		Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit (℃)	Outdoor Unit 100% Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
40 ℃	141.5	141.5	50.7	127.3	40.6	113.2	32.2	99.0	25.4	84.9	19.7	70.7	15.0	56.6	11.1	42.4	7.55
39 ℃	143.7	143.7	49.9	129.4	40.0	115.0	31.8	100.6	25.0	86.2	19.4	71.9	14.8	57.5	10.9	43.1	7.44
37 ℃	148.0	148.0	48.4	133.2	38.8	118.4	30.8	103.6	24.2	88.8	18.8	74.0	14.4	59.2	10.6	44.4	7.22
35 ℃	152.0	152.0	46.9	136.8	37.5	121.6	29.8	106.4	23.5	91.2	18.2	76.0	13.9	60.8	10.2	45.6	6.99
33 ℃	152.0	152.0	43.1	136.8	34.6	121.6	27.6	106.4	21.8	91.2	17.0	76.0	13.0	60.8	9.60	45.6	6.55
31 ℃	152.0	152.0	39.7	136.8	32.0	121.6	25.6	106.4	20.3	91.2	15.9	76.0	12.2	60.8	9.01	45.6	6.14
30 ℃	152.0	152.0	38.2	136.8	30.9	121.6	24.7	106.4	19.6	91.2	15.4	76.0	11.8	60.8	8.73	45.6	5.95
29 ℃	152.0	152.0	36.8	136.8	29.7	121.6	23.9	106.4	19.0	91.2	14.9	76.0	11.4	60.8	8.47	45.6	5.77
27 ℃	152.0	152.0	34.2	136.8	27.7	121.6	22.3	106.4	17.7	91.2	14.0	76.0	10.8	60.8	7.96	45.6	5.42
25 ℃	152.0	152.0	31.8	136.8	25.8	121.6	20.8	106.4	16.6	91.2	13.1	76.0	10.1	60.8	7.49	45.6	5.10
23 ℃	152.0	152.0	30.3	136.8	24.6	121.6	19.9	106.4	15.9	91.2	12.6	76.0	9.72	60.8	7.21	45.6	4.90
21 ℃	152.0	152.0	29.6	136.8	24.1	121.6	19.5	106.4	15.6	91.2	12.4	76.0	9.56	60.8	7.09	45.6	4.82
20 ℃	152.0	152.0	29.3	136.8	23.9	121.6	19.3	106.4	15.5	91.2	12.3	76.0	9.49	60.8	7.04	45.6	4.78
19 ℃	152.0	152.0	29.0	136.8	23.6	121.6	19.1	106.4	15.4	91.2	12.2	76.0	9.43	60.8	7.00	45.6	4.75
17 ℃	152.0	152.0	28.4	136.8	23.2	121.6	18.9	106.4	15.2	91.2	12.0	76.0	9.31	60.8	6.91	45.6	4.69
15 ℃	152.0	152.0	28.0	136.8	22.9	121.6	18.6	106.4	15.0	91.2	11.9	76.0	9.21	60.8	6.84	45.6	4.64

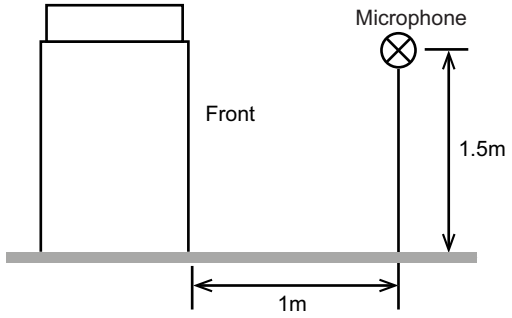
TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 27.0℃ dry-bulb / 19.0℃ wet bulb

Heating			Compressor + Oudoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
Dry-Bulb (℃)	Wet-Bulb (℃)		TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)	TC (kW)	PI (kW)
15.0	13.7	171.0	171.0	37.4	153.9	31.5	136.8	26.3	119.7	21.9	102.6	18.0	85.5	14.6	68.4	11.4	51.3	8.34
13.0	11.8	171.0	171.0	39.1	153.9	32.7	136.8	27.3	119.7	22.6	102.6	18.6	85.5	15.0	68.4	11.7	51.3	8.56
11.0	9.8	171.0	171.0	41.0	153.9	34.2	136.8	28.4	119.7	23.4	102.6	19.2	85.5	15.4	68.4	12.0	51.3	8.80
9.0	7.9	171.0	171.0	43.0	153.9	35.7	136.8	29.5	119.7	24.3	102.6	19.8	85.5	15.9	68.4	12.4	51.3	9.04
7.0	6.0	171.0	171.0	45.2	153.9	37.4	136.8	30.8	119.7	25.2	102.6	20.5	85.5	16.4	68.4	12.7	51.3	9.30
5.0	4.1	165.0	165.0	44.9	148.5	37.1	132.0	30.6	115.5	25.0	99.0	20.3	82.5	16.3	66.0	12.6	49.5	9.24
3.0	2.2	159.1	159.1	44.5	143.2	36.8	127.3	30.3	111.4	24.9	95.4	20.2	79.5	16.1	63.6	12.5	47.7	9.17
0.0	-0.7	150.0	150.0	44.1	135.0	36.4	120.0	30.0	105.0	24.6	90.0	20.0	75.0	16.0	60.0	12.4	45.0	9.07
-3.0	-3.7	140.6	140.6	43.5	126.5	36.0	112.5	29.7	98.4	24.3	84.3	19.7	70.3	15.8	56.2	12.3	42.2	8.97
-5.0	-5.6	134.6	134.6	43.2	121.2	35.8	107.7	29.4	94.2	24.1	80.8	19.6	67.3	15.7	53.8	12.2	40.4	8.90
-7.0	-7.6	128.3	128.3	42.9	115.5	35.5	102.7	29.2	89.8	23.9	77.0	19.4	64.2	15.5	51.3	12.1	38.5	8.83
-10	-10.5	119.2	119.2	42.4	107.3	35.1	95.4	28.9	83.5	23.6	71.5	19.2	59.6	15.4	47.7	11.9	35.8	8.73
-14.5	-15.0	105.1	105.1	41.6	94.6	34.4	84.1	28.4	73.6	23.2	63.1	18.9	52.6	15.1	42.1	11.7	31.5	8.57

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 20.0℃ dry-bulb

5-10. Sound pressure level data

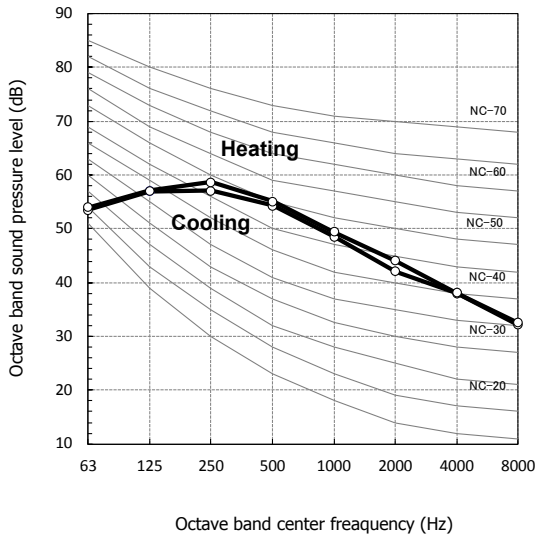
Outdoor Unit



Standard model

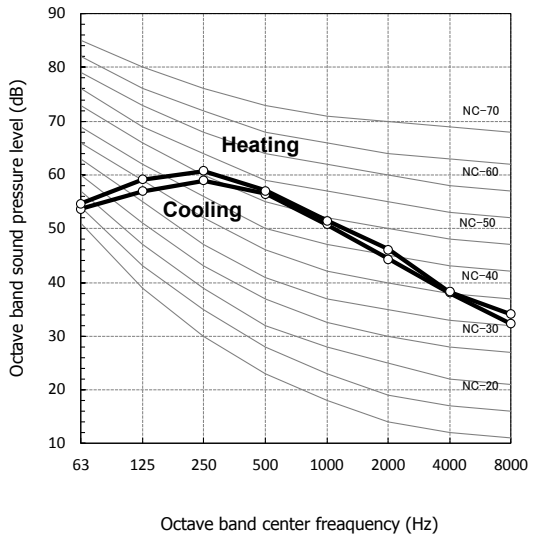
MMY-MAP0806HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	55.0	56.0



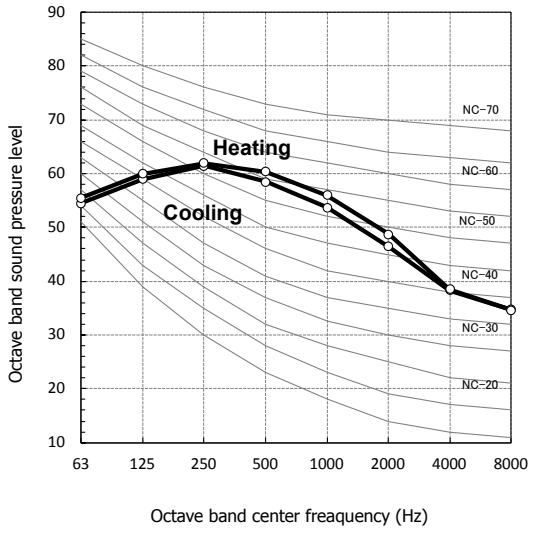
MMY-MAP1006HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	57.0	58.0



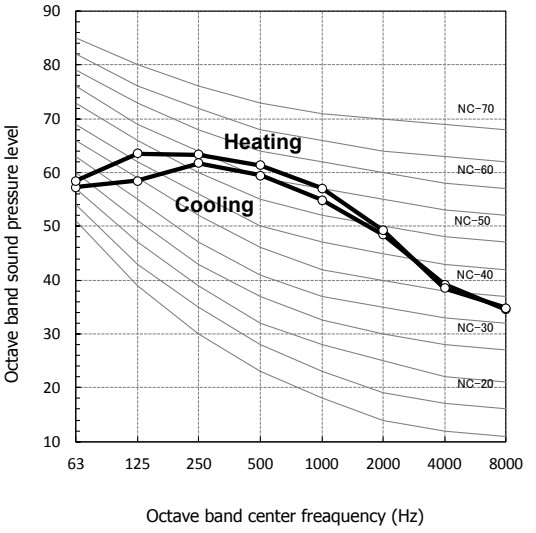
MMY-MAP1206HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	59.0	61.0



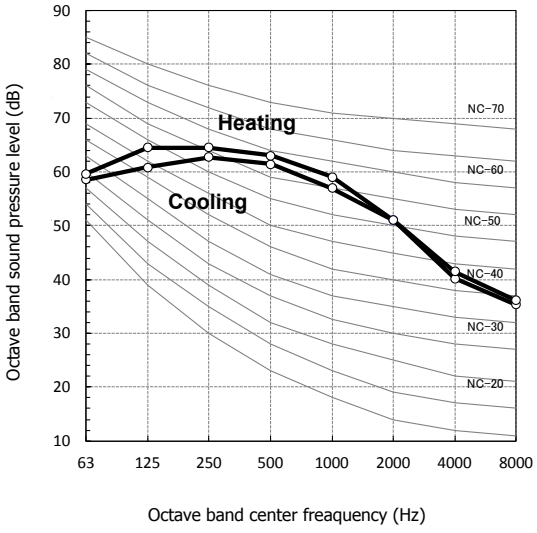
MMY-MAP1406HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	60.0	62.0



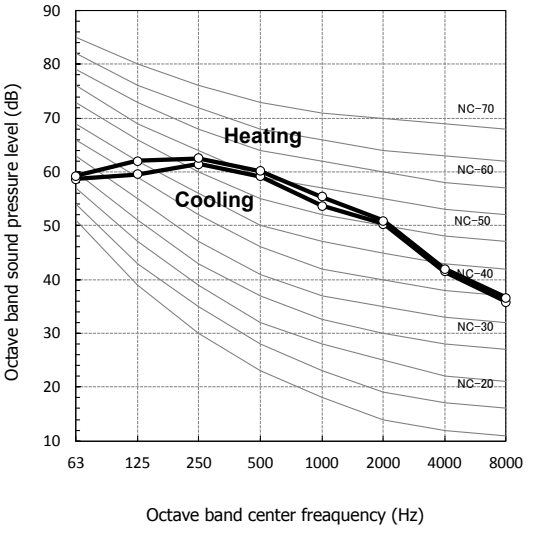
MMY-MAP1604HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	62.0	64.0



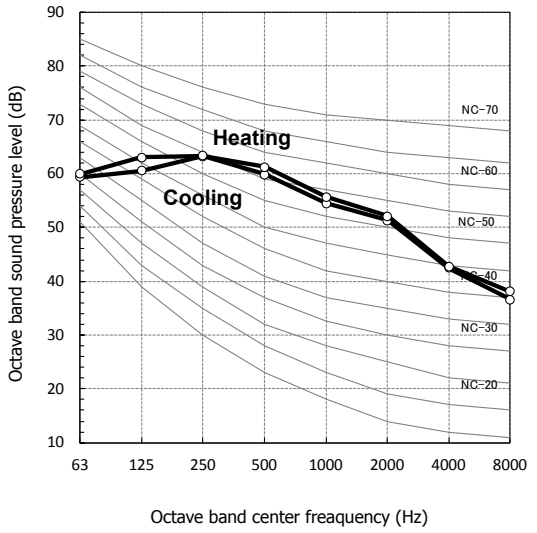
MMY-MAP1806HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	60.0	61.0



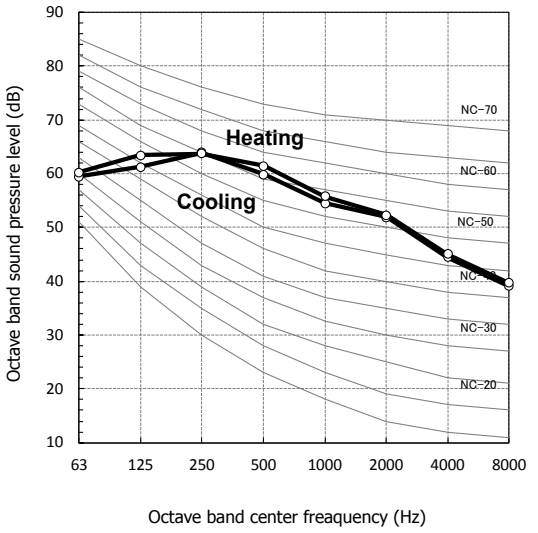
MMY-MAP2006HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	61.0	62.0



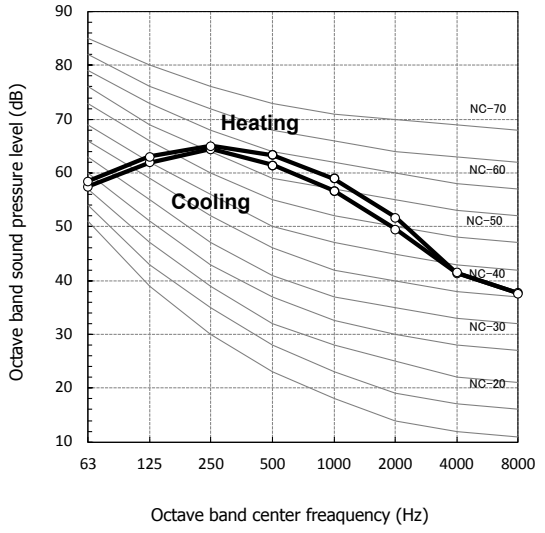
MMY-MAP2206HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	61.0	62.0



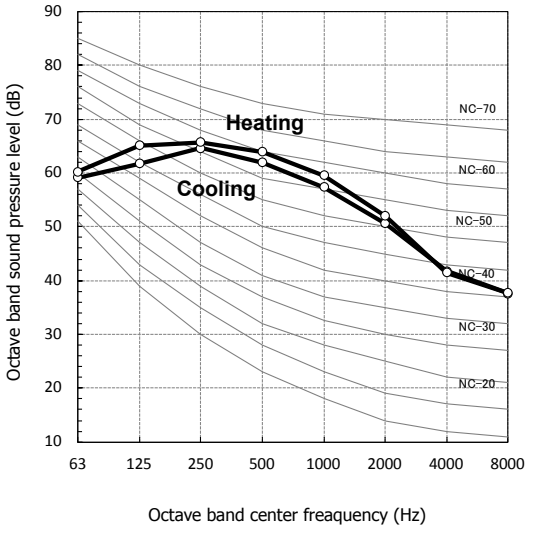
MMY-AP2416HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	62.0	64.0



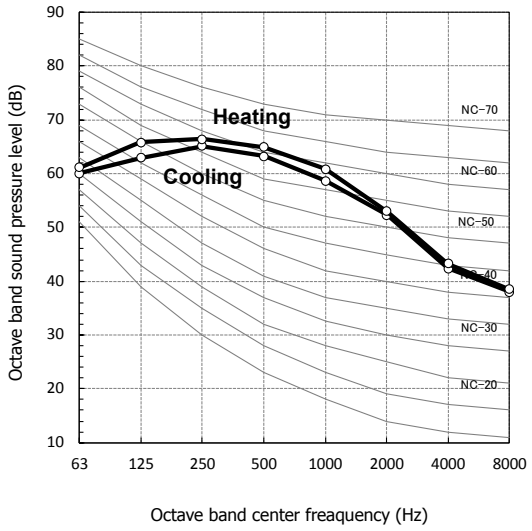
MMY-AP2616HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	62.5	64.5



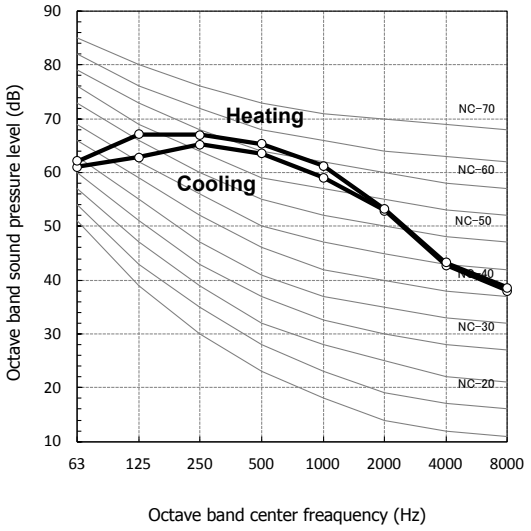
MMY-AP2816HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.0	66.0



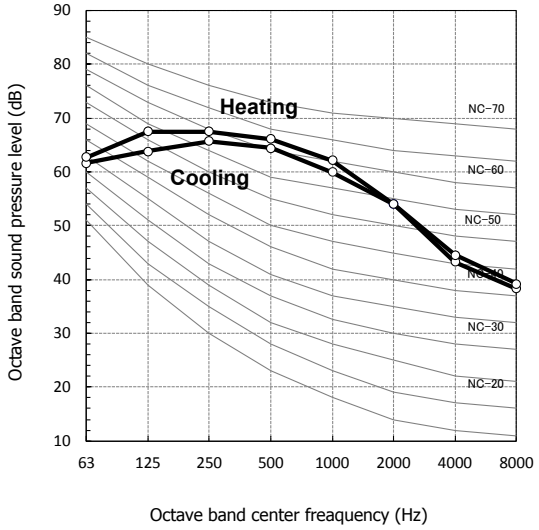
MMY-AP3016HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.5	66.5



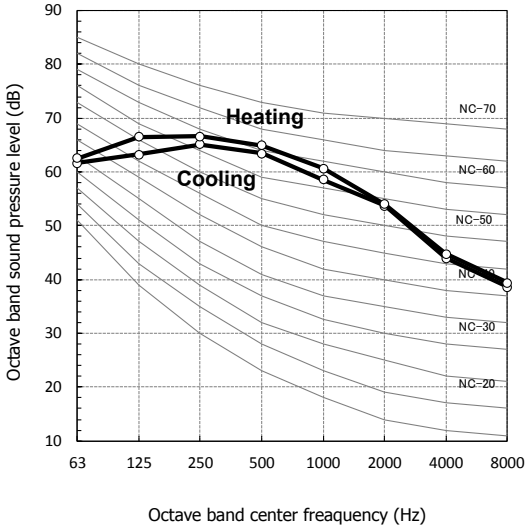
MMY-AP3216HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	65.0	67.0



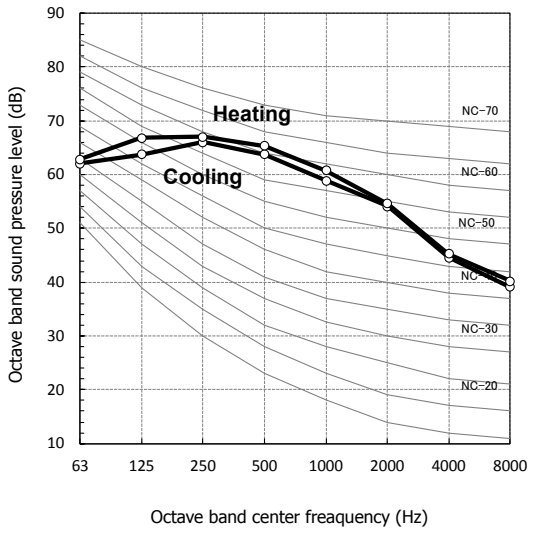
MMY-AP3416HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.5	66.0



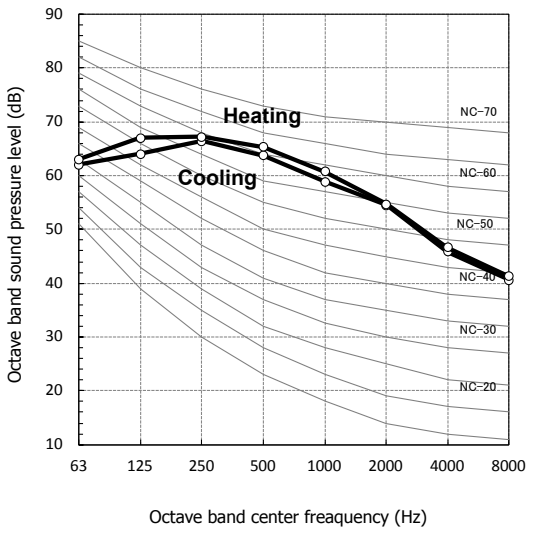
MMY-AP3616HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.5	66.5



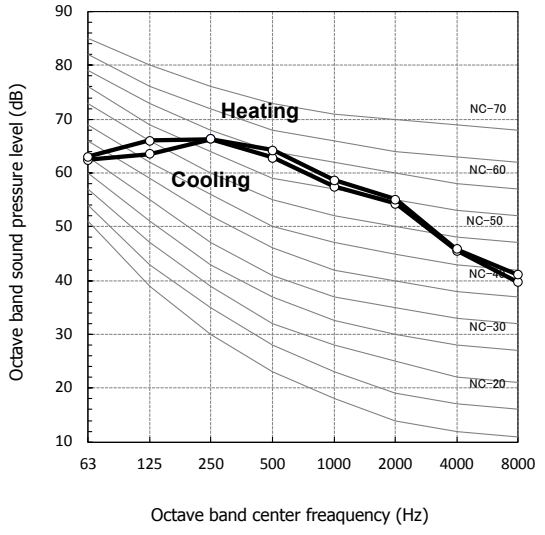
MMY-AP3816HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.5	66.5



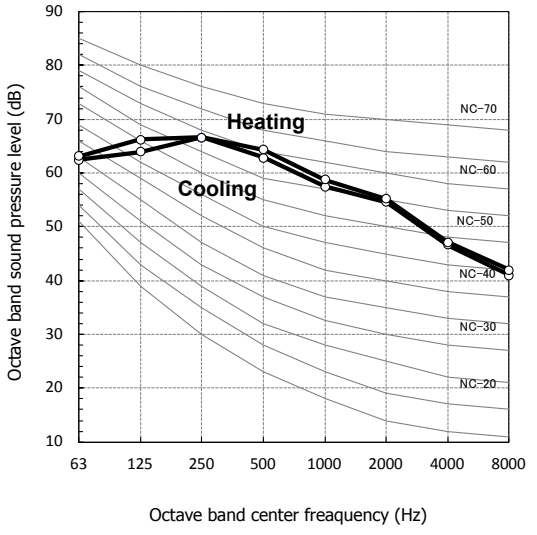
MMY-AP4016HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.0	65.0



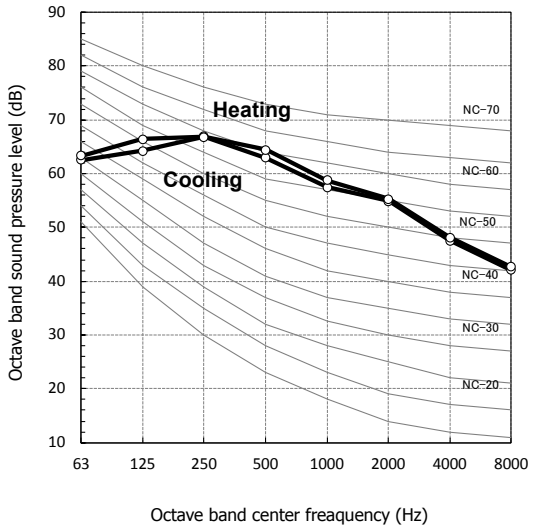
MMY-AP4216HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.0	65.0



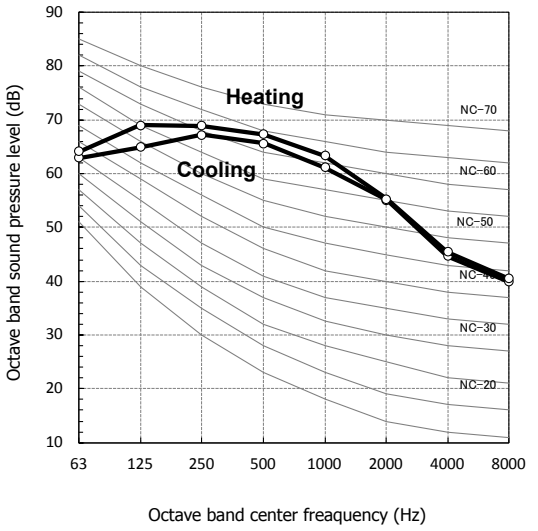
MMY-AP4416HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.0	65.0



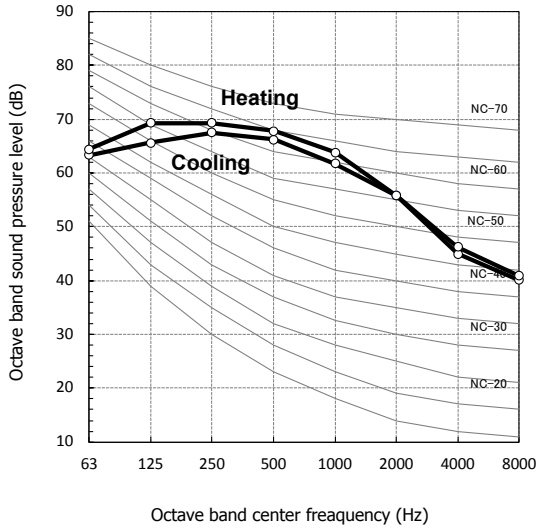
MMY-AP4616HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	66.5	68.5



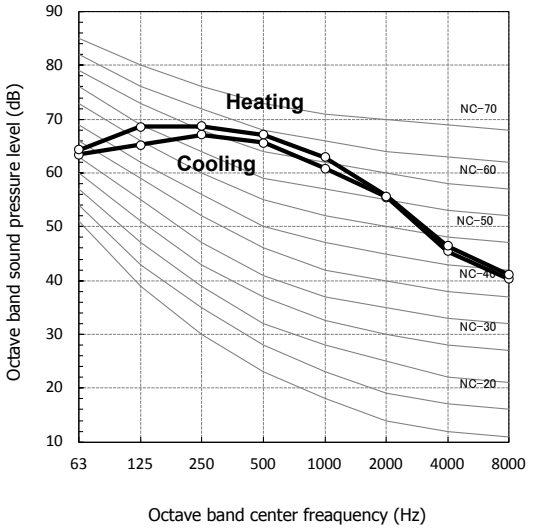
MMY-AP4816HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	67.0	69.0



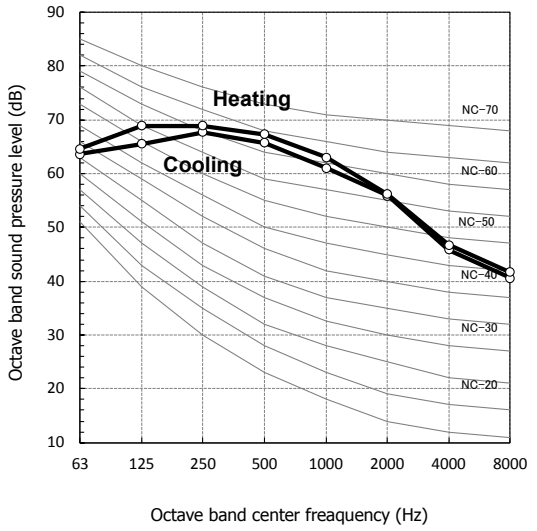
MMY-AP5016HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	66.5	68.0



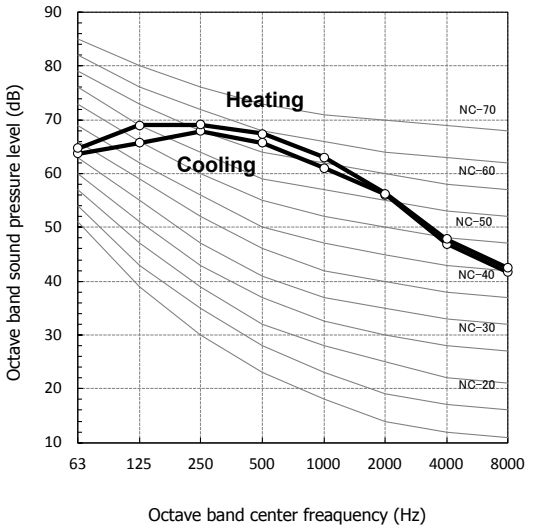
MMY-AP5216HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	66.5	68.5



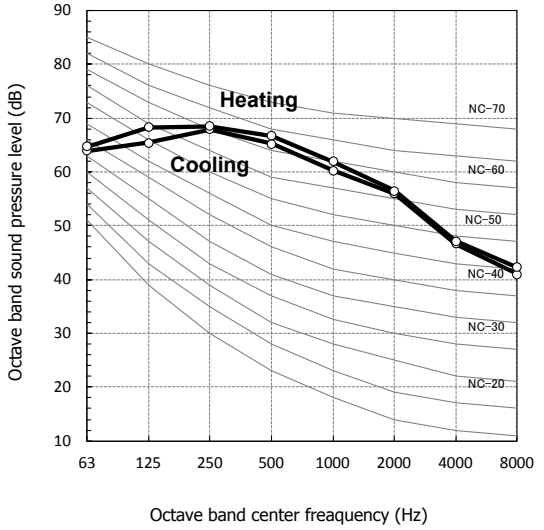
MMY-AP5416HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	66.5	68.5



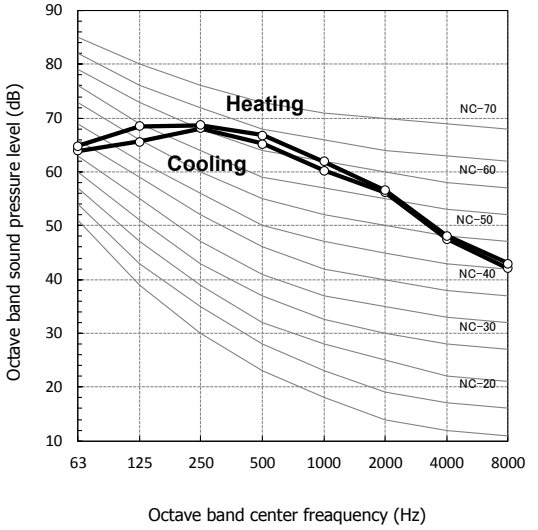
MMY-AP5616HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	66.5	67.5



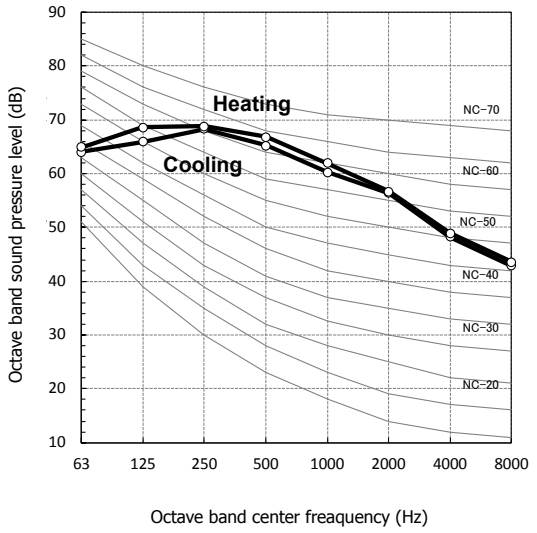
MMY-AP5816HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	66.5	67.5



MMY-AP6016HT8P-E

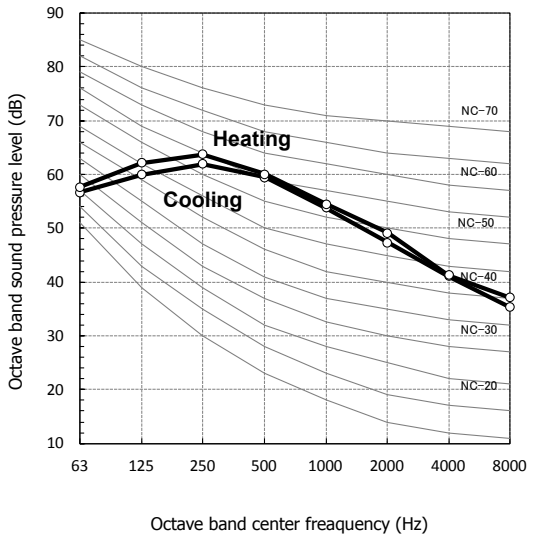
Sound pressure Level (dB(A))	Cooling	Heating
	66.5	67.5



High efficiency model

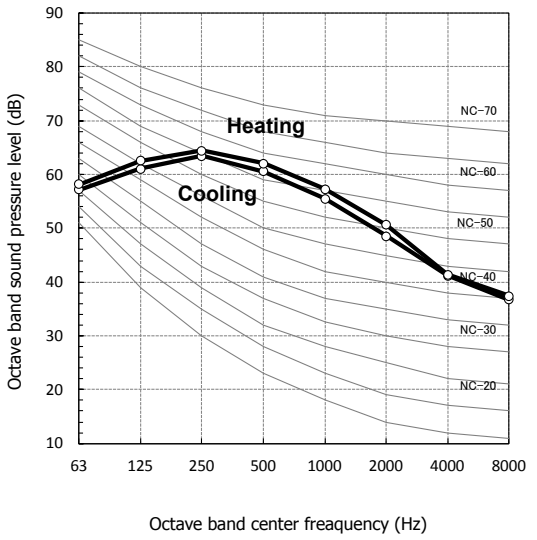
MMY-AP2026HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	60.0	61.0



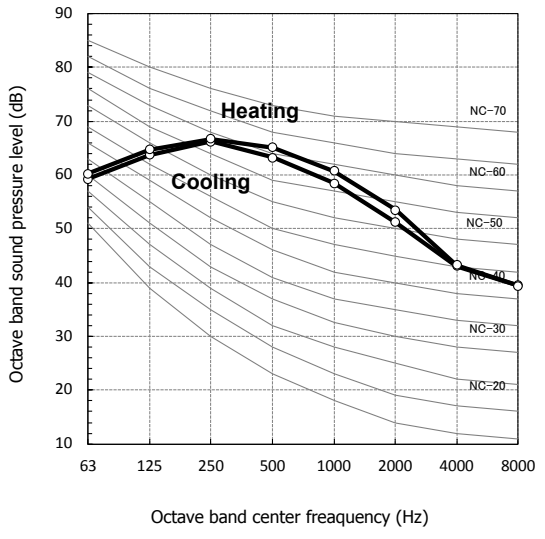
MMY-AP2226HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	61.5	63.0



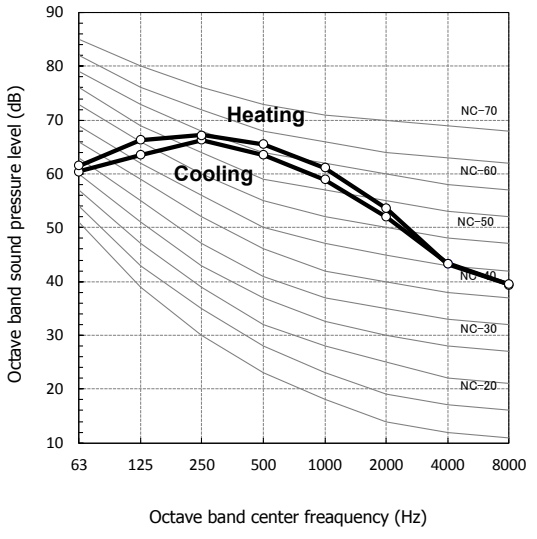
MMY-AP3626HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.0	66.0



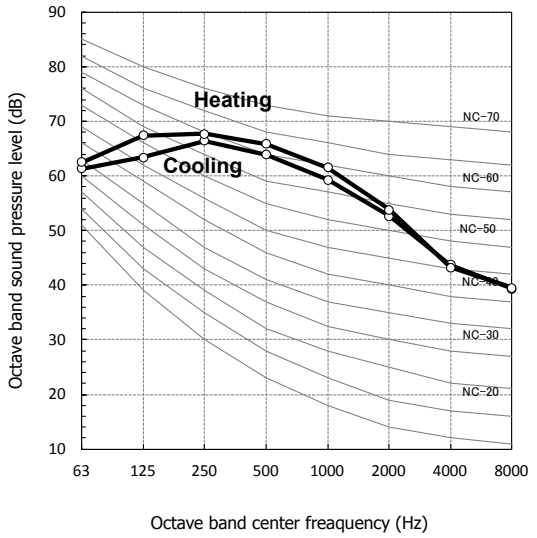
MMY-AP3826HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.5	66.5



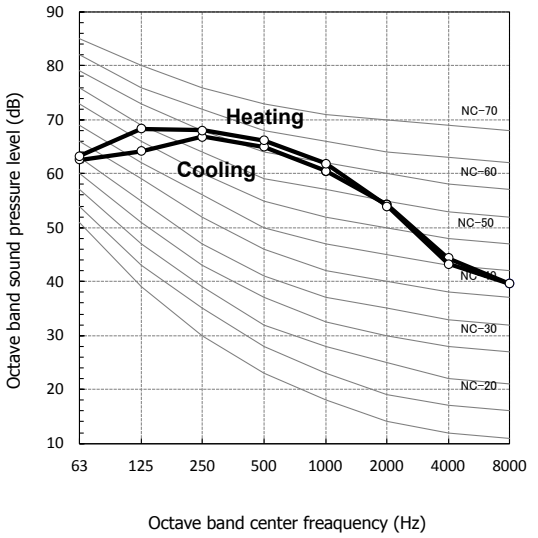
MMY-AP4026HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	64.5	66.5



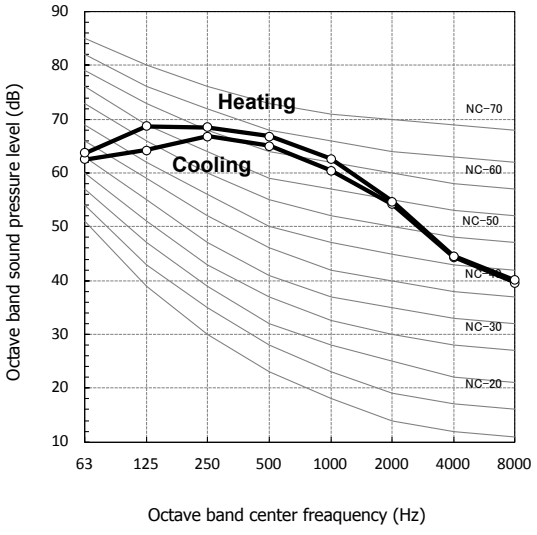
MMY-AP4226HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	65.0	67.0



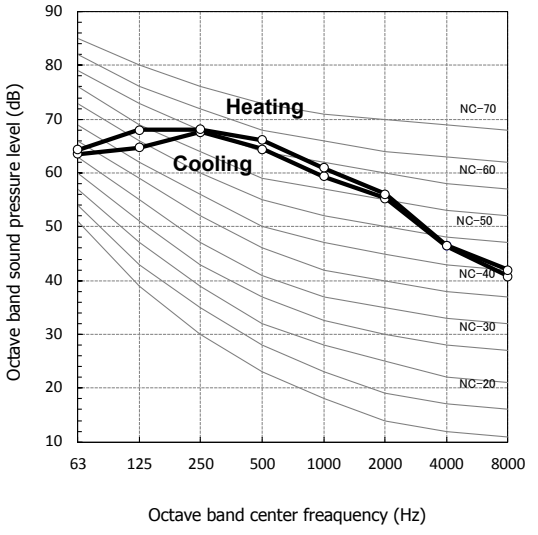
MMY-AP4426HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	65.5	67.5



MMY-AP5426HT8P-E

Sound pressure Level (dB(A))	Cooling	Heating
	65.5	67.0



SMMS-e Engineering Data Book

Model name:

MMY-MAP_6HT8P-E

May, 2018 Full version