

Model name:

MMY-MAP_6HT8P-ME

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.



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

■ 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.

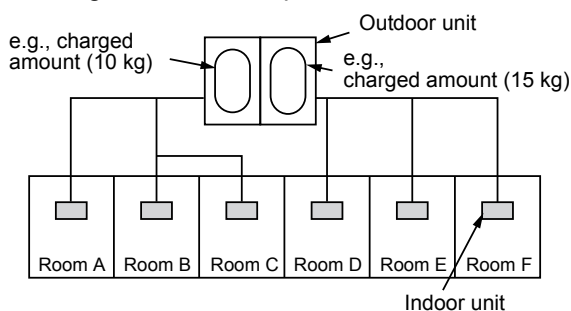
$$\frac{\text{Total amount of refrigerant (kg)}}{\text{Min. volume of the indoor unit installed room (m}^3\text{)}} \leq \text{Concentration limit (kg/m}^3\text{)}$$

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.

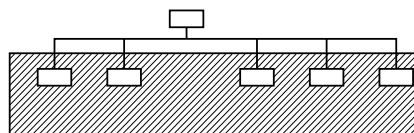
The possible amount of leaked refrigerant gas in rooms D, E and F is 15 kg.

Important

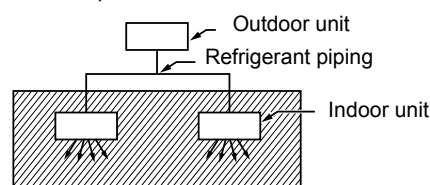
NOTE 2:

The standards for minimum room volume are as follows.

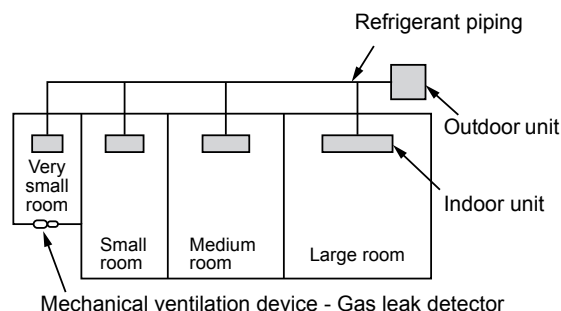
- (1) No partition (shaded portion)



- (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).

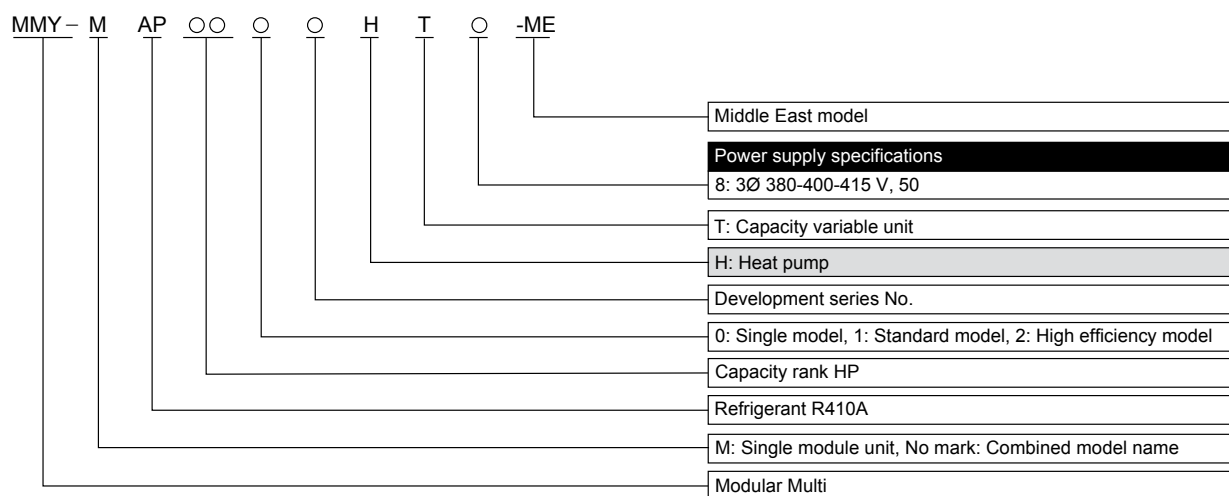


- (3) If an indoor unit is installed in each partitioned room and the refrigerant tubing is interconnected, the smallest room of course becomes the object. But when a mechanical ventilation is installed interlocked with a gas leakage detector in the smallest room where the density limit is exceeded,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





1-1. Allocation standard of model name SMMS-e



1-2. Summay of system equipments

1-2-1. Outdoor units

Corresponding HP			8HP	10HP	12HP	14HP	16HP	18HP	20HP
Model name	400V(380-415V), 50Hz	MMY-	MAP0806HT8P-ME	MAP1006HT8P-ME	MAP1206HT8P-ME	MAP1406HT8P-ME	MAP1606HT8P-ME	MAP1806HT8P-ME	MAP2006HT8P-ME
Cooling capacity	(46 °C)	(kW)	20.3	25.2	26.8	32.5	36.0	42.8	44.8
Cooling capacity	(35 °C)	(kW)	22.4	28.0	33.5	40.0	45.0	50.4	56.0
Heating capacity		(kW)	25.0	31.5	37.5	45.0	50.0	56.0	63.0
No. of connectable indoor units			13	16	20	23	27	30	33

Combination of outdoor units Standard model

Corresponding HP			22HP	24HP	26HP	28HP	30HP	32HP	34HP
Combined Model	400V(380-415V), 50Hz	MMY-	AP2216HT8P-ME	AP2416HT8P-ME	AP2616HT8P-ME	AP2816HT8P-ME	AP3016HT8P-ME	AP3216HT8P-ME	AP3416HT8P-ME
Cooling capacity	(46 °C)	(kW)	52.0	53.6	59.3	65.0	68.5	72.0	78.8
Cooling capacity	(35 °C)	(kW)	61.5	67.0	73.5	80.0	85.0	90.0	95.4
Heating capacity (kW)		(kW)	69.0	75.0	82.5	90.0	95.0	100.0	106.0
Combined outdoor units			12HP	12HP	14HP	14HP	16HP	16HP	18HP
			10HP	12HP	12HP	14HP	14HP	16HP	16HP
No. of connectable indoor units			37	40	43	47	50	54	57

Corresponding HP			36HP	38HP	40HP	42HP	44HP	46HP	48HP
Combined Model	400V(380-415V), 50Hz	MMY-	AP3616HT8P-ME	AP3816HT8P-ME	AP4016HT8P-ME	AP4216HT8P-ME	AP4416HT8P-ME	AP4616HT8P-ME	AP4816HT8P-ME
Cooling capacity	(46 °C)	(kW)	85.7	87.6	89.6	97.5	101.0	104.5	108.0
Cooling capacity	(35 °C)	(kW)	100.8	106.4	112.0	120.0	125.0	130.0	135.0
Heating capacity (kW)		(kW)	112.0	119.0	126.0	135.0	140.0	145.0	150.0
Combined outdoor units			18HP	20HP	20HP	14HP	16HP	16HP	16HP
			18HP	18HP	20HP	14HP	14HP	16HP	16HP
			-	-	-	14HP	14HP	14HP	16HP
No. of connectable indoor units			60	64	64	64	64	64	64

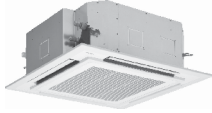
Corresponding HP			50HP	52HP	54HP	56HP
Combined Model	400V(380-415V), 50Hz	MMY-	AP5016HT8P-ME	AP5216HT8P-ME	AP5416HT8P-ME	AP5616HT8P-ME
Cooling capacity	(46 °C)	(kW)	114.8	121.7	122.1	125.6
Cooling capacity	(35 °C)	(kW)	140.4	145.8	152.0	157.0
Heating capacity (kW)		(kW)	156.0	162.0	171.0	176.0
Combined outdoor units			18HP	18HP	20HP	20HP
			16HP	18HP	20HP	20HP
			16HP	16HP	14HP	16HP
No. of connectable indoor units			64	64	64	64

High efficiency model

Corresponding HP			16HP	18HP	20HP	30HP	32HP	34HP	38HP
Combined Model	400V(380-415V), 50Hz	MMY-	AP1626HT8P-ME	AP1826HT8P-ME	AP2026HT8P-ME	AP3026HT8P-ME	AP3226HT8P-ME	AP3426HT8P-ME	AP3826HT8P-ME
Cooling capacity	(46 °C)	(kW)	40.6	45.5	50.4	75.6	77.2	78.8	86.1
Cooling capacity	(35 °C)	(kW)	44.8	50.4	56.0	84.0	89.5	95.0	107.0
Heating capacity (kW)		(kW)	50.0	56.5	63.0	94.5	100.5	106.5	120.0
Combined outdoor units			8HP	10HP	10HP	10HP	12HP	12HP	14HP
			8HP	8HP	10HP	10HP	10HP	12HP	12HP
			-	-	-	10HP	10HP	10HP	12HP
No. of connectable indoor units			27	30	33	50	54	57	64

Corresponding HP			40HP
Combined Model	400V(380-415V), 50Hz	MMY-	AP4026HT8P-ME
Cooling capacity	(46 °C)	(kW)	91.8
Cooling capacity	(35 °C)	(kW)	113.5
Heating capacity (kW)		(kW)	127.5
Combined outdoor units			14HP
			14HP
			12HP
No. of connectable indoor units			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 type	1.00	2.8	3.2
		MMU-AP0124HP1-E	012 type	1.25	3.6	4.0
		MMU-AP0154HP1-E	015 type	1.70	4.5	5.0
		MMU-AP0184HP1-E	018 type	2.00	5.6	6.3
		MMU-AP0244HP1-E	024 type	2.50	7.1	8.0
		MMU-AP0274HP1-E	027 type	3.00	8.0	9.0
		MMU-AP0304HP1-E	030 type	3.20	9.0	10.0
		MMU-AP0364HP1-E	036 type	4.00	11.2	12.5
		MMU-AP0484HP1-E	048 type	5.00	14.0	16.0
		MMU-AP0564HP1-E	056 type	6.00	16.0	18.0
4-way Air Discharge Cassette Type		MMU-AP0074HP-ME	007 type	0.80	2.2	2.5
		MMU-AP0094HP-ME	009 type	1.00	2.8	3.2
		MMU-AP0124HP-ME	012 type	1.25	3.6	4.0
		MMU-AP0184HP-ME	018 type	2.00	5.6	6.3
Compact 4-way Cassette (600 x 600) Type		MMU-AP0077MH-E	007 type	0.80	2.2	2.5
		MMU-AP0097MH-E	009 type	1.00	2.8	3.2
		MMU-AP0127MH-E	012 type	1.25	3.6	4.0
		MMU-AP0157MH-E	015 type	1.70	4.5	5.0
		MMU-AP0187MH-E	018 type	2.00	5.6	6.3
2-way Air Discharge Cassette Type		MMU-AP0072WH1	007 type	0.80	2.2	2.5
		MMU-AP0092WH1	009 type	1.00	2.8	3.2
		MMU-AP0122WH1	012 type	1.25	3.6	4.0
		MMU-AP0152WH1	015 type	1.70	4.5	5.0
		MMU-AP0182WH1	018 type	2.00	5.6	6.3
		MMU-AP0242WH1	024 type	2.50	7.1	8.0
		MMU-AP0272WH1	027 type	3.00	8.0	9.0
		MMU-AP0302WH1	030 type	3.20	9.0	10.0
		MMU-AP0362WH1	036 type	4.00	11.2	12.5
		MMU-AP0482WH1	048 type	5.00	14.0	16.0
1-way Air Discharge Cassette Type		MMU-AP0074YH1	007 type	0.80	2.2	2.5
		MMU-AP0094YH1	009 type	1.00	2.8	3.2
		MMU-AP0124YH1	012 type	1.25	3.6	4.0
		MMU-AP0154SH1-E	015 type	1.70	4.5	5.0
		MMU-AP0184SH1-E	018 type	2.00	5.6	6.3
		MMU-AP0244SH1-E	024 type	2.50	7.1	8.0
Concealed Duct Type		MMD-AP0076BHP1-E	007 type	0.80	2.2	2.5
		MMD-AP0096BHP1-E	009 type	1.00	2.8	3.2
		MMD-AP0126BHP1-E	012 type	1.25	3.6	4.0
		MMD-AP0156BHP1-E	015 type	1.70	4.5	5.0
		MMD-AP0186BHP1-E	018 type	2.00	5.6	6.3
		MMD-AP0246BHP1-E	024 type	2.50	7.1	8.0
		MMD-AP0276BHP1-E	027 type	3.00	8.0	9.0
		MMD-AP0306BHP1-E	030 type	3.20	9.0	10.0
		MMD-AP0366BHP1-E	036 type	4.00	11.2	12.5
		MMD-AP0486BHP1-E	048 type	5.00	14.0	16.0
Concealed Duct High Static Pressure Type		MMD-AP0186HP1-E	018 type	2.00	5.6	6.3
		MMD-AP0246HP1-E	024 type	2.50	7.1	8.0
		MMD-AP0276HP1-E	027 type	3.00	8.0	9.0
		MMD-AP0366HP1-E	036 type	4.00	11.2	10.0
		MMD-AP0486HP1-E	048 type	5.00	14.0	16.0
		MMD-AP0566HP1-E	056 type	6.00	16.0	18.0
		MMD-AP0726HP-E	072 type	8.00	22.4	25.0
		MMD-AP0966HP-E	096 type	10.00	28.0	31.5

Type	Appearance	Model name	Capacity rank	Capacity code	Cooling capacity (kW)	Heating capacity (kW)
Slim Duct Type		MMD-AP0074SPH1-E	007 type	0.80	2.2	2.5
		MMD-AP0094SPH1-E	009 type	1.00	2.8	3.2
		MMD-AP0124SPH1-E	012 type	1.25	3.6	4.0
		MMD-AP0154SPH1-E	015 type	1.70	4.5	5.0
		MMD-AP0184SPH1-E	018 type	2.00	5.6	6.3
		MMD-AP0244SPH1-E	024 type	2.50	7.1	8.0
		MMD-AP0274SPH1-E	027 type	3.00	8.0	9.0
Ceiling Type		MMC-AP0158HP-E	015 type	1.70	4.5	5.0
		MMC-AP0188HP-E	018 type	2.00	5.6	6.3
		MMC-AP0248HP-E	024 type	2.50	7.1	8.0
		MMC-AP0278HP-E	027 type	3.00	8.0	9.0
		MMC-AP0368HP-E	036 type	4.00	11.2	12.5
		MMC-AP0488HP-E	048 type	5.00	14.0	16.0
		MMC-AP0568HP-E	056 type	6.00	16.0	18.0
High Wall Type 7series		MMK-AP0077HP-E	007 type	0.80	2.0	2.5
		MMK-AP0097HP-E	009 type	1.00	3.0	3.2
		MMK-AP0127HP-E	012 type	1.30	3.6	4.0
High-wall Type 3 series		MMK-AP0073H1	007 type	0.80	2.2	2.5
		MMK-AP0093H1	009 type	1.00	2.8	3.2
		MMK-AP0123H1	012 type	1.25	3.6	4.0
		MMK-AP0153H1	015 type	1.70	4.5	5.0
		MMK-AP0183H1	018 type	2.00	5.6	6.3
		MMK-AP0243H1	024 type	2.50	7.1	8.0
Floor Standing Concealed Type		MML-AP0074BH1-E	007 type	0.80	2.2	2.5
		MML-AP0094BH1-E	009 type	1.00	2.8	3.2
		MML-AP0124BH1-E	012 type	1.25	3.6	4.0
		MML-AP0154BH1-E	015 type	1.70	4.5	5.0
		MML-AP0184BH1-E	018 type	2.00	5.6	6.3
		MML-AP0244BH1-E	024 type	2.50	7.1	8.0
Floor Standing Cabinet Type		MML-AP0074H1-E	007 type	0.80	2.2	2.5
		MML-AP0094H1-E	009 type	1.00	2.8	3.2
		MML-AP0124H1-E	012 type	1.25	3.6	4.0
		MML-AP0154H1-E	015 type	1.70	4.5	5.0
		MML-AP0184H1-E	018 type	2.00	5.6	6.3
		MML-AP0244H1-E	024 type	2.50	7.1	8.0
Console Type		MML-AP0074NH1-E	007 type	0.80	2.2	2.5
		MML-AP0094NH1-E	009 type	1.00	2.8	3.2
		MML-AP0124NH1-E	012 type	1.25	3.6	4.0
		MML-AP0154NH1-E	015 type	1.70	4.5	5.0
		MML-AP0184NH1-E	018 type	2.00	5.6	6.3
Floor Standing Type		MMF-AP0156H1-E	015 type	1.70	4.5	5.0
		MMF-AP0186H1-E	018 type	2.00	5.6	6.3
		MMF-AP0246H1-E	024 type	2.50	7.1	8.0
		MMF-AP0276H1-E	027 type	3.00	8.0	9.0
		MMF-AP0366H1-E	036 type	4.00	11.2	10.0
		MMF-AP0486H1-E	048 type	5.00	14.0	16.0
		MMF-AP0566H1-E	056 type	6.00	16.0	18.0
Fresh Air Intake Indoor unit Type		MMD-AP0481HFE	048 type	5.00	14.0	8.9
		MMD-AP0721HFE	071 type	8.00	22.4	13.9
		MMD-AP0961HFE	096 type	10.00	28.0	17.4

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*	
Simple wired remote controller	RBC-AS21E2*, RBC-AS41E*	
Wireless remote controller kit	RBC-AX32U(W)-E* RBC-AX32U(WS)-E*	For 4-way Air Discharge Cassette
	RBC-AX332CE2*	For 1-way Air Discharge Cassette
	RBC-AX33CE*	For Ceiling 8 series
	TCB-AX32E*	For 1-way Air Discharge Cassette YH, Concealed Duct Standard, Slim Duct, Floor Standing Cabinet, Floor Standing concealed, Floor Standing
	RBC-AX23UW(W)-E*	For 2-way Air Discharge Cassette
	RBC-AX32UM(W)-E*	For Compact 4-way 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* RBC-AMS41E-ME	
Lite-Vision plus Remote Controller	RBC-AMS51E-EN/ES*	-EN : English, Italian, Polish, Greece, Russian, Turkish -ES : English, Spanish, Portuguese, French, Dutch, German
Wired remote controller for Air to Air Heat Exchanger with DX coil unit	NRC-01HE	

Note : In UAE, DN codes of indoor units shall change, So as not to set room temperature less than 20°C for indoor units which are combined with the mark (*) at the ends of the model names. This is UAE regulation.

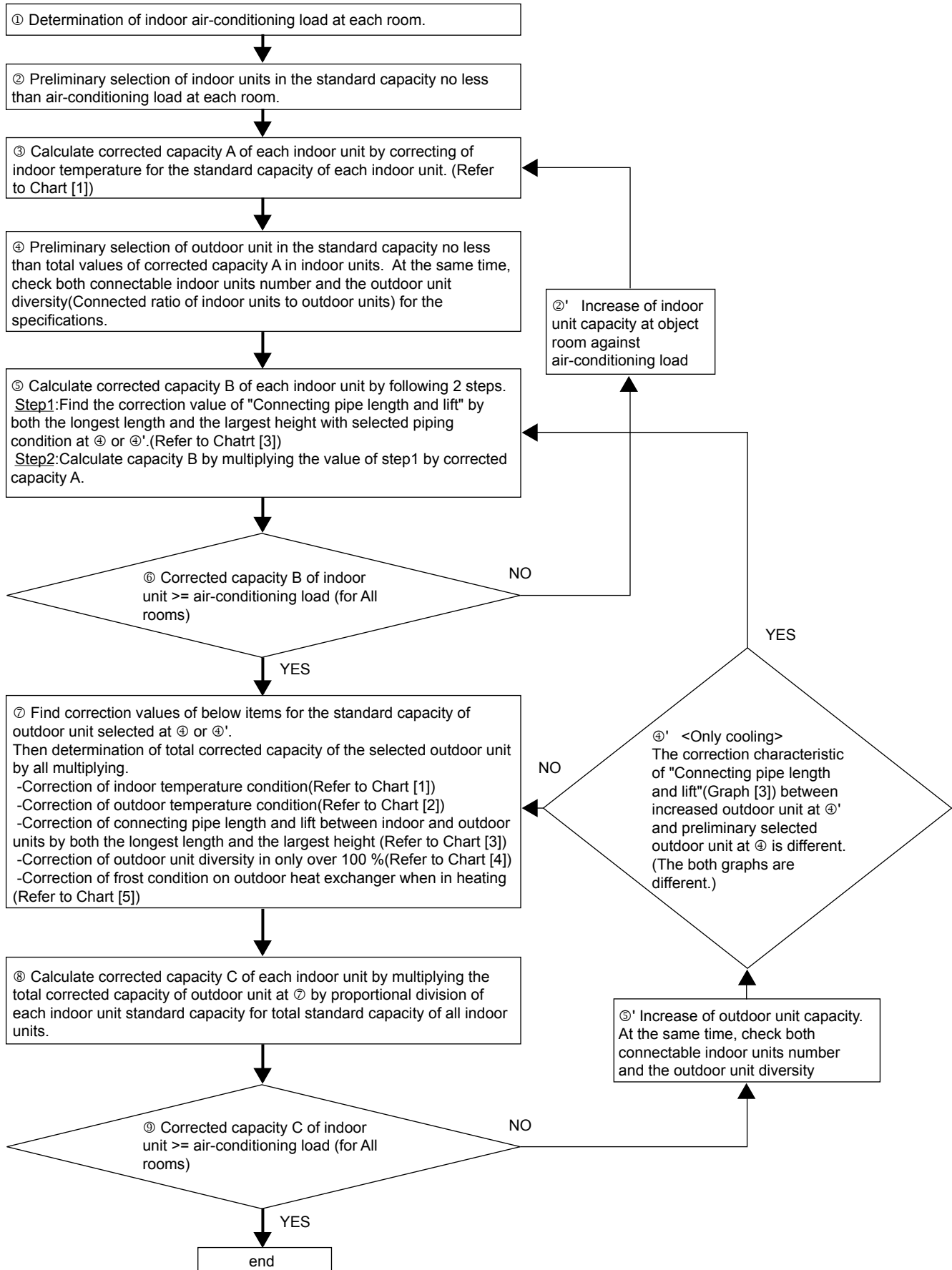
1-2-5. Optional PCB of outdoor unit

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	
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:

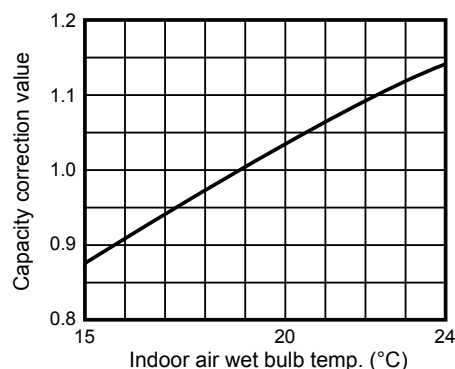
Height difference between indoor unit over 15 m, combination conditions for indoor and outdoor unit is 50 % to 105 %.

For the fresh air intake units, up to 2 units for one system and also within 30% to capacity of the connectable indoor air conditioners are allowed.

2-3. Cooling/heating capacity characteristics

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

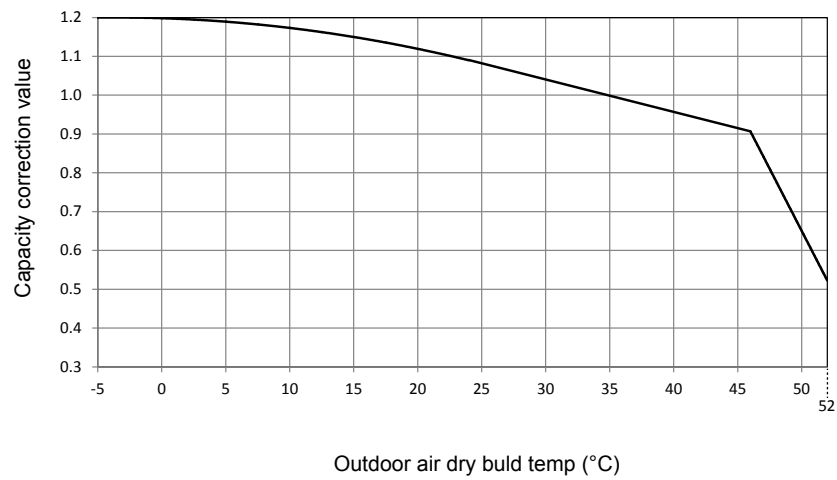
[1] Indoor air wet bulb temperature vs. capacity correction value



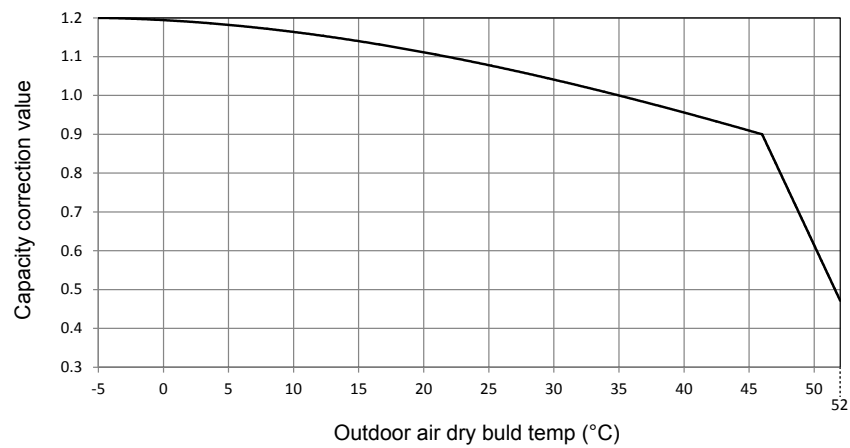
[2] Outdoor air dry bulb temperature vs. capacity correction value

HP	Graph	HP	Graph
Standard		High efficiency model	
8	A		
10	B-1		
12	C-1		
14	D		
16	C-2	16	A
18	E	18	B-2
20	C-3	20	B-1
22	F		
24	C-4		
26	G-1		
28	D		
30	G-2	30	B-1
32	C-2	32	L
34	H-1	34	M
36	E		
38	H-2		
40	C-3		
42	D		
44	I-1		
46	G-3		
48	C-2		
50	J		
52	K		
54	C-5		
56	C-5		

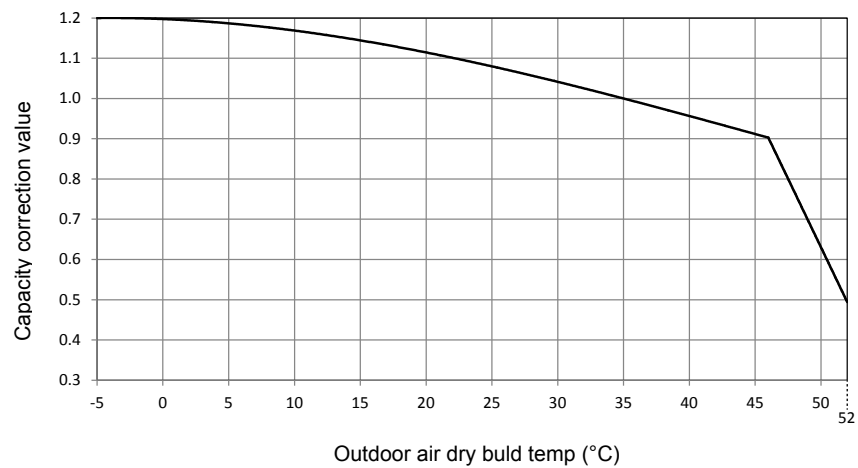
Graph A



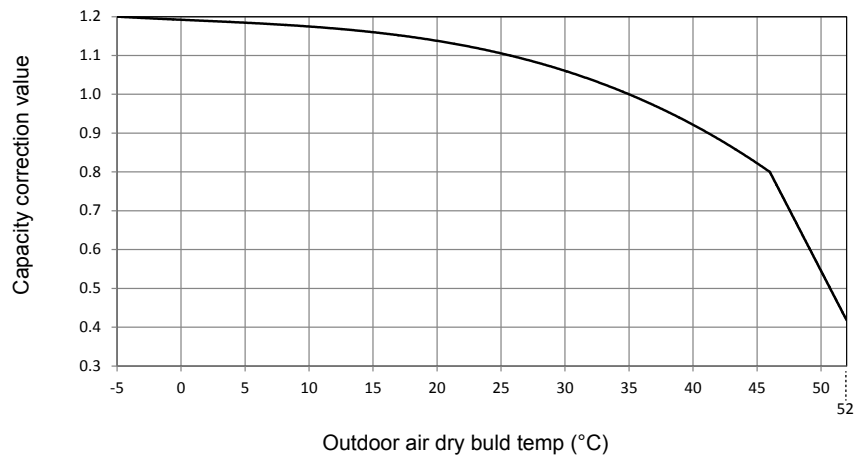
Graph B-1



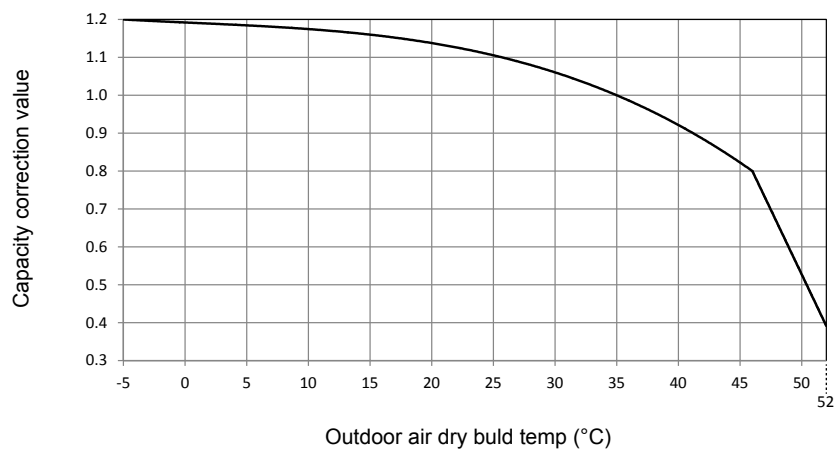
Graph B-2



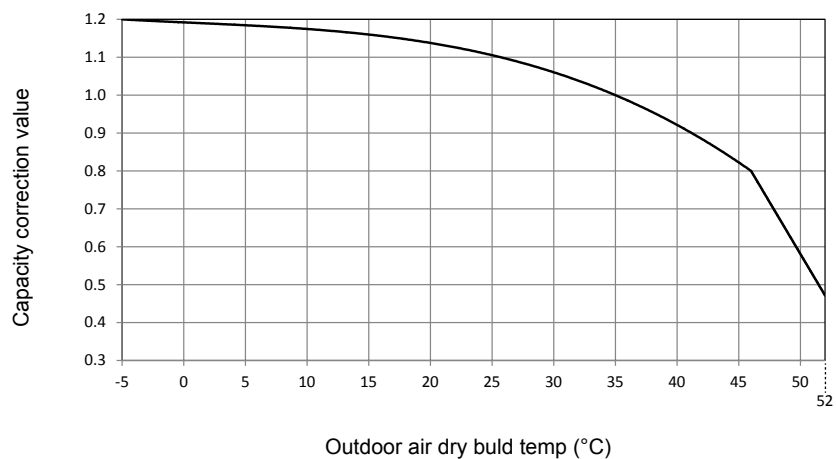
Graph C-1



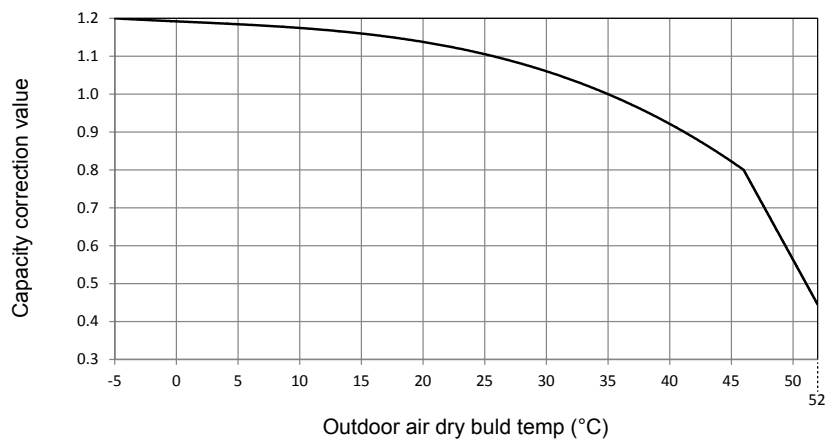
Graph C-2



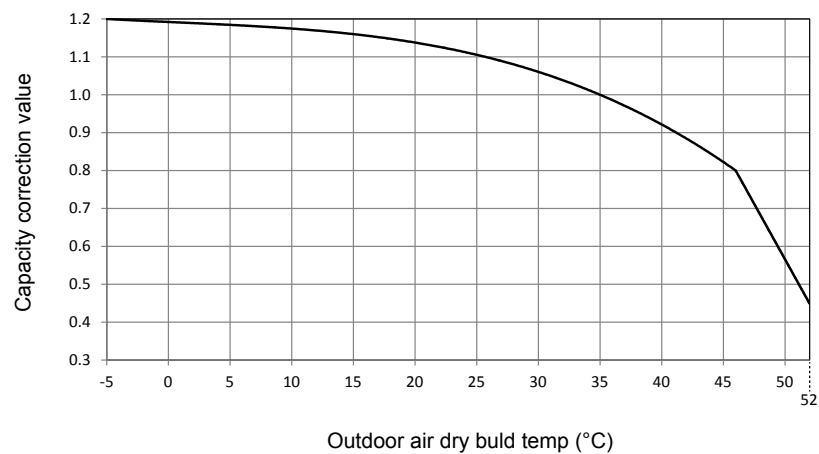
Graph C-3



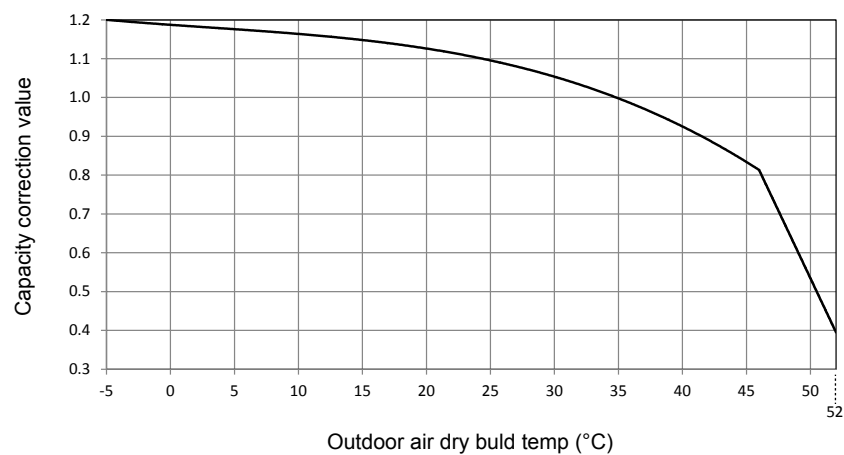
Graph C-4



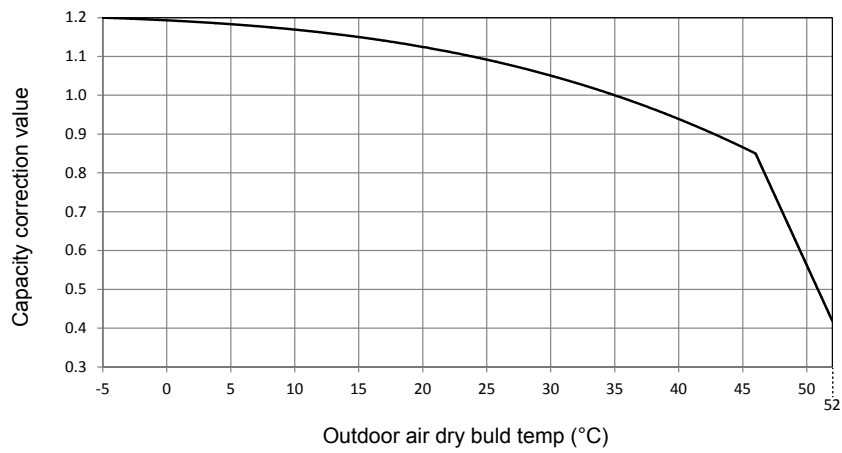
Graph C-5



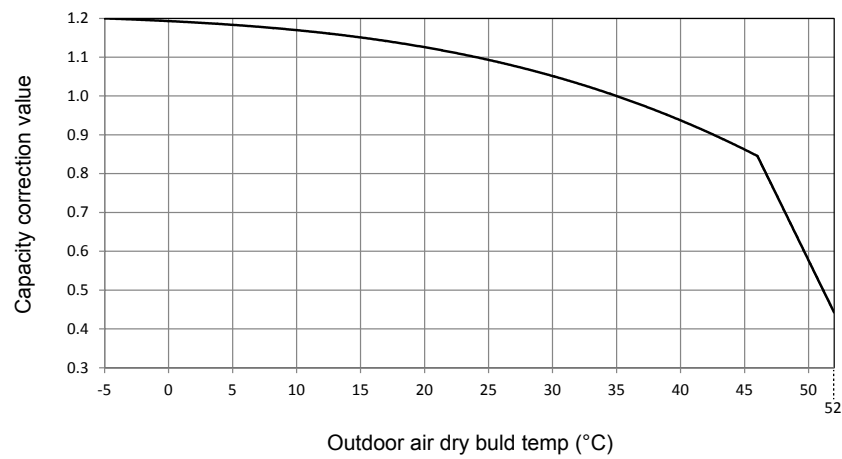
Graph D



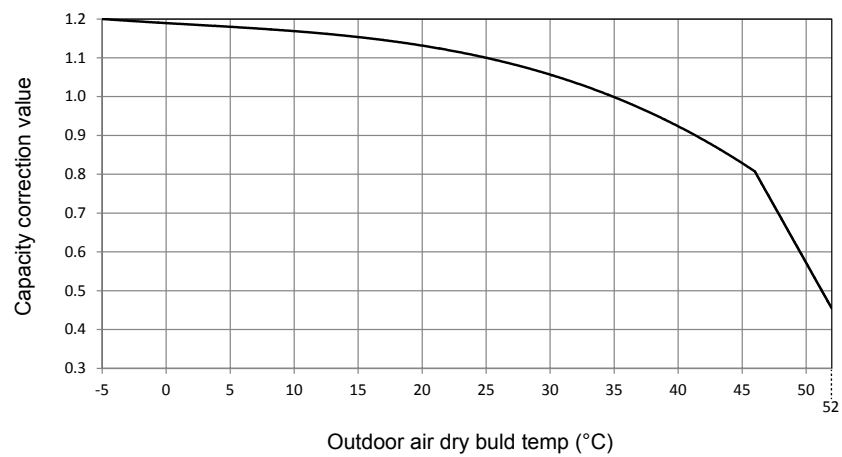
Graph E



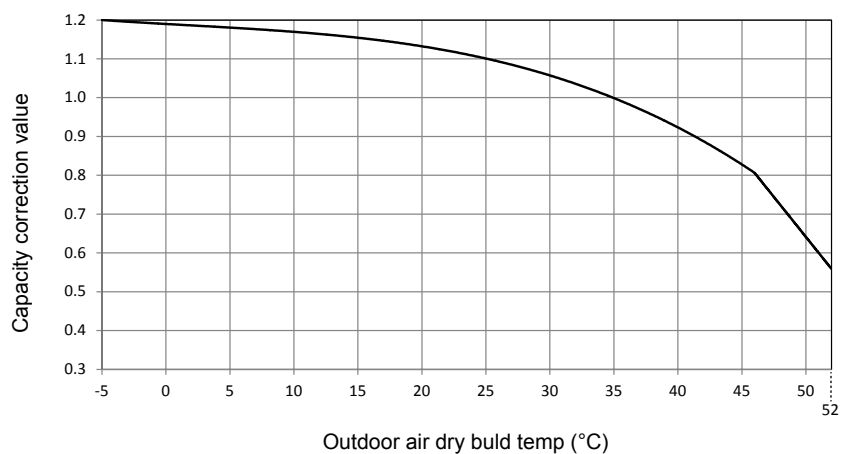
Graph F



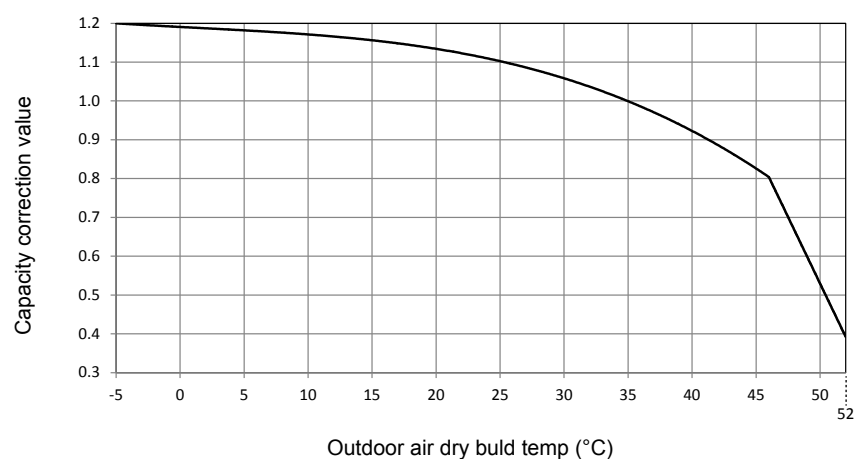
Graph G-1



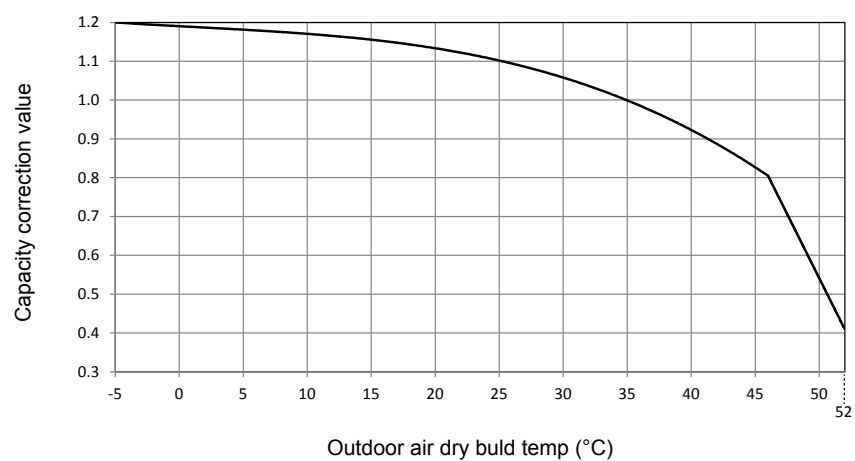
Graph G-2



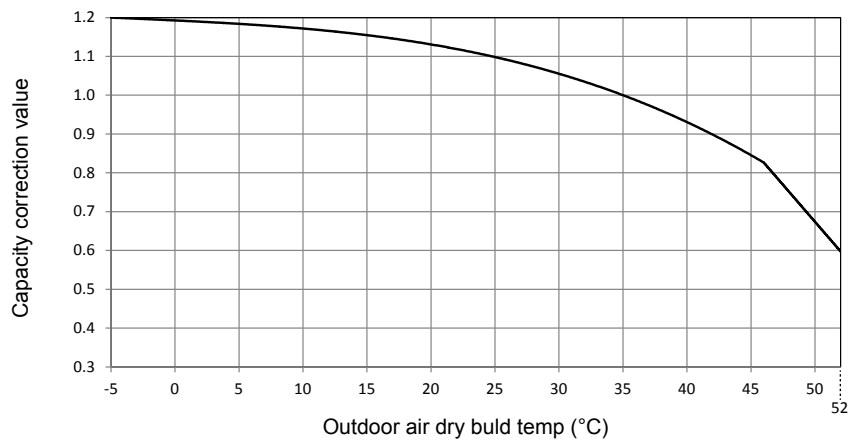
Graph G-3



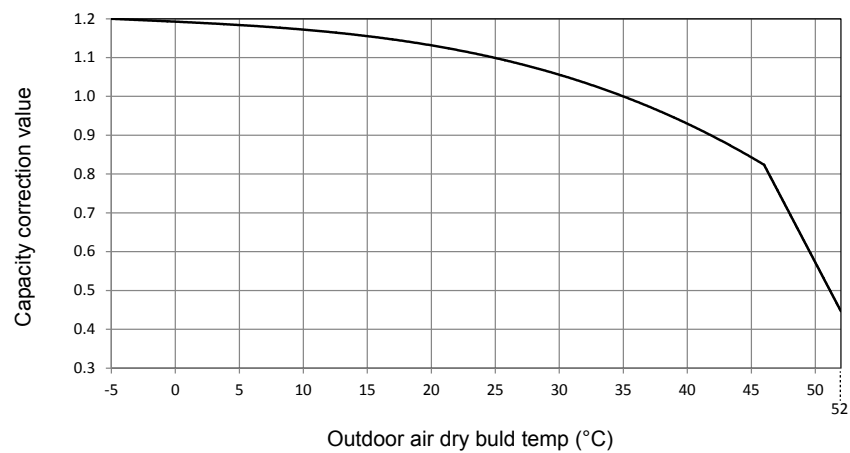
Graph G-4



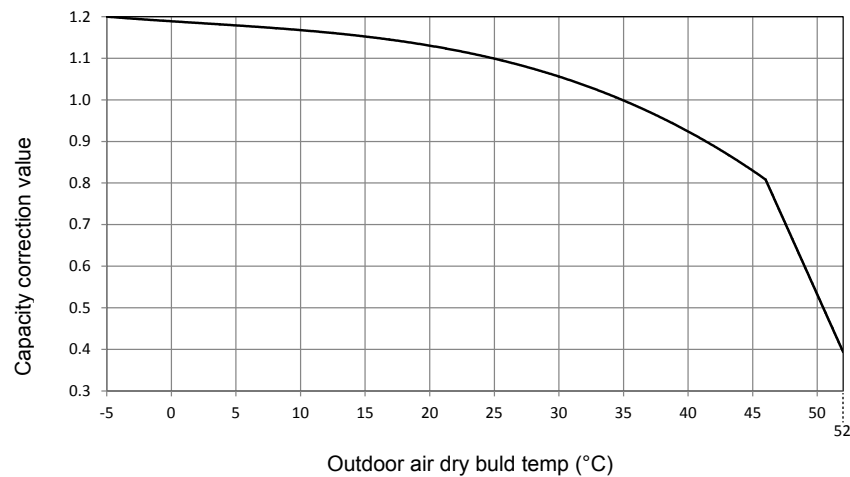
Graph H-1



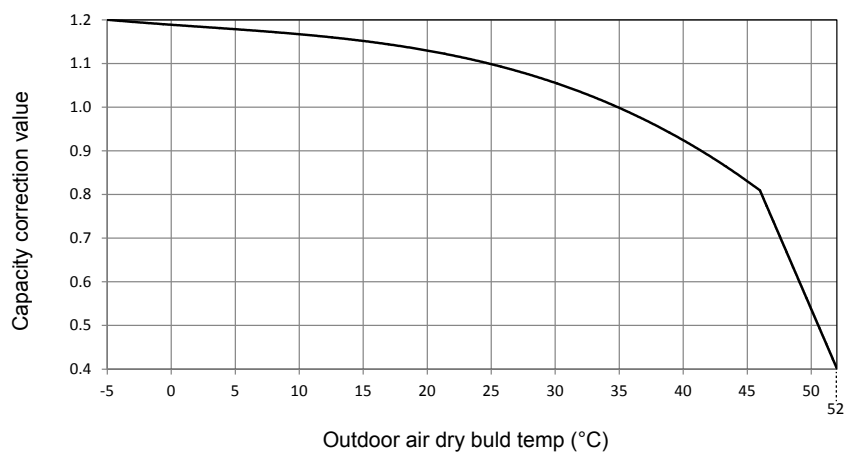
Graph H-2



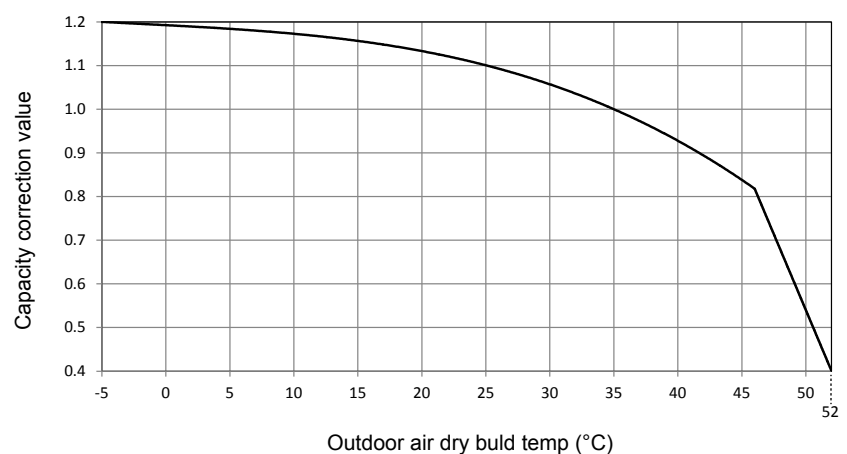
Graph I-1



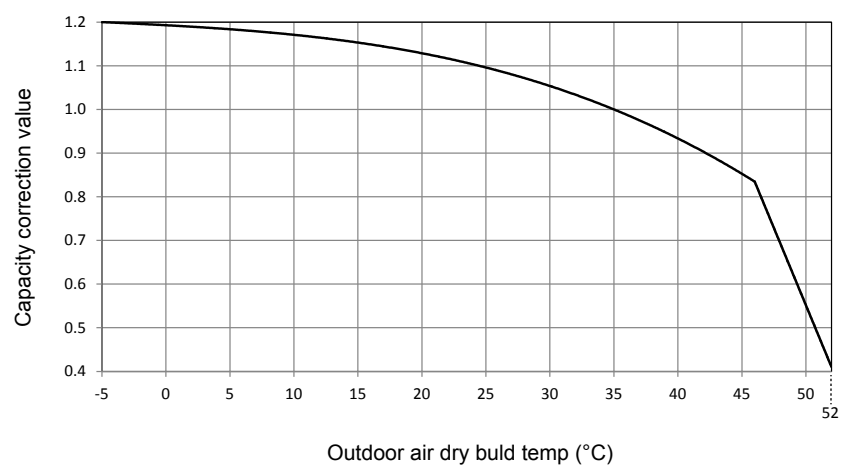
Graph I-2



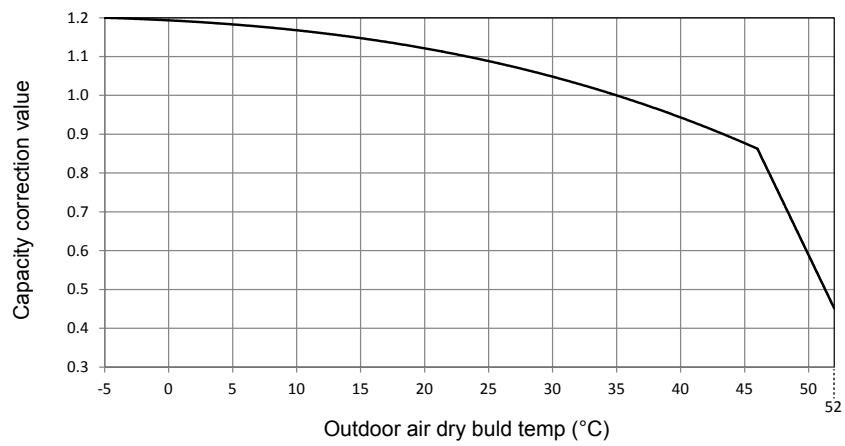
Graph J



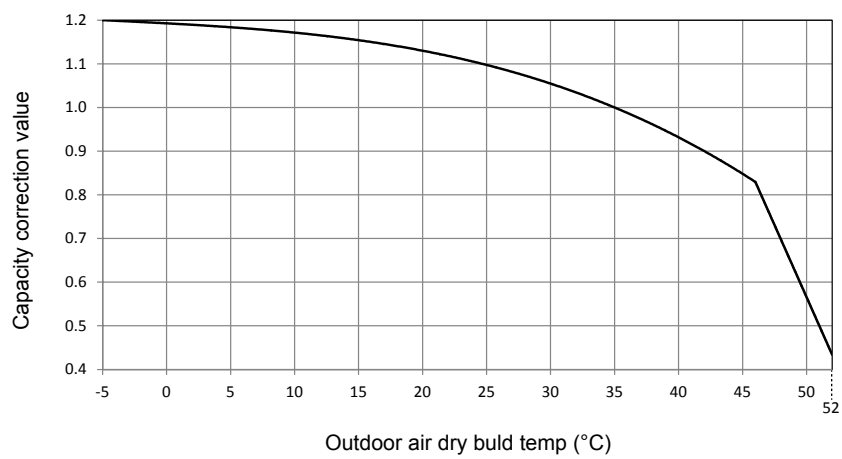
Graph K



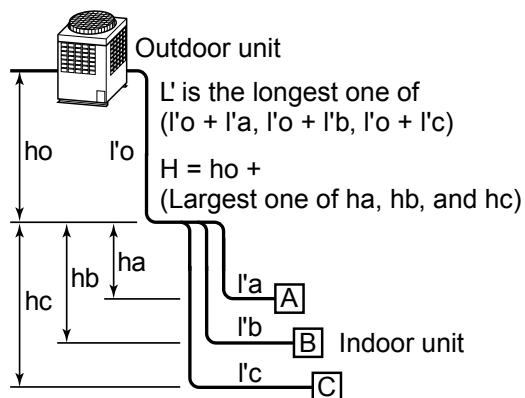
Graph L



Graph M



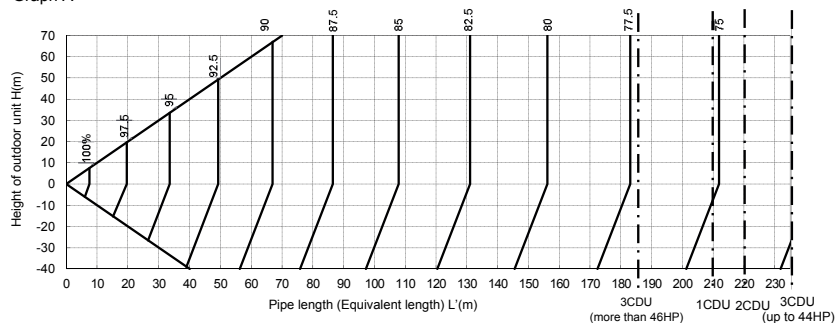
[3] Connecting pipe length and lift difference between indoor and outdoor units vs. capacity correction value



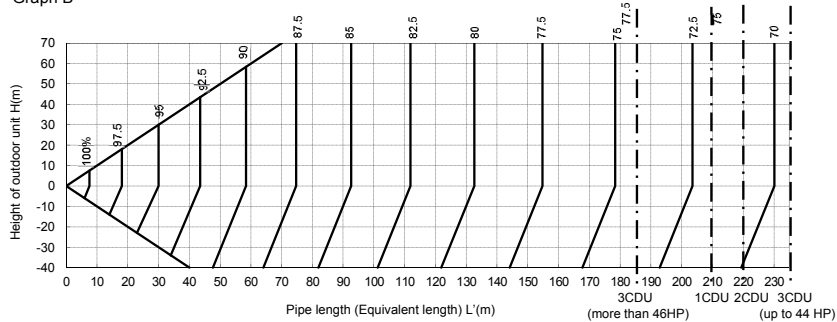
HP		ME standard		ME high efficiency	
		combination	Pipe length [m]	combination	Pipe length [m]
8	D	8	210		
10	C	10	210		
12	A	12	210		
14	A	14	210		
16	B	16	210	8+8	220
18	C	18	210	10+8	220
20	C	20	210	10+10	220
22	C	12+10	220		
24	A	12+12	220		
26	B	14+12	220		
28	B	14+14	220		
30	B	16+14	220	10+10+10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

* 1CDU=210
 * 2CDU=220
 * 3CDU (up to 44HP)=235
 * 3CDU (more than 46HP)=185

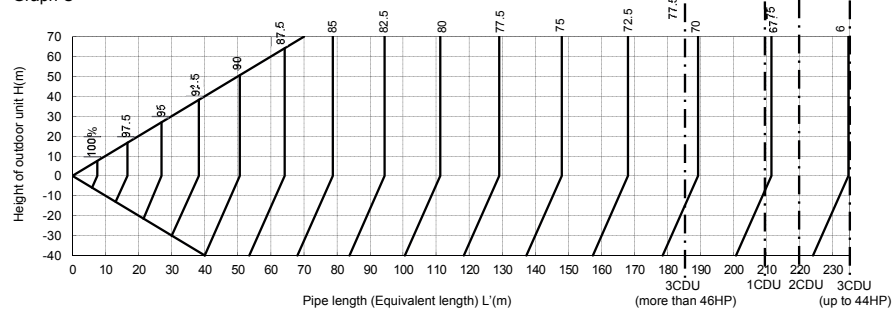
Graph A



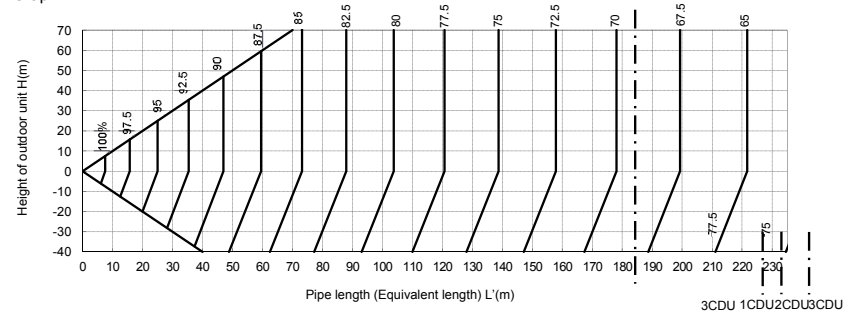
Graph B

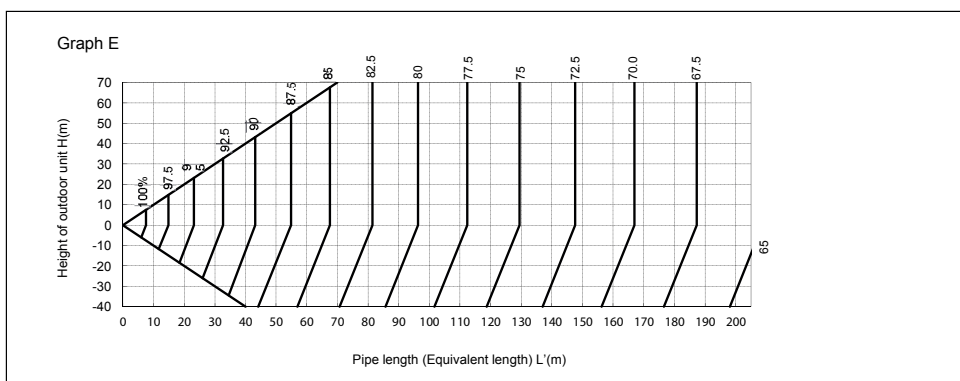


Graph C

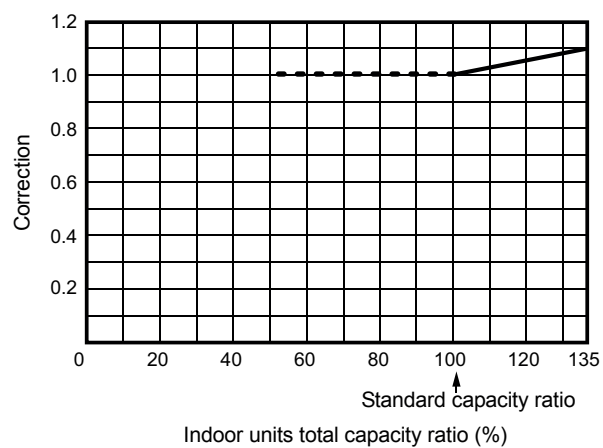


Graph D





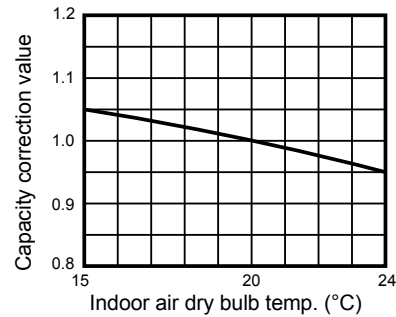
[4]* Correction of outdoor unit diversity



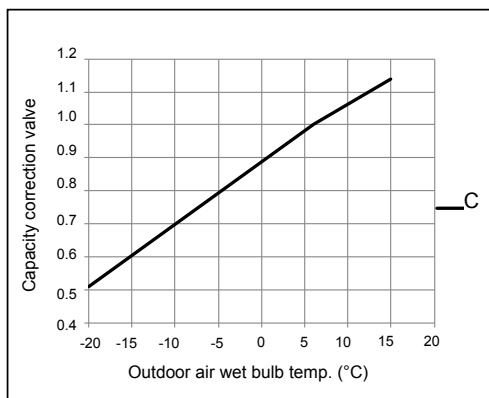
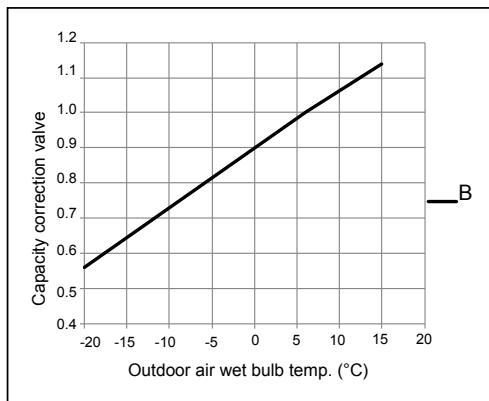
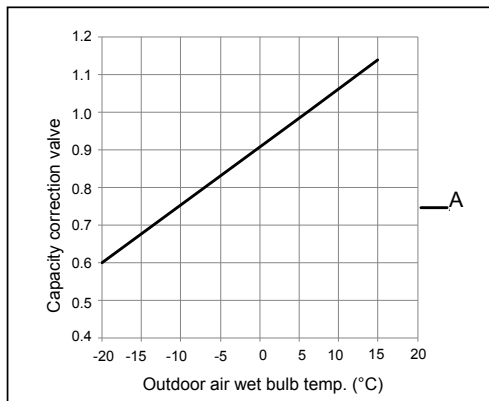
*: Coefficient to use for the correction of the outdoor unit capacity when the total capacity of the indoor units are not equal to the outdoor unit capacity.

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



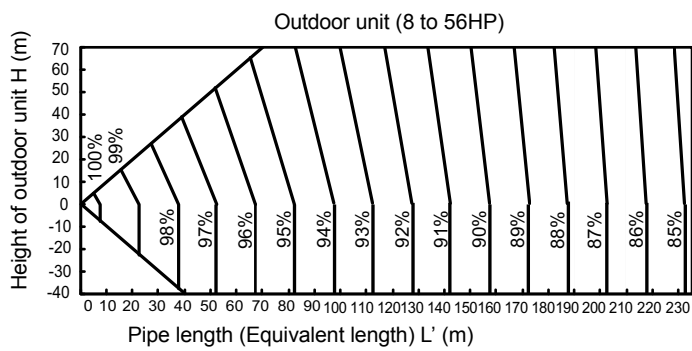
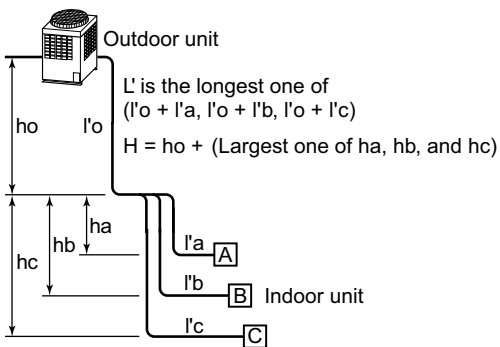
ME standard

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	12+10	C
24	12+12	C
26	14+12	C
28	14+14	B
30	16+14	C
32	16+16	C
34	18+16	C
36	18+18	B
38	20+18	C
40	20+20	C
42	14+14+14	B
44	16+14+14	B
46	16+16+14	C
48	16+16+16	C
50	18+16+16	C
52	18+18+16	B
54	20+20+14	C
56	20+20+16	C

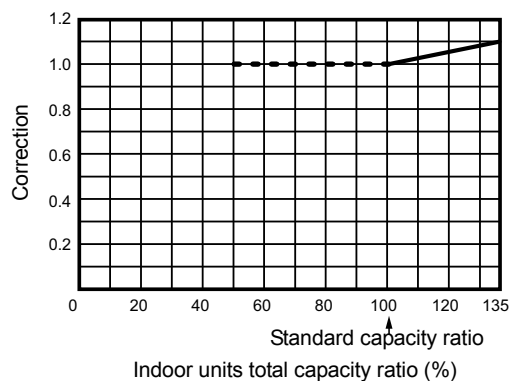
ME efficiency

HP	combination	Graph
16	8+8	A
18	10+8	B
20	10+10	B
30	10+10+10	B
32	12+10+10	B
34	12+12+10	C
38	14+12+12	C
40	14+14+12	B

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



[4]* Correction of outdoor unit diversity



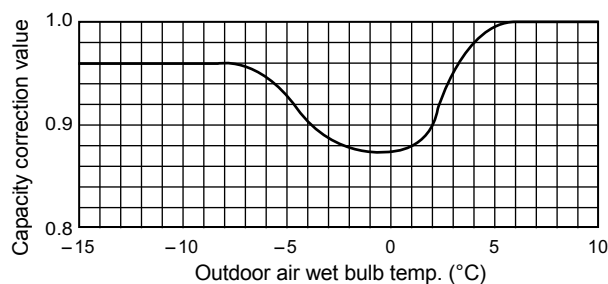
*: Coefficient to use for the correction of the outdoor unit capacity when the total capacity of the indoor units are not equal to the outdoor unit capacity.

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

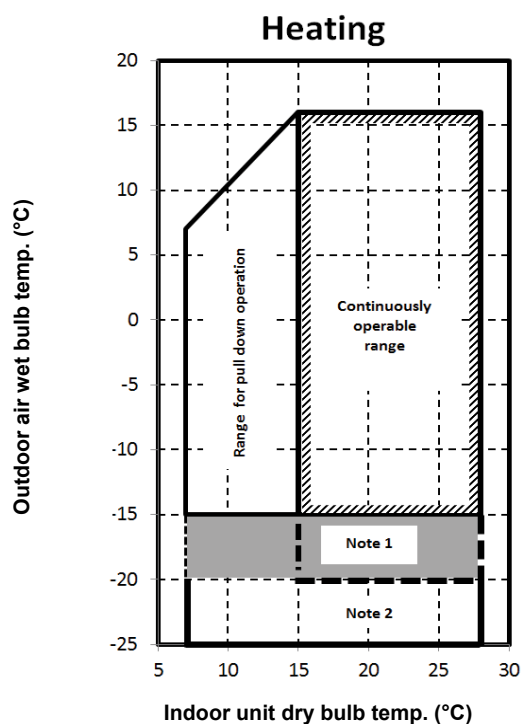
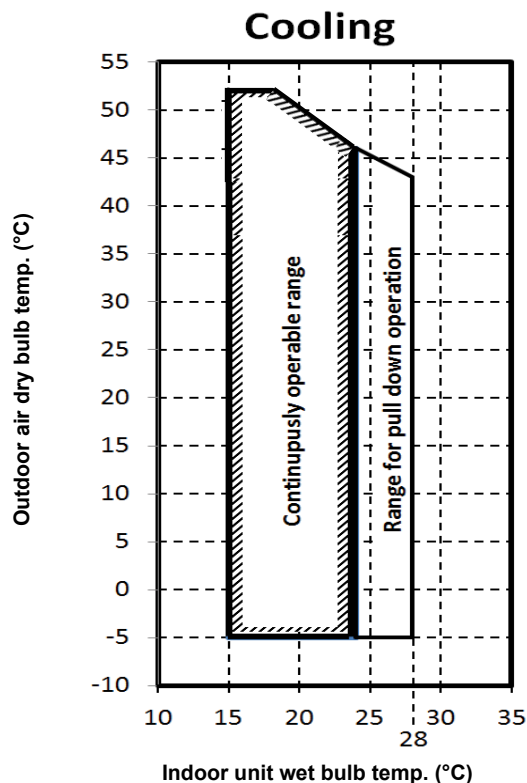


2-3-4. Rated conditions

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



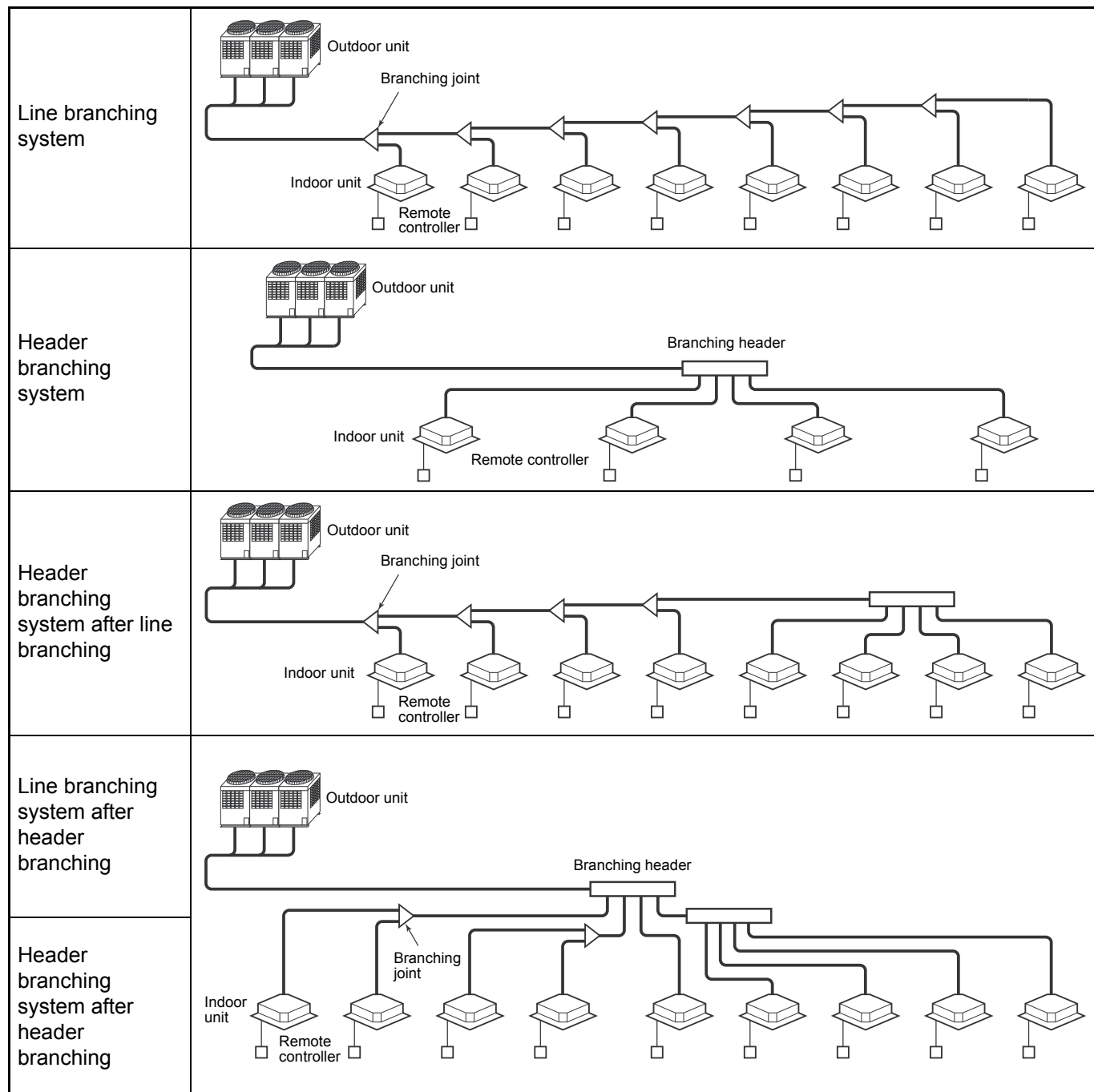
Note 1: The unit will operate down to an outdoor temperature of -25°C, however considerable performance decrease will be expected below -15°C. Therefore please consider installation location/surroundings and system design when expected to operate between -15°C and -20°C.

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

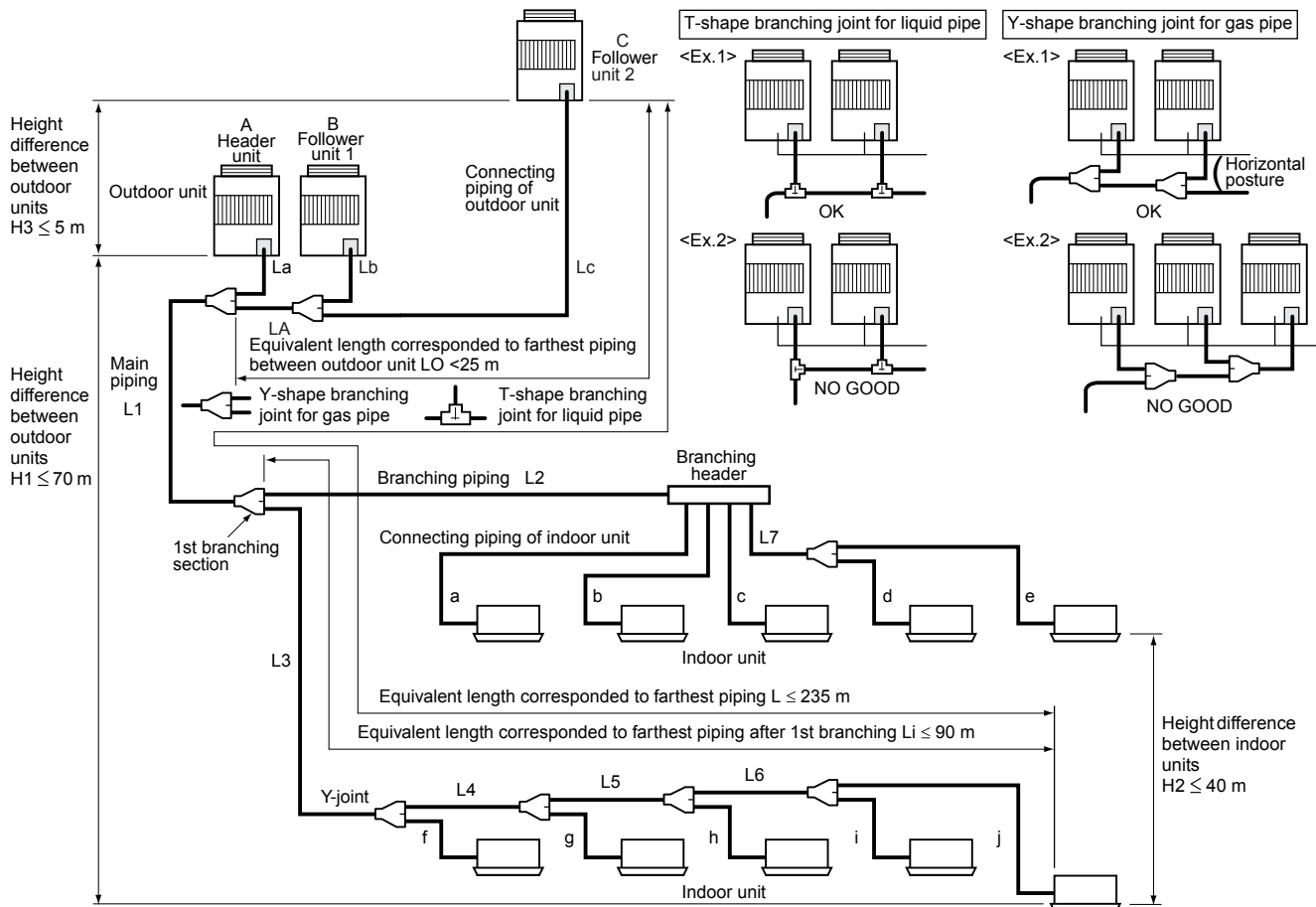
3-1. Free branching system

- [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.



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



- 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 ~ 40	42 ~ 44	46 ~ 56	16, 18, 20	30, 32, 34, 38, 40
Equivalent length (m)	210	220	235	185	220	235
Real length (m)	170	180	190	145	180	190

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

System restrictions

Max. No. of combined outdoor units	3 units
Max. capacity of combined outdoor units	56 HP
Max. No. of connected indoor units	64 units
Max. capacity of combined indoor units	H2 ≤ 15 135 % H2 > 15 105 %

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 34HP or more 1000 m(*6)	LA + La + Lb + Lc + L1 + L2 + L3 + L4 + L5 + L6 + L7 + a + b + c + d + e + f + g + h + i + j
	Farthest piping Length L (*1)	Equivalent length 235 m Real length 190 m	Lc + LA + L1 + L3 + L4 + L5 + L6 + j
	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) Real length 100 m (*3)	L1
	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
	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	—
Difference in height	Height between outdoor units H3	5 m	—

(*1) : (C) 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 capacity 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.

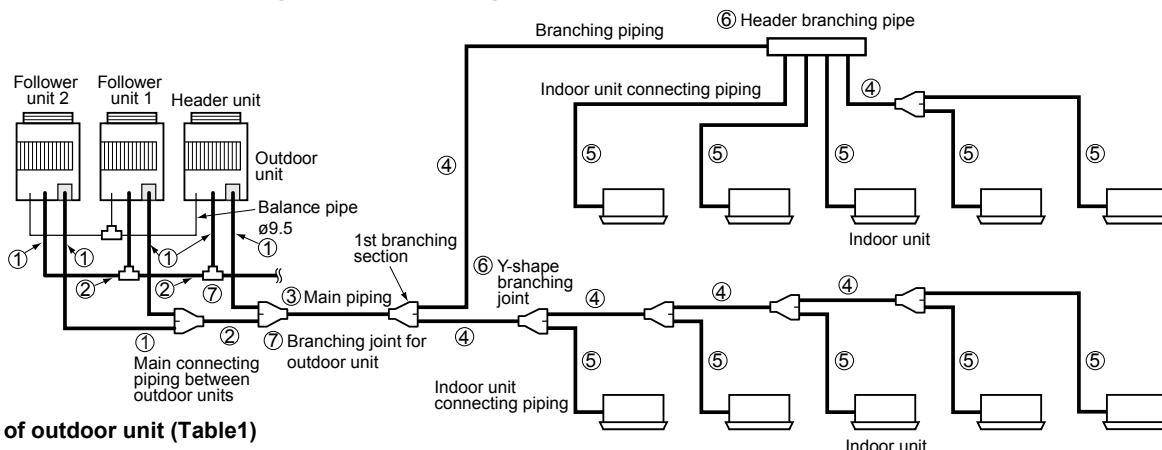
(*5) : If the height difference (H3) between outdoor units exceeds 3 m, set 30 m or less.

(*6) : Total charging refrigerant is 140kg or less.

(*7) : Extension up till 90m is possible with conditions below

- Outdoor Temperature Cooling : 10 - 52 (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

② Connecting pipe size between outdoor units (Table 2)

Total capacity code of outdoor unit at downstream 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 unit*1	Gas side	Liquid side
8 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
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

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

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

SMMS-e 8HP to 60HP	Gas side	Liquid side
Total capacity code of indoor unit at downstream side*1		
2.4 or less	ø12.7	ø9.5
2.4 to below 6.4	ø15.9	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
35.2 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
007 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

*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 ø19.1 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.

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 14.2	RBM-BY105E
	14.2 to below 25.2	RBM-BY205E
	25.2 or more	RBM-BY305E
Branching header *2 *3 *6 *8	For 4 branching	Below 14.2
	For 4 branching	14.2 to below 25.2
	For 8 branching	Below 14.2
	For 8 branching	14.2 to below 25.2

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

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

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
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

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]

[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 1 m. (Table 3)) x 1.2

Example: Additional charge amount R (kg) = [1] + [2] + ([3] x 1.2) = 2.5 + 22.4 + (39.1 x 1.2) = 71.8

System HP : 56HP

Indoor unit (Standard Indoor units) : 56HP

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 x 56 = 22.4kg

[3]. Real length of liquid pipe x Additional refrigerant charge amount per liquid pipe
= (0.350 x 100) + (0.250 x 10) + (0.160 x 10) = 35 + 2.5 + 1.6 = 39.1kg

Table 1

Standard model

System	Combination			Charged refrigerant	Compensation by System HP
HP	HP			kg	kg
8	8			11.5	-3.5
10	10			11.5	-3.5
12	12			11.5	-1.5
14	14			11.5	-1.0
16	16			11.5	-0.5
18	18			11.5	1.5
20	20			11.5	1.5
22	12	10		23	-7.0
24	12	12		23	-3.0
26	14	12		23	-2.5
28	14	14		23	-3.0
30	16	14		23	-1.5
32	16	16		23	-1.0
34	18	16		23	1.0
36	18	18		23	3.0
38	20	18		23	3.0
40	20	20		23	3.0
42	14	14	14	34.5	-4.5
44	16	14	14	34.5	-4.5
46	16	16	14	34.5	-6.5
48	16	16	16	34.5	-6.5
50	18	16	16	34.5	-0.5
52	18	18	16	34.5	1.5
54	20	20	14	34.5	1.5
56	20	20	16	34.5	2.5

High efficiency model

System	Combination			Charged refrigerant	Compensation by System HP
HP	HP			kg	kg
16	8	8		23	-7.0
18	10	8		23	-7.0
20	10	10		23	-7.0
30	10	10	10	34.5	-10.5
32	12	10	10	34.5	-10.5
34	12	12	10	34.5	-10.5
38	14	12	12	34.5	-10.5
40	14	14	12	34.5	-8.5

Table 2

Additional refrigerant charge amount Indoor unit	Standard Indoor unit	Fresh Air Intake Indoor Unit	High efficiency Indoor unit
Additional refrigerant charge amount kg/HP	0.4	0.2	0.7

Table 3

Pipe dia. at liquid side	mm	ø6.4	ø9.5	ø12.7	ø15.9	ø19.0	ø22.2
Additional refrigerant amount/1	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.

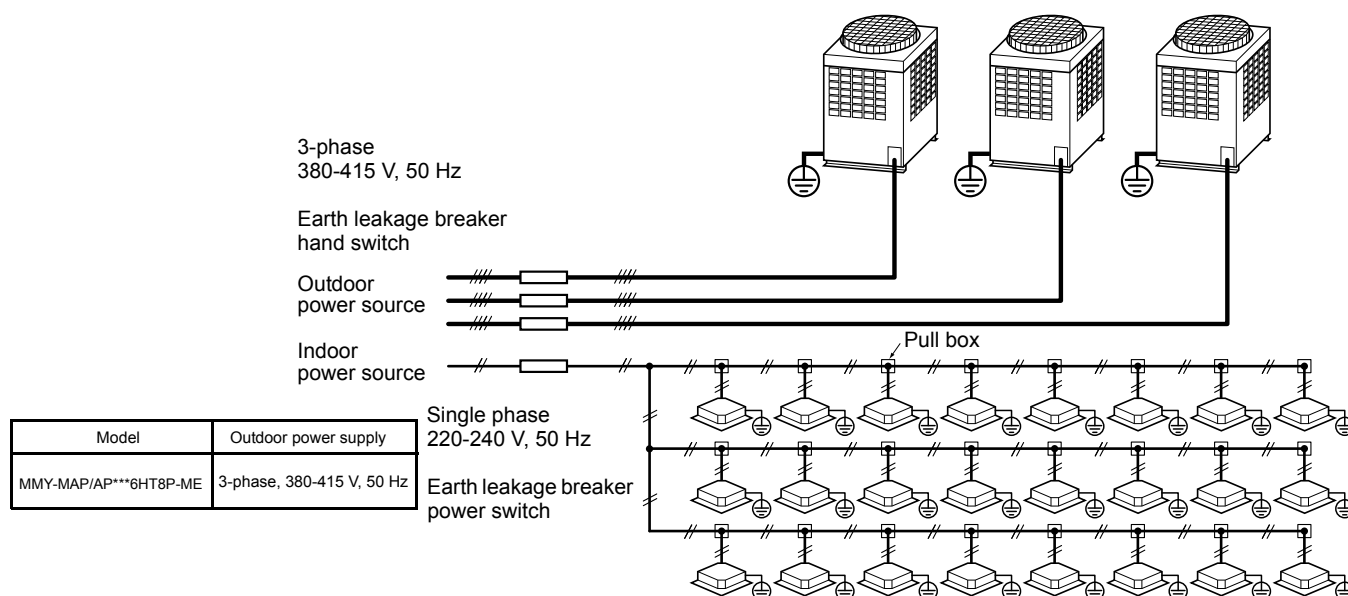
Design of indoor unit power supply

- 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

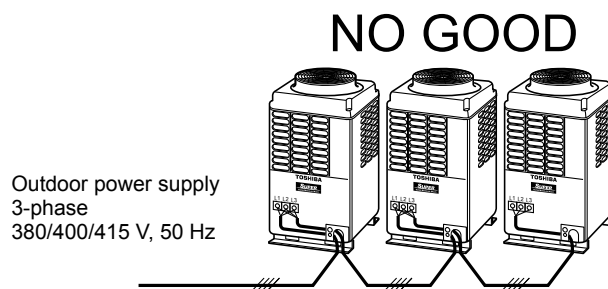


4-4. Outdoor unit power supply

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-ME	3-phase, 380-415 V, 50 Hz



Outdoor unit data

Standard model

Type	HP	Heat Pump Model MMY-	Power Supply		Voltage Range		Compressor			Fan Motor (kW)	MCA (A)	MOCP (A)
			Phase and frequency	Nominal Voltage	Min. (V)	Max (V)	Unit No.1 (kW)	Unit No.2 (kW)	Unit No.3 (kW)			
Single unit	8	MMY-MAP0806HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	2.1x2	-	-	1.0	20.5	25.0
	10	MMY-MAP1006HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	3.1x2	-	-	1.0	21.5	25.0
	12	MMY-MAP1206HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	3.9x2	-	-	1.0	26.1	32.0
	14	MMY-MAP1406HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	-	-	1.0	31.0	40.0
	16	MMY-MAP1606HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	-	-	1.0	35.8	40.0
	18	MMY-MAP1806HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	6.5x2	-	-	2.0	40.6	50.0
	20	MMY-MAP2006HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	-	-	2.0	44.9	63.0
Combination of outdoor unit	22	MMY-AP2216HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	3.9x2	3.1x2	-	1.0+1.0	47.6	63.0
	24	MMY-AP2416HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	3.9x2	3.9x2	-	1.0+1.0	52.2	63.0
	26	MMY-AP2616HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	3.9x2	-	1.0+1.0	57.1	63.0
	28	MMY-AP2816HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	4.8x2	-	1.0+1.0	62.0	80.0
	30	MMY-AP3016HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	4.8x2	-	1.0+1.0	66.8	80.0
	32	MMY-AP3216HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	5.8x2	-	1.0+1.0	71.6	80.0
	34	MMY-AP3416HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	6.5x2	5.8x2	-	2.0+1.0	76.4	100.0
	36	MMY-AP3616HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	6.5x2	6.5x2	-	2.0+2.0	81.2	100.0
	38	MMY-AP3816HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	6.5x2	-	2.0+2.0	85.5	100.0
	40	MMY-AP4016HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	7.6x2	-	2.0+2.0	89.8	100.0
	42	MMY-AP4216HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	4.8x2	4.8x2	1.0+1.0+1.0	93.0	125.0
	44	MMY-AP4416HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	4.8x2	4.8x2	1.0+1.0+1.0	97.8	125.0
	46	MMY-AP4616HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	5.8x2	4.8x2	1.0+1.0+1.0	102.6	125.0
	48	MMY-AP4816HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	5.8x2	5.8x2	5.8x2	1.0+1.0+1.0	107.4	125.0
	50	MMY-AP5016HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	6.5x2	5.8x2	5.8x2	2.0+1.0+1.0	112.2	125.0
	52	MMY-AP5216HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	6.5x2	6.5x2	5.8x2	2.0+2.0+1.0	117.0	160.0
	54	MMY-AP5416HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	7.6x2	4.8x2	2.0+2.0+1.0	120.8	160.0
	56	MMY-AP5616HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	7.6x2	7.6x2	5.8x2	2.0+2.0+1.0	125.6	160.0
High efficiency model	16	MMY-AP1626HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	2.1x2	2.1x2	-	1.0+1.0	41.0	50.0
	18	MMY-AP1826HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	3.1x2	2.1x2	-	1.0+1.0	42.0	50.0
	20	MMY-AP2026HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	3.1x2	3.1x2	-	1.0+1.0	43.0	50.0
	30	MMY-AP3026HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	3.1x2	3.1x2	3.1x2	1.0+1.0+1.0	64.5	80.0
	32	MMY-AP3226HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	3.9x2	3.1x2	3.1x2	1.0+1.0+1.0	69.1	80.0
	34	MMY-AP3426HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	3.9x2	3.9x2	3.1x2	1.0+1.0+1.0	73.7	100.0
	38	MMY-AP3826HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	3.9x2	3.9x2	1.0+1.0+1.0	83.2	100.0
	40	MMY-AP4026HT8P-ME	3N~ 50 Hz	380-400-415 V	342	456	4.8x2	4.8x2	3.9x2	1.0+1.0+1.0	88.1	100.0

4-5. Indoor unit power supply

• Electrical characteristics for 50Hz outdoor units

Type	Model	Nominal Voltage	Voltage Range		Fan Motor		Power Supply	
		(V-Ph-Hz)	Min	Max	kW	FLA	MCA	MOCP
4-Way Air Discharge Cassette Type	MMU-AP0094HP1-E	230-1-50	198	264	0.014	0.63	0.79	15
	MMU-AP0124HP1-E	230-1-50	198	264	0.014	0.63	0.79	15
	MMU-AP0154HP1-E	230-1-50	198	264	0.014	0.80	1.00	15
	MMU-AP0184HP1-E	230-1-50	198	264	0.014	0.80	1.00	15
	MMU-AP0244HP1-E	230-1-50	198	264	0.020	0.87	1.09	15
	MMU-AP0274HP1-E	230-1-50	198	264	0.020	0.87	1.09	15
	MMU-AP0304HP1-E	230-1-50	198	264	0.020	0.87	1.09	15
	MMU-AP0364HP1-E	230-1-50	198	264	0.068	1.15	1.44	15
	MMU-AP0484HP1-E	230-1-50	198	264	0.072	1.15	1.44	15
	MMU-AP0564HP1-E	230-1-50	198	264	0.072	1.15	1.44	15
Compact 4-way Cassette (600 x 600) Type	MMU-AP0057MH-E	230-1-50	198	264	0.060	0.32	0.40	15
	MMU-AP0077MH-E	230-1-50	198	264	0.060	0.32	0.40	15
	MMU-AP0097MH-E	230-1-50	198	264	0.060	0.35	0.44	15
	MMU-AP0127MH-E	230-1-50	198	264	0.060	0.36	0.45	15
	MMU-AP0157MH-E	230-1-50	198	264	0.060	0.48	0.60	15
	MMU-AP0187MH-E	230-1-50	198	264	0.060	0.48	0.60	15
2-Way Air Discharge Cassette Type	MMU-AP0072WH1	230-1-50	198	264	0.020	0.32	0.40	15
	MMU-AP0092WH1	230-1-50	198	264	0.020	0.32	0.40	15
	MMU-AP0122WH1	230-1-50	198	264	0.020	0.32	0.40	15
	MMU-AP0152WH1	230-1-50	198	264	0.020	0.32	0.40	15
	MMU-AP0182WH1	230-1-50	198	264	0.030	0.70	0.88	15
	MMU-AP0242WH1	230-1-50	198	264	0.040	0.81	1.01	15
	MMU-AP0272WH1	230-1-50	198	264	0.040	0.81	1.01	15
	MMU-AP0302WH1	230-1-50	198	264	0.050	0.81	1.01	15
	MMU-AP0362WH1	230-1-50	198	264	0.070	0.87	1.09	15
	MMU-AP0485WH1	230-1-50	198	264	0.070	0.87	1.09	15
	MMU-AP0562WH1	230-1-50	198	264	0.070	0.87	1.09	15
	MMU-AP0074YH1-E	230-1-50	198	264	0.022	0.28	0.35	15
1-Way Air Discharge Cassette Type	MMU-AP0094YH1-E	230-1-50	198	264	0.022	0.28	0.35	15
	MMU-AP0124YH1-E	230-1-50	198	264	0.022	0.28	0.35	15
	MMU-AP0154SH1-E	230-1-50	198	264	0.030	0.40	0.49	15
	MMU-AP0184SH1-E	230-1-50	198	264	0.030	0.42	0.53	15
	MMU-AP0244SH1-E	230-1-50	198	264	0.030	0.71	0.88	15
	MMU-AP0244SH1-E	230-1-50	198	264	0.030	0.71	0.88	15
Concealed Duct Type	MMD-AP0076BHP1-E	230-1-50	198	264	0.150	0.30	0.37	15
	MMD-AP0096BHP1-E	230-1-50	198	264	0.150	0.34	0.42	15
	MMD-AP0126BHP1-E	230-1-50	198	264	0.150	0.34	0.42	15
	MMD-AP0156BHP1-E	230-1-50	198	264	0.150	0.48	0.61	15
	MMD-AP0186BHP1-E	230-1-50	198	264	0.150	0.48	0.61	15
	MMD-AP0246BHP1-E	230-1-50	198	264	0.150	0.60	0.75	15
	MMD-AP0276BHP1-E	230-1-50	198	264	0.150	0.60	0.75	15
	MMD-AP0306BHP1-E	230-1-50	198	264	0.150	0.70	0.88	15
	MMD-AP0366BHP1-E	230-1-50	198	264	0.250	1.23	1.54	15
	MMD-AP0486BHP1-E	230-1-50	198	264	0.250	1.41	1.77	15
	MMD-AP0566BHP1-E	230-1-50	198	264	0.250	1.41	1.77	15
	MMD-AP0186HP1-E	230-1-50	198	264	0.25	1.02	1.28	15
Concealed Duct High Static Pressure Type	MMD-AP0246HP1-E	230-1-50	198	264	0.25	1.33	1.66	15
	MMD-AP0276HP1-E	230-1-50	198	264	0.25	1.33	1.66	15
	MMD-AP0366HP1-E	230-1-50	198	264	0.35	2.22	2.78	15
	MMD-AP0486HP1-E	230-1-50	198	264	0.35	2.40	2.99	15
	MMD-AP0566HP1-E	230-1-50	198	264	0.35	2.57	3.22	15
	MMD-AP0726H-E	230-1-50	198	264	0.37x3	6.04	7.55	15
	MMD-AP0966H-E	230-1-50	198	264	0.37x3	6.35	7.94	15
	MMD-AP0966H-E	230-1-50	198	264	0.37x3	6.35	7.94	15

Type	Model	Nominal Voltage	Voltage Range		Fan Motor		Power Supply	
		(V-Ph-Hz)	Min	Max	kW	FLA	MCA	MOCP
Slim Duct Type	MMD-AP0074SPH1-E	230-1-50	198	264	0.060	0.35	0.44	15
	MMD-AP0094SPH1-E	230-1-50	198	264	0.060	0.35	0.44	15
	MMD-AP0124SPH1-E	230-1-50	198	264	0.060	0.37	0.47	15
	MMD-AP0154SPH1-E	230-1-50	198	264	0.060	0.38	0.48	15
	MMD-AP0184SPH1-E	230-1-50	198	264	0.060	0.47	0.59	15
	MMD-AP0244SPH1-E	230-1-50	198	264	0.120	0.86	1.08	15
	MMD-AP0274SPH1-E	230-1-50	198	264	0.120	0.86	1.08	15
CeilingType	MMC-AP0158HP-E	230-1-50	198	264	0.030	0.33	0.41	15
	MMC-AP0188HP-E	230-1-50	198	264	0.030	0.37	0.46	15
	MMC-AP0248HP-E	230-1-50	198	264	0.040	0.48	0.60	15
	MMC-AP0278HP-E	230-1-50	198	264	0.040	0.48	0.60	15
	MMC-AP0368HP-E	230-1-50	198	264	0.080	0.90	1.13	15
	MMC-AP0488HP-E	230-1-50	198	264	0.080	0.96	1.20	15
	MMC-AP0588HP-E	230-1-50	198	264	0.139	1.14	1.43	15
High-wall Type (3 series)	MMK-AP0073H1	230-1-50	198	264	0.03	0.20	0.22	15
	MMK-AP0093H1	230-1-50	198	264	0.03	0.22	0.24	15
	MMK-AP0123H1	230-1-50	198	264	0.03	0.22	0.24	15
	MMK-AP0153H1	230-1-50	198	264	0.03	0.37	0.4	15
	MMK-AP0183H1	230-1-50	198	264	0.03	0.37	0.4	15
	MMK-AP0243H1	230-1-50	198	264	0.03	0.43	0.47	15
High-wall Type (7 series)	MMK-AP0077MH-E	230-1-50	198	264	0.03	0.17	0.21	15
	MMK-AP0097MH-E	230-1-50	198	264	0.03	0.18	0.23	15
	MMK-AP0127MH-E	230-1-50	198	264	0.03	0.20	0.25	15
Floor Standing Cabinet Type	MML-AP0074H1-E	230-1-50	198	264	0.045	0.30	0.37	15
	MML-AP0094H1-E	230-1-50	198	264	0.045	0.30	0.37	15
	MML-AP0124H1-E	230-1-50	198	264	0.045	0.49	0.62	15
	MML-AP0154H1-E	230-1-50	198	264	0.045	0.49	0.62	15
	MML-AP0184H1-E	230-1-50	198	264	0.070	0.54	0.68	15
	MML-AP0244H1-E	230-1-50	198	264	0.070	0.54	0.68	15
Floor Standing Concealed Type	MML-AP0074BH1-E	230-1-50	198	264	0.019	0.29	0.36	15
	MML-AP0094BH1-E	230-1-50	198	264	0.019	0.29	0.36	15
	MML-AP0124BH1-E	230-1-50	198	264	0.019	0.29	0.36	15
	MML-AP0154BH1-E	230-1-50	198	264	0.070	0.52	0.65	15
	MML-AP0184BH1-E	230-1-50	198	264	0.070	0.52	0.65	15
	MML-AP0244BH1-E	230-1-50	198	264	0.070	0.53	0.66	15
Floor Standing Type	MMF-AP0156H1-E	230-1-50	198	264	0.062	0.44	0.55	15
	MMF-AP0186H1-E	230-1-50	198	264	0.062	0.44	0.55	15
	MMF-AP0246H1-E	230-1-50	198	264	0.062	0.69	0.86	15
	MMF-AP0276H1-E	230-1-50	198	264	0.062	0.69	0.86	15
	MMF-AP0366H1-E	230-1-50	198	264	0.109	1.04	1.29	15
	MMF-AP0486H1-E	230-1-50	198	264	0.109	1.27	1.58	15
	MMF-AP0566H1-E	230-1-50	198	264	0.109	1.27	1.58	15
Console Type	MML-AP0074NH1-E	230-1-50	198	264	0.041	0.21	0.26	15
	MML-AP0094NH1-E	230-1-50	198	264	0.041	0.21	0.26	15
	MML-AP0124NH1-E	230-1-50	198	264	0.041	0.25	0.31	15
	MML-AP0154NH1-E	230-1-50	198	264	0.041	0.32	0.40	15
	MML-AP0184NH1-E	230-1-50	198	264	0.041	0.46	0.58	15
Fresh Air Intake Indoor unit Type	MMD-AP0481HFE1	230-1-50	198	264	0.16	1.64	2.06	15
	MMD-AP0721HFE1	230-1-50	198	264	0.16x2	2.90	3.62	15
	MMD-AP0961HFE1	230-1-50	198	264	0.16x2	3.14	3.92	15



- **Wiring size**

Must be independent from the outdoor unit power supply

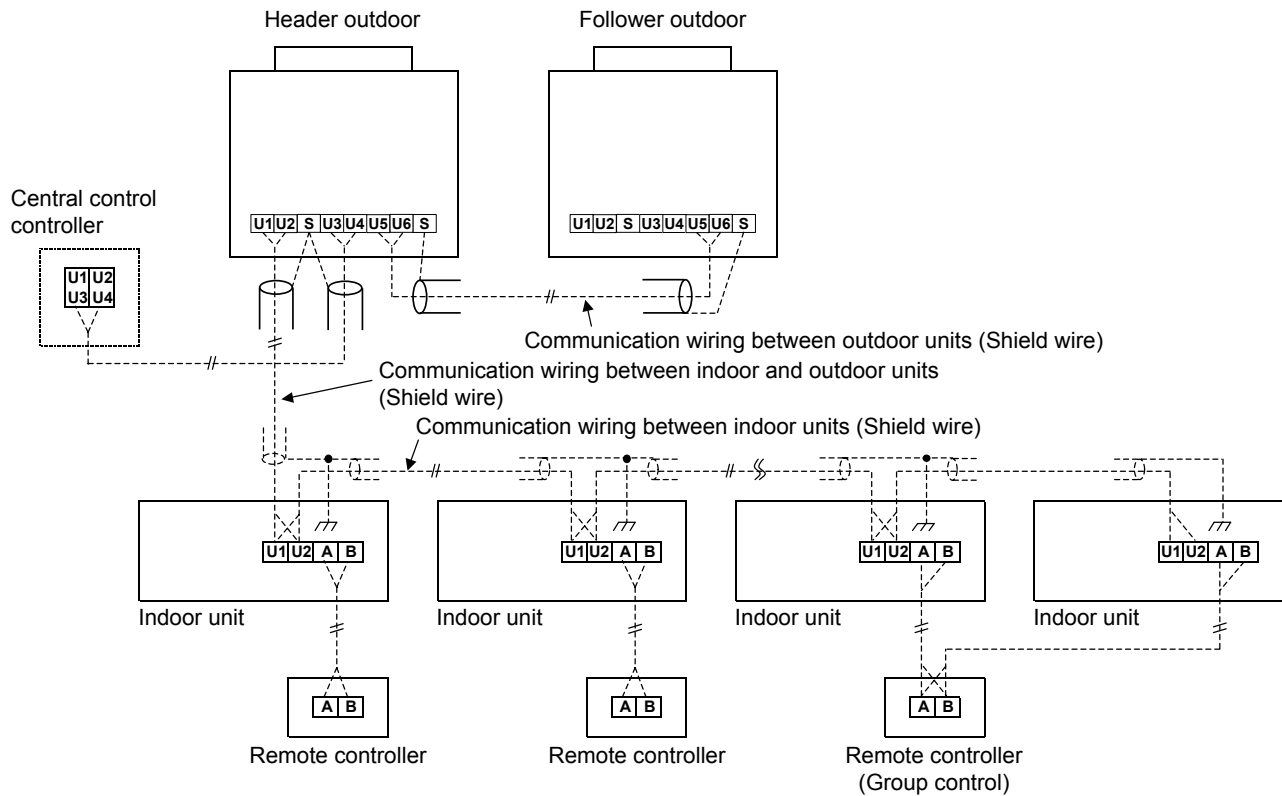
Model \ Item	Power supply wiring			
	Wire size			
All models of indoor units	2.0 mm ² (AWG#14)	Max. 20 m	3.5 mm ² (AWG#12)	Max. 50 m

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 controller. (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.

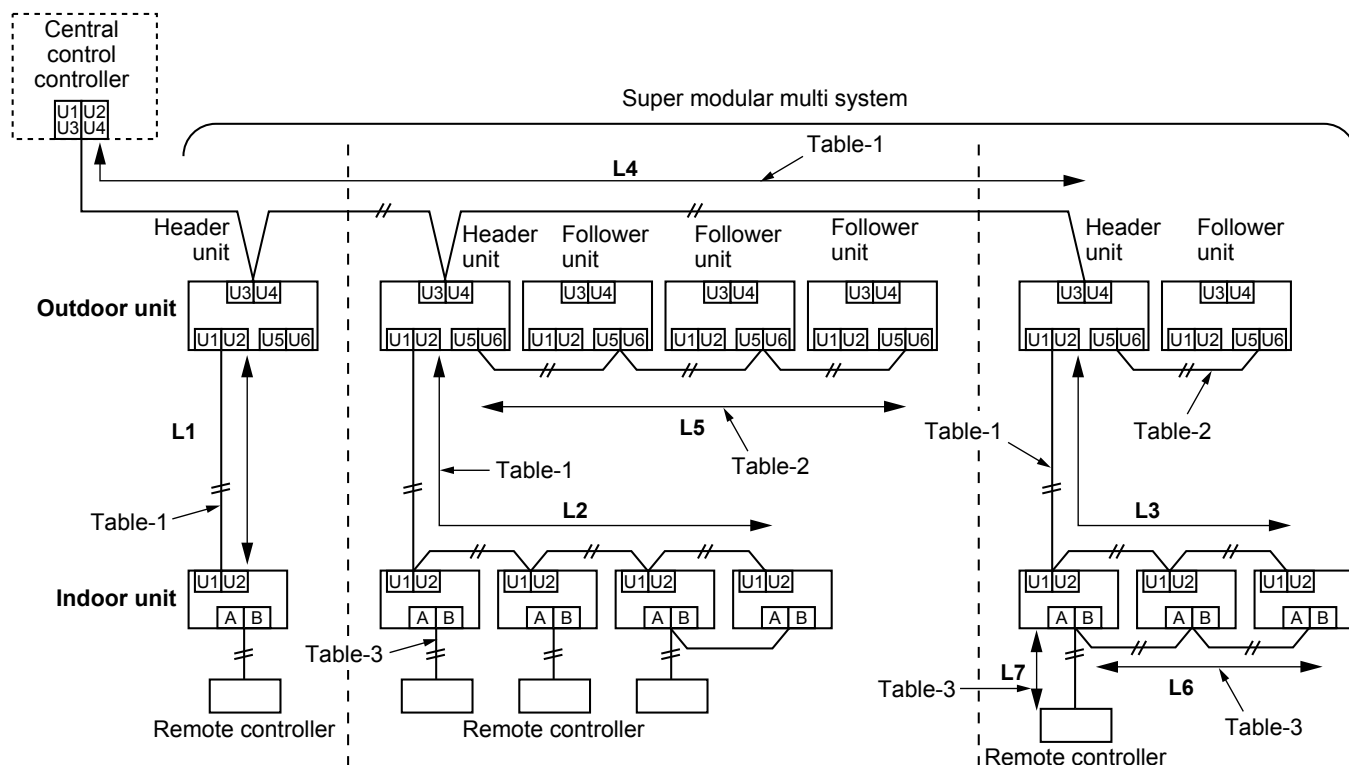


Table-1 Communication wiring between indoor and outdoor units (L1, L2, L3), Central control wiring (L4)

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)

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

Table-2 Communication 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)

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



5-1. Specifications

Standard model (50Hz/380 ~ 415V)

ME model

Model name		Heat pump			MMY-MAP0806HT8P-ME	MMY-MAP1006HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1406HT8P-ME
Outdoor unit type					Inverter unit	Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	22.4	28.0	33.5	40.0	
			Btu/h	76000	96000	114000	136000	
Cooling capacity (*2)			kW	20.3	25.2	26.8	32.5	
			Btu/h	69000	86000	91000	110000	
Cooling capacity (*3)			kW	19.6	20.2	20.8	24.9	
			Btu/h	67000	69000	71000	85000	
Heating capacity (*1)			kW	25.0	31.5	37.5	45.0	
			Btu/h	85000	107000	127000	152000	
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 (*4)		Minimum	V	342	342	342	342	
		Maximum	V	456	456	456	456	
Electrical characteristic	Cooling (*1)	Running current	A	7.68	10.10	12.70	15.40	
		Power input	kW	4.84	6.28	8.24	9.86	
		EER	kW/kW	4.63	4.46	4.07	4.05	
			Btu/Wh	15.70	15.30	13.85	13.80	
		Power input	kW	6.55	8.75	8.98	11.60	
	Cooling (*2)	EER	kW/kW	3.10	2.88	2.98	2.80	
			Btu/Wh	10.55	9.83	10.13	9.48	
		Power input	kW	6.5	6.3	6.1	8.0	
	Cooling (*3)	EER	kW/kW	3.03	3.22	3.40	3.12	
			Btu/Wh	10.36	11.00	11.60	10.65	
		Running current	A	8.53	11.10	14.30	16.80	
	Heating (*1)	Power input	kW	5.38	7.08	9.24	10.60	
		COP	kW/kW	4.65	4.45	4.06	4.25	
			Btu/Wh	15.85	15.15	13.85	14.45	
	Starting current		A	Soft Start	Soft Start	Soft Start	Soft Start	
Dimension		Height	mm	1800	1800	1800	1800	
		Width	mm	990	990	990	1210	
		Depth	mm	780	780	780	780	
Weight		Heat pump	kg	242	242	242	299	
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					(*5)	(*5)	(*5)	(*5)
Power supply wiring		MCA (*6)	A	20.5	21.5	26.1	31.0	
		MOCP (*7)	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	
	Balance	Type		Flare	Flare	Flare	Flare	
		Diameter	mm	9.5	9.5	9.5	9.5	
Max. number of connected indoor units				13	16	20	23	
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	CDB	-5.0 to 52.0	-5.0 to 52.0	-5.0 to 52.0	-5.0 to 52.0	
		Heating(*8)	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) Rated conditions

Cooling : Indoor 27 degC Dry Bulb / 19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*3) Rated conditions

Cooling : Indoor 27 degC Dry Bulb / 19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

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

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

(*6) Select wire size base on the larger value of MCA.

MCA : Minimum Circuit Amps

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

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

Standard model (50Hz/380 ~ 415V)

ME model

Model name				Heat pump		MMY-MAP1606HT8P-ME	MMY-MAP1806HT8P-ME	MMY-MAP2006HT8P-ME
Outdoor unit type						Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)				kW		45.0	50.4	56.0
				Btu/h		152000	172000	190000
Cooling capacity (*2)				kW		36.0	42.8	44.8
				Btu/h		122000	146000	152000
Cooling capacity (*3)				kW		27.2	35.2	39.5
				Btu/h		93000	120000	135000
Heating capacity (*1)				kW		50.0	56.0	63.0
				Btu/h		170000	190000	214000
Capacity range				HP		16	18	20
Power supply						3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*4)				Minimum	V	342	342	342
				Maximum	V	456	456	456
Electrical characteristic				Cooling (*1)	Running current	A	19.0	23.8
					Power input	kW	12.1	15.5
					EER	kW/kW	3.72	3.61
						Btu/Wh	12.55	12.25
				Cooling (*2)	Power input	kW	12.5	14.9
					EER	kW/kW	2.88	3.01
						Btu/Wh	9.76	10.20
							10.28	10.20
				Cooling (*3)	Power input	kW	9.5	12.7
					EER	kW/kW	2.86	3.11
						Btu/Wh	9.78	10.63
							11.21	10.63
				Heating (*1)	Running current	A	19.6	25.3
					Power input	kW	12.5	16.5
					COP	kW/kW	4.00	3.82
						Btu/Wh	13.65	13.00
				Starting current	A	Soft Start	Soft Start	Soft Start
Dimension				Height	mm	1800	1800	1800
				Width	mm	1210	1600	1600
				Depth	mm	780	780	780
Weight				Heat pump	kg	299	370	370
Color						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	6.5x2	7.6x2
Fan unit				Type		Propeller fan	Propeller fan	Propeller fan
				Motor output	W	1.0	2.0	2.0
				Air volume	m3/h	12600	17300	17900
Max. external static pressure					Pa	40	50	40
Heat exchanger						Finned tube	Finned tube	Finned tube
Refrigerant				Name		R410A	R410A	R410A
				Charge	kg	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						(*4)	(*4)	(*4)
Power supply wiring				MCA (*6)	A	35.8	40.6	44.9
				MOCP (*7)	A	40.0	50.0	63.0
Piping connections				Gas	Type	Brazing	Brazing	Brazing
					Diameter	mm	28.6	28.6
				Liquid	Type	Flare	Flare	Flare
					Diameter	mm	15.9	15.9
				Balance	Type	Flare	Flare	Flare
					Diameter	mm	9.5	9.5
Max. number of connected indoor units						27	30	33
Sound pressure level				Cooling	dB(A)	62.0	60.0	61.0
				Heating	dB(A)	64.0	61.0	62.0
Sound power level				Cooling	dB(A)	81.0	81.0	82.0
				Heating	dB(A)	83.0	83.0	84.0
Operation temperature range				Cooling	CDB	-5.0 to 52.0	-5.0 to 52.0	-5.0 to 52.0
				Heating(*8)	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 Wet Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*3) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

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

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

(*6) Select wire size base on the larger value of MCA.

MCA : Minimum Circuit Amps

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

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

Standard model (50Hz/380 ~ 415V)

ME model

Model	Name		Heat pump		MMY-AP2216HT8P-ME	MMY-AP2416HT8P-ME	MMY-AP2616HT8P-ME	MMY-AP2816HT8P-ME
	Combination		Heat pump		MMY-MAP1206HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1406HT8P-ME
					MMY-MAP1006HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1406HT8P-ME
Outdoor unit type					Inverter unit	Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	61.5	67.0	73.5	80.0	
			Btu/h	210000	228000	250000	272000	
Cooling capacity (*2)			kW	52.0	53.6	59.3	65.0	
			Btu/h	177000	182000	201000	220000	
Cooling capacity (*3)			kW	41.0	41.6	45.7	49.8	
			Btu/h	140000	142000	156000	170000	
Heating capacity (*1)			kW	69.0	75.0	82.5	90.0	
			Btu/h	234000	254000	279000	304000	
Capacity range			HP	22	24	26	28	
Power supply					3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*4)			Minimum	V	342	342	342	342
			Maximum	V	456	456	456	456
Electrical characteristic	Cooling (*1)	Running current	A	22.8	25.4	28.1	30.8	
		Power input	kW	14.5	16.5	18.1	19.7	
			kW/kW	4.24	4.07	4.06	4.05	
		EER	Btu/Wh	14.45	13.85	13.80	13.80	
	Cooling (*2)	Power input	kW	17.7	18.0	20.6	23.2	
			kW/kW	2.93	2.98	2.88	2.80	
			Btu/Wh	9.98	10.13	9.77	9.48	
		Power input	kW	12.4	12.2	14.1	16.0	
	Cooling (*3)		kW/kW	3.31	3.40	3.24	3.12	
			Btu/Wh	11.30	11.60	11.06	10.65	
		Running current	A	25.4	28.6	31.1	33.6	
		Power input	kW	16.3	18.5	19.8	21.2	
	Heating (*1)	COP		kW/kW	4.23	4.06	4.16	4.25
				Btu/Wh	14.35	13.75	14.10	14.35
Starting current			A	Soft Start	Soft Start	Soft Start	Soft Start	
Weight	Heat pump		kg	242 + 242	242 + 242	299 + 242	299 + 299	
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				
			Motor output	kW	3.9x2 + 3.1x2	3.9x2 + 3.9x2	4.8x2 + 3.9x2	4.8x2 + 4.8x2
Fan unit			Type	Propeller fan				
			Motor output	W	1.0 + 1.0	1.0 + 1.0	1.0 + 1.0	1.0 + 1.0
Air volume			m3/h	12200 + 9700	12200 + 12200	12200 + 12200	12200 + 12200	
Max. external static pressure			Pa	50	50	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	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					(*5)	(*5)	(*5)	
Power supply wiring			MCA (*6)	A	47.6	52.2	57.1	
			MOCp (*7)	A	63.0	63.0	63.0	80.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing	Brazing	
		Diameter	mm	28.6	34.9	34.9	34.9	
	Liquid	Type		Flare	Flare	Flare	Flare	
		Diameter	mm	19.1	19.1	19.1	19.1	
	Balance	Type		Flare	Flare	Flare	Flare	
		Diameter	mm	9.5	9.5	9.5	9.5	
Max. number of connected indoor units				37	40	43	47	
Sound pressure level		Cooling	dB(A)	61.5	62.0	62.5	63.0	
		Heating	dB(A)	63.0	64.0	64.5	65.0	
Sound power level		Cooling	dB(A)	81.0	83.0	83.0	83.0	
		Heating	dB(A)	83.0	85.0	85.0	85.0	
Operation temperature range			Cooling	CDB	-5.0 to 52.0	-5.0 to 52.0	-5.0 to 52.0	
			Heating(*8)	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 WetBulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.
- (*2) Rated conditions Cooling : Indoor 27 degC Dry Bulb / 19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.
- (*3) Rated conditions Cooling : Indoor 27 degC Dry Bulb / 19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.
- (*4) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse
- (*6) Select wire size base on the larger value of MCA.
MCA : Minimum Circuit Amps
- (*7) MOCP : Maximum Overcurrent Protection(Amps)
- (*8) Low ambient heating (-20degC or less) for extended periods of time is not allowed

Standard model (50Hz/380 ~ 415V)

ME model

Model	Name	Heat pump		MMY-AP3016HT8P-ME	MMY-AP3216HT8P-ME	MMY-AP3416HT8P-ME	MMY-AP3616HT8P-ME	
	Combination	Heat pump		MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1806HT8P-ME	MMY-MAP1806HT8P-ME	
				MMY-MAP1406HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1806HT8P-ME	
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit	Inverter unit	
Cooling capacity (*1)			kW	85.0	90.0	95.4	100.8	
			Btu/h	288000	304000	324000	344000	
Cooling capacity (*2)			kW	68.5	72.0	78.8	85.7	
			Btu/h	232000	244000	268000	292000	
Cooling capacity (*3)			kW	52.1	54.4	62.4	70.4	
			Btu/h	178000	186000	213000	240000	
Heating capacity (*1)			kW	95.0	100.0	106.0	112.0	
			Btu/h	322000	340000	360000	380000	
Capacity range			HP	30	32	34	36	
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	
Voltage range (*4)		Minimum	V	342	342	342	342	
		Maximum	V	456	456	456	456	
Electrical characteristic	Cooling (*1)	Running current	A	34.4	38.0	38.1	38.2	
		Power input	kW	22.0	24.2	24.4	24.6	
		EER	kW/kW	3.87	3.72	3.91	4.10	
			Btu/Wh	13.10	12.55	13.25	14.00	
	Cooling (*2)	Power input	kW	24.1	25.0	26.7	28.4	
		EER	kW/kW	2.84	2.88	2.95	3.02	
			Btu/Wh	9.63	9.76	10.04	10.28	
			kW	17.5	19.0	20.2	21.4	
	Cooling (*3)	EER	kW/kW	2.98	2.86	3.09	3.29	
			Btu/Wh	10.18	9.78	10.54	11.21	
		Heating (*1)	Running current	A	36.4	39.2	40.9	42.6
			Power input	kW	23.1	25.0	26.1	27.2
			kW/kW	4.11	4.00	4.06	4.12	
			Btu/Wh	13.95	13.60	13.80	13.95	
Starting current		A	Soft Start	Soft Start	Soft Start	Soft Start		
Weight	Heat pump		kg	299 + 299	299 + 299	370 + 299	370 + 370	
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	5.8x2 + 4.8x2	5.8x2 + 5.8x2	6.5x2 + 5.8x2	6.5x2 + 6.5x2	
Fan unit		Type		Propeller fan	Propeller fan	Propeller fan	Propeller fan	
		Motor output	W	1.0 + 1.0	1.0 + 1.0	2.0 + 1.0	2.0 + 2.0	
		Air volume	m3/h	12600 + 12200	12600 + 12600	17300 + 12600	17300 + 17300	
Max. external static pressure			Pa	40	40	40	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	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				(*)5	(*)5	(*)5	(*)5	
Power supply wiring		MCA (*6)	A	66.8	71.6	76.4	81.2	
		MOCP (*7)	A	80.0	80.0	100.0	100.0	
Piping connections	Gas	Type		Brazing	Brazing	Brazing	Brazing	
		Diameter	mm	34.9	34.9	34.9	41.3	
	Liquid	Type		Flare	Flare	Flare	Flare	
		Diameter	mm	19.1	19.1	19.1	22.2	
	Balance	Type		Flare	Flare	Flare	Flare	
		Diameter	mm	9.5	9.5	9.5	9.5	
Max. number of connected indoor units				50	54	57	60	
Sound pressure level		Cooling	dB(A)	64.5	65.0	64.5	63.0	
		Heating	dB(A)	66.5	67.0	66.0	64.0	
Sound power level		Cooling	dB(A)	83.5	84.0	84.0	84.0	
		Heating	dB(A)	85.5	86.0	86.0	86.0	
Operation temperature range		Cooling	CDB	-5.0 to 52.0	-5.0 to 52.0	-5.0 to 52.0	-5.0 to 52.0	
		Heating(*8)	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 WetBulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*3) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

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

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

(*6) Select wire size base on the larger value of MCA.

MCA : Minimum Circuit Amps

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

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

Standard model (50Hz/380 ~ 415V)

ME model

Model	Name	Heat pump		MMY-AP3816HT8P-ME	MMY-AP4016HT8P-ME
	Combination	Heat pump		MMY-MAP2006HT8P-ME	MMY-MAP2006HT8P-ME
				MMY-MAP1806HT8P-ME	MMY-MAP2006HT8P-ME
Outdoor unit type				Inverter unit	Inverter unit
Cooling capacity (*1)			kW	106.4	112.0
			Btu/h	362000	380000
Cooling capacity (*2)			kW	87.6	89.6
			Btu/h	298000	304000
Cooling capacity (*3)			kW	74.7	79.0
			Btu/h	255000	270000
Heating capacity (*1)			kW	119.0	126.0
			Btu/h	404000	428000
Capacity range			HP	38	40
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*4)		Minimum	V	342	342
		Maximum	V	456	456
Electrical characteristic	Cooling (*1)	Running current	A	42.9	47.6
		Power input	kW	27.8	31.0
		EER	kW/kW	3.83	3.61
			Btu/Wh	13.00	12.25
	Cooling (*2)	Power input	kW	29.1	29.8
		EER	kW/kW	3.01	3.01
			Btu/Wh	10.24	10.20
	Cooling (*3)	Power input	kW	23.4	25.4
		EER	kW/kW	3.19	3.11
			Btu/Wh	10.90	10.63
	Heating (*1)	Running current	A	46.6	50.6
		Power input	kW	30.1	33.0
		COP	kW/kW	3.95	3.82
			Btu/Wh	13.40	12.95
Starting current		A	Soft Start	Soft Start	
Weight	Heat pump		kg	370 + 370	370 + 370
Color				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	7.6x2 + 6.5x2	7.6x2 + 7.6x2
Fan unit		Type		Propeller fan	Propeller fan
		Motor output	W	2.0 + 2.0	2.0 + 2.0
		Air volume	m3/h	17900 + 17300	17900 + 17900
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
High-pressure switch			Pa	OFF:3.2 ON:4.15	OFF:3.2 ON:4.15
Protective devices				(*5)	(*5)
Power supply wiring		MCA (*6)	A	85.5	89.8
		MOCP (*7)	A	100.0	100.0
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)	63.5	64.0
		Heating	dB(A)	64.5	65.0
Sound power level		Cooling	dB(A)	84.5	85.0
		Heating	dB(A)	86.5	87.0
Operation temperature range		Cooling	CDB	-5.0 to 52.0	-5.0 to 52.0
		Heating(*8)	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) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*3) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

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

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

(*6) Select wire size base on the larger value of MCA.

MCA : Minimum Circuit Amps

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

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

Standard model (50Hz/380 ~ 415V)

ME model

Model	Name	Heat pump		MMY-AP4216HT8P-ME	MMY-AP4416HT8P-ME	MMY-AP4616HT8P-ME	MMY-AP4816HT8P-ME	
	Combination	Heat pump		MMY-MAP1406HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME	
				MMY-MAP1406HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME	
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit	Inverter unit	
Cooling capacity (*1)			kW	120.0	125.0	130.0	135.0	
			Btu/h	408000	424000	440000	456000	
Cooling capacity (*2)			kW	97.5	101.0	104.5	108.0	
			Btu/h	330000	342000	354000	366000	
Cooling capacity (*3)			kW	74.7	77.0	79.3	81.6	
			Btu/h	255000	263000	271000	279000	
Heating capacity (*1)			kW	135.0	140.0	145.0	150.0	
			Btu/h	456000	474000	492000	510000	
Capacity range			HP	42	44	46	46	
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	
Voltage range (*4)			Minimum	V	342	342	342	
			Maximum	V	456	456	456	
Electrical characteristic	Cooling (*1)	Running current	A	46.2	49.8	53.4	57.0	
		Power input	kW	29.6	31.8	34.1	36.3	
		EER	kW/kW	4.05	3.93	3.82	3.72	
			Btu/Wh	13.80	13.30	12.90	12.55	
	Cooling (*2)	Power input	kW	34.8	35.7	36.6	37.5	
		EER	kW/kW	2.80	2.83	2.86	2.88	
			Btu/Wh	9.48	9.58	9.67	9.76	
		Power input	kW	23.9	25.5	27.0	28.5	
	Cooling (*3)	EER	kW/kW	3.12	3.02	2.94	2.86	
			Btu/Wh	10.65	10.33	10.04	9.78	
		Running current	A	50.4	53.2	56.0	58.8	
		Power input	kW	31.8	33.7	35.6	37.5	
	Heating (*1)	COP	kW/kW	4.25	4.15	4.07	4.00	
			Btu/Wh	14.35	14.10	13.80	13.60	
Starting current			A	Soft Start	Soft Start	Soft Start	Soft Start	
Weight	Heat pump		kg	299 + 299 + 299	299 + 299 + 299	299 + 299 + 299	299 + 299 + 299	
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	4.8x2 + 4.8x2 + 4.8x2	5.8x2 + 4.8x2 + 4.8x2	5.8x2 + 5.8x2 + 4.8x2	5.8x2 + 5.8x2 + 5.8x2
Fan unit			Type	Propeller fan	Propeller fan	Propeller fan	Propeller fan	
			Motor output	W	1.0 + 1.0 + 1.0	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	12600 + 12200 + 12200	12600 + 12600 + 12200	12600 + 12600 + 12600
Max. external static pressure			Pa	50	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 + 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				(*5)	(*5)	(*5)	(*5)	
Power supply wiring			MCA (*6)	A	93.0	97.8	102.6	
			MOCP (*7)	A	125.0	125.0	125.0	125.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing	Brazing	
		Diameter	mm	41.3	41.3	41.3	41.3	
	Liquid	Type		Flare	Flare	Flare	Flare	
		Diameter	mm	22.2	22.2	22.2	22.2	
	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	65.5	66.5	
			Heating	dB(A)	67.0	67.5	68.5	
Sound power level			Cooling	dB(A)	85.0	85.5	85.5	
			Heating	dB(A)	87.0	87.5	87.5	
Operation temperature range			Cooling	CDB	-5.0 to 52.0	-5.0 to 52.0	-5.0 to 52.0	
			Heating(*8)	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) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*3) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

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

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

(*6) Select wire size base on the larger value of MCA.

MCA : Minimum Circuit Amps

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

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

Standard model (50Hz/380 ~ 415V)

ME model

Model	Name	Heat pump		MMY-AP5016HT8P-ME	MMY-AP5216HT8P-ME	MMY-AP5416HT8P-ME	MMY-AP5616HT8P-ME					
	Combination	Heat pump		MMY-MAP1806HT8P-ME	MMY-MAP1806HT8P-ME	MMY-MAP2006HT8P-ME	MMY-MAP2006HT8P-ME					
				MMY-MAP1606HT8P-ME	MMY-MAP1806HT8P-ME	MMY-MAP2006HT8P-ME	MMY-MAP2006HT8P-ME					
				MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1606HT8P-ME					
Outdoor unit type			Inverter unit		Inverter unit		Inverter unit		Inverter unit			
Cooling capacity (*1)			kW	140.4		145.8		152.0		157.0		
			Btu/h	476000		496000		516000		532000		
Cooling capacity (*2)			kW	114.8		121.7		122.1		125.6		
			Btu/h	390000		414000		414000		426000		
Cooling capacity (*3)			kW	89.6		97.6		103.9		106.2		
			Btu/h	306000		333000		355000		363000		
Heating capacity (*1)			kW	156.0		162.0		171.0		176.0		
			Btu/h	530000		550000		580000		598000		
Capacity range			HP	50		52		54		54		
Power supply				3N~ 50Hz 400V(380-415V)		3N~ 50Hz 400V(380-415V)		3N~ 50Hz 400V(380-415V)		3N~ 50Hz 400V(380-415V)		
Voltage range (*4)			Minimum	V	342		342		342		342	
			Maximum	V	456		456		456		456	
Electrical characteristic	Cooling (*1)	Running current	A	57.1		57.2		63.0		66.6		
		Power input	kW	36.5		36.7		40.9		43.1		
		EER	kW/kW	3.85		3.97		3.72		3.64		
			Btu/Wh	13.05		13.50		12.65		12.35		
	Cooling (*2)	Power input	kW	39.2		40.9		41.4		42.3		
		EER	kW/kW	2.93		2.98		2.95		2.97		
			Btu/Wh	9.95		10.12		10.00		10.07		
	Cooling (*3)	Power input	kW	29.7		30.9		33.4		34.9		
		EER	kW/kW	3.01		3.16		3.11		3.04		
			Btu/Wh	10.30		10.77		10.64		10.40		
	Heating (*1)	Running current	A	60.5		62.2		67.4		70.2		
		Power input	kW	38.6		39.7		43.6		45.5		
		COP	kW/kW	4.04		4.08		3.92		3.87		
			Btu/Wh	13.75		13.85		13.30		13.15		
Starting current			A	Soft Start		Soft Start		Soft Start		Soft Start		
Weight	Heat pump		kg	370 + 299 + 299		370 + 370 + 299		370 + 370 + 299		370 + 370 + 299		
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	6.5x2 + 5.8x2 + 5.8x2		6.5x2 + 6.5x2 + 5.8x2		7.6x2 + 7.6x2 + 4.8x2		7.6x2 + 7.6x2 + 5.8x2		
Fan unit		Type		Propeller fan		Propeller fan		Propeller fan		Propeller fan		
		Motor output	W	2.0 + 1.0 + 1.0		2.0 + 2.0 + 1.0		2.0 + 2.0 + 1.0		2.0 + 2.0 + 1.0		
		Air volume	m3/h	17300 + 12600 + 12600		17300 + 17300 + 12600		17900 + 17900 + 12200		17900 + 17900 + 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 + 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				(*5)		(*5)		(*5)		(*5)		
Power supply wiring		MCA (*6)	A	112.2		117.0		120.8		125.6		
		MOCP (*7)	A	125.0		160.0		160.0		160.0		
		Gas	Type		Brazing		Brazing		Brazing		Brazing	
			Diameter	mm	41.3		41.3		41.3		41.3	
Piping connections	Liquid	Type		Flare		Flare		Flare		Flare		
		Diameter	mm	22.2		22.2		22.2		22.2		
	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)	66.5		65.5		65.5		66.5		
		Heating	dB(A)	68.0		67.0		67.0		67.5		
		Cooling	dB(A)	86.0		86.0		86.5		86.5		
Sound power level		Heating	dB(A)	88.0		88.0		88.5		88.5		
Operation temperature range		Cooling	CDB	-5.0 to 52.0		-5.0 to 52.0		-5.0 to 52.0		-5.0 to 52.0		
		Heating(*8)	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 WetBulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*2) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*3) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

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

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

(*6) Select wire size base on the larger value of MCA.

MCA : Minimum Circuit Amps

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

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

High efficiency model (50Hz/380 ~ 415V)

ME model

Model	Name		Heat pump			MMY-AP1626HT8P-ME	MMY-AP1826HT8P-ME	MMY-AP2026HT8P-ME
	Combination	Heat pump			MMY-MAP0806HT8P-ME	MMY-MAP1006HT8P-ME	MMY-MAP1006HT8P-ME	
					MMY-MAP0806HT8P-ME	MMY-MAP0806HT8P-ME	MMY-MAP1006HT8P-ME	
Outdoor unit type					Inverter unit		Inverter unit	Inverter unit
Cooling capacity (*1)				kW	44.8		50.4	56.0
				Btu/h	152000		172000	192000
Cooling capacity (*2)				kW	40.6		45.5	50.4
				Btu/h	138000		155000	172000
Cooling capacity (*3)				kW	39.2		39.8	40.4
				Btu/h	134000		136000	138000
Heating capacity (*1)				kW	50.0		56.5	63.0
				Btu/h	170000		192000	214000
Capacity range				HP	16		18	18
Power supply					3N~ 50Hz 400V(380-415V)		3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*4)		Minimum	V	342		342	342	
		Maximum	V	456		456	456	
Electrical characteristic	Cooling (*1)	Running current	A	15.4		17.8	20.2	
		Power input	kW	9.7		11.1	12.6	
		EER	kW/kW	4.63		4.53	4.46	
			Btu/Wh	15.70		15.45	15.30	
	Cooling (*2)	Power input	kW	13.1		15.3	17.5	
		EER	kW/kW	3.10		2.98	2.88	
			Btu/Wh	10.55		10.14	9.83	
		Cooling (*3)	Power input	kW	12.9		12.7	12.5
	EER		kW/kW	3.03		3.12	3.22	
			Btu/Wh	10.36		10.68	11.00	
	Heating (*1)		Running current	A	17.1		19.6	22.2
		Power input	kW	10.8		12.5	14.2	
		COP	kW/kW	4.65		4.53	4.45	
Btu/Wh			15.80		15.40	15.10		
Starting current		A	Soft Start		Soft Start	Soft Start		
Weight	Heat pump		kg	242 + 242		242 + 242	242 + 242	
Color					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	2.1x2 + 2.1x2		3.1x2 + 2.1x2	3.1x2 + 3.1x2	
Fan unit		Type		Propeller fan		Propeller fan	Propeller fan	
		Motor output	W	1.0 + 1.0		1.0 + 1.0	1.0 + 1.0	
		Air volume	m3/h	9700 + 9700		9700 + 9700	9700 + 9700	
Max. external static pressure				Pa	60		60	60
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					(*5)		(*5)	(*5)
Power supply wiring		MCA (*6)	A	41.0		42.0	43.0	
		MOCP (*7)	A	50.0		50.0	50.0	
Piping connections	Gas	Type		Brazing		Brazing	Brazing	
		Diameter	mm	28.6		28.6	28.6	
	Liquid	Type		Flare		Flare	Flare	
		Diameter	mm	15.9		15.9	15.9	
	Balance	Type		Flare		Flare	Flare	
		Diameter	mm	9.5		9.5	9.5	
Max. number of connected indoor units					27		30	33
Sound pressure level		Cooling	dB(A)	58.0		59.5	60.0	
		Heating	dB(A)	59.0		60.5	61.0	
Sound power level		Cooling	dB(A)	77.0		77.0	77.0	
		Heating	dB(A)	77.0		77.0	77.0	
Operation temperature range		Cooling	CDB	-5.0 to 52.0		-5.0 to 52.0	-5.0 to 52.0	
		Heating(*8)	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) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*3) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

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

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

(*6) Select wire size base on the larger value of MCA.

MCA : Minimum Circuit Amps

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

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

High efficiency model (50Hz/380 ~ 415V)

ME model

Model	Name	Heat pump		MMY-AP3026HT8P-ME	MMY-AP3226HT8P-ME	MMY-AP3426HT8P-ME
	Combination	Heat pump		MMY-MAP1006HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1206HT8P-ME
				MMY-MAP1006HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1206HT8P-ME
				MMY-MAP1006HT8P-ME	MMY-MAP1006HT8P-ME	MMY-MAP1006HT8P-ME
Outdoor unit type				Inverter unit	Inverter unit	Inverter unit
Cooling capacity (*1)			kW	84.0	89.5	95.0
			Btu/h	288000	306000	324000
Cooling capacity (*2)			kW	75.6	77.2	78.8
			Btu/h	258000	263000	268000
Cooling capacity (*3)			kW	60.6	61.2	61.8
			Btu/h	207000	209000	211000
Heating capacity (*1)			kW	94.5	100.5	106.5
			Btu/h	321000	341000	361000
Capacity range			HP	30	32	34
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*4)		Minimum	V	342	342	342
		Maximum	V	456	456	456
Electrical characteristic	Cooling (*1)	Running current	A	30.3	32.9	35.5
		Power input	kW	18.8	20.8	22.8
		EER	kW/kW	4.46	4.30	4.17
			Btu/Wh	15.30	14.70	14.25
	Cooling (*2)	Power input	kW	26.3	26.5	26.7
		EER	kW/kW	2.88	2.92	2.95
			Btu/Wh	9.83	9.93	10.03
		Cooling (*3)	Power input	kW	18.8	18.7
	EER		kW/kW	3.22	3.28	3.34
			Btu/Wh	11.00	11.20	11.40
	Heating (*1)		Running current	A	33.3	36.5
		Power input	kW	21.2	23.4	25.6
		COP	kW/kW	4.45	4.29	4.17
			Btu/Wh	15.10	14.55	14.10
	Starting current		A	Soft Start	Soft Start	Soft Start
	Weight	Heat pump		kg	242 + 242 + 242	242 + 242 + 242
Color				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	3.1x2 + 3.1x2 + 3.1x2	3.9x2 + 3.1x2 + 3.1x2	3.9x2 + 3.9x2 + 3.1x2
Fan unit		Type		Propeller fan	Propeller fan	Propeller fan
		Motor output	W	1.0 + 1.0 + 1.0	1.0 + 1.0 + 1.0	1.0 + 1.0 + 1.0
		Air volume	m3/h	9700 + 9700 + 9700	12200 + 9700 + 9700	12200 + 12200 + 9700
Max. external static pressure			Pa	60	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				(*5)	(*5)	(*5)
Power supply wiring		MCA (*6)	A	64.5	69.1	73.7
		MOCP (*7)	A	80.0	80.0	100.0
Piping connections	Gas	Type		Brazing	Brazing	Brazing
		Diameter	mm	34.9	34.9	34.9
	Liquid	Type		Flare	Flare	Flare
		Diameter	mm	19.1	19.1	19.1
	Balance	Type		Flare	Flare	Flare
		Diameter	mm	9.5	9.5	9.5
Max. number of connected indoor units				50	54	57
Sound pressure level		Cooling	dB(A)	62.0	62.5	63.5
		Heating	dB(A)	63.0	64.0	65.0
Sound power level		Cooling	dB(A)	79.0	82.0	83.5
		Heating	dB(A)	79.0	83.5	85.5
Operation temperature range		Cooling	CDB	-5.0 to 52.0	-5.0 to 52.0	-5.0 to 52.0
		Heating(*8)	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) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.
- (*3) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.
Based on equivalent piping length of 7.5m and piping height difference of 0m.
- (*4) Voltage range : Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (*5) Discharge temp. sensor / Suction temp. sensor / High-pressure sensor / Low-pressure sensor / Compressor case thermostat / PC board fuse
- (*6) Select wire size base on the larger value of MCA.
- MCA : Minimum Circuit Amps
- (*7) MOCP : Maximum Overcurrent Protection(Amps)
- (*8) Low ambient heating (-20degC or less) for extended periods of time is not allowed

High efficiency model (50Hz/380 ~ 415V)

ME model

Model	Name	Heat pump		MMY-AP3826HT8P-ME	MMY-AP4026HT8P-ME
	Combination	Heat pump		MMY-MAP1406HT8P-ME	MMY-MAP1406HT8P-ME
				MMY-MAP1206HT8P-ME	MMY-MAP1406HT8P-ME
				MMY-MAP1206HT8P-ME	MMY-MAP1206HT8P-ME
Outdoor unit type			Inverter unit	Inverter unit	
Cooling capacity (*1)			kW	107.0	113.5
			Btu/h	364000	386000
Cooling capacity (*2)			kW	86.1	91.8
			Btu/h	292000	311000
Cooling capacity (*3)			kW	66.5	70.6
			Btu/h	227000	241000
Heating capacity (*1)			kW	120.0	127.5
			Btu/h	406000	431000
Capacity range			HP	38	40
Power supply				3N~ 50Hz 400V(380-415V)	3N~ 50Hz 400V(380-415V)
Voltage range (*4)		Minimum	V	342	342
		Maximum	V	456	456
Electrical characteristic	Cooling (*1)	Running current	A	40.8	43.5
		Power input	kW	26.3	28.0
		EER	kW/kW	4.06	4.06
			Btu/Wh	13.80	13.80
	Cooling (*2)	Power input	kW	29.6	32.2
		EER	kW/kW	2.91	2.85
			Btu/Wh	9.88	9.66
		Cooling (*3)	Power input	kW	20.2
	EER		kW/kW	3.29	3.20
			Btu/Wh	11.23	10.91
	Heating (*1)		Running current	A	45.4
		Power input	kW	29.1	30.4
		COP	kW/kW	4.13	4.19
			Btu/Wh	13.95	14.15
Starting current		A	Soft Start	Soft Start	
Weight	Heat pump	kg	299 + 242 + 242	299 + 299 + 242	
Color			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	4.8x2 + 3.9x2 + 3.9x2	
Fan unit		Type	Propeller fan	Propeller fan	
		Motor output	W	1.0 + 1.0 + 1.0	
		Air volume	m3/h	12200 + 12200 + 12200	
Max. external static pressure			Pa	50	
Heat exchanger			Finned tube	Finned tube	
Refrigerant	Name		R410A	R410A	
	Charge	Heat pump	kg	11.5 + 11.5 + 11.5	
High-pressure switch			Pa	OFF:3.2 ON:4.15	
Protective devices			(*5)	(*5)	
Power supply wiring		MCA (*6)	A	83.2	
		MOCP (*7)	A	100.0	
Piping connections	Gas	Type	Brazing	Brazing	
		Diameter	mm	41.3	
	Liquid	Type	Flare	Flare	
		Diameter	mm	22.2	
	Balance	Type	Flare	Flare	
		Diameter	mm	9.5	
Max. number of connected indoor units			64	64	
Sound pressure level		Cooling	dB(A)	64.5	
		Heating	dB(A)	66.5	
Sound power level		Cooling	dB(A)	85.0	
		Heating	dB(A)	87.0	
Operation temperature range		Cooling	CDB	-5.0 to 52.0	
		Heating(*8)	CWB	-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) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 46 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

(*3) Rated conditions Cooling : Indoor 27 degC Dry Bulb /19 degC Wet Bulb , Outdoor 48 degC Dry Bulb.

Based on equivalent piping length of 7.5m and piping height difference of 0m.

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

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

(*6) Select wire size base on the larger value of MCA.

MCA : Minimum Circuit Amps

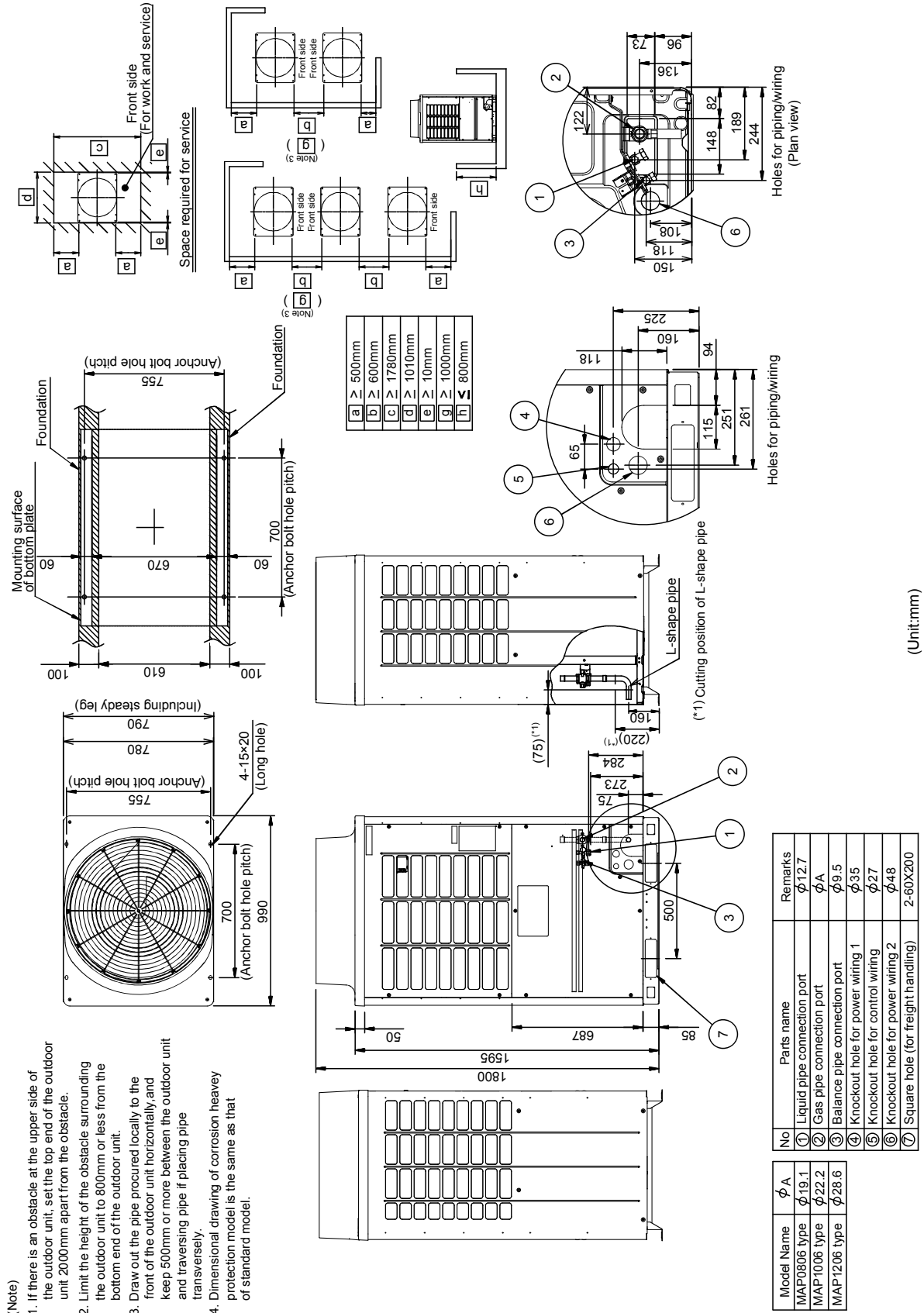
(*7) MOCP : Maximum Overcurrent Protection(Amps)

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

5-2. Dimensional drawing

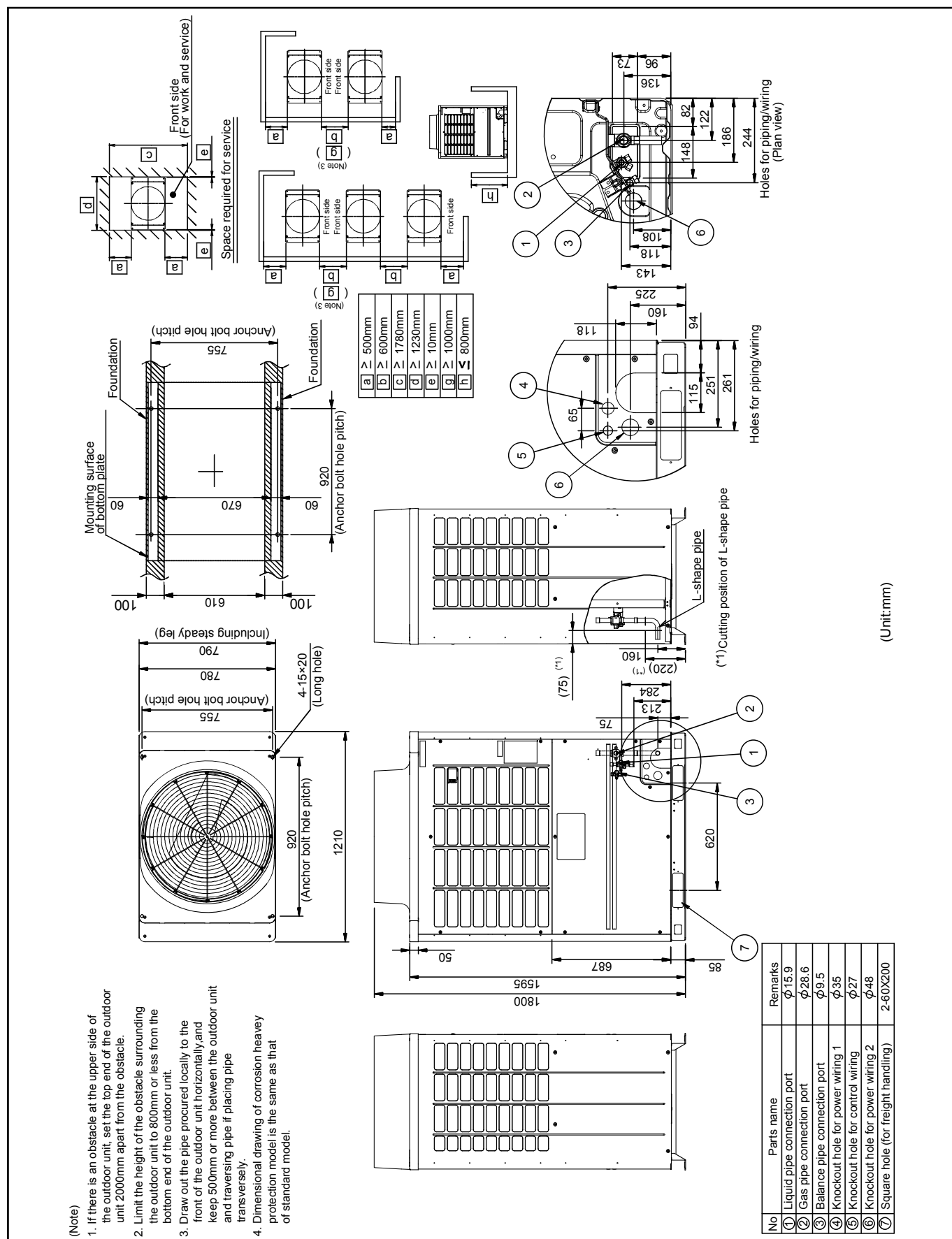
Single Unit

Model : MMY-MAP0806HT8P-ME , MMY-MAP1006HT8P-ME , MMY-MAP1206HT8P-ME



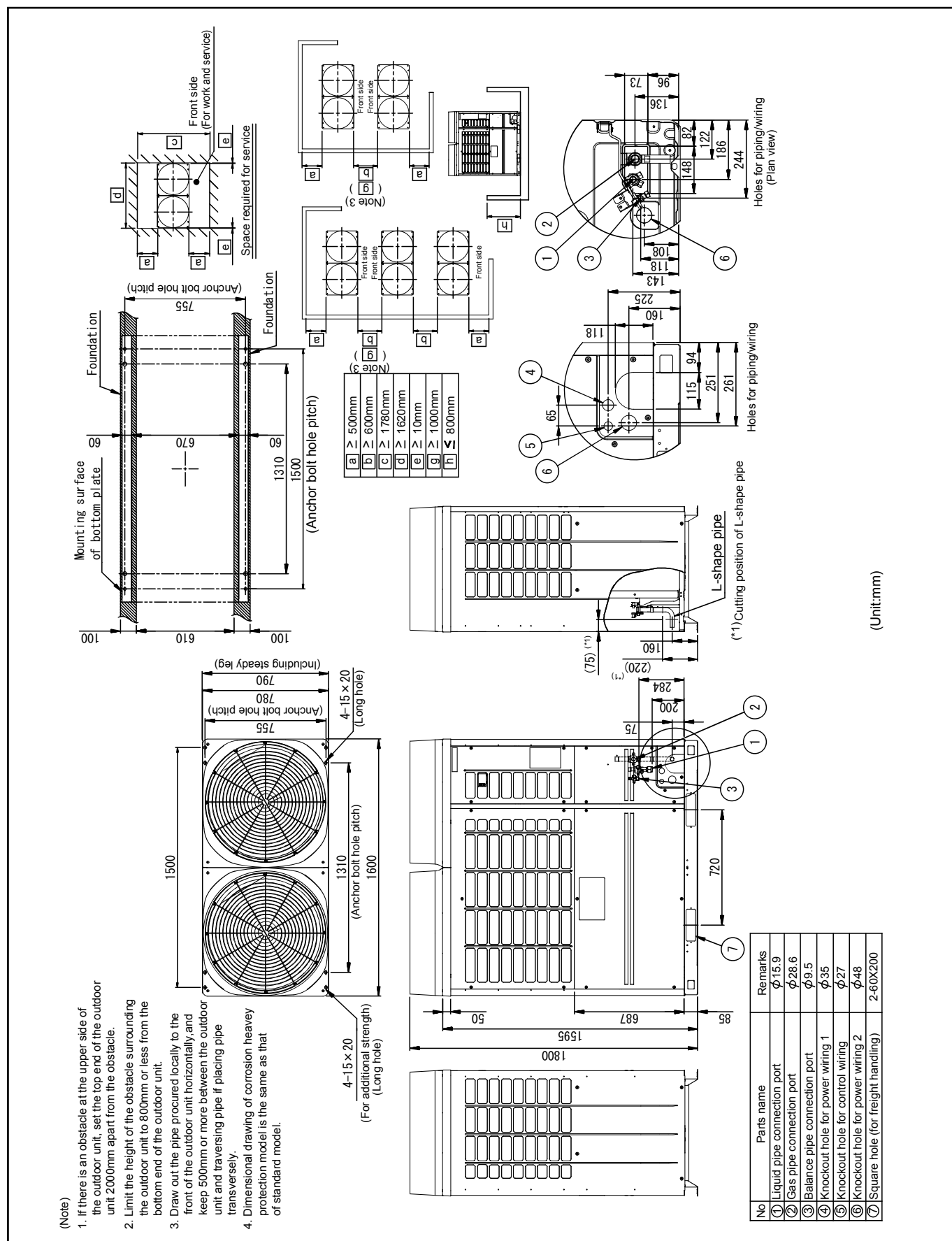
Single Unit

Model : MMY-MAP1406HT8P-ME , MMY-MAP1606HT8P-ME



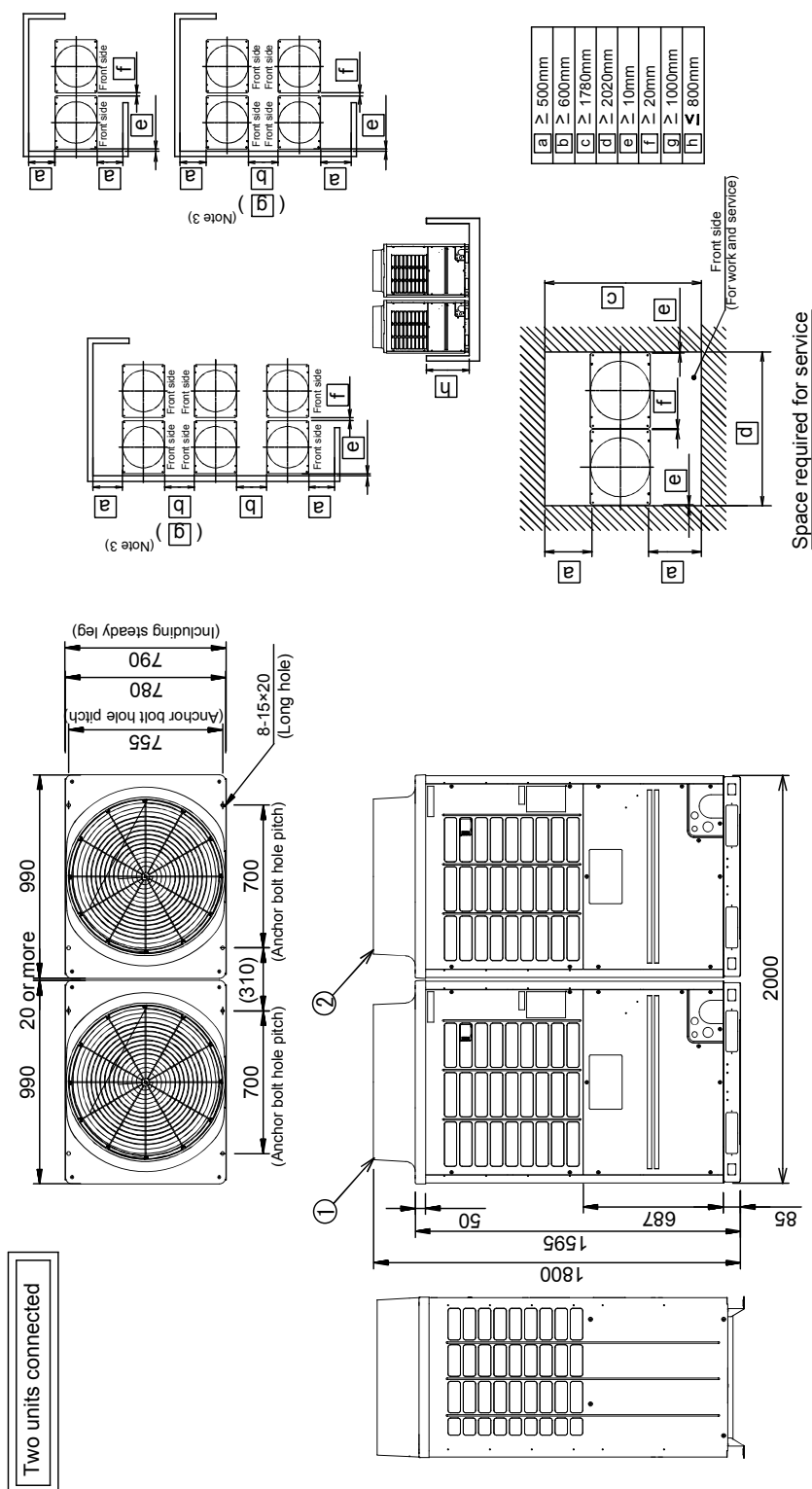
Single Unit

Model : MMY-MAP1806HT8P-ME , MMY-MAP2006HT8P-ME



Combination

Model Name	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-AP2216HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1006HT8P-ME
MMY-AP2416HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1206HT8P-ME
MMY-AP1626HT8P-ME	MMY-MAP0806HT8P-ME	MMY-MAP0806HT8P-ME
MMY-AP1826HT8P-ME	MMY-MAP1006HT8P-ME	MMY-MAP0806HT8P-ME
MMY-AP2026HT8P-ME	MMY-MAP1006HT8P-ME	MMY-MAP1006HT8P-ME

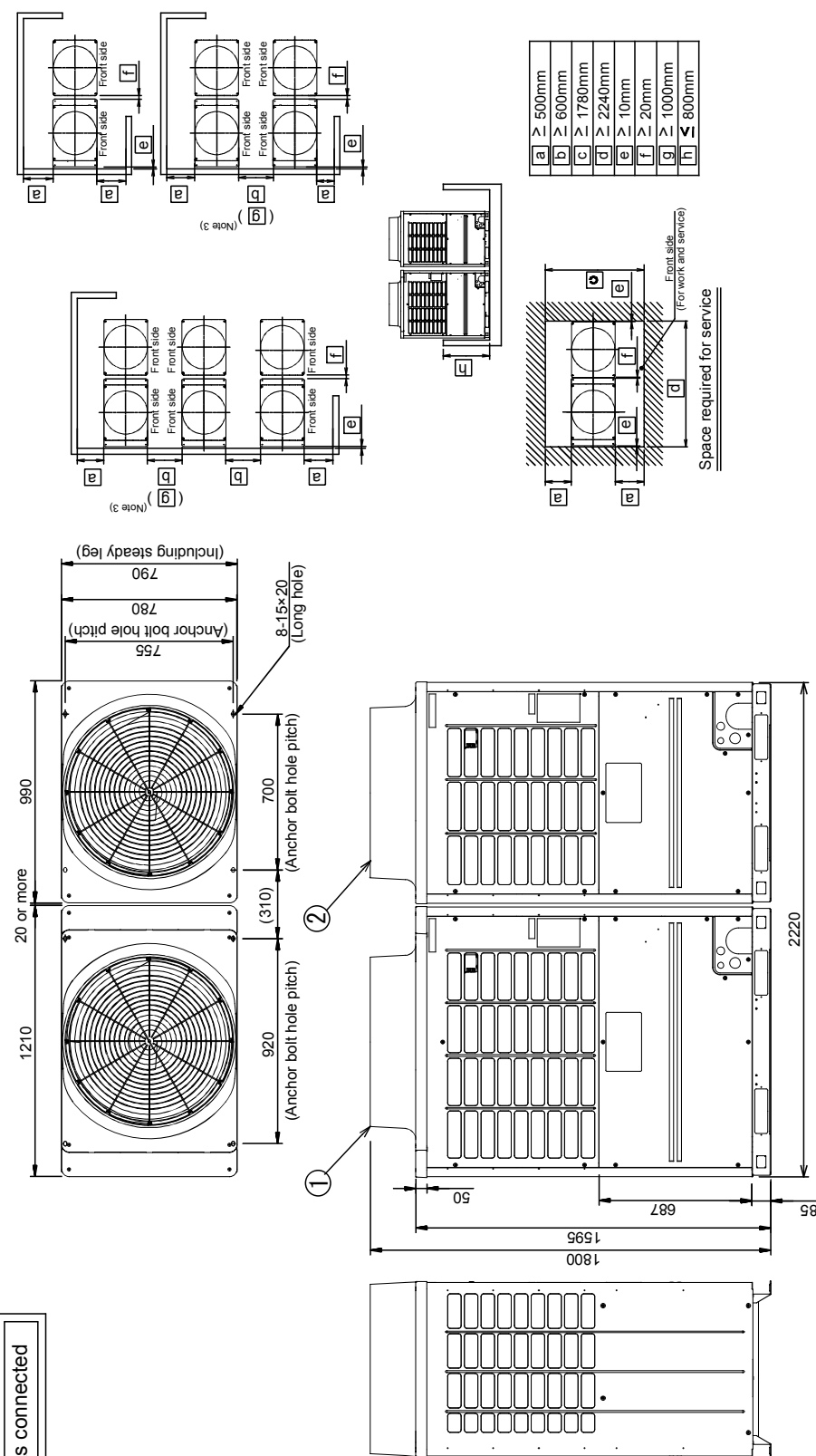


(Unit:mm)

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

Combination

Model Name	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-AP2616HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1206HT8P-ME

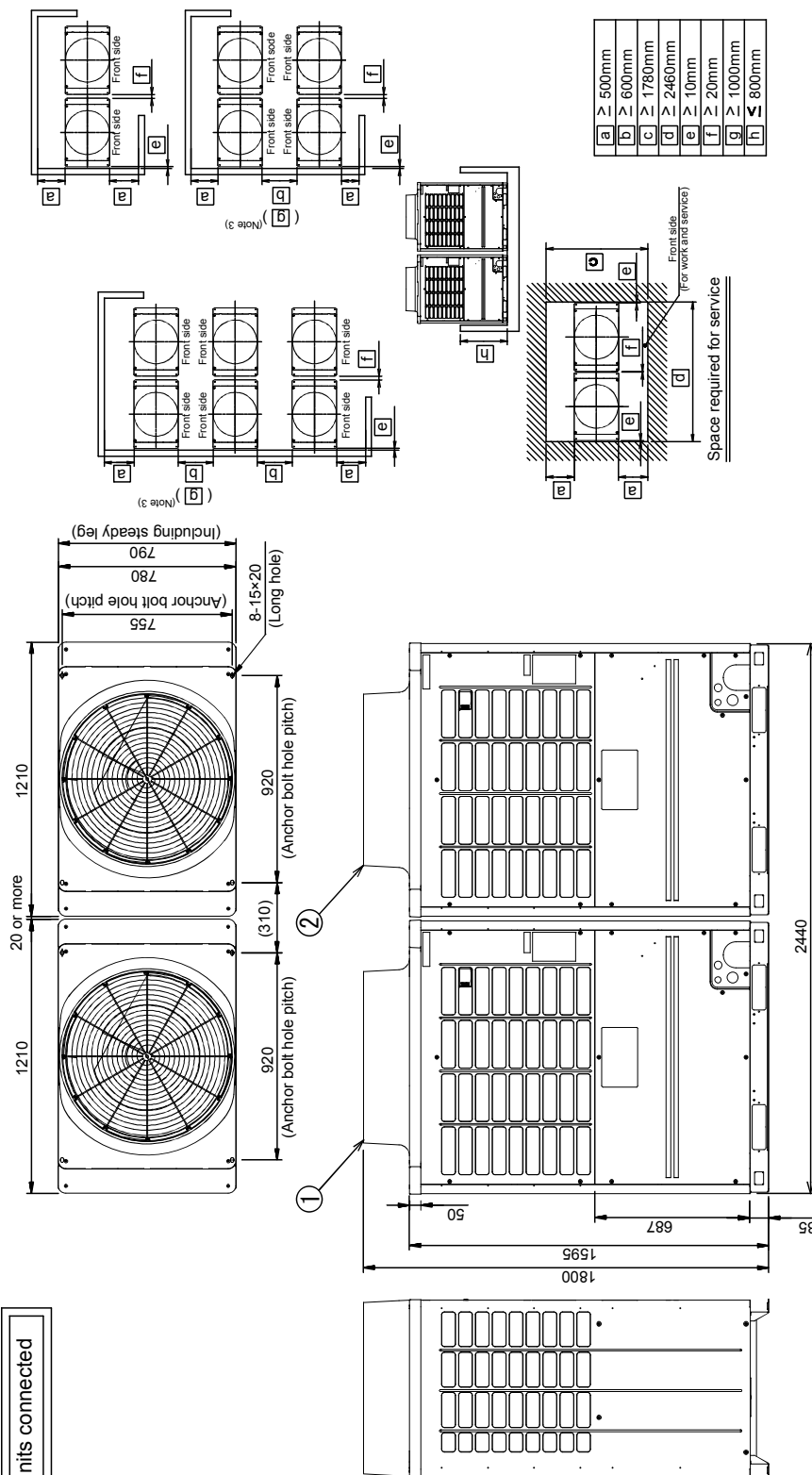


(Unit:mm)

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

Combination

Model Name	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-MAP2816HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1406HT8P-ME
MMY-MAP3016HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1406HT8P-ME
MMY-MAP3216HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME



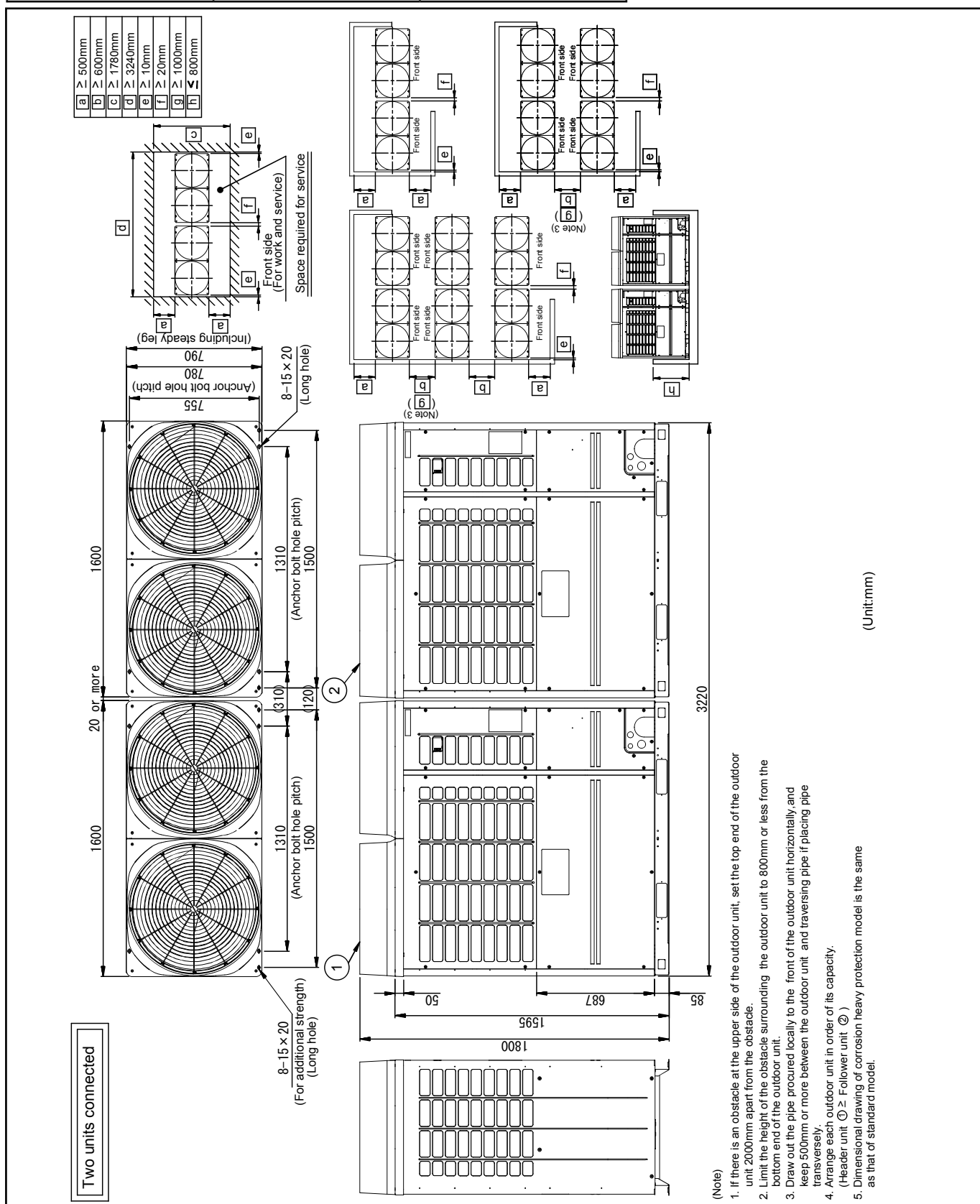
(Unit:mm)

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

Model Name	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-AP3416HT8P-ME	MMY-MAP1806HT8P-ME	MMY-MAP1606HT8P-ME

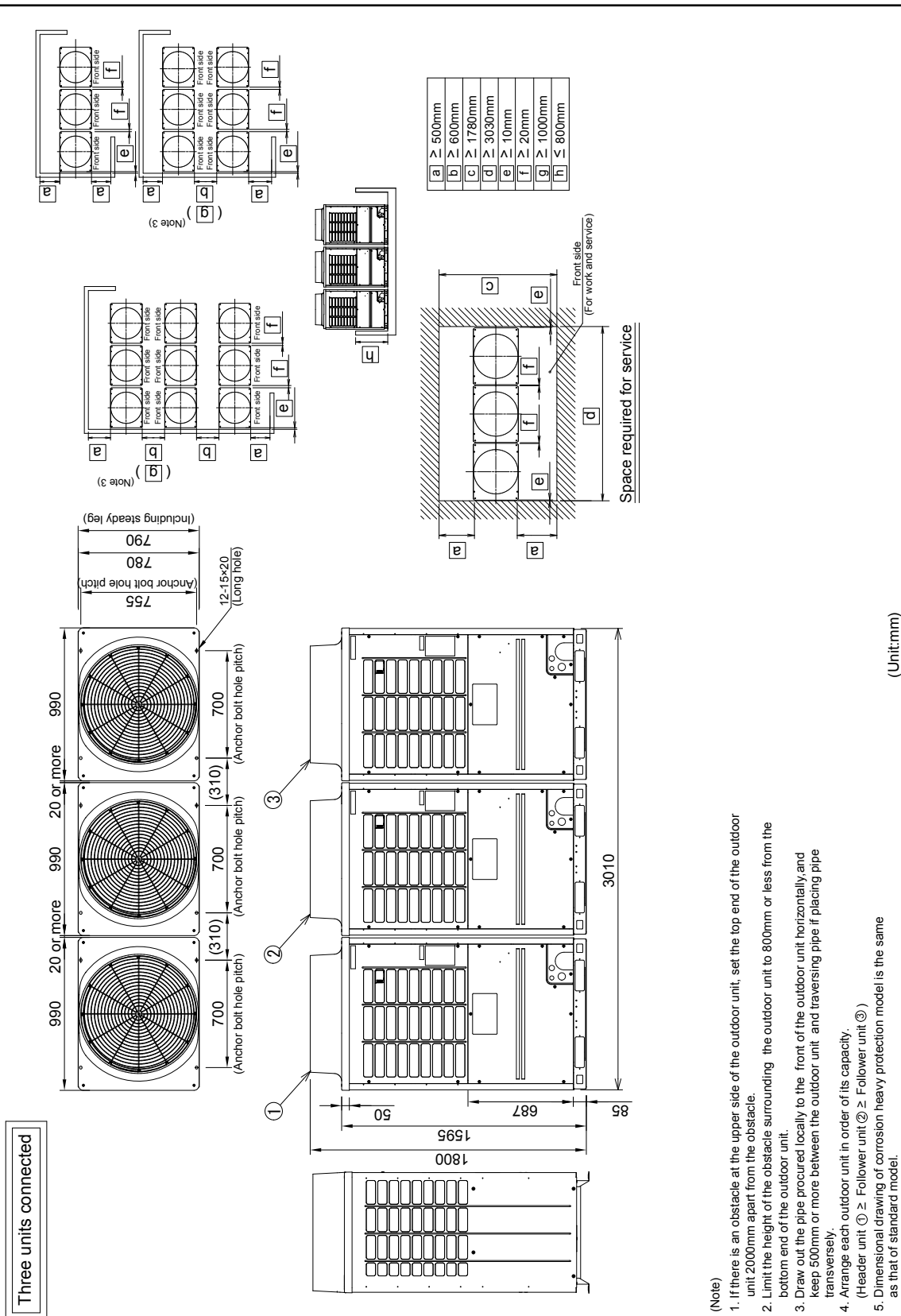


Model Name	Outdoor unit	
	(1) Header unit	(2) Follower unit
MMY-AP3616HT8P-ME	MMY-MAP1806HT8P-ME	MMY-MAP1806HT8P-ME
MMY-AP3816HT8P-ME	MMY-MAP2006HT8P-ME	MMY-MAP1806HT8P-ME
MMY-AP4016HT8P-ME	MMY-MAP2006HT8P-ME	MMY-MAP2006HT8P-ME



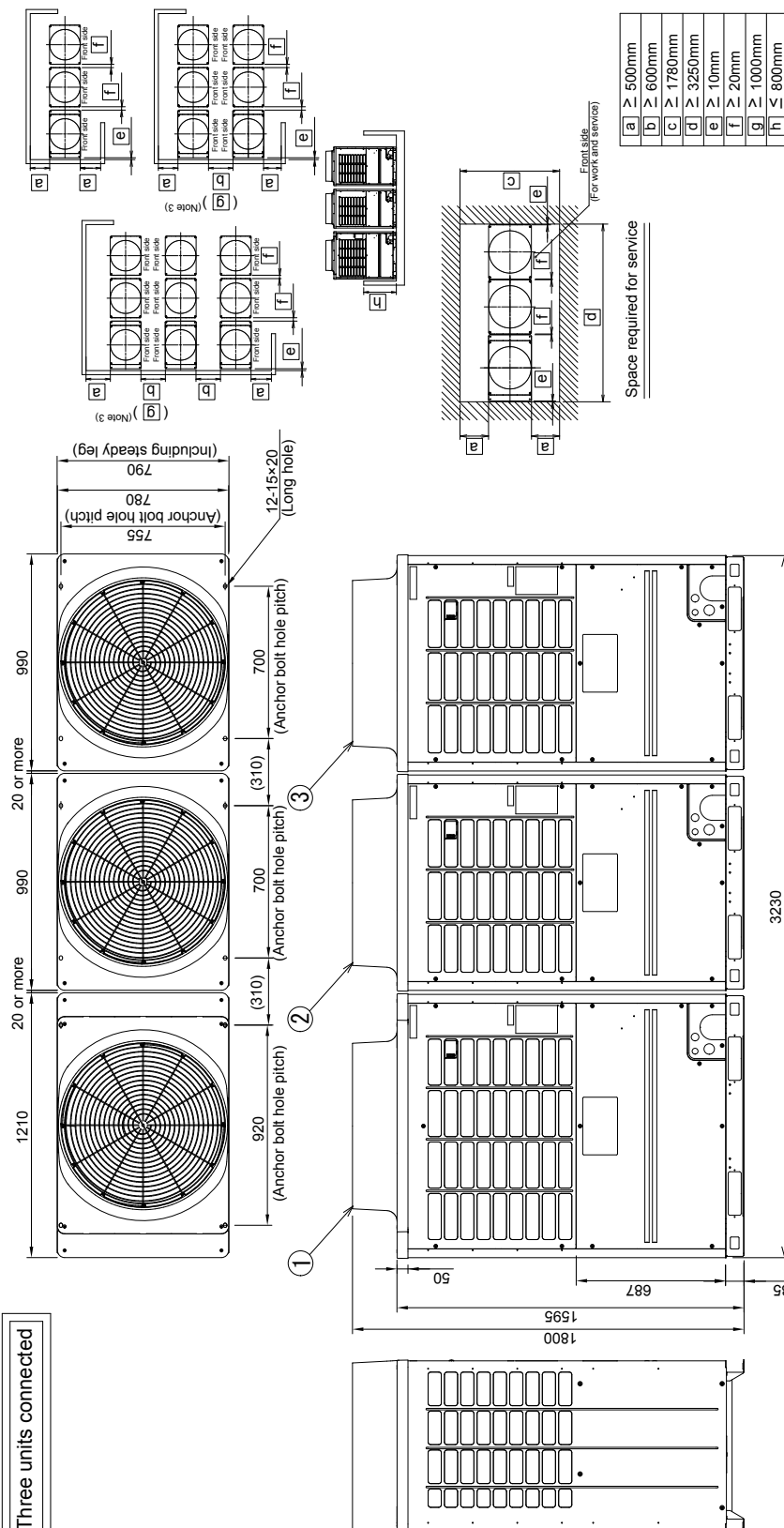
Combination

Model Name	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP3026HT8P-ME	MMY-MAP1006HT8P-ME	MMY-MAP1006HT8P-ME	MMY-MAP1006HT8P-ME
MMY-AP3226HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1006HT8P-ME	MMY-MAP1006HT8P-ME
MMY-AP3426HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1006HT8P-ME



Combination

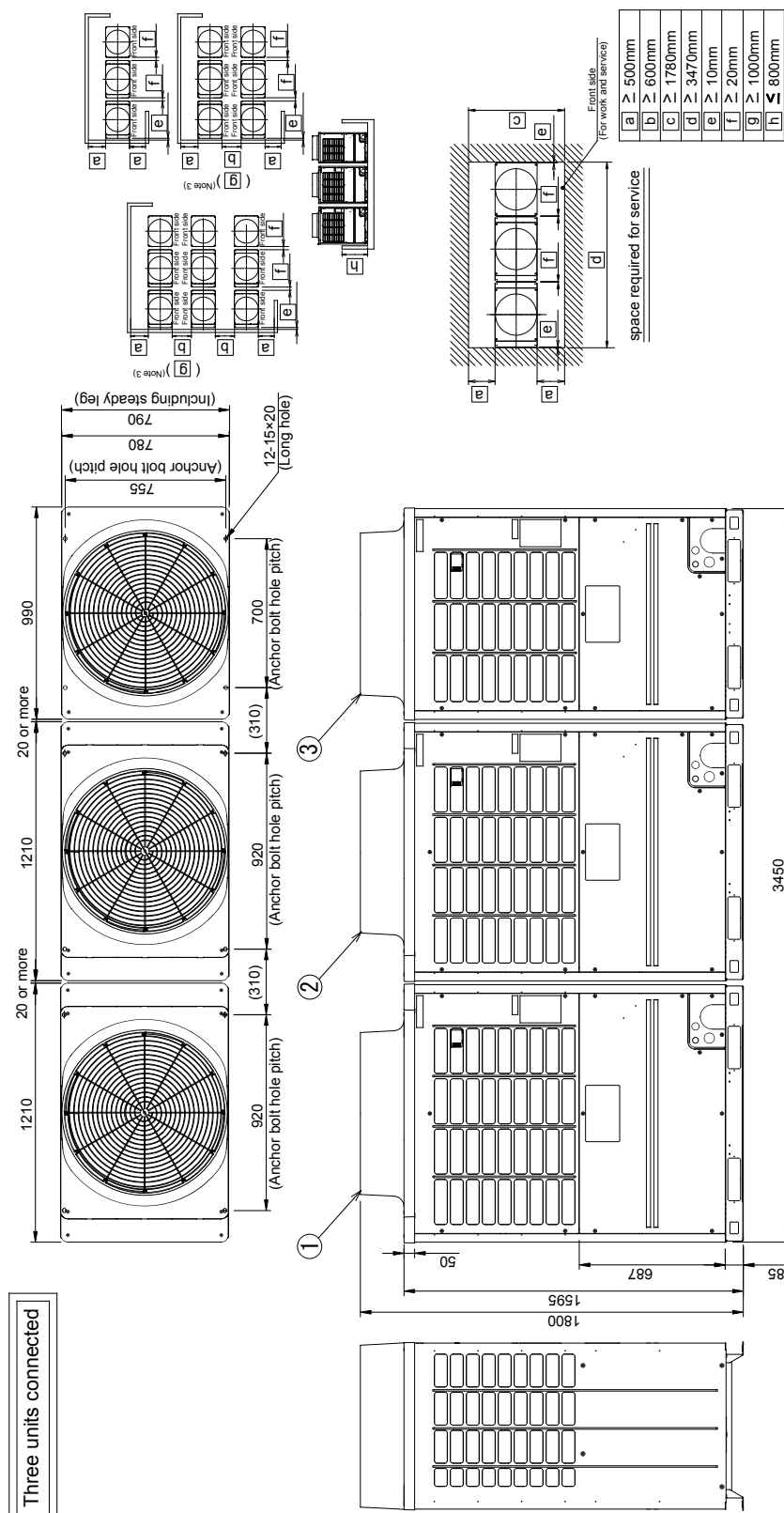
Model Name	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP3826HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1206HT8P-ME	MMY-MAP1206HT8P-ME



- (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. 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.

Combination

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

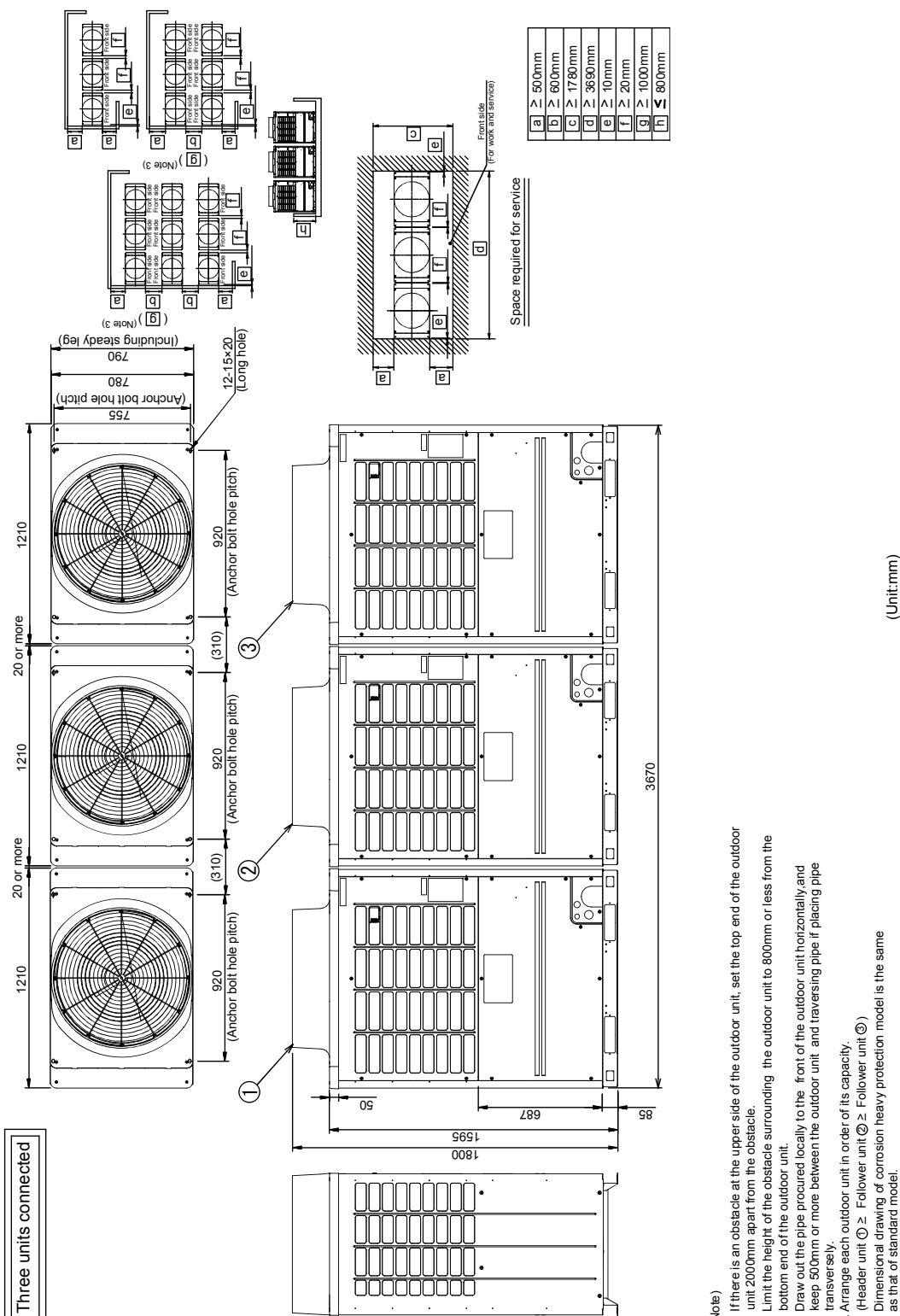


(Note)

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. 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.

Combination

Model Name	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP4216HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1406HT8P-ME
MMY-AP4416HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1406HT8P-ME	MMY-MAP1406HT8P-ME
MMY-AP4616HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1406HT8P-ME
MMY-AP4816HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME



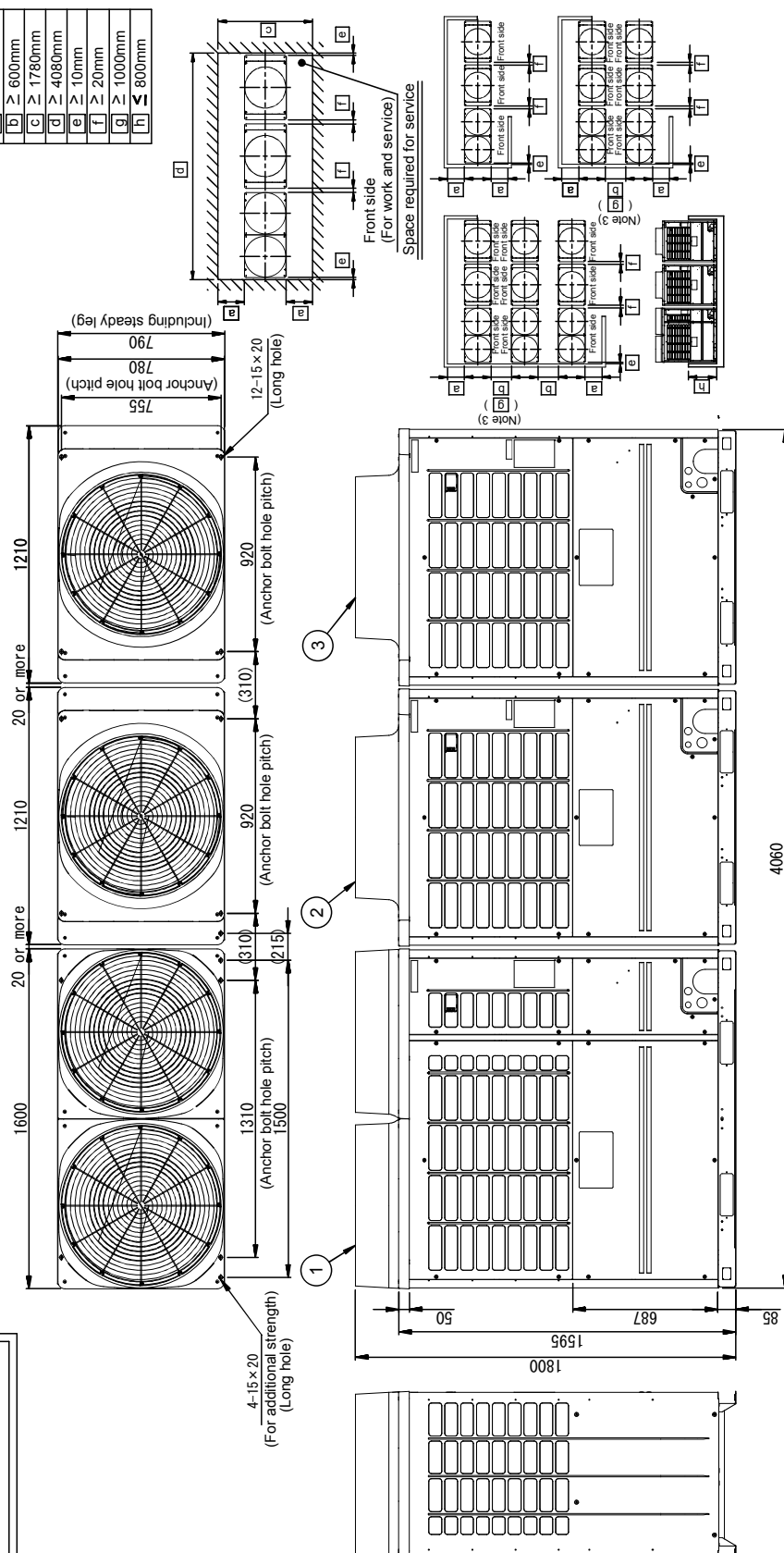
(Note)

- 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.
- Limit the height of the obstacle surrounding the outdoor unit to 800mm or less from the bottom end of the outdoor unit.
- 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.
- Arrange each outdoor unit in order of its capacity.
(Header unit ① ≥ Follower unit ② ≥ Follower unit ③)
- Dimensional drawing of corrosion heavy protection model is the same as that of standard model.

Combination

Model Name	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP5016HT8P-ME	MMY-MAP1806HT8P-ME	MMY-MAP1606HT8P-ME	MMY-MAP1606HT8P-ME

a	≥ 500mm
b	≥ 600mm
c	≥ 1780mm
d	≥ 4080mm
e	≥ 10mm
f	≥ 20mm
g	≥ 1000mm
h	≤ 800mm



- (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. Arrange each outdoor unit in order of its capacity.
(Header unit $\odot \geq$ Follower unit $\odot \geq$ Follower unit $\odot$)
 5. Dimensional drawing of corrosion heavy protection model is the same as that of standard model.

Model Name	Outdoor unit		
	(1) Header unit	(2) Follower unit	(3) Follower unit
MMY-AP5216HT8P-ME	MMY-MAP1806HT8P-ME	MMY-MAP1806HT8P-ME	MMY-MAP1606HT8P-ME
MMY-AP5416HT8P-ME	MMY-MAP2006HT8P-ME	MMY-MAP2006HT8P-ME	MMY-MAP1406HT8P-ME
MMY-AP5616HT8P-ME	MMY-MAP2006HT8P-ME	MMY-MAP2006HT8P-ME	MMY-MAP1606HT8P-ME

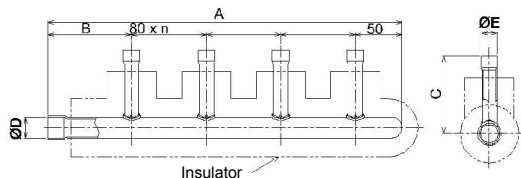


5-4. Branch header / branch joint

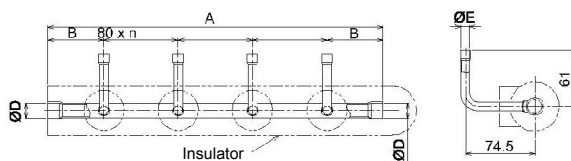
• Branch header

RBM-HY1043E, HY1083E, HY2043E, HY2083E

Gas side



Liquid side



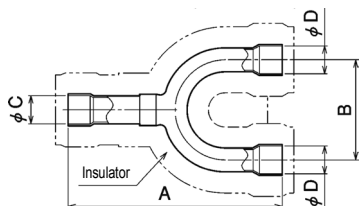
(Unit : mm)

Model		A	B	C	ØD	ØE	n	Accessory socket Qty
RBM-HY1043E	Gas side	380	90	83.6	22.2	15.9	3	⑥ x 4, ⑨ x 4, ⑭ x 1, ⑱ x 1, ⑦⑩ x 1
	Liquid side	360	60	-	15.9	9.5	3	① x 4, ⑥ x 1, ⑨ x 1
RBM-HY1083E	Gas side	700	90	83.6	22.2	15.9	7	⑥ x 8, ⑨ x 8, ⑭ x 1, ⑱ x 1, ⑦⑩ x 1
	Liquid side	680	60	-	15.9	9.5	7	① x 8, ⑥ x 1, ⑨ x 1
RBM-HY2043E	Gas side	385.5	95.5	89.3	31.8	15.9	3	⑥ x 2, ⑨ x 2, ②⑦ x 1, ⑤⑨ x 1
	Liquid side	360	60	-	15.9	9.5	3	① x 2 ⑤① x 1
RBM-HY2083E	Gas side	705.5	95.5	89.3	31.8	15.9	7	⑥ x 7, ⑨ x 7, ②⑦ x 1, ⑤⑨ x 1
	Liquid side	680	60	-	15.9	9.5	7	① x 7, ⑤① x 1

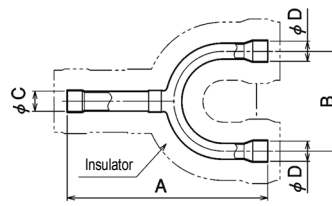
• Y-shape branch joint

RBM-BY55E, BY105E, BY205E, BY305E

Gas side



Liquid side

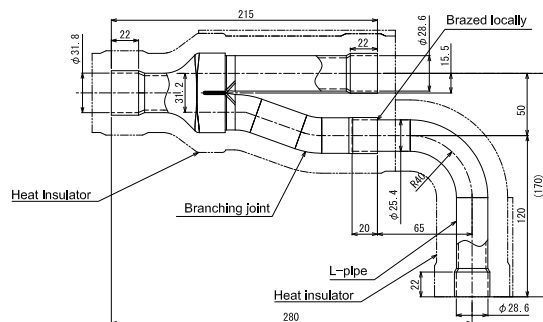


(Unit : mm)

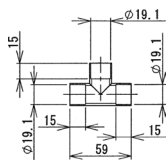
RBM-		A	B	ØC	ØD	Accessory socket Qty
BY55E	Gas side	160	80	15.9	15.9	⑨ x 1, ⑤① x 2, ⑨① x 2
	Liquid side	130	70	9.5	9.5	① x 2te
BY105E	Gas side	170	80	22.2	22.2	⑭ x 2, ⑦⑩ x 2, ⑨① x 1
	Liquid side	160	80	15.9	15.9	⑨ x 1, ⑨① x 1, ⑨② x 1
BY205E	Gas side	200	80	31.8	28.6	⑩⑥ x 1, ②⑦ x 1, ④③ x 2, ⑤⑧ x 1, ⑤⑨ x 1, ⑨① x 1
	Liquid side	160	80	15.9	15.9	⑨ x 1, ⑤① x 2, ⑨② x 1
BY305E	Gas side	220	80	38.1	38.1	④③ x 1, ⑥① x 3, ⑥② x 2, ⑦① x 2, ⑦⑤ x 1, ⑨① x 1
	Liquid side	170	80	22.2	22.2	⑨② x 1, ⑨③ x 3, ⑦⑩ x 2

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

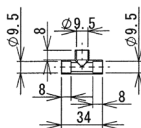
Gas side



Liquid side



Balance pipe

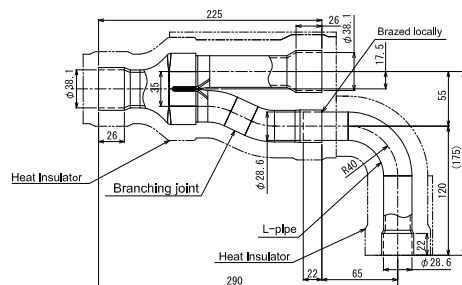


RBM-BT14E	
	Accessory socket Qty
Gas side	②7 x 1, ④3 x 2, ⑤9 x 1
Liquid side	⑩ x 2, ⑬ x 1

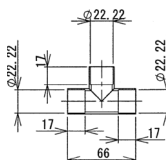
(Unit : mm)

RBM-BT24E

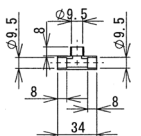
Gas side



Liquid side



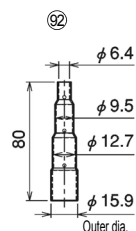
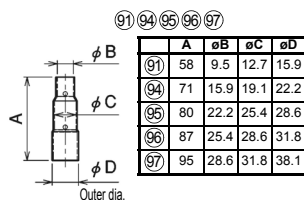
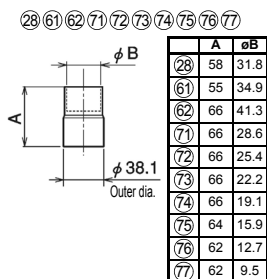
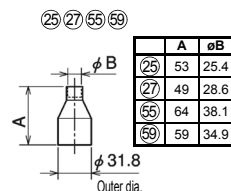
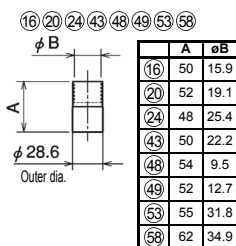
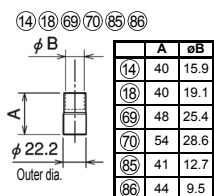
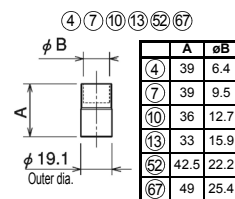
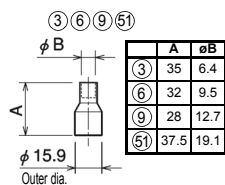
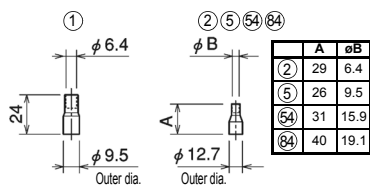
Balance pipe



RBM-BT24E	
	Accessory socket Qty
Gas side	④3 x1, ⑥1 x2, ⑥2 x2, ⑦1 x1, ⑦3 x1
Liquid side	⑭ x2, ⑱ x2, ⑤5 x1, ⑦0 x1

(Unit : mm)

• Accessory socket



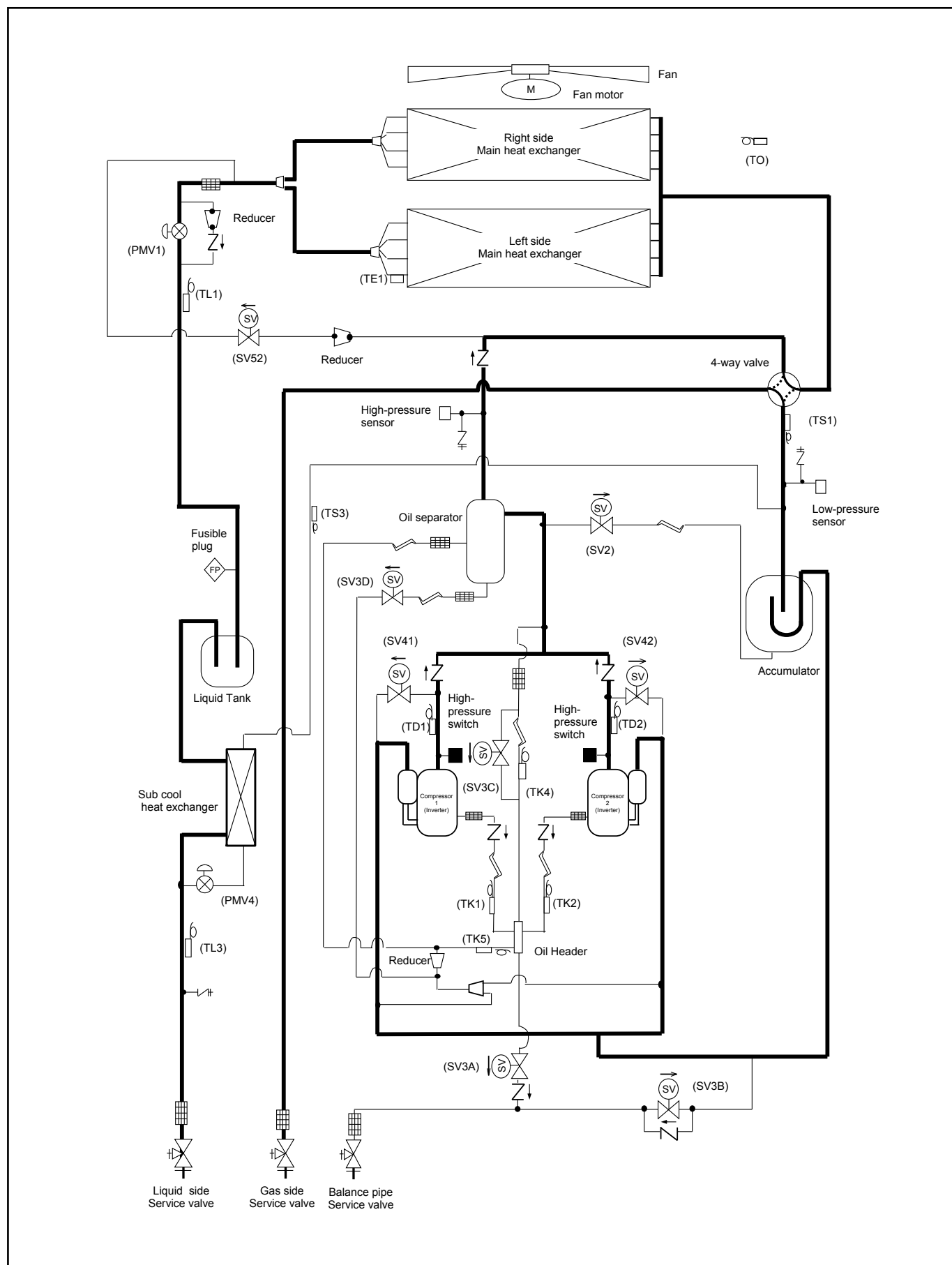
Closure tube

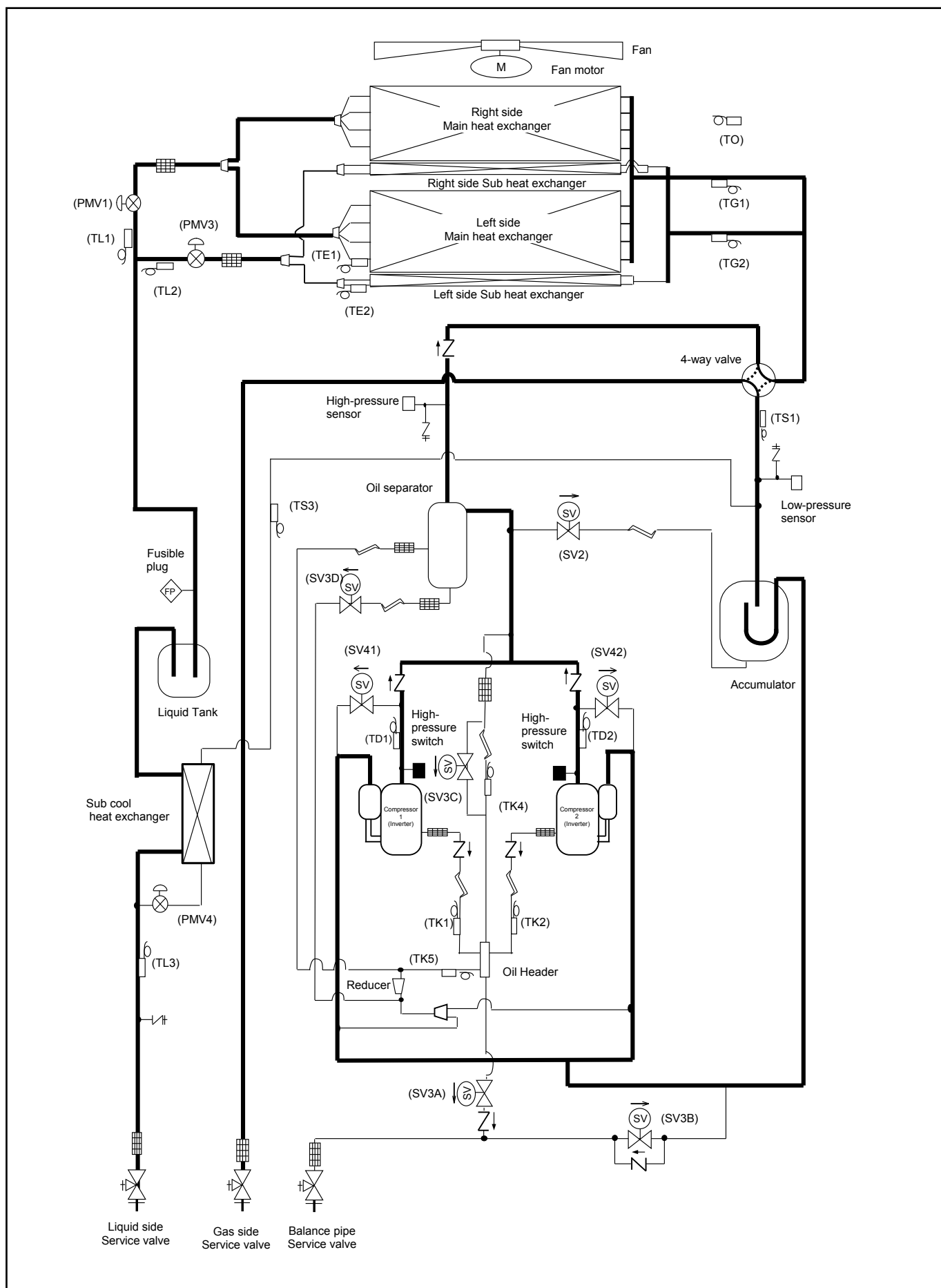


(Unit : mm)

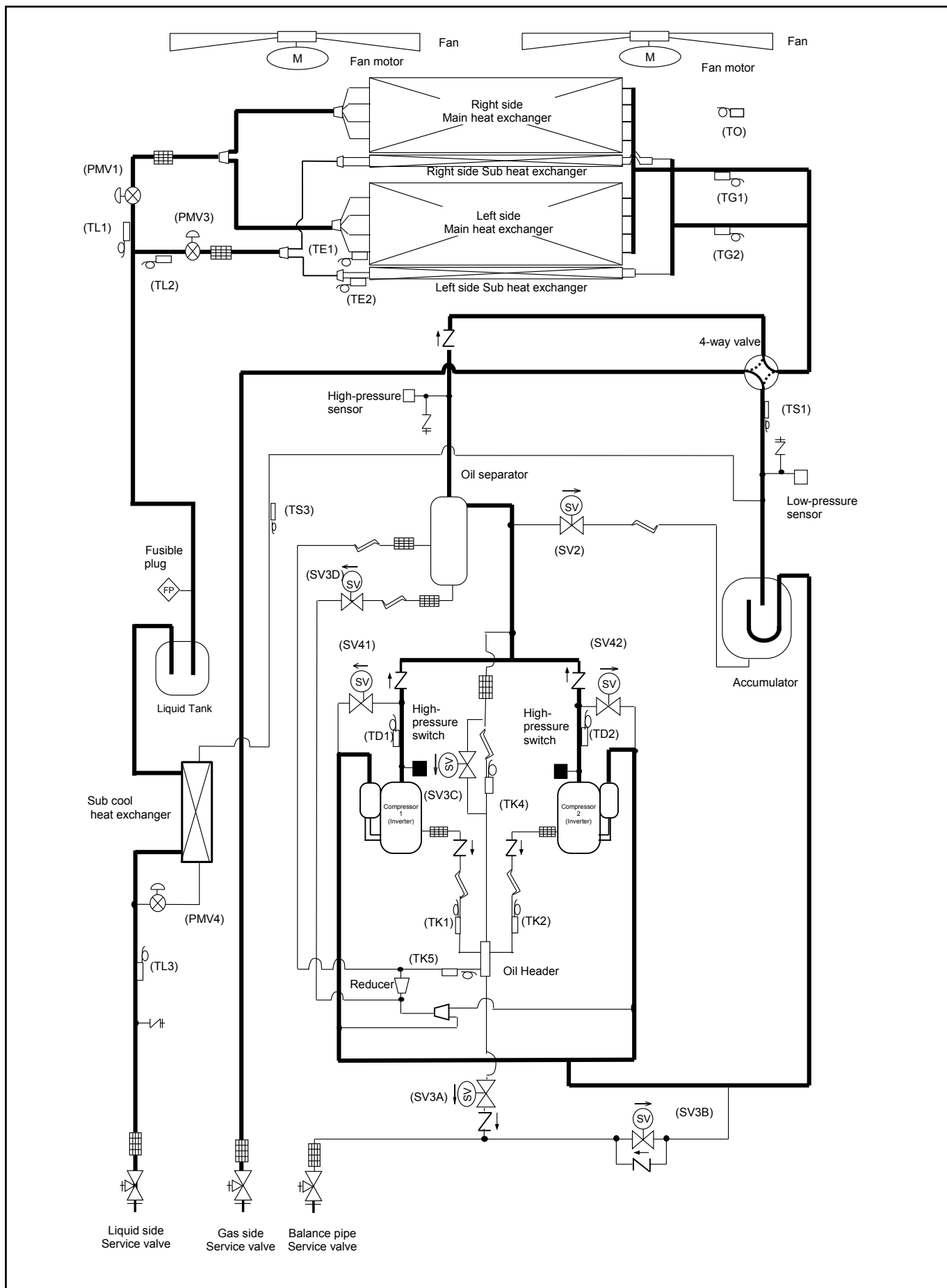
5-5. Refrigerant cycle diagram

MMY-MAP0806HT8P-ME, MMY-MAP1006HT8P-ME, MMY-MAP1206HT8P-ME



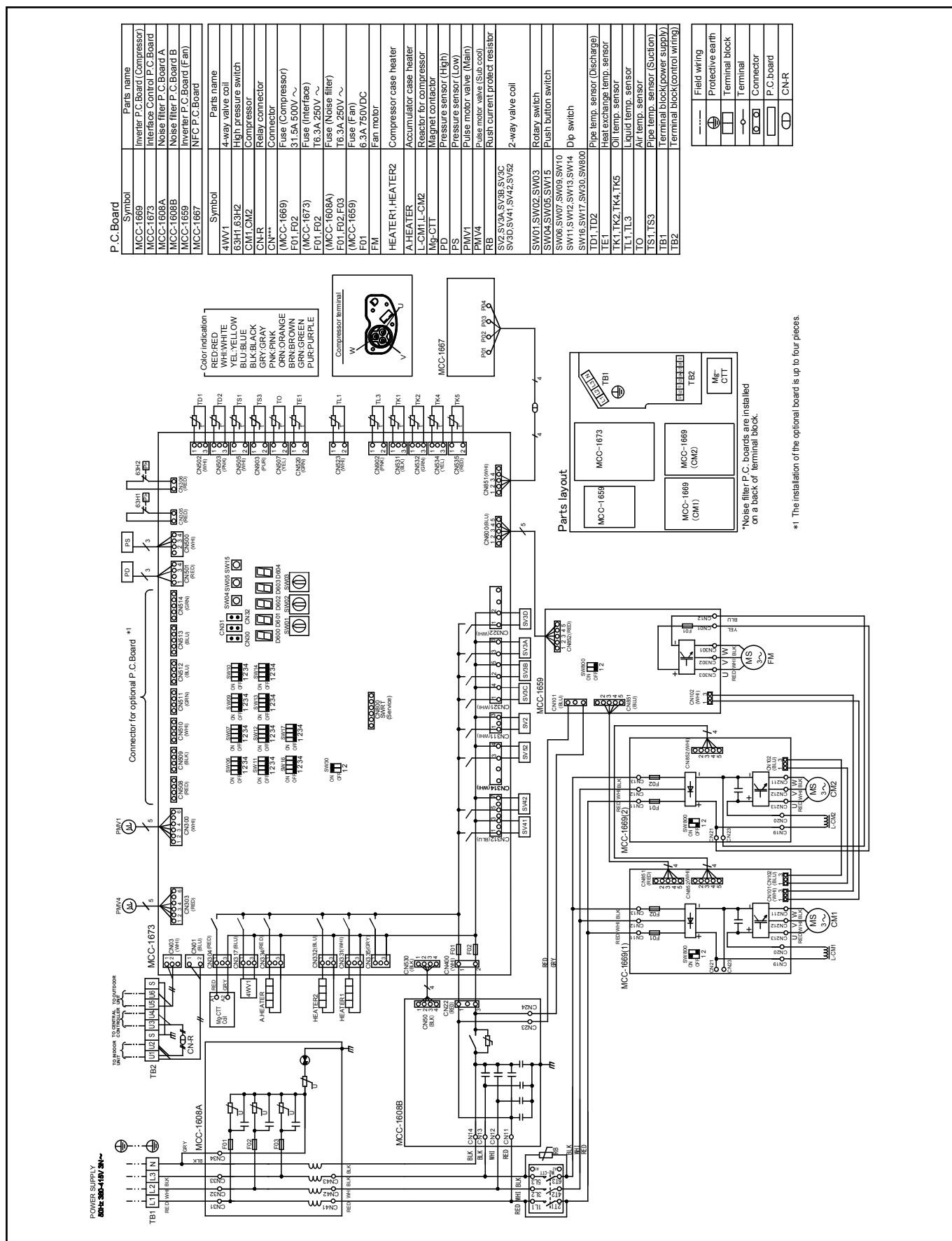


MMY-MAP1806HT8P-ME, MMY-MAP2006HT8P-ME

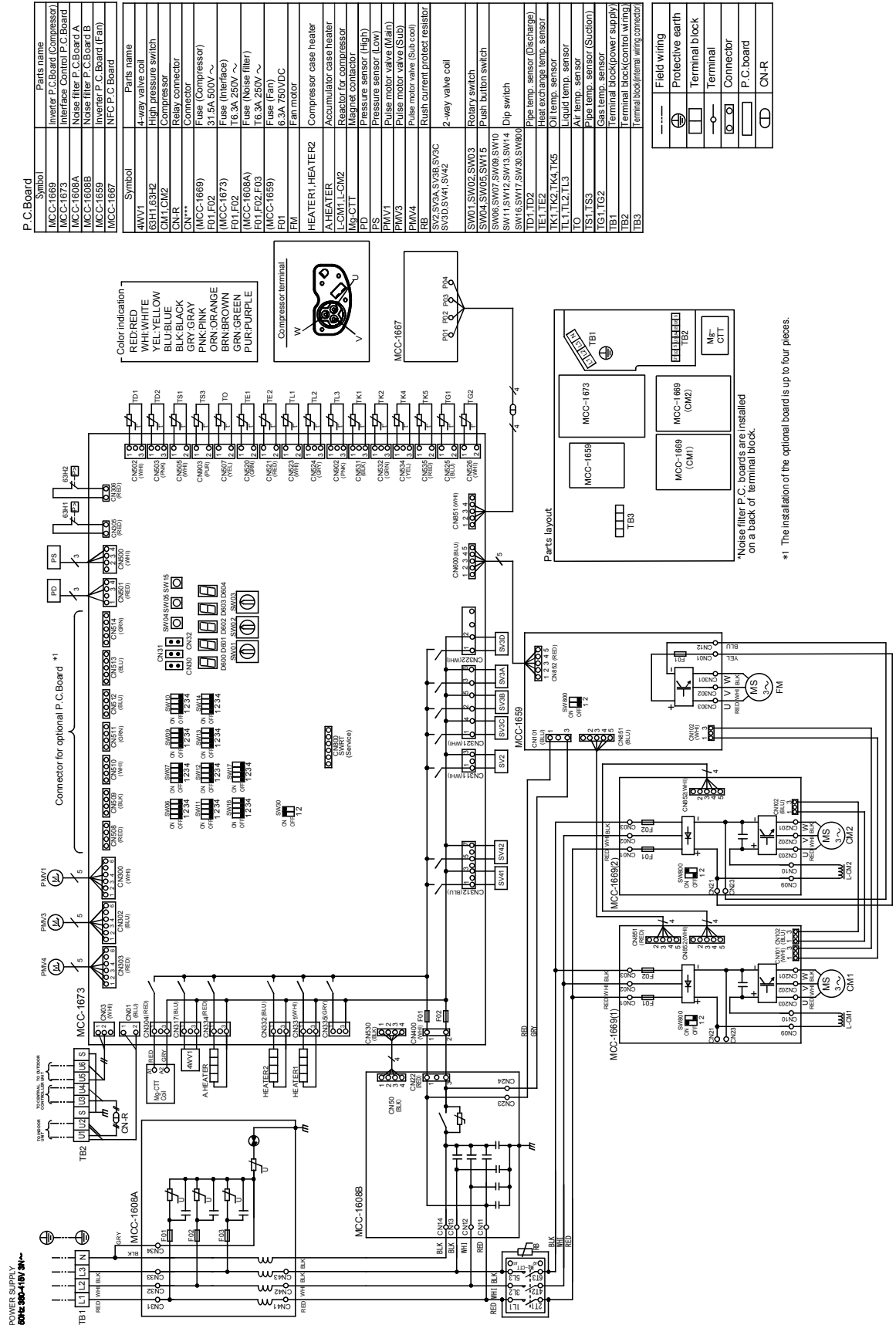


5-6. Wiring diagram

Model : MMY-MAP0806HT8P-ME , MMY-MAP1006HT8P-ME , MMY-MAP1206HT8P-ME



Model : MMY-MAP1406HT8P-ME , MMY-MAP1606HT8P-ME

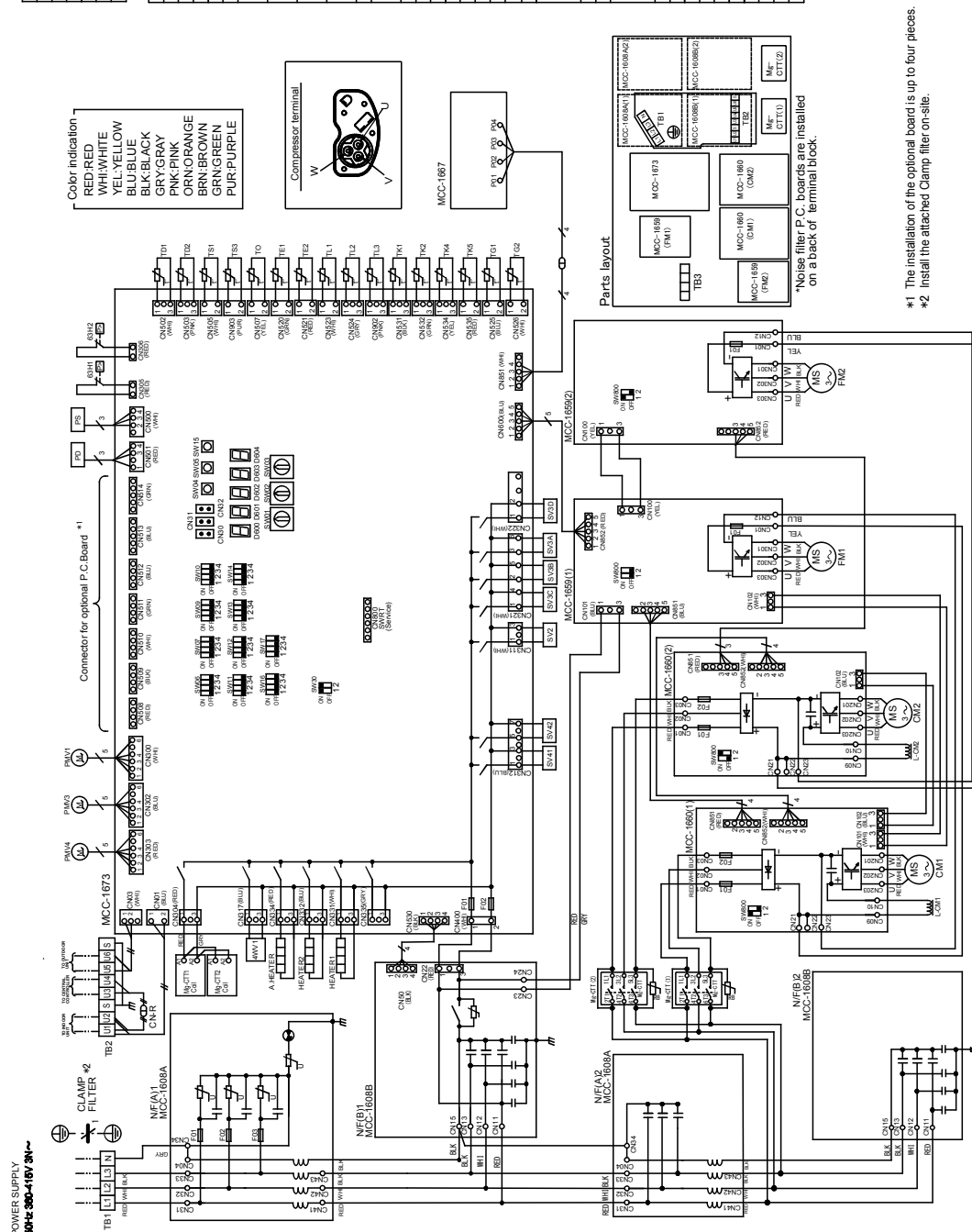


Model : MMY-MAP1806HT8P-ME , MMY-MAP2006HT8P-ME

P.C Board	Symbol	Parts name
MCC-1660		Inverter P.C Board (Compressor)
MCC-1673		Interface Control P.C Board A
MCC-1608A		Noise filter P.C Board A
MCC-1608B		Noise filter P.C Board B
MCC-1659		Inverter P.C Board (Fan)
MCC-1667		NFC P.C Board

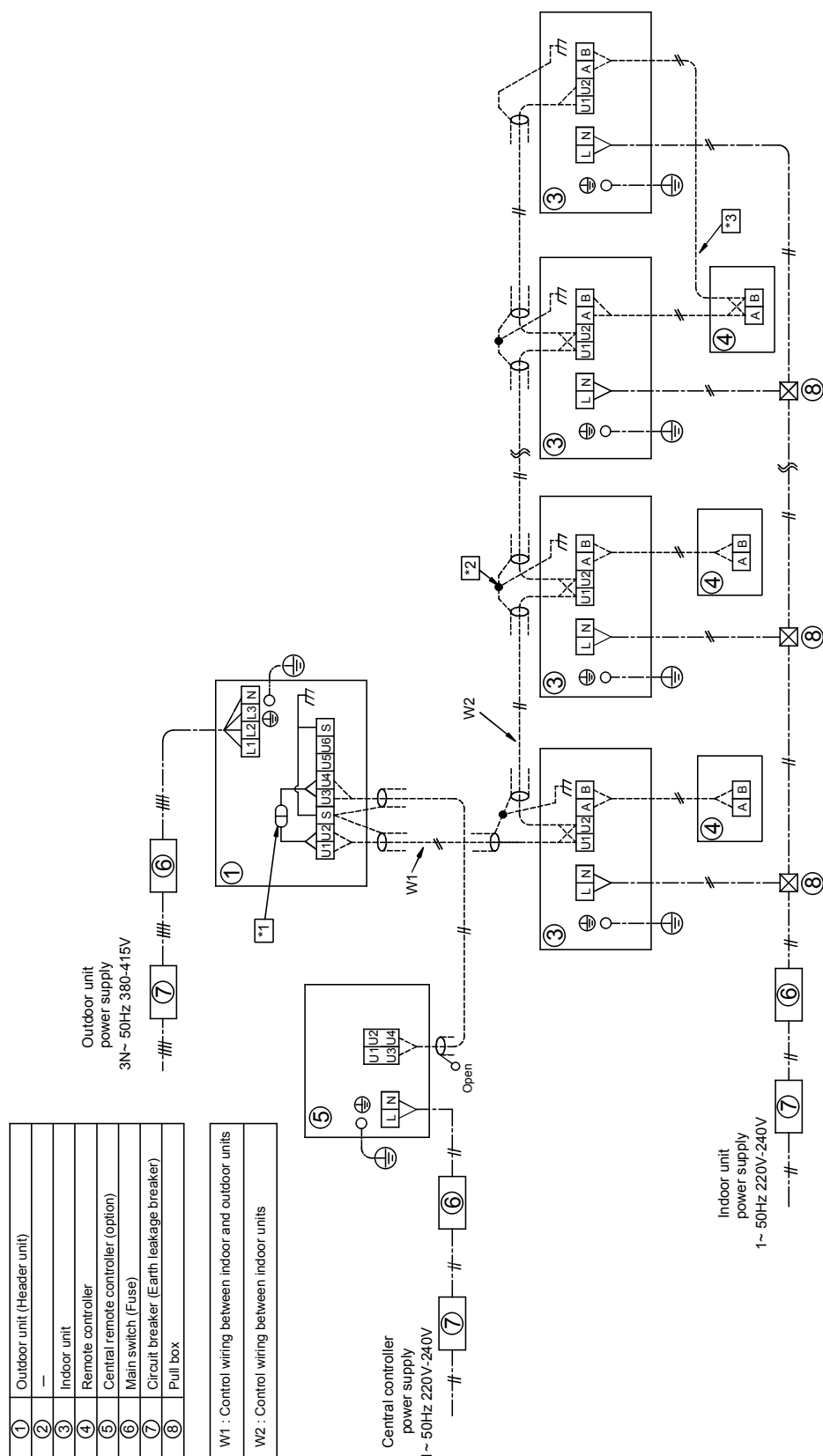
Symbol	Parts name
4WV1	4-way valve coil
63H1.63H2	High pressure switch
CM1 CM2	Compressor
CNR	Relay connector
CN	Connector
(MCC-1660)	Fuse (Compressor)
F01.F02	40A 500V ~
(MCC-1673)	Fuse (Interface)
F01.F02	T6.3A 250V ~
(MCC-1608A)	Fuse (Noise filter)
F01.F02.F03	T6.3A 250V ~
(MCC-1659)	Fuse (Fan)
F01	6.3A 750VDC
FM1.FM2	Fan motor
HEATER1 HEATER2	Compressor case heater
A HEATER	Accumulator case heater
L-CMT1 L-CM2	Reactor for compressor
Mg-CTT1.Mg-CTT2	Magnet contactor
PD	Pressure sensor (High)
PS	Pressure sensor (Low)
PMV1	Pulse motor valve (Main)
PMV3	Pulse motor valve (Sub)
PMV4	Pulse motor valve (Sub cool)
RB	Rush current protect resistor
SV2.SV3A.SV3B.SV3C	2-way valve coil
SV3D.SV41.SV42	Rotary switch
SW01.SW02.SW03	Rotary switch
SW04.SW05.SW15	Push button switch
SW06.SW07.SW09.SW10	Dip switch
SW11.SW12.SW13.SW14	Pipe temp. sensor (Discharge)
SW16.SW17.SW30.SW800	Heat exchange temp. sensor
TD1.TD2	Oil temp. sensor
TE1.TE2	Liquid temp. sensor
TK1.TK2.TK4.TK5	Air temp. sensor
TL1.TL2.TL3	Pipe temp. sensor (Suction)
TO	Pipe temp. sensor
TS1.TS3	Gas temp. sensor
TG1.TG2	Terminal block (power supply)
TB1	Terminal block (control wiring)
TB2	Terminal block (internal wiring connector)
TB3	Terminal block (internal wiring connector)

---	Field wiring
⊕	Protective earth
□	Terminal block
○	Terminal
□	Connector
□	P.C board
⊖	CNR



5-7. Connecting diagram

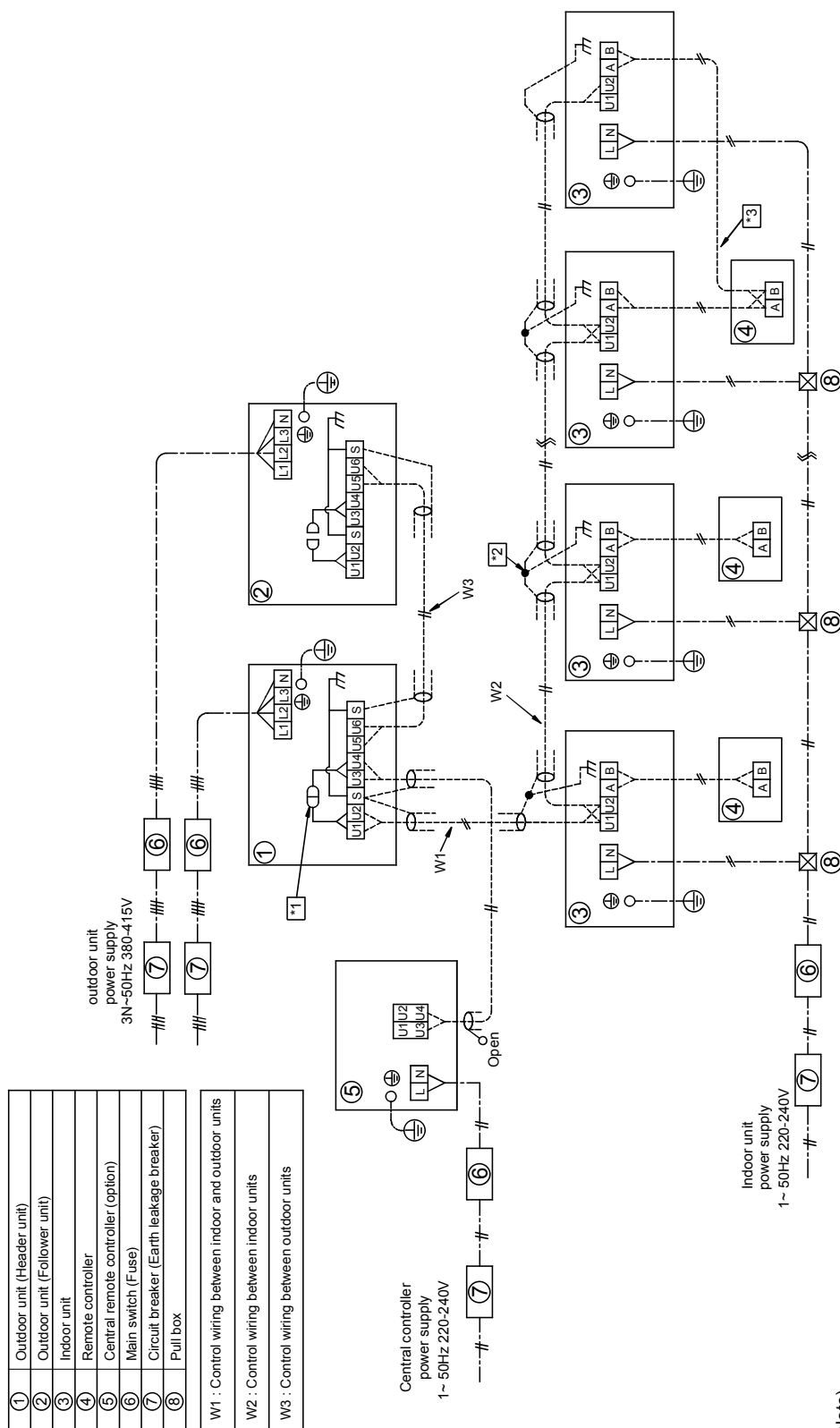
Model : MMY-MAP0806HT8P-ME , MMY-MAP1006HT8P-ME , MMY-MAP1206HT8P-ME,
MMY-MAP1406HT8P-ME , MMY-MAP1606HT8P-ME , MMY-MAP1806HT8P-ME,
MMY-MAP2006HT8P-ME



(Note)

- 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)
- Connect the closed end terminal of shield wire.
(Connected to all connecting sections in each unit)
- Group control.
- 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.
- For the control wires connecting indoor units, outdoor units, and between indoor and outdoor units, use 2-core and non-polarity shield wires.
- As for details, see the wiring diagram of indoor/outdoor unit.
- Diagram of corrosion heavy protection model is the same as that of standard model.

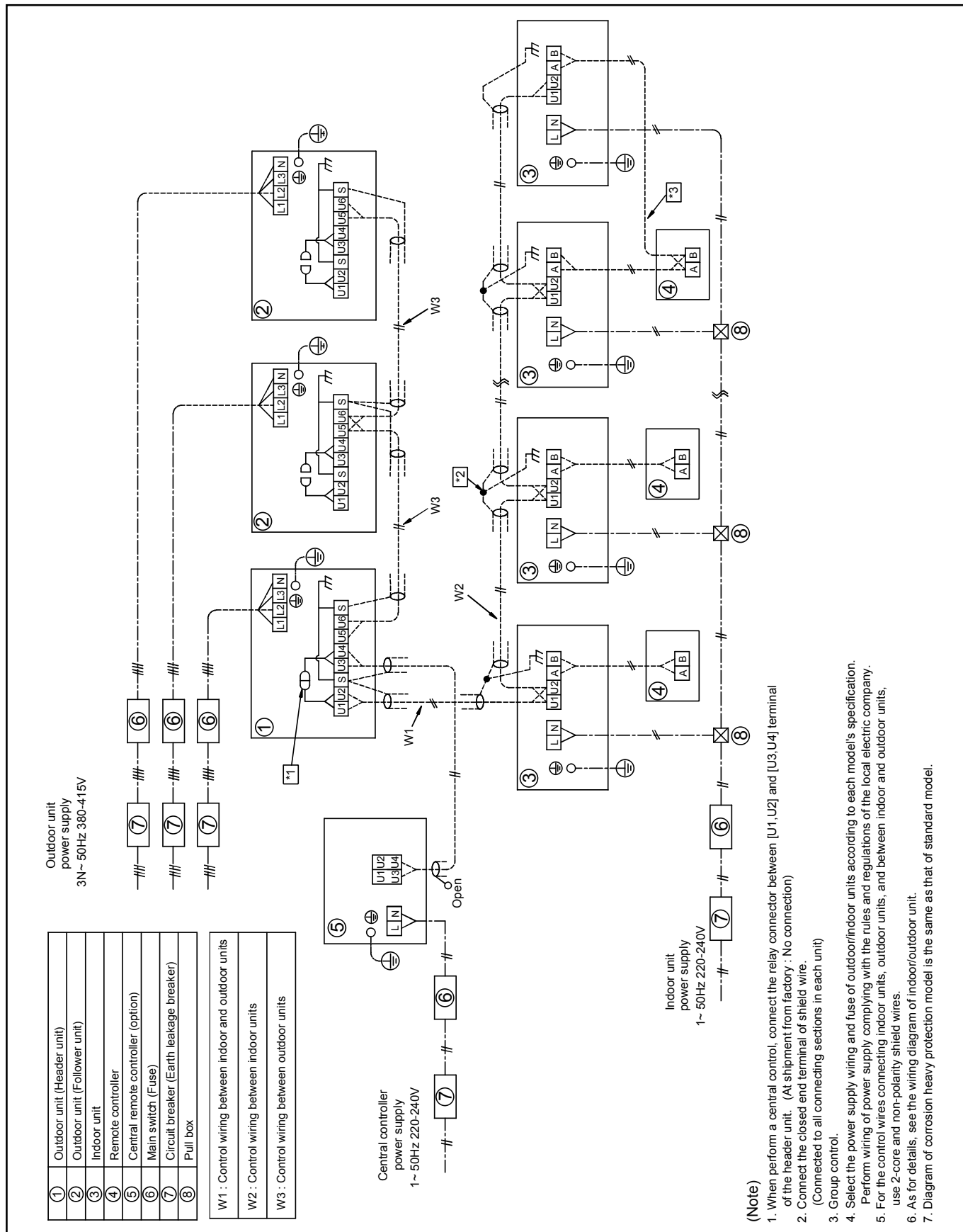
Model : MMY-AP2216HT8P-ME , MMY-AP2416HT8P-ME , MMY-AP2616HT8P-ME,
MMY-AP2816HT8P-ME , MMY-AP3016HT8P-ME , MMY-AP3216HT8P-ME,
MMY-AP3416HT8P-ME , MMY-AP3616HT8P-ME , MMY-AP3816HT8P-ME,
MMY-AP4016HT8P-ME , MMY-AP1626HT8P-ME , MMY-AP1826HT8P-ME
MMY-AP2026HT8P-ME



(Note)

- 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)
- Connect the closed end terminal of shield wire.
(Connected to all connecting sections in each unit)
- Group control.
- 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.
- For the control wires connecting indoor units, outdoor units, and between indoor and outdoor units, use 2-core and non-polarity shield wires.
- As for details, see the wiring diagram of indoor/outdoor unit.
- Diagram of corrosion heavy protection model is the same as that of standard model.

Model : MMY-AP4216HT8P-ME , MMY-AP4416HT8P-ME , MMY-AP4616HT8P-ME ,
MMY-AP4816HT8P-ME , MMY-AP5016HT8P-ME , MMY-AP5216HT8P-ME ,
MMY-AP5416HT8P-ME , MMY-AP5616HT8P-ME , MMY-AP3026HT8P-ME ,
MMY-AP3226HT8P-ME , MMY-AP3426HT8P-ME , MMY-AP3826HT8P-ME ,
MMY-AP4026HT8P-ME



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 Pressure of Basw Outdoor Units

Model	MMY-	MAP0806*	MAP1006*	MAP1206*	MAP1406*	MAP1606*	MAP1806*	MAP2006*
Maximum external static pressure	Pa	60	60	50	50	40	50	40
(*) Outdoor unit air flow	m3/h	9700	9700	12200	12200	12600	17300	17900

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

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

Standard models

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

High efficiency models

System	Combination			Maximum external static pressure
HP	HP			Pa
16	8	8		60
18	10	8		60
20	10	10		60
30	10	10	10	60
32	12	10	10	50
34	12	12	10	50
38	14	12	12	50
40	14	14	12	50

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.)

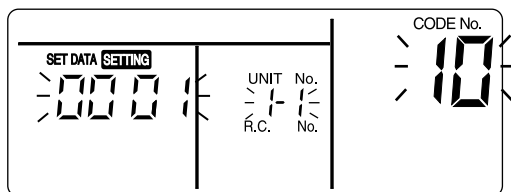
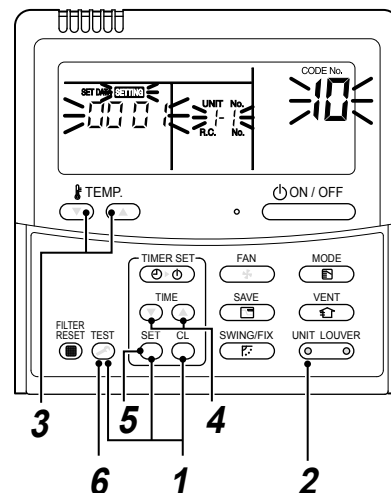
1 Push the + + buttons simultaneously and hold for at least 4 seconds. The display window will start flashing in a little while.

Verify that the displayed CODE No. is 10.

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

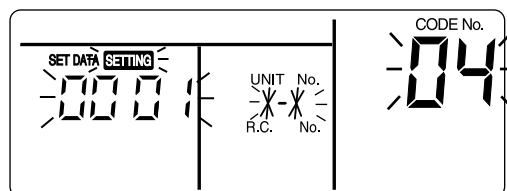
(Note that the system does not respond to remote controller operation for about 1 minute after the is pushed.)

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



2 Each time the 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 button to select the CODE No. 04.

4 Use the button to select the SET DATA 0001.

Priority set 0001 No priority set 0000

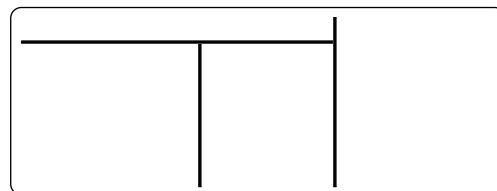
5 Push the button.

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

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

When the 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 button is pushed.)



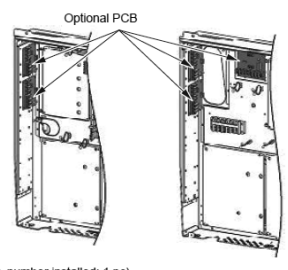
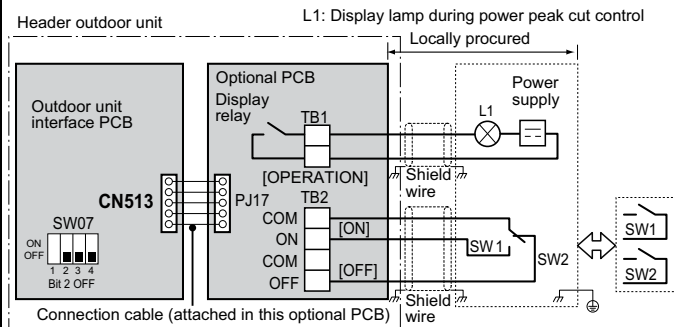
NOTE

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.

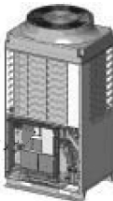
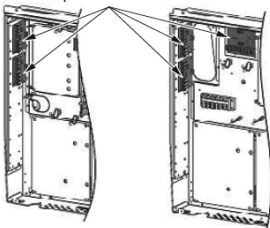
All units displaying L5 have been set to 0001 (priority). Keep the unit to which priority should be given as it is, and change the value back to 0000 (no priority) for all the rest.

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.)

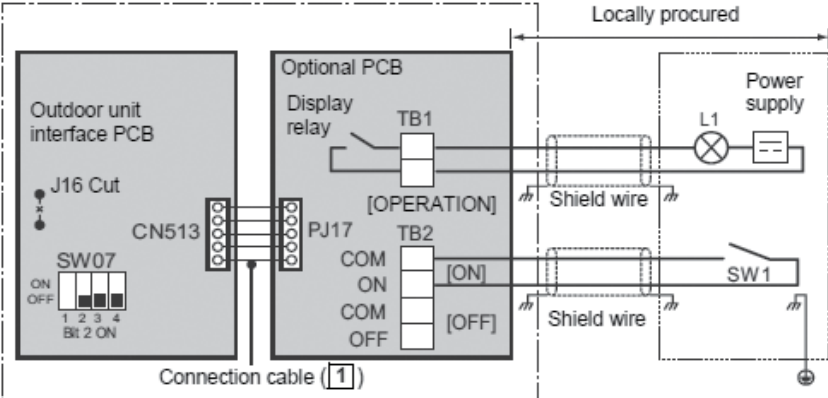
5-9. Optional printed circuit board (PCB) of outdoor unit

Model name	Appearance	Function																			
TCB-PCDM4E	 Size: 71 x 85 (mm)	[1] Power peak-cut Control • Purpose: Limiting air conditioning performance with external signals and decreasing the peak power consumption. • Feature The upper limit capacity of the outdoor unit is restricted based on the outdoor power peak selected setting. Standard Specifications (Wiring example)																			
	Application  MMY-MAP080 to 120 MMY-MAP140 to 200  (max. number installed: 1 pc) * Install the optional PCB in the outdoor header unit.	Header outdoor unit L1: Display lamp during power peak cut control Locally procured  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>	Input		SW07 (bit 1)		Display relay (L1)	SW1	SW2	Bit 1 OFF	Bit 1 ON	OFF	ON	100 % (normal operation)	100 % (normal operation)	OFF	ON	OFF	0 % (forced stop)	Approx. 60 % (upper limit regulated)	ON
	Input		SW07 (bit 1)		Display relay (L1)																
SW1	SW2	Bit 1 OFF	Bit 1 ON																		
OFF	ON	100 % (normal operation)	100 % (normal operation)	OFF																	
ON	OFF	0 % (forced stop)	Approx. 60 % (upper limit regulated)	ON																	

Model name	Appearance
	 Size: 55.5 x 60 (mm)

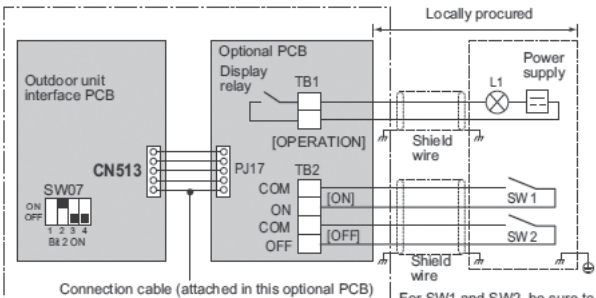
Application
 MMY-MAP080 to 120 MMY-MAP140 to 200 Optional PCB  (max. number installed: 1 pc) * Install the optional PCB in the outdoor header unit.

TCB-PCMO4E

Function
For one input function Power peak-cut ON-OFF control is made possible on the SMMS-i on only the [ON] terminal input (SW1) by cutting the jumper lead (J16) of the center outdoor unit interface PCB. (Wiring example) Header outdoor unit L1: Display lamp during power peak cut control 

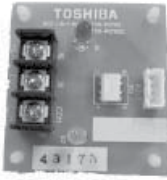
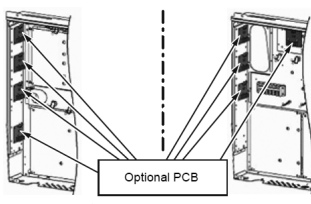
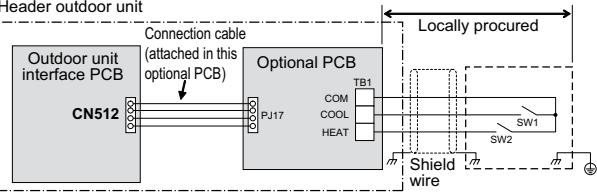
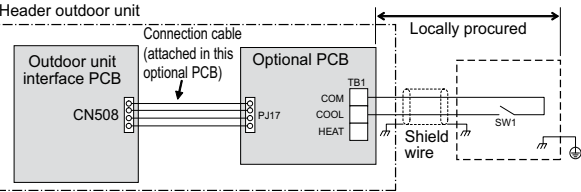
<SW07 (bit 2) OFF [2-stage switching]>
Power peak-cut control turns ON when SW1 in the wiring example is ON (continuous make).

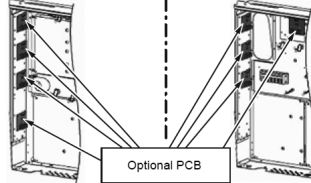
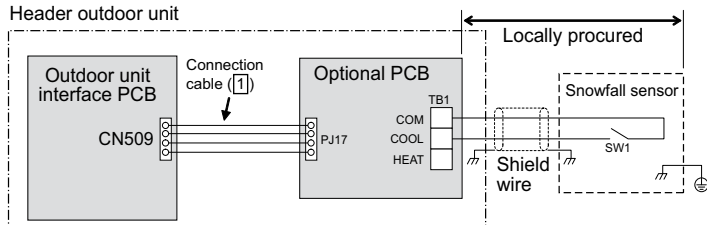
Jumper lead J16	Input SW1	SW07 (bit 1)		Display relay (L1)
		Bit 1 OFF	Bit 1 ON	
Cut	OFF	100% (normal operation)	100% (normal operation)	OFF
	ON	0% (forced stop)	Approx. 60% (upper limit regulated)	ON

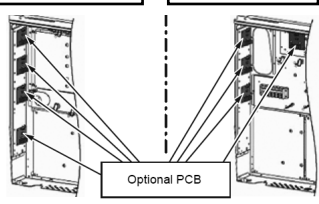
Enhanced Specifications (Wiring example)
Header outdoor unit L1: Display lamp during power peak cut control  For SW1 and SW2, be sure to provide no-voltage contacts for each terminal.

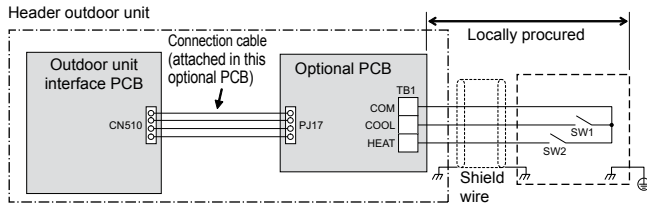
<SW07 (bit 2) ON [4-stage switching]>

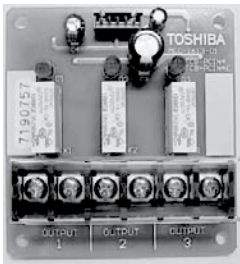
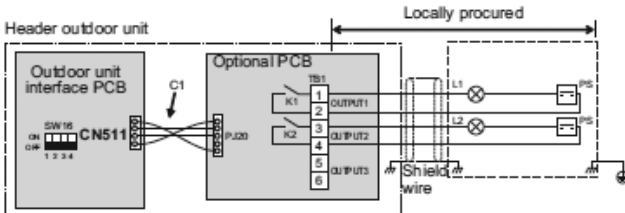
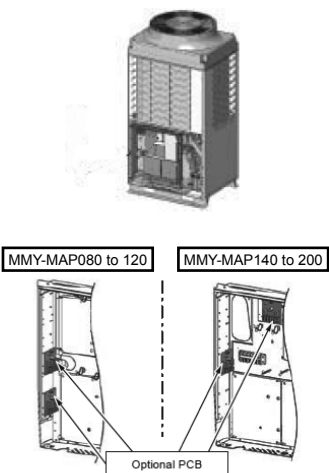
Input		SW07 (bit 1)		Display relay (L1)
SW1	SW2	Bit 1 OFF	Bit 1 ON	
OFF	OFF	100% (normal operation)	100% (normal operation)	OFF
ON	OFF	Approx. 80% (upper limit regulated)	Approx. 85% (upper limit regulated)	ON
OFF	ON	Approx. 60% (upper limit regulated)	Approx. 75% (upper limit regulated)	ON
ON	ON	0%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

Model name	Appearance	Function																
TCB-PCMO4E	 Size: 55.5 x 60 (mm)	[2] External master ON/OFF control • Feature The outdoor unit starts or stop the system. • 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).																
	Application  MMY-MAP080 to 120 MMY-MAP140 to 200  (max. number installed: 4 pcs) * Install the optional PCB in the outdoor header unit.	Header outdoor unit  SW1: Operation input switch SW2: Stop input switch <table border="1"> <thead> <tr> <th>Terminal</th><th>Input signal</th><th>Operation</th></tr> </thead> <tbody> <tr> <td>COOL (SW1)</td><td>ON OFF</td><td>All indoor units operate together</td></tr> <tr> <td>HEAT (SW2)</td><td>ON OFF</td><td>All indoor units stop together</td></tr> </tbody> </table> 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 [3] Night time operation (sound reduction) control • Purpose: Reducing noise from an outdoor unit • Feature Sound level can be reduced by restricting the compressor and fan speed • 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). Header outdoor unit  SW1: Night time signal switch <table border="1"> <thead> <tr> <th>Terminal</th><th>Input signal</th><th>Operation</th></tr> </thead> <tbody> <tr> <td rowspan="2">COOL (SW1)</td><td>ON OFF</td><td>All indoor units operate together</td></tr> <tr> <td>ON OFF</td><td>All indoor units stop together</td></tr> </tbody> </table> Each terminal should be connected to dry contact. The input signal is recognized during its rising/falling phase. (After reaching the top/bottom of the rising/falling edge, the signal must remain there for at least 100 ms.)	Terminal	Input signal	Operation	COOL (SW1)	ON OFF	All indoor units operate together	HEAT (SW2)	ON OFF	All indoor units stop together	Terminal	Input signal	Operation	COOL (SW1)	ON OFF	All indoor units operate together	ON OFF
Terminal	Input signal	Operation																
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	ON OFF	All indoor units stop together																

Model name	Appearance	Function																																		
TCB-PCMO4E	 Size: 55.5 x 60 (mm)	Sound reduction and approximation capacity (reference) <table><thead><tr><th rowspan="2"></th><th rowspan="2">Night operation sound reduction dB (A)</th><th colspan="2">Capacity</th></tr><tr><th>COOL</th><th>HEAT</th></tr></thead><tbody><tr><td>2006 type</td><td>54</td><td>Approx. 60%</td><td>Approx. 60%</td></tr><tr><td>1806 type</td><td>54</td><td>Approx. 65%</td><td>Approx. 65%</td></tr><tr><td>1606 type</td><td>53</td><td>Approx. 70%</td><td>Approx. 70%</td></tr><tr><td>1406 type</td><td>53</td><td>Approx. 80%</td><td>Approx. 80%</td></tr><tr><td>1206 type</td><td>50</td><td>Approx. 60%</td><td>Approx. 55%</td></tr><tr><td>1006 type</td><td>50</td><td>Approx. 70%</td><td>Approx. 65%</td></tr><tr><td>0806 type</td><td>50</td><td>Approx. 85%</td><td>Approx. 80%</td></tr></tbody></table>		Night operation sound reduction dB (A)	Capacity		COOL	HEAT	2006 type	54	Approx. 60%	Approx. 60%	1806 type	54	Approx. 65%	Approx. 65%	1606 type	53	Approx. 70%	Approx. 70%	1406 type	53	Approx. 80%	Approx. 80%	1206 type	50	Approx. 60%	Approx. 55%	1006 type	50	Approx. 70%	Approx. 65%	0806 type	50	Approx. 85%	Approx. 80%
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Application	 MMY-MAP080 to 120MMY-MAP140 to 200  (max. number installed: 4 pcs) * Install the optional PCB in the outdoor header unit.	Condition Cooling: (Indoor 27 deg DB, 19 deg WB) (Outdoor temperature 25 deg DB) Heating: (Indoor 20 deg DB) (Outdoor temperature 7 deg DB, 6 deg WB) [4] Snowfall fan control • Purpose: Rotating the fan to prevent snow accumulation • Feature Outdoor fan is operated from the snowfall signal received from the outside. ▼ Functions The outdoor unit fan operates at snowfall by connecting to the outdoor unit interface PCB. ▼ Operation  SW1: Snowfall selection switch (snowfall sensor) <table><thead><tr><th>Terminal</th><th>Input signal</th><th>Operation</th></tr></thead><tbody><tr><td rowspan="2">Cooling (SW1)</td><td>ON OFF</td><td>Snowfall fan control (Fan in outdoor unit operates.)</td></tr><tr><td>ON OFF</td><td>Normal operation</td></tr></tbody></table> Be sure to provide no-voltage continuous contacts for each terminal.	Terminal	Input signal	Operation	Cooling (SW1)	ON OFF	Snowfall fan control (Fan in outdoor unit operates.)	ON OFF	Normal operation																										
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Model name	Appearance
TCB-PCIN4E	 Size: 55.5 x 60 (mm)
	Application
	 MMY-MAP080 to 120 MMY-MAP140 to 200  (max. number installed: 4 pcs) * Install the optional PCB in the outdoor header unit.

Function																																																								
[5] Operation mode selection control • Purpose: Limiting operation modes to cooling and heating only • Feature This control can restrict the selectable operation mode. ▼ Functions 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). Header outdoor unit  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. About 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 colspan="3">Details of Processing</th> </tr> <tr> <td rowspan="5">J01 connected (factory default)</td> <td colspan="3">Unallowed indoor units in a mode other than the selected operation mode are not treated as priority (thermo OFF state). (Unallowed indoor units)</td> </tr> <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> <tr> <td rowspan="5">J01 cut</td> <td colspan="3">Indoor units in a mode other than the selected operation mode are forcibly switched to the selected operation mode.</td> </tr> <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> The jumper lead is not switched. 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>	Input Signal		Operation: Selected operation mode	Cooling (SW1)	Heating (SW2)	ON	OFF	Cooling operation only	OFF	ON	Heating operation only	OFF	OFF	Normal operation	Jumper lead	Details of Processing			J01 connected (factory default)	Unallowed indoor units in a mode other than the selected operation mode are not treated as priority (thermo OFF state). (Unallowed indoor units)			Operation Mode	Operation State	Remote control	Cooling unit	Air blow operation at blow rate set on remote control	indicator is displayed.	Heating unit	Air blow operation at super-slow blow rate	Air blow unit	Regular air blow operation at blow rate set on remote control	J01 cut	Indoor units in a mode other than the selected operation mode are forcibly switched to the selected operation mode.			PC board selection mode	Remote control operation/display		Normal	❄️, 🔥, 🌬️, or 🌀 can be selected	When using the remote control, (mode select control) indicator is displayed.	Cool	Only ❄️, 🔥, or 🌬️ can be selected	Heat	Only 🔥 or 🌬️ can be selected	PC board selection mode	Remote control operation/display		Normal	❄️, 🔥, 🌬️, or 🌀 can be selected	When using the remote control, (mode select control) indicator is displayed.	Cool	Only ❄️, 🔥, or 🌬️ can be selected	Heat	Only 🔥 or 🌬️ can be selected
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Model name	Appearance	Function																				
TCB-PCIN4E	 Size: 73 x 79 (mm)	[6] Error / Operation Output • Feature Operation and error monitoring is possible. ▼ 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 																				
	Application  (max. number installed: 2 pcs) * Install the optional PCB in the outdoor header unit.	<table><tr><td>C1</td><td>Attached connection cable 1 (4wires)</td></tr><tr><td>CN511</td><td>Connector on interface side (green)</td></tr><tr><td>K1, K2</td><td>Relays</td></tr><tr><td>L1</td><td>Error indication Lamp</td></tr><tr><td>L2</td><td>Operation indication Lamp</td></tr><tr><td>OUTPUT1</td><td>Error output</td></tr><tr><td>OUTPUT2</td><td>Operation output</td></tr><tr><td>PJ20</td><td>Connector on optional PCB side</td></tr><tr><td>PS</td><td>Power supply unit</td></tr><tr><td>TB1</td><td>Terminal block</td></tr></table> * [OUTPUT3] is normally output when power is turned out.	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
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PS	Power supply unit																					
TB1	Terminal block																					

5.10 Part load performance

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

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	11.7	11.7	5.62	10.5	4.66	9.4	3.81	8.2	3.07	7.0	2.43	-	-	-	-	-	-
48 °C	19.6	19.6	6.47	17.6	5.37	15.7	4.39	13.7	3.53	11.8	2.80	9.8	2.18	7.84	1.69	-	-
46 °C	20.3	20.3	6.54	18.3	5.43	16.2	4.44	14.2	3.57	12.2	2.83	10.2	2.21	8.12	1.71	6.09	1.33
44 °C	20.7	20.7	6.21	18.6	5.16	16.6	4.22	14.5	3.39	12.4	2.69	10.3	2.10	8.28	1.62	6.21	1.27
42 °C	21.1	21.1	5.89	19.0	4.89	16.8	4.00	14.7	3.22	12.6	2.55	10.5	1.99	8.42	1.54	6.32	1.20
40 °C	21.4	21.4	5.58	19.3	4.63	17.1	3.79	15.0	3.05	12.9	2.42	10.7	1.89	8.57	1.46	6.43	1.14
39 °C	21.6	21.6	5.43	19.5	4.51	17.3	3.69	15.1	2.97	13.0	2.35	10.8	1.83	8.65	1.42	6.49	1.11
37 °C	22.0	22.0	5.13	19.8	4.26	17.6	3.48	15.4	2.80	13.2	2.22	11.0	1.73	8.80	1.34	6.60	1.05
35 °C	22.4	22.4	4.84	20.1	4.04	17.9	3.33	15.7	2.70	13.4	2.15	11.2	1.69	8.95	1.32	6.71	1.03
32 °C	22.4	22.4	4.55	20.2	3.81	17.9	3.14	15.7	2.55	13.4	2.04	11.2	1.61	8.96	1.25	6.72	0.98
31 °C	22.4	22.4	4.28	20.2	3.58	17.9	2.95	15.7	2.40	13.4	1.92	11.2	1.52	8.96	1.19	6.72	0.94
30 °C	22.4	22.4	4.14	20.2	3.46	17.9	2.86	15.7	2.33	13.4	1.87	11.2	1.48	8.96	1.16	6.72	0.91
29 °C	22.4	22.4	4.01	20.2	3.36	17.9	2.77	15.7	2.26	13.4	1.81	11.2	1.44	8.96	1.13	6.72	0.89
27 °C	22.4	22.4	3.75	20.2	3.14	17.9	2.60	15.7	2.12	13.4	1.71	11.2	1.36	8.96	1.07	6.72	0.85
25 °C	22.4	22.4	3.51	20.2	2.94	17.9	2.44	15.7	1.99	13.4	1.60	11.2	1.28	8.96	1.01	6.72	0.81
23 °C	22.4	22.4	3.35	20.2	2.45	17.9	2.04	15.7	1.94	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
21 °C	22.4	22.4	3.28	20.2	2.45	17.9	2.04	15.7	1.95	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
20 °C	22.4	22.4	3.24	20.2	2.45	17.9	2.04	15.7	1.95	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
19 °C	22.4	22.4	3.21	20.2	2.45	17.9	2.04	15.7	1.95	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
17 °C	22.4	22.4	3.15	20.2	2.45	17.9	2.04	15.7	1.96	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
15 °C	22.4	22.4	3.10	20.2	2.45	17.9	2.04	15.7	1.97	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	10.6	10.6	5.42	9.5	4.50	8.44	3.68	7.39	2.96	6.33	2.35	-	-	-	-	-	-
48 °C	17.7	17.7	6.24	15.9	5.18	14.1	4.24	12.4	3.41	10.6	2.70	8.8	2.11	7.07	1.63	-	-
46 °C	18.3	18.3	6.31	16.5	5.24	14.6	4.28	12.8	3.45	11.0	2.73	9.2	2.13	7.32	1.65	5.49	1.29
44 °C	18.7	18.7	6.00	16.8	4.98	14.9	4.07	13.1	3.28	11.2	2.59	9.3	2.02	7.46	1.57	5.60	1.22
42 °C	19.0	19.0	5.69	17.1	4.72	15.2	3.86	13.3	3.11	11.4	2.46	9.5	1.92	7.60	1.49	5.70	1.16
40 °C	19.3	19.3	5.39	17.4	4.47	15.5	3.66	13.5	2.95	11.6	2.33	9.7	1.82	7.73	1.41	5.80	1.10
39 °C	19.5	19.5	5.24	17.6	4.35	15.6	3.56	13.7	2.87	11.7	2.27	9.8	1.77	7.80	1.37	5.85	1.07
37 °C	19.8	19.8	4.95	17.9	4.11	15.9	3.36	13.9	2.71	11.9	2.14	9.9	1.67	7.94	1.29	5.95	1.01
35 °C	20.2	20.2	4.67	18.2	3.90	16.1	3.21	14.1	2.60	12.1	2.08	10.1	1.63	8.07	1.27	6.05	0.99
32 °C	20.5	20.5	4.52	18.5	3.77	16.4	3.10	14.4	2.52	12.3	2.01	10.3	1.58	8.21	1.23	6.15	0.96
31 °C	20.9	20.9	4.36	18.8	3.64	16.7	3.00	14.6	2.43	12.5	1.94	10.4	1.52	8.34	1.19	6.26	0.92
30 °C	21.0	21.0	4.28	18.9	3.57	16.8	2.94	14.7	2.39	12.6	1.90	10.5	1.50	8.41	1.16	6.31	0.91
29 °C	21.2	21.2	4.20	19.1	3.51	17.0	2.89	14.8	2.34	12.7	1.87	10.6	1.47	8.48	1.14	6.36	0.89
27 °C	21.5	21.5	4.04	19.4	3.38	17.2	2.78	15.1	2.25	12.9	1.80	10.8	1.41	8.61	1.10	6.46	0.86
25 °C	21.9	21.9	3.88	19.7	3.24	17.5	2.67	15.3	2.16	13.1	1.73	10.9	1.36	8.75	1.06	6.56	0.82
23 °C	22.2	22.2	3.80	20.0	2.74	17.7	2.27	15.5	2.10	13.3	1.71	11.1	1.34	8.87	1.03	6.65	0.80
21 °C	22.4	22.4	3.78	20.2	2.79	17.9	2.31	15.7	2.14	13.4	1.73	11.2	1.36	8.96	1.04	6.72	0.81
20 °C	22.4	22.4	3.73	20.2	2.79	17.9	2.31	15.7	2.14	13.4	1.73	11.2	1.36	8.96	1.04	6.72	0.81
19 °C	22.4	22.4	3.70	20.2	2.79	17.9	2.31	15.7	2.14	13.4	1.73	11.2	1.36	8.96	1.04	6.72	0.81
17 °C	22.4	22.4	3.63	20.2	2.79	17.9	2.31	15.7	2.15	13.4	1.73	11.2	1.36	8.96	1.04	6.72	0.81
15 °C	22.4	22.4	3.57	20.2	2.79	17.9	2.31	15.7	2.16	13.4	1.73	11.2	1.36	8.96	1.04	6.72	0.81

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	4.51	22.5	3.81	20.0	3.17	17.5	2.62	15.0	2.14	12.5	1.73	10.0	1.40	7.50	1.15
13.0	11.8	25.0	25.0	4.70	22.5	3.96	20.0	3.29	17.5	2.71	15.0	2.20	12.5	1.78	10.0	1.43	7.50	1.16
11.0	9.8	25.0	25.0	4.92	22.5	4.13	20.0	3.43	17.5	2.81	15.0	2.28	12.5	1.83	10.0	1.46	7.50	1.18
9.0	7.9	25.0	25.0	5.14	22.5	4.31	20.0	3.57	17.5	2.92	15.0	2.36	12.5	1.88	10.0	1.49	7.50	1.20
7.0	6.0	25.0	25.0	5.38	22.5	4.51	20.0	3.72	17.5	3.04	15.0	2.44	12.5	1.94	10.0	1.53	7.50	1.21
5.0	4.1	24.3	24.3	5.36	21.8	4.49	19.4	3.71	17.0	3.03	14.6	2.43	12.1	1.93	9.7	1.53	7.28	1.21
3.0	2.2	23.5	23.5	5.35	21.2	4.48	18.8	3.70	16.5	3.02	14.1	2.43	11.8	1.93	9.4	1.52	7.06	1.21
0.0	-0.7	22.4	22.4	5.32	20.2	4.46	17.9	3.68	15.7	3.00	13.5	2.42	11.2	1.92	9.0	1.51	6.73	1.20
-3.0	-3.7	21.3	21.3	5.30	19.1	4.44	17.0	3.67	14.9	2.99	12.8	2.40	10.6	1.91	8.5	1.51	6.38	1.20
-5.0	-5.6	20.5	20.5	5.28	18.5	4.42	16.4	3.66	14.4	2.98	12.3	2.40	10.3	1.90	8.2	1.50	6.16	1.19
-7.0	-7.6	19.8	19.8	5.26	17.8	4.41	15.8	3.64	13.8	2.97	11.9	2.39	9.9	1.90	7.9	1.50	5.93	1.19
-10	-10.5	18.7	18.7	5.24	16.8	4.39	14.9	3.63	13.1	2.96	11.2	2.38	9.3	1.89	7.5	1.49	5.60	1.18
-14.5	-15.0	16.9	16.9	5.20	15.2	4.35	13.5	3.60	11.8	2.93	10.2	2.36	8.5	1.87	6.8	1.48	5.08	1.17

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

MMY-MAP1006HT8P-ME (10HP, 28.0kW system)

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	13.2	13.2	5.07	11.9	4.16	10.6	3.36	9.2	2.66	7.9	2.06	6.6	1.57	-	-	-	-
48 °C	20.2	20.2	6.27	18.2	5.14	16.2	4.15	14.1	3.29	12.1	2.55	10.1	1.94	8.08	1.47	-	-
46 °C	25.2	25.2	8.74	22.7	7.18	20.2	5.79	17.6	4.58	15.1	3.56	12.6	2.71	10.08	2.05	7.56	1.56
44 °C	25.7	25.7	8.27	23.2	6.79	20.6	5.48	18.0	4.33	15.4	3.36	12.9	2.57	10.29	1.94	7.72	1.48
42 °C	26.3	26.3	7.81	23.6	6.44	21.0	5.22	18.4	4.16	15.8	3.25	13.1	2.49	10.50	1.89	7.88	1.44
40 °C	26.8	26.8	7.35	24.1	6.08	21.4	4.95	18.7	3.96	16.1	3.11	13.4	2.39	10.71	1.82	8.03	1.39
39 °C	27.0	27.0	7.13	24.3	5.90	21.6	4.80	18.9	3.84	16.2	3.01	13.5	2.32	10.81	1.77	8.11	1.35
37 °C	27.5	27.5	6.70	24.8	5.56	22.0	4.55	19.3	3.66	16.5	2.89	13.8	2.23	11.01	1.71	8.25	1.30
35 °C	28.0	28.0	6.28	25.2	5.21	22.4	4.26	19.6	3.43	16.8	2.70	14.0	2.09	11.20	1.60	8.40	1.22
32 °C	28.0	28.0	5.71	25.2	4.75	22.4	3.89	19.6	3.13	16.8	2.48	14.0	1.93	11.20	1.48	8.40	1.14
31 °C	28.0	28.0	5.53	25.2	4.60	22.4	3.77	19.6	3.04	16.8	2.41	14.0	1.87	11.20	1.44	8.40	1.11
30 °C	28.0	28.0	5.36	25.2	4.46	22.4	3.66	19.6	2.95	16.8	2.34	14.0	1.82	11.20	1.40	8.40	1.08
29 °C	28.0	28.0	5.19	25.2	4.32	22.4	3.55	19.6	2.86	16.8	2.27	14.0	1.77	11.20	1.37	8.40	1.06
27 °C	28.0	28.0	4.87	25.2	4.06	22.4	3.33	19.6	2.69	16.8	2.14	14.0	1.67	11.20	1.30	8.40	1.01
25 °C	28.0	28.0	4.57	25.2	3.81	22.4	3.13	19.6	2.53	16.8	2.01	14.0	1.58	11.20	1.23	8.40	0.96
23 °C	28.0	28.0	4.37	25.2	3.65	22.4	3.00	19.6	2.43	16.8	1.94	14.0	1.52	11.20	1.19	8.40	0.93
21 °C	28.0	28.0	4.28	25.2	3.57	22.4	2.94	19.6	2.39	16.8	1.91	14.0	1.50	11.20	1.17	8.40	0.92
20 °C	28.0	28.0	4.24	25.2	3.54	22.4	2.92	19.6	2.37	16.8	1.89	14.0	1.49	11.20	1.17	8.40	0.92
19 °C	28.0	28.0	4.20	25.2	3.51	22.4	2.89	19.6	2.35	16.8	1.88	14.0	1.48	11.20	1.16	8.40	0.91
17 °C	28.0	28.0	4.12	25.2	3.45	22.4	2.84	19.6	2.31	16.8	1.85	14.0	1.46	11.20	1.15	8.40	0.91
15 °C	28.0	28.0	4.06	25.2	3.39	22.4	2.80	19.6	2.28	16.8	1.82	14.0	1.44	11.20	1.14	8.40	0.90

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	11.9	11.9	4.89	10.7	4.02	9.52	3.24	8.33	2.56	7.14	1.99	5.95	1.52	-	-	-	-
48 °C	18.2	18.2	6.05	16.4	4.97	14.6	4.01	12.8	3.17	10.9	2.46	9.1	1.88	7.29	1.42	-	-
46 °C	22.7	22.7	8.44	20.5	6.93	18.2	5.59	15.9	4.43	13.6	3.44	11.4	2.62	9.09	1.98	6.82	1.51
44 °C	23.2	23.2	7.98	20.9	6.55	18.6	5.29	16.2	4.18	13.9	3.25	11.6	2.48	9.28	1.87	6.96	1.43
42 °C	23.7	23.7	7.54	21.3	6.22	18.9	5.04	16.6	4.02	14.2	3.14	11.8	2.41	9.47	1.83	7.10	1.39
40 °C	24.1	24.1	7.10	21.7	5.87	19.3	4.78	16.9	3.82	14.5	3.00	12.1	2.31	9.66	1.76	7.24	1.34
39 °C	24.4	24.4	6.89	21.9	5.70	19.5	4.64	17.1	3.71	14.6	2.91	12.2	2.24	9.75	1.71	7.31	1.30
37 °C	24.8	24.8	6.47	22.3	5.37	19.9	4.39	17.4	3.53	14.9	2.79	12.4	2.16	9.93	1.65	7.44	1.26
35 °C	25.3	25.3	6.06	22.7	5.03	20.2	4.12	17.7	3.31	15.2	2.61	12.6	2.02	10.10	1.54	7.58	1.18
32 °C	25.9	25.9	5.76	23.3	4.78	20.7	3.91	18.1	3.14	15.5	2.48	12.9	1.92	10.35	1.47	7.76	1.12
31 °C	26.1	26.1	5.66	23.5	4.70	20.9	3.84	18.3	3.09	15.6	2.44	13.0	1.89	10.43	1.44	7.82	1.10
30 °C	26.3	26.3	5.55	23.7	4.61	21.0	3.77	18.4	3.03	15.8	2.39	13.1	1.85	10.51	1.41	7.88	1.08
29 °C	26.5	26.5	5.45	23.8	4.53	21.2	3.70	18.5	2.98	15.9	2.35	13.2	1.82	10.59	1.39	7.94	1.06
27 °C	26.9	26.9	5.24	24.2	4.36	21.5	3.56	18.8	2.86	16.1	2.26	13.4	1.75	10.74	1.34	8.06	1.02
25 °C	27.2	27.2	5.03	24.5	4.18	21.8	3.42	19.1	2.75	16.3	2.17	13.6	1.68	10.89	1.28	8.17	0.98
23 °C	27.6	27.6	4.93	24.8	4.09	22.1	3.35	19.3	2.69	16.5	2.12	13.8	1.64	11.03	1.26	8.27	0.96
21 °C	27.9	27.9	4.93	25.1	4.09	22.3	3.35	19.5	2.69	16.7	2.12	14.0	1.64	11.16	1.26	8.37	0.96
20 °C	28.0	28.0	4.91	25.2	4.08	22.4	3.34	19.6	2.68	16.8	2.12	14.0	1.64	11.20	1.25	8.40	0.96
19 °C	28.0	28.0	4.86	25.2	4.04	22.4	3.31	19.6	2.66	16.8	2.10	14.0	1.63	11.20	1.24	8.40	0.95
17 °C	28.0	28.0	4.77	25.2	3.97	22.4	3.25	19.6	2.62	16.8	2.07	14.0	1.61	11.20	1.23	8.40	0.94
15 °C	28.0	28.0	4.69	25.2	3.90	22.4	3.20	19.6	2.58	16.8	2.04	14.0	1.59	11.20	1.22	8.40	0.94

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	6.00	28.4	5.10	25.2	4.28	22.1	3.55	18.9	2.91	15.8	2.34	12.6	1.86	9.45	1.46
13.0	11.8	31.5	31.5	6.23	28.4	5.29	25.2	4.44	22.1	3.67	18.9	3.00	15.8	2.41	12.6	1.90	9.45	1.49
11.0	9.8	31.5	31.5	6.50	28.4	5.51	25.2	4.62	22.1	3.81	18.9	3.10	15.8	2.48	12.6	1.95	9.45	1.51
9.0	7.9	31.5	31.5	6.78	28.4	5.74	25.2	4.80	22.1	3.95	18.9	3.20	15.8	2.55	12.6	2.00	9.45	1.54
7.0	6.0	31.5	31.5	7.08	28.4	5.98	25.2	4.99	22.1	4.10	18.9	3.32	15.8	2.63	12.6	2.05	9.45	1.57
5.0	4.1	30.5	30.5	7.04	27.4	5.95	24.4	4.96	21.3	4.08	18.3	3.30	15.2	2.62	12.2	2.04	9.15	1.57
3.0	2.2	29.5	29.5	7.00	26.5	5.92	23.6	4.94	20.6	4.06	17.7	3.28	14.7	2.60	11.8	2.03	8.84	1.56
0.0	-0.7	27.9	27.9	6.94	25.1	5.86	22.3	4.89	19.5	4.02	16.8	3.25	14.0	2.58	11.2	2.01	8.38	1.54
-3.0	-3.7	26.3	26.3	6.87	23.7	5.81	21.1	4.85	18.4	3.98	15.8	3.22	13.2	2.56	10.5	1.99	7.90	1.53
-5.0	-5.6	25.3	25.3	6.83	22.8	5.78	20.3	4.82	17.7	3.96	15.2	3.20	12.7	2.54	10.1	1.98	7.59	1.52
-7.0	-7.6	24.2	24.2	6.79	21.8	5.74	19.4	4.79	17.0	3.94	14.5	3.18	12.1	2.53	9.7	1.97	7.27	1.51
-10	-10.5	22.7	22.7	6.73	20.4	5.69	18.2	4.74	15.9	3.90	13.6	3.15	11.4	2.50	9.1	1.95	6.81	1.50
-14.5	-15.0	20.3	20.3	6.63	18.3	5.61	16.2	4.68	14.2	3.84	12.2	3.11	10.2	2.47	8.1	1.92	6.09	1.48

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

MMY-MAP1206HT8P-ME (12HP, 33.5kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	14.0	14.0	6.11	12.6	5.04	11.2	4.09	9.8	3.24	8.4	2.49	7.0	1.86	-	-	-	-
48 °C	20.8	20.8	6.12	18.7	5.05	16.6	4.10	14.6	3.25	12.5	2.51	10.4	1.87	8.32	1.34	-	-
46 °C	26.8	26.8	8.98	24.1	7.41	21.4	6.01	18.8	4.76	16.1	3.66	13.4	2.73	10.72	1.95	8.04	1.33
44 °C	28.3	28.3	8.86	25.4	7.35	22.6	5.98	19.8	4.76	17.0	3.69	14.1	2.76	11.31	1.99	8.48	1.35
42 °C	29.6	29.6	8.74	26.7	7.27	23.7	5.94	20.7	4.75	17.8	3.69	14.8	2.78	11.85	2.00	8.89	1.36
40 °C	30.9	30.9	8.61	27.8	7.19	24.7	5.90	21.6	4.73	18.5	3.70	15.4	2.79	12.35	2.02	9.26	1.38
39 °C	31.4	31.4	8.54	28.3	7.13	25.2	5.85	22.0	4.70	18.9	3.67	15.7	2.77	12.58	2.00	9.43	1.37
37 °C	32.5	32.5	8.39	29.3	7.01	26.0	5.75	22.8	4.61	19.5	3.61	16.3	2.72	13.01	1.97	9.76	1.34
35 °C	33.5	33.5	8.24	30.1	6.88	26.8	5.64	23.4	4.53	20.1	3.54	16.7	2.67	13.40	1.93	10.05	1.32
32 °C	33.5	33.5	7.62	30.2	6.37	26.8	5.23	23.5	4.20	20.1	3.29	16.8	2.49	13.40	1.80	10.05	1.23
31 °C	33.5	33.5	7.08	30.2	5.92	26.8	4.86	23.5	3.91	20.1	3.06	16.8	2.32	13.40	1.69	10.05	1.16
30 °C	33.5	33.5	6.83	30.2	5.71	26.8	4.69	23.5	3.78	20.1	2.96	16.8	2.25	13.40	1.63	10.05	1.12
29 °C	33.5	33.5	6.59	30.2	5.52	26.8	4.53	23.5	3.65	20.1	2.86	16.8	2.17	13.40	1.58	10.05	1.09
27 °C	33.5	33.5	6.16	30.2	5.16	26.8	4.24	23.5	3.42	20.1	2.68	16.8	2.04	13.40	1.49	10.05	1.03
25 °C	33.5	33.5	5.76	30.2	4.83	26.8	3.97	23.5	3.20	20.1	2.52	16.8	1.92	13.40	1.40	10.05	0.97
23 °C	33.5	33.5	5.52	30.2	4.63	26.8	3.81	23.5	3.07	20.1	2.42	16.8	1.84	13.40	1.35	10.05	0.93
21 °C	33.5	33.5	5.42	30.2	4.54	26.8	3.74	23.5	3.02	20.1	2.38	16.8	1.81	13.40	1.33	10.05	0.92
20 °C	33.5	33.5	5.37	30.2	4.50	26.8	3.71	23.5	3.00	20.1	2.36	16.8	1.80	13.40	1.32	10.05	0.91
19 °C	33.5	33.5	5.33	30.2	4.47	26.8	3.68	23.5	2.97	20.1	2.34	16.8	1.79	13.40	1.31	10.05	0.91
17 °C	33.5	33.5	5.26	30.2	4.41	26.8	3.64	23.5	2.94	20.1	2.31	16.8	1.77	13.40	1.30	10.05	0.97
15 °C	33.5	33.5	5.20	30.2	4.36	26.8	3.60	23.5	2.91	20.1	2.29	16.8	1.75	13.40	1.28	10.05	0.97

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	12.6	12.6	5.90	11.4	5.88	10.1	4.74	8.84	3.74	7.58	2.86	6.31	2.11	-	-	-	-
48 °C	18.8	18.8	5.91	16.9	5.88	15.0	4.76	13.1	3.76	11.3	2.88	9.4	2.13	7.50	1.50	-	-
46 °C	24.2	24.2	8.67	21.8	8.63	19.3	6.97	16.9	5.50	14.5	4.21	12.1	3.11	9.67	2.19	7.25	1.46
44 °C	25.5	25.5	8.56	23.0	8.52	20.4	6.92	17.9	5.48	15.3	4.22	12.8	3.14	10.20	2.23	7.65	1.49
42 °C	26.7	26.7	8.44	24.1	8.41	21.4	6.85	18.7	5.45	16.0	4.21	13.4	3.14	10.69	2.24	8.02	1.50
40 °C	27.8	27.8	8.31	25.1	8.28	22.3	6.77	19.5	5.41	16.7	4.21	13.9	3.16	11.14	2.26	8.35	1.52
39 °C	28.4	28.4	8.24	25.5	8.21	22.7	6.72	19.9	5.37	17.0	4.17	14.2	3.13	11.35	2.24	8.51	1.51
37 °C	29.3	29.3	8.10	26.4	8.07	23.5	6.60	20.5	5.28	17.6	4.10	14.7	3.08	11.73	2.20	8.80	1.48
35 °C	30.2	30.2	7.95	27.2	7.92	24.2	6.48	21.1	5.18	18.1	4.03	15.1	3.02	12.09	2.16	9.06	1.45
32 °C	31.0	31.0	7.69	27.9	7.66	24.8	6.27	21.7	5.01	18.6	3.89	15.5	2.92	12.40	2.09	9.30	1.40
31 °C	31.7	31.7	7.42	28.5	7.40	25.4	6.05	22.2	4.84	19.0	3.76	15.9	2.82	12.69	2.02	9.51	1.36
30 °C	32.0	32.0	7.29	28.8	7.26	25.6	5.94	22.4	4.75	19.2	3.69	16.0	2.77	12.82	1.98	9.61	1.33
29 °C	32.3	32.3	7.16	29.1	7.13	25.9	5.83	22.6	4.66	19.4	3.62	16.2	2.72	12.94	1.95	9.70	1.31
27 °C	32.9	32.9	6.88	29.6	6.86	26.3	5.61	23.0	4.48	19.7	3.49	16.5	2.62	13.16	1.87	9.87	1.26
25 °C	33.4	33.4	6.61	30.1	6.58	26.7	5.38	23.4	4.30	20.0	3.35	16.7	2.51	13.36	1.80	10.02	1.21
23 °C	33.5	33.5	6.36	30.2	6.34	26.8	5.18	23.5	4.15	20.1	3.22	16.8	2.42	13.40	1.73	10.05	1.17
21 °C	33.5	33.5	6.24	30.2	6.22	26.8	5.09	23.5	4.07	20.1	3.17	16.8	2.38	13.40	1.71	10.05	1.15
20 °C	33.5	33.5	6.19	30.2	6.16	26.8	5.04	23.5	4.04	20.1	3.14	16.8	2.36	13.40	1.69	10.05	1.14
19 °C	33.5	33.5	6.14	30.2	6.12	26.8	5.01	23.5	4.01	20.1	3.12	16.8	2.35	13.40	1.68	10.05	1.14
17 °C	33.5	33.5	6.06	30.2	6.03	26.8	4.94	23.5	3.95	20.1	3.08	16.8	2.32	13.40	1.66	10.05	0.97
15 °C	33.5	33.5	5.99	30.2	5.96	26.8	4.88	23.5	3.91	20.1	3.05	16.8	2.29	13.40	1.65	10.05	0.97

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	7.88	33.8	6.73	30.0	5.67	26.3	4.71	22.5	3.83	18.8	3.05	15.0	2.35	11.3	1.75
13.0	11.8	37.5	37.5	8.18	33.8	6.98	30.0	5.88	26.3	4.87	22.5	3.96	18.8	3.14	15.0	2.41	11.3	1.79
11.0	9.8	37.5	37.5	8.51	33.8	7.26	30.0	6.10	26.3	5.05	22.5	4.09	18.8	3.24	15.0	2.49	11.3	1.83
9.0	7.9	37.5	37.5	8.86	33.8	7.55	30.0	6.34	26.3	5.23	22.5	4.24	18.8	3.35	15.0	2.56	11.3	1.88
7.0	6.0	37.5	37.5	9.24	33.8	7.86	30.0	6.59	26.3	5.44	22.5	4.39	18.8	3.46	15.0	2.64	11.3	1.93
5.0	4.1	36.2	36.2	9.17	32.5	7.80	28.9	6.54	25.3	5.39	21.7	4.36	18.1	3.43	14.5	2.62	10.8	1.91
3.0	2.2	34.8	34.8	9.10	31.3	7.74	27.9	6.49	24.4	5.35	20.9	4.32	17.4	3.41	13.9	2.60	10.4	1.90
0.0	-0.7	32.8	32.8	8.99	29.5	7.65	26.2	6.41	22.9	5.29	19.7	4.27	16.4	3.37	13.1	2.57	9.8	1.88
-3.0	-3.7	30.6	30.6	8.88	27.6	7.55	24.5	6.34	21.5	5.22	18.4	4.22	15.3	3.32	12.3	2.54	9.2	1.85
-5.0	-5.6	29.3	29.3	8.81	26.4	7.49	23.4	6.29	20.5	5.18	17.6	4.19	14.7	3.30	11.7	2.52	8.8	1.84
-7.0	-7.6	27.9	27.9	8.74	25.1	7.43	22.3	6.23	19.5	5.14	16.7	4.15	13.9	3.27	11.2	2.49	8.4	1.82
-10	-10.5	25.8	25.8	8.63	23.3	7.34	20.7	6.16	18.1	5.08	15.5	4.10	12.9	3.23	10.3	2.46	7.8	1.80
-14.5	-15.0	22.7	22.7	8.46	20.4	7.20	18.1	6.04	15.9	4.98	13.6	4.02	11.3	3.17	9.1	2.42	6.8	1.77

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

MMY-MAP1406HT8P-ME (14HP, 40.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	15.8	15.8	6.81	14.2	5.62	12.6	4.56	11.1	3.61	9.5	2.79	7.9	2.08	-	-	-	-
48 °C	24.9	24.9	7.98	22.4	6.59	19.9	5.34	17.4	4.23	14.9	3.26	12.5	2.44	9.96	1.75	-	-
46 °C	32.5	32.5	11.6	29.3	9.58	26.0	7.76	22.8	6.15	19.5	4.74	16.3	3.54	13.0	2.54	9.8	1.75
44 °C	35.3	35.3	11.3	31.7	9.35	28.2	7.60	24.7	6.04	21.2	4.67	17.6	3.50	14.1	2.52	10.6	1.73
42 °C	36.4	36.4	11.0	32.8	9.12	29.2	7.43	25.5	5.93	21.9	4.60	18.2	3.46	14.6	2.49	10.9	1.71
40 °C	37.6	37.6	10.7	33.8	8.88	30.0	7.25	26.3	5.79	22.5	4.50	18.8	3.39	15.0	2.44	11.3	1.68
39 °C	38.1	38.1	10.5	34.3	8.75	30.5	7.14	26.7	5.70	22.8	4.43	19.0	3.34	15.2	2.41	11.4	1.65
37 °C	39.1	39.1	10.2	35.2	8.50	31.3	6.96	27.4	5.57	23.4	4.34	19.5	3.28	15.6	2.37	11.7	1.63
35 °C	40.0	40.0	9.86	36.0	8.28	32.0	6.80	28.0	5.48	24.0	4.29	20.0	3.26	16.0	2.37	12.0	1.62
33 °C	40.0	40.0	9.23	36.0	7.72	32.0	6.35	28.0	5.12	24.0	4.02	20.0	3.05	16.0	2.22	12.0	1.53
31 °C	40.0	40.0	8.62	36.0	7.22	32.0	5.94	28.0	4.79	24.0	3.76	20.0	2.86	16.0	2.09	12.0	1.44
30 °C	40.0	40.0	8.34	36.0	6.99	32.0	5.75	28.0	4.64	24.0	3.65	20.0	2.78	16.0	2.03	12.0	1.40
29 °C	40.0	40.0	8.07	36.0	6.76	32.0	5.57	28.0	4.49	24.0	3.53	20.0	2.69	16.0	1.97	12.0	1.36
27 °C	40.0	40.0	7.56	36.0	6.33	32.0	5.22	28.0	4.21	24.0	3.32	20.0	2.53	16.0	1.85	12.0	1.29
25 °C	40.0	40.0	7.08	36.0	5.94	32.0	4.90	28.0	3.96	24.0	3.12	20.0	2.38	16.0	1.75	12.0	1.21
23 °C	40.0	40.0	6.79	36.0	5.69	32.0	4.70	28.0	3.80	24.0	2.99	20.0	2.29	16.0	1.68	12.0	1.17
21 °C	40.0	40.0	6.66	36.0	5.59	32.0	4.61	28.0	3.73	24.0	2.94	20.0	2.25	16.0	1.65	12.0	1.16
20 °C	40.0	40.0	6.60	36.0	5.54	32.0	4.57	28.0	3.70	24.0	2.92	20.0	2.23	16.0	1.64	12.0	1.15
19 °C	40.0	40.0	6.54	36.0	5.49	32.0	4.53	28.0	3.67	24.0	2.90	20.0	2.22	16.0	1.63	12.0	1.14
17 °C	40.0	40.0	6.44	36.0	5.41	32.0	4.47	28.0	3.62	24.0	2.86	20.0	2.19	16.0	1.61	12.0	1.13
15 °C	40.0	40.0	6.36	36.0	5.34	32.0	4.41	28.0	3.57	24.0	2.82	20.0	2.16	16.0	1.59	12.0	1.12

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

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	14.3	14.3	6.57	12.8	6.55	11.4	5.29	10.0	4.17	8.55	3.20	7.13	2.36	-	-	-	-
48 °C	22.5	22.5	7.70	20.2	7.67	18.0	6.20	15.7	4.89	13.5	3.75	11.2	2.77	8.98	1.96	-	-
46 °C	29.3	29.3	11.2	26.4	11.2	23.5	9.01	20.5	7.10	17.6	5.44	14.7	4.03	11.7	2.85	8.79	1.91
44 °C	31.8	31.8	10.9	28.6	10.9	25.4	8.80	22.3	6.96	19.1	5.35	15.9	3.97	12.7	2.82	9.54	1.90
42 °C	32.9	32.9	10.6	29.6	10.6	26.3	8.58	23.0	6.81	19.7	5.26	16.4	3.92	13.1	2.79	9.86	1.88
40 °C	33.9	33.9	10.3	30.5	10.3	27.1	8.36	23.7	6.64	20.3	5.14	16.9	3.83	13.5	2.73	10.2	1.84
39 °C	34.3	34.3	10.2	30.9	10.1	27.5	8.23	24.0	6.55	20.6	5.06	17.2	3.78	13.7	2.69	10.3	1.82
37 °C	35.2	35.2	9.86	31.7	9.82	28.2	8.01	24.7	6.38	21.1	4.95	17.6	3.70	14.1	2.65	10.6	1.79
35 °C	36.1	36.1	9.52	32.5	9.52	28.9	7.80	25.3	6.25	21.6	4.87	18.0	3.67	14.4	2.64	10.8	1.79
33 °C	36.9	36.9	9.24	33.2	9.20	29.5	7.54	25.8	6.04	22.1	4.71	18.4	3.55	14.7	2.55	11.1	1.73
31 °C	37.6	37.6	8.92	33.8	8.89	30.1	7.28	26.3	5.83	22.5	4.55	18.8	3.43	15.0	2.47	11.3	1.67
30 °C	37.9	37.9	8.76	34.1	8.73	30.3	7.15	26.5	5.73	22.7	4.47	19.0	3.36	15.2	2.42	11.4	1.64
29 °C	38.2	38.2	8.60	34.4	8.56	30.6	7.02	26.8	5.62	22.9	4.38	19.1	3.30	15.3	2.38	11.5	1.61
27 °C	38.8	38.8	8.27	35.0	8.24	31.1	6.75	27.2	5.41	23.3	4.22	19.4	3.18	15.5	2.29	11.7	1.55
25 °C	39.4	39.4	7.94	35.5	7.91	31.5	6.48	27.6	5.19	23.6	4.05	19.7	3.05	15.8	2.19	11.8	1.48
23 °C	39.9	39.9	7.77	35.9	7.74	31.9	6.34	27.9	5.08	23.9	3.96	19.9	2.99	16.0	2.15	12.0	1.45
21 °C	40.0	40.0	7.65	36.0	7.62	32.0	6.25	28.0	5.01	24.0	3.91	20.0	2.94	16.0	2.12	12.0	1.44
20 °C	40.0	40.0	7.58	36.0	7.56	32.0	6.19	28.0	4.97	24.0	3.88	20.0	2.92	16.0	2.10	12.0	1.43
19 °C	40.0	40.0	7.52	36.0	7.49	32.0	6.14	28.0	4.93	24.0	3.85	20.0	2.90	16.0	2.09	12.0	1.42
17 °C	40.0	40.0	7.40	36.0	7.38	32.0	6.05	28.0	4.85	24.0	3.79	20.0	2.86	16.0	2.06	12.0	1.40
15 °C	40.0	40.0	7.30	36.0	7.27	32.0	5.97	28.0	4.79	24.0	3.74	20.0	2.82	16.0	2.04	12.0	1.39

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	8.91	40.5	7.54	36.0	6.31	31.5	5.22	27.0	4.29	22.5	3.49	18.0	2.85	13.5	2.35
13.0	11.8	45.0	45.0	9.28	40.5	7.83	36.0	6.54	31.5	5.40	27.0	4.41	22.5	3.58	18.0	2.90	13.5	2.38
11.0	9.8	45.0	45.0	9.70	40.5	8.17	36.0	6.80	31.5	5.60	27.0	4.56	22.5	3.68	18.0	2.96	13.5	2.41
9.0	7.9	45.0	45.0	10.13	40.5	8.52	36.0	7.08	31.5	5.81	27.0	4.71	22.5	3.78	18.0	3.03	13.5	2.44
7.0	6.0	45.0	45.0	10.60	40.5	8.90	36.0	7.38	31.5	6.04	27.0	4.88	22.5	3.90	18.0	3.10	13.5	2.48
5.0	4.1	43.6	43.6	10.54	39.2	8.85	34.8	7.33	30.5	6.00	26.1	4.85	21.8	3.87	17.4	3.08	13.1	2.47
3.0	2.2	42.1	42.1	10.48	37.9	8.80	33.7	7.29	29.5	5.97	25.3	4.82	21.1	3.85	16.8	3.06	12.6	2.45
0.0	-0.7	39.9	39.9	10.39	35.9	8.72	31.9	7.23	27.9	5.91	23.9	4.78	19.9	3.82	16.0	3.04	12.0	2.43
-3.0	-3.7	37.6	37.6	10.29	33.8	8.64	30.1	7.16	26.3	5.86	22.6	4.73	18.8	3.78	15.0	3.01	11.3	2.41
-5.0	-5.6	36.2	36.2	10.23	32.5	8.59	28.9	7.12	25.3	5.83	21.7	4.71	18.1	3.76	14.5	2.99	10.8	2.39
-7.0	-7.6	34.6	34.6	10.17	31.2	8.53	27.7	7.08	24.2	5.79	20.8	4.68	17.3	3.74	13.9	2.97	10.4	2.38
-10	-10.5	32.4	32.4	10.07	29.2	8.46	25.9	7.01	22.7	5.74	19.5	4.63	16.2	3.70	13.0	2.95	9.7	2.36
-14.5	-15.0	29.0	29.0	9.93	26.1	8.34	23.2	6.91	20.3	5.66	17.4	4.57	14.5	3.65	11.6	2.90	8.7	2.32

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

MMY-MAP1606HT8P-ME (16HP, 45.0kW system)

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	17.6	17.6	6.85	15.8	5.63	14.1	4.54	12.3	3.57	10.6	2.73	8.8	2.01	-	-	-	-
48 °C	27.2	27.2	9.52	24.5	7.82	21.8	6.30	19.0	4.96	16.3	3.79	13.6	2.79	10.9	1.96	-	-
46 °C	36.0	36.0	12.5	32.4	10.3	28.8	8.29	25.2	6.52	21.6	4.98	18.0	3.67	14.4	2.58	10.8	1.71
44 °C	38.0	38.0	12.5	34.2	10.3	30.4	8.32	26.6	6.57	22.8	5.04	19.0	3.73	15.2	2.63	11.4	1.75
42 °C	39.8	39.8	12.4	35.8	10.3	31.8	8.32	27.9	6.58	23.9	5.06	19.9	3.75	15.9	2.65	11.9	1.76
40 °C	41.5	41.5	12.3	37.3	10.2	33.2	8.30	29.0	6.58	24.9	5.07	20.7	3.77	16.6	2.67	12.4	1.78
39 °C	42.2	42.2	12.3	38.0	10.2	33.8	8.33	29.6	6.63	25.3	5.13	21.1	3.83	16.9	2.72	12.7	1.81
37 °C	43.7	43.7	12.2	39.3	10.1	35.0	8.26	30.6	6.58	26.2	5.09	21.8	3.80	17.5	2.70	13.1	1.80
35 °C	45.0	45.0	12.1	40.5	10.0	36.0	8.18	31.5	6.52	27.0	5.04	22.5	3.76	18.0	2.67	13.5	1.78
33 °C	45.0	45.0	11.2	40.5	9.3	36.0	7.57	31.5	6.03	27.0	4.67	22.5	3.49	18.0	2.49	13.5	1.66
31 °C	45.0	45.0	10.4	40.5	8.61	36.0	7.03	31.5	5.61	27.0	4.35	22.5	3.25	18.0	2.32	13.5	1.56
30 °C	45.0	45.0	10.0	40.5	8.31	36.0	6.78	31.5	5.41	27.0	4.20	22.5	3.14	18.0	2.25	13.5	1.51
29 °C	45.0	45.0	9.6	40.5	8.02	36.0	6.55	31.5	5.23	27.0	4.06	22.5	3.04	18.0	2.18	13.5	1.46
27 °C	45.0	45.0	9.0	40.5	7.49	36.0	6.12	31.5	4.89	27.0	3.80	22.5	2.85	18.0	2.04	13.5	1.38
25 °C	45.0	45.0	8.42	40.5	7.01	36.0	5.73	31.5	4.58	27.0	3.56	22.5	2.67	18.0	1.92	13.5	1.30
23 °C	45.0	45.0	8.06	40.5	6.71	36.0	5.49	31.5	4.39	27.0	3.41	22.5	2.57	18.0	1.84	13.5	1.25
21 °C	45.0	45.0	7.90	40.5	6.58	36.0	5.38	31.5	4.31	27.0	3.35	22.5	2.52	18.0	1.81	13.5	1.23
20 °C	45.0	45.0	7.84	40.5	6.53	36.0	5.34	31.5	4.27	27.0	3.33	22.5	2.50	18.0	1.80	13.5	1.22
19 °C	45.0	45.0	7.77	40.5	6.48	36.0	5.30	31.5	4.24	27.0	3.30	22.5	2.49	18.0	1.79	13.5	1.21
17 °C	45.0	45.0	7.67	40.5	6.39	36.0	5.23	31.5	4.19	27.0	3.26	22.5	2.46	18.0	1.77	13.5	1.20
15 °C	45.0	45.0	7.58	40.5	6.31	36.0	5.17	31.5	4.14	27.0	3.23	22.5	2.43	18.0	1.75	13.5	1.19

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	15.9	15.9	6.61	14.3	6.58	12.7	5.29	11.1	4.15	9.52	3.15	7.94	2.30	-	-	-	-
48 °C	24.5	24.5	9.19	22.1	9.14	19.6	7.35	17.2	5.76	14.7	4.38	12.3	3.20	9.81	2.22	-	-
46 °C	32.5	32.5	12.1	29.2	12.0	26.0	9.66	22.7	7.57	19.5	5.75	16.2	4.20	13.0	2.92	9.7	1.90
44 °C	34.3	34.3	12.0	30.8	12.0	27.4	9.67	24.0	7.61	20.6	5.81	17.1	4.26	13.7	2.98	10.3	1.94
42 °C	35.9	35.9	12.0	32.3	11.9	28.7	9.65	25.1	7.61	21.5	5.82	17.9	4.28	14.4	3.00	10.8	1.96
40 °C	37.4	37.4	11.9	33.7	11.9	29.9	9.62	26.2	7.60	22.4	5.83	18.7	4.30	15.0	3.01	11.2	1.97
39 °C	38.1	38.1	11.9	34.3	11.8	30.5	9.62	26.7	7.63	22.9	5.88	19.1	4.36	15.2	3.07	11.4	2.01
37 °C	39.4	39.4	11.8	35.5	11.7	31.5	9.54	27.6	7.57	23.6	5.83	19.7	4.32	15.8	3.04	11.8	2.00
35 °C	40.6	40.6	11.7	36.5	11.6	32.5	9.45	28.4	7.50	24.4	5.78	20.3	4.28	16.2	3.01	12.2	1.98
33 °C	41.6	41.6	11.3	37.5	11.2	33.3	9.14	29.2	7.25	25.0	5.59	20.8	4.14	16.7	2.91	12.5	1.91
31 °C	42.6	42.6	10.9	38.3	10.9	34.1	8.82	29.8	7.00	25.6	5.39	21.3	4.00	17.0	2.81	12.8	1.85
30 °C	43.0	43.0	10.7	38.7	10.7	34.4	8.66	30.1	6.88	25.8	5.29	21.5	3.92	17.2	2.76	12.9	1.81
29 °C	43.5	43.5	10.5	39.1	10.5	34.8	8.50	30.4	6.75	26.1	5.20	21.7	3.85	17.4	2.71	13.0	1.78
27 °C	44.2	44.2	10.1	39.8	10.1	35.4	8.18	30.9	6.49	26.5	5.00	22.1	3.70	17.7	2.61	13.3	1.71
25 °C	44.9	44.9	9.70	40.4	9.66	35.9	7.85	31.4	6.23	26.9	4.80	22.4	3.56	17.9	2.50	13.5	1.64
23 °C	45.0	45.0	9.33	40.5	9.30	36.0	7.56	31.5	6.00	27.0	4.62	22.5	3.43	18.0	2.41	13.5	1.59
21 °C	45.0	45.0	9.15	40.5	9.12	36.0	7.41	31.5	5.89	27.0	4.54	22.5	3.37	18.0	2.37	13.5	1.56
20 °C	45.0	45.0	9.07	40.5	9.04	36.0	7.35	31.5	5.84	27.0	4.50	22.5	3.34	18.0	2.36	13.5	1.55
19 °C	45.0	45.0	9.00	40.5	8.96	36.0	7.29	31.5	5.79	27.0	4.47	22.5	3.32	18.0	2.34	13.5	1.54
17 °C	45.0	45.0	8.87	40.5	8.84	36.0	7.19	31.5	5.71	27.0	4.41	22.5	3.27	18.0	2.31	13.5	1.53
15 °C	45.0	45.0	8.77	40.5	8.73	36.0	7.11	31.5	5.65	27.0	4.36	22.5	3.24	18.0	2.29	13.5	1.51

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	10.5	45.0	8.84	40.0	7.37	35.0	6.08	30.0	4.96	25.0	4.01	20.0	3.24	15.0	2.64
13.0	11.8	50.0	50.0	10.9	45.0	9.19	40.0	7.65	35.0	6.29	30.0	5.11	25.0	4.12	20.0	3.30	15.0	2.67
11.0	9.8	50.0	50.0	11.4	45.0	9.60	40.0	7.97	35.0	6.53	30.0	5.29	25.0	4.24	20.0	3.38	15.0	2.71
9.0	7.9	50.0	50.0	11.9	45.0	10.0	40.0	8.30	35.0	6.78	30.0	5.47	25.0	4.36	20.0	3.46	15.0	2.75
7.0	6.0	50.0	50.0	12.5	45.0	10.5	40.0	8.65	35.0	7.05	30.0	5.67	25.0	4.50	20.0	3.54	15.0	2.80
5.0	4.1	48.2	48.2	12.4	43.4	10.4	38.6	8.59	33.7	7.00	28.9	5.62	24.1	4.46	19.3	3.51	14.5	2.78
3.0	2.2	46.4	46.4	12.3	41.8	10.3	37.1	8.52	32.5	6.95	27.9	5.58	23.2	4.43	18.6	3.49	13.9	2.76
0.0	-0.7	43.7	43.7	12.2	39.3	10.2	34.9	8.42	30.6	6.86	26.2	5.52	21.8	4.38	17.5	3.45	13.1	2.72
-3.0	-3.7	40.9	40.9	12.0	36.8	10.1	32.7	8.32	28.6	6.78	24.5	5.45	20.4	4.32	16.3	3.40	12.3	2.69
-5.0	-5.6	39.1	39.1	11.9	35.2	9.98	31.3	8.25	27.3	6.73	23.4	5.40	19.5	4.29	15.6	3.38	11.7	2.67
-7.0	-7.6	37.2	37.2	11.8	33.5	9.90	29.7	8.18	26.0	6.67	22.3	5.36	18.6	4.25	14.9	3.35	11.2	2.65
-10	-10.5	34.5	34.5	11.7	31.0	9.78	27.6	8.08	24.1	6.59	20.7	5.29	17.2	4.20	13.8	3.31	10.3	2.61
-14.5	-15.0	30.2	30.2	11.4	27.2	9.59	24.2	7.93	21.1	6.46	18.1	5.19	15.1	4.12	12.1	3.24	9.06	2.56

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

MMY-MAP1806HT8P-ME (18HP, 50.4kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	21.1	21.1	7.99	19.0	6.68	16.9	5.48	14.8	4.41	12.7	3.45	-	-	-	-	-	-
48 °C	35.2	35.2	10.7	31.7	8.93	28.2	7.33	24.6	5.89	21.1	4.62	17.6	3.50	14.1	2.54	-	-
46 °C	42.8	42.8	14.2	38.5	11.9	34.2	9.73	30.0	7.82	25.7	6.13	21.4	4.64	17.1	3.38	12.8	2.32
44 °C	44.4	44.4	13.9	40.0	11.6	35.5	9.57	31.1	7.72	26.7	6.07	22.2	4.62	17.8	3.37	13.3	2.32
42 °C	45.9	45.9	13.5	41.3	11.3	36.7	9.36	32.1	7.57	27.6	5.96	23.0	4.54	18.4	3.32	13.8	2.28
40 °C	47.3	47.3	13.2	42.6	11.1	37.9	9.18	33.1	7.45	28.4	5.89	23.7	4.50	18.9	3.30	14.2	2.27
39 °C	48.0	48.0	13.0	43.2	10.9	38.4	9.06	33.6	7.35	28.8	5.81	24.0	4.44	19.2	3.25	14.4	2.24
37 °C	49.2	49.2	12.6	44.3	10.7	39.4	8.84	34.5	7.19	29.5	5.69	24.6	4.36	19.7	3.20	14.8	2.20
35 °C	50.4	50.4	12.3	45.4	10.4	40.3	8.64	35.3	7.04	30.2	5.59	25.2	4.29	20.2	3.15	15.1	2.17
33 °C	50.4	50.4	11.5	45.4	9.7	40.3	8.08	35.3	6.59	30.2	5.24	25.2	4.03	20.2	2.96	15.1	2.04
31 °C	50.4	50.4	10.8	45.4	9.1	40.3	7.57	35.3	6.18	30.2	4.92	25.2	3.79	20.2	2.79	15.1	1.92
30 °C	50.4	50.4	10.4	45.4	8.81	40.3	7.33	35.3	5.99	30.2	4.77	25.2	3.67	20.2	2.71	15.1	1.87
29 °C	50.4	50.4	10.1	45.4	8.53	40.3	7.11	35.3	5.80	30.2	4.62	25.2	3.56	20.2	2.63	15.1	1.81
27 °C	50.4	50.4	9.5	45.4	8.01	40.3	6.67	35.3	5.45	30.2	4.34	25.2	3.35	20.2	2.47	15.1	1.71
25 °C	50.4	50.4	8.9	45.4	7.52	40.3	6.27	35.3	5.12	30.2	4.08	25.2	3.15	20.2	2.33	15.1	1.61
23 °C	50.4	50.4	8.51	45.4	7.21	40.3	6.02	35.3	4.92	30.2	3.93	25.2	3.03	20.2	2.24	15.1	1.56
21 °C	50.4	50.4	8.36	45.4	7.09	40.3	5.91	35.3	4.84	30.2	3.86	25.2	2.99	20.2	2.21	15.1	1.53
20 °C	50.4	50.4	8.29	45.4	7.03	40.3	5.87	35.3	4.80	30.2	3.83	25.2	2.96	20.2	2.19	15.1	1.52
19 °C	50.4	50.4	8.22	45.4	6.97	40.3	5.82	35.3	4.76	30.2	3.80	25.2	2.94	20.2	2.18	15.1	1.52
17 °C	50.4	50.4	8.11	45.4	6.88	40.3	5.74	35.3	4.70	30.2	3.75	25.2	2.91	20.2	2.15	15.1	1.50
15 °C	50.4	50.4	8.00	45.4	6.79	40.3	5.67	35.3	4.64	30.2	3.71	25.2	2.87	20.2	2.13	15.1	1.48

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	19.0	19.0	7.72	17.1	6.45	15.2	5.29	13.3	4.25	11.4	3.33	-	-	-	-	-	-
48 °C	31.7	31.7	10.3	28.6	8.62	25.4	7.08	22.2	5.69	19.0	4.46	15.9	3.38	12.7	2.46	-	-
46 °C	38.6	38.6	13.7	34.7	11.4	30.9	9.39	27.0	7.55	23.2	5.91	19.3	4.48	15.4	3.26	11.6	2.24
44 °C	40.1	40.1	13.4	36.1	11.2	32.1	9.24	28.1	7.45	24.0	5.86	20.0	4.46	16.0	3.25	12.0	2.24
42 °C	41.4	41.4	13.1	37.3	11.0	33.1	9.04	29.0	7.30	24.9	5.75	20.7	4.39	16.6	3.20	12.4	2.20
40 °C	42.7	42.7	12.7	38.4	10.7	34.1	8.87	29.9	7.19	25.6	5.69	21.3	4.35	17.1	3.18	12.8	2.19
39 °C	43.3	43.3	12.6	38.9	10.6	34.6	8.75	30.3	7.10	26.0	5.61	21.6	4.29	17.3	3.14	13.0	2.16
37 °C	44.4	44.4	12.2	40.0	10.3	35.5	8.54	31.1	6.94	26.6	5.50	22.2	4.21	17.8	3.09	13.3	2.12
35 °C	45.5	45.5	11.9	40.9	10.0	36.4	8.34	31.8	6.79	27.3	5.40	22.7	4.15	18.2	3.04	13.6	2.09
33 °C	46.4	46.4	11.5	41.8	9.70	37.1	8.06	32.5	6.57	27.9	5.22	23.2	4.01	18.6	2.94	13.9	2.02
31 °C	47.3	47.3	11.1	42.6	9.36	37.9	7.78	33.1	6.34	28.4	5.04	23.7	3.87	18.9	2.84	14.2	1.95
30 °C	47.8	47.8	10.9	43.0	9.19	38.2	7.64	33.4	6.23	28.7	4.95	23.9	3.80	19.1	2.79	14.3	1.92
29 °C	48.2	48.2	10.7	43.4	9.02	38.5	7.50	33.7	6.11	28.9	4.85	24.1	3.73	19.3	2.74	14.5	1.88
27 °C	48.9	48.9	10.3	44.0	8.68	39.1	7.22	34.3	5.88	29.4	4.67	24.5	3.59	19.6	2.64	14.7	1.81
25 °C	49.6	49.6	9.86	44.7	8.33	39.7	6.93	34.7	5.64	29.8	4.48	24.8	3.44	19.9	2.53	14.9	1.74
23 °C	50.3	50.3	9.65	45.2	8.16	40.2	6.78	35.2	5.53	30.2	4.39	25.1	3.37	20.1	2.48	15.1	1.70
21 °C	50.4	50.4	9.51	45.4	8.04	40.3	6.69	35.3	5.45	30.2	4.33	25.2	3.33	20.2	2.45	15.1	1.68
20 °C	50.4	50.4	9.43	45.4	7.98	40.3	6.63	35.3	5.41	30.2	4.30	25.2	3.31	20.2	2.43	15.1	1.67
19 °C	50.4	50.4	9.36	45.4	7.91	40.3	6.58	35.3	5.37	30.2	4.27	25.2	3.28	20.2	2.41	15.1	1.66
17 °C	50.4	50.4	9.22	45.4	7.80	40.3	6.49	35.3	5.29	30.2	4.21	25.2	3.24	20.2	2.38	15.1	1.64
15 °C	50.4	50.4	9.10	45.4	7.70	40.3	6.41	35.3	5.23	30.2	4.16	25.2	3.20	20.2	2.36	15.1	1.63

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	11.64	50.4	9.98	44.8	8.45	39.2	7.05	33.6	5.78	28.0	4.63	22.4	3.61	16.8	2.72
13.0	11.8	56.0	56.0	12.07	50.4	10.34	44.8	8.74	39.2	7.28	33.6	5.96	28.0	4.76	22.4	3.70	16.8	2.78
11.0	9.8	56.0	56.0	12.55	50.4	10.74	44.8	9.07	39.2	7.55	33.6	6.16	28.0	4.91	22.4	3.81	16.8	2.84
9.0	7.9	56.0	56.0	13.06	50.4	11.16	44.8	9.41	39.2	7.81	33.6	6.36	28.0	5.06	22.4	3.91	16.8	2.91
7.0	6.0	56.0	56.0	13.60	50.4	11.61	44.8	9.78	39.2	8.10	33.6	6.59	28.0	5.23	22.4	4.03	16.8	2.98
5.0	4.1	54.2	54.2	13.52	48.8	11.54	43.4	9.72	37.9	8.06	32.5	6.55	27.1	5.20	21.7	4.00	16.3	2.97
3.0	2.2	52.4	52.4	13.44	47.2	11.47	41.9	9.67	36.7	8.01	31.4	6.51	26.2	5.17	21.0	3.98	15.7	2.95
0.0	-0.7	49.6	49.6	13.32	44.7	11.37	39.7	9.58	34.8	7.94	29.8	6.45	24.8	5.12	19.9	3.95	14.9	2.92
-3.0	-3.7	46.8	46.8	13.20	42.1	11.27	37.4	9.49	32.8	7.87	28.1	6.40	23.4	5.08	18.7	3.91	14.0	2.90
-5.0	-5.6	45.0	45.0	13.12	40.5	11.20	36.0	9.44	31.5	7.82	27.0	6.36	22.5	5.05	18.0	3.89	13.5	2.88
-7.0	-7.6	43.1	43.1	13.04	38.8	11.13	34.5	9.38	30.2	7.77	25.9	6.32	21.6	5.02	17.2	3.86	12.9	2.86
-10	-10.5	40.4	40.4	12.92	36.3	11.03	32.3	9.29	28.3	7.70	24.2	6.26	20.2	4.97	16.1	3.83	12.1	2.83
-14.5	-15.0	36.1	36.1	12.74	32.5	10.87	28.9	9.16	25.3	7.59	21.7	6.17	18.0	4.90	14.4	3.77	10.8	2.79

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

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

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	26.4	26.4	8.68	23.8	7.07	21.1	5.65	18.5	4.40	15.8	3.33	13.2	2.44	-	-	-	-
48 °C	39.5	39.5	12.6	35.6	10.3	31.6	8.22	27.7	6.40	23.7	4.84	19.8	3.54	15.8	2.50	-	-
46 °C	44.8	44.8	14.8	40.3	12.1	35.8	9.64	31.4	7.51	26.9	5.68	22.4	4.16	17.9	2.94	13.4	2.02
44 °C	47.3	47.3	15.0	42.5	12.3	37.8	9.88	33.1	7.74	28.4	5.90	23.6	4.34	18.9	3.08	14.2	2.11
42 °C	49.5	49.5	15.2	44.6	12.5	39.6	10.0	34.7	7.89	29.7	6.03	24.8	4.46	19.8	3.17	14.9	2.17
40 °C	51.6	51.6	15.3	46.4	12.6	41.3	10.1	36.1	7.99	31.0	6.11	25.8	4.52	20.6	3.22	15.5	2.20
39 °C	52.6	52.6	15.4	47.3	12.6	42.1	10.2	36.8	8.05	31.5	6.17	26.3	4.58	21.0	3.26	15.8	2.23
37 °C	54.4	54.4	15.4	48.9	12.7	43.5	10.3	38.1	8.14	32.6	6.26	27.2	4.65	21.7	3.32	16.3	2.27
35 °C	56.0	56.0	15.4	50.4	12.8	44.8	10.4	39.2	8.24	33.6	6.36	28.0	4.75	22.4	3.39	16.8	2.31
33 °C	56.0	56.0	14.3	50.4	11.8	44.8	9.60	39.2	7.63	33.6	5.90	28.0	4.41	22.4	3.16	16.8	2.17
31 °C	56.0	56.0	13.2	50.4	11.0	44.8	8.91	39.2	7.09	33.6	5.49	28.0	4.11	22.4	2.96	16.8	2.04
30 °C	56.0	56.0	12.7	50.4	10.6	44.8	8.59	39.2	6.84	33.6	5.30	28.0	3.97	22.4	2.86	16.8	1.97
29 °C	56.0	56.0	12.3	50.4	10.2	44.8	8.30	39.2	6.61	33.6	5.12	28.0	3.84	22.4	2.77	16.8	1.92
27 °C	56.0	56.0	11.5	50.4	9.51	44.8	7.75	39.2	6.17	33.6	4.79	28.0	3.60	22.4	2.61	16.8	1.81
25 °C	56.0	56.0	10.7	50.4	8.90	44.8	7.25	39.2	5.78	33.6	4.49	28.0	3.38	22.4	2.45	16.8	1.70
23 °C	56.0	56.0	10.3	50.4	8.52	44.8	6.94	39.2	5.54	33.6	4.31	28.0	3.24	22.4	2.36	16.8	1.64
21 °C	56.0	56.0	10.1	50.4	8.35	44.8	6.81	39.2	5.44	33.6	4.23	28.0	3.19	22.4	2.32	16.8	1.62
20 °C	56.0	56.0	10.0	50.4	8.28	44.8	6.75	39.2	5.39	33.6	4.20	28.0	3.17	22.4	2.31	16.8	1.61
19 °C	56.0	56.0	9.89	50.4	8.22	44.8	6.70	39.2	5.35	33.6	4.17	28.0	3.15	22.4	2.29	16.8	1.61
17 °C	56.0	56.0	9.75	50.4	8.10	44.8	6.61	39.2	5.28	33.6	4.11	28.0	3.11	22.4	2.27	16.8	1.59
15 °C	56.0	56.0	9.63	50.4	8.01	44.8	6.54	39.2	5.22	33.6	4.07	28.0	3.08	22.4	2.25	16.8	1.58

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	23.8	23.8	8.38	21.4	6.83	19.1	5.45	16.7	4.25	14.3	3.21	11.9	2.35	-	-	-	-
48 °C	35.6	35.6	12.2	32.1	9.93	28.5	7.93	24.9	6.18	21.4	4.67	17.8	3.42	14.3	2.42	-	-
46 °C	40.4	40.4	14.3	36.4	11.7	32.3	9.31	28.3	7.25	24.2	5.48	20.2	4.01	16.2	2.83	12.1	1.95
44 °C	42.6	42.6	14.5	38.4	11.9	34.1	9.54	29.8	7.48	25.6	5.69	21.3	4.19	17.1	2.97	12.8	2.04
42 °C	44.7	44.7	14.7	40.2	12.0	35.7	9.69	31.3	7.62	26.8	5.82	22.3	4.30	17.9	3.06	13.4	2.09
40 °C	46.5	46.5	14.8	41.9	12.1	37.2	9.79	32.6	7.71	27.9	5.90	23.3	4.37	18.6	3.11	14.0	2.12
39 °C	47.4	47.4	14.8	42.7	12.2	37.9	9.86	33.2	7.77	28.4	5.96	23.7	4.42	19.0	3.15	14.2	2.15
37 °C	49.0	49.0	14.9	44.1	12.3	39.2	9.94	34.3	7.86	29.4	6.04	24.5	4.49	19.6	3.20	14.7	2.19
35 °C	50.5	50.5	14.9	45.5	12.3	40.4	10.0	35.4	7.96	30.3	6.14	25.3	4.58	20.2	3.28	15.2	2.23
33 °C	51.8	51.8	14.4	46.6	11.9	41.5	9.69	36.3	7.69	31.1	5.94	25.9	4.43	20.7	3.17	15.5	2.16
31 °C	53.0	53.0	13.9	47.7	11.5	42.4	9.36	37.1	7.43	31.8	5.73	26.5	4.28	21.2	3.06	15.9	2.08
30 °C	53.6	53.6	13.7	48.2	11.3	42.8	9.19	37.5	7.29	32.1	5.63	26.8	4.20	21.4	3.00	16.1	2.05
29 °C	54.1	54.1	13.4	48.7	11.1	43.3	9.02	37.9	7.16	32.4	5.53	27.0	4.12	21.6	2.95	16.2	2.01
27 °C	55.0	55.0	12.9	49.5	10.7	44.0	8.68	38.5	6.89	33.0	5.32	27.5	3.96	22.0	2.84	16.5	1.93
25 °C	55.8	55.8	12.4	50.3	10.3	44.7	8.33	39.1	6.61	33.5	5.10	27.9	3.81	22.3	2.72	16.8	1.85
23 °C	56.0	56.0	11.9	50.4	9.87	44.8	8.01	39.2	6.36	33.6	4.91	28.0	3.67	22.4	2.63	16.8	1.79
21 °C	56.0	56.0	11.7	50.4	9.67	44.8	7.86	39.2	6.25	33.6	4.83	28.0	3.61	22.4	2.59	16.8	1.77
20 °C	56.0	56.0	11.6	50.4	9.59	44.8	7.79	39.2	6.19	33.6	4.79	28.0	3.58	22.4	2.57	16.8	1.76
19 °C	56.0	56.0	11.5	50.4	9.51	44.8	7.73	39.2	6.15	33.6	4.75	28.0	3.55	22.4	2.55	16.8	1.75
17 °C	56.0	56.0	11.3	50.4	9.38	44.8	7.63	39.2	6.06	33.6	4.69	28.0	3.51	22.4	2.52	16.8	1.73
15 °C	56.0	56.0	11.2	50.4	9.27	44.8	7.54	39.2	5.99	33.6	4.64	28.0	3.47	22.4	2.50	16.8	1.72

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	14.12	56.7	12.09	50.4	10.22	44.1	8.49	37.8	6.92	31.5	5.49	25.2	4.20	18.9	3.07
13.0	11.8	63.0	63.0	14.64	56.7	12.53	50.4	10.58	44.1	8.78	37.8	7.14	31.5	5.65	25.2	4.32	18.9	3.14
11.0	9.8	63.0	63.0	15.23	56.7	13.03	50.4	10.98	44.1	9.11	37.8	7.39	31.5	5.84	25.2	4.45	18.9	3.23
9.0	7.9	63.0	63.0	15.84	56.7	13.53	50.4	11.40	44.1	9.44	37.8	7.65	31.5	6.03	25.2	4.59	18.9	3.32
7.0	6.0	63.0	63.0	16.50	56.7	14.08	50.4	11.85	44.1	9.80	37.8	7.93	31.5	6.24	25.2	4.73	18.9	3.41
5.0	4.1	60.7	60.7	16.37	54.7	13.97	48.6	11.76	42.5	9.72	36.4	7.87	30.4	6.19	24.3	4.70	18.2	3.38
3.0	2.2	58.5	58.5	16.25	52.6	13.87	46.8	11.67	40.9	9.65	35.1	7.81	29.2	6.14	23.4	4.66	17.5	3.36
0.0	-0.7	55.0	55.0	16.05	49.5	13.70	44.0	11.53	38.5	9.53	33.0	7.71	27.5	6.07	22.0	4.61	16.5	3.32
-3.0	-3.7	51.5	51.5	15.86	46.3	13.53	41.2	11.39	36.0	9.42	30.9	7.62	25.7	6.00	20.6	4.55	15.4	3.28
-5.0	-5.6	49.2	49.2	15.73	44.3	13.43	39.4	11.30	34.5	9.34	29.5	7.56	24.6	5.95	19.7	4.51	14.8	3.25
-7.0	-7.6	46.9	46.9	15.60	42.2	13.31	37.5	11.20	32.8	9.26	28.1	7.49	23.4	5.90	18.7	4.48	14.1	3.23
-10	-10.5	43.4	43.4	15.41	39.1	13.15	34.7	11.06	30.4	9.15	26.0	7.40	21.7	5.83	17.4	4.42	13.0	3.19
-14.5	-15.0	38.1	38.1	15.11	34.3	12.90	30.5	10.85	26.6	8.97	22.8	7.26	19.0	5.71	15.2	4.34	11.4	3.12

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

MMY-AP2216HT8P-ME (22HP, 61.5kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	27.2	27.2	11.2	24.5	9.20	21.8	7.44	19.0	5.89	16.3	4.55	13.6	3.43	-	-	-	-
48 °C	41.0	41.0	12.4	36.9	10.2	32.8	8.25	28.7	6.54	24.6	5.06	20.5	3.81	16.4	2.81	-	-
46 °C	52.0	52.0	17.7	46.8	14.6	41.6	11.8	36.4	9.34	31.2	7.22	26.0	5.44	20.8	4.00	15.6	2.89
44 °C	54.0	54.0	17.1	48.6	14.1	43.2	11.5	37.8	9.10	32.4	7.06	27.0	5.33	21.6	3.92	16.2	2.83
42 °C	55.9	55.9	16.5	50.3	13.7	44.7	11.2	39.1	8.91	33.5	6.94	27.9	5.27	22.4	3.89	16.8	2.80
40 °C	57.6	57.6	16.0	51.9	13.3	46.1	10.9	40.3	8.70	34.6	6.81	28.8	5.19	23.1	3.84	17.3	2.77
39 °C	58.5	58.5	15.7	52.6	13.0	46.8	10.7	40.9	8.54	35.1	6.68	29.2	5.09	23.4	3.77	17.5	2.71
37 °C	60.0	60.0	15.1	54.0	12.6	48.0	10.3	42.0	8.27	36.0	6.49	30.0	4.96	24.0	3.68	18.0	2.64
35 °C	61.5	61.5	14.5	55.3	12.1	49.2	9.91	43.0	7.96	36.9	6.24	30.7	4.77	24.6	3.53	18.4	2.54
33 °C	61.5	61.5	13.3	55.4	11.1	49.2	9.12	43.1	7.33	36.9	5.77	30.8	4.42	24.6	3.28	18.5	2.37
31 °C	61.5	61.5	12.6	55.4	10.5	49.2	8.63	43.1	6.95	36.9	5.47	30.8	4.20	24.6	3.13	18.5	2.27
30 °C	61.5	61.5	12.2	55.4	10.2	49.2	8.35	43.1	6.73	36.9	5.30	30.8	4.07	24.6	3.04	18.5	2.21
29 °C	61.5	61.5	11.8	55.4	9.84	49.2	8.08	43.1	6.51	36.9	5.13	30.8	3.95	24.6	2.95	18.5	2.15
27 °C	61.5	61.5	11.0	55.4	9.21	49.2	7.57	43.1	6.11	36.9	4.82	30.8	3.71	24.6	2.78	18.5	2.03
25 °C	61.5	61.5	10.3	55.4	8.63	49.2	7.10	43.1	5.73	36.9	4.53	30.8	3.50	24.6	2.63	18.5	1.92
23 °C	61.5	61.5	9.89	55.4	8.27	49.2	6.81	43.1	5.50	36.9	4.35	30.8	3.36	24.6	2.53	18.5	1.86
21 °C	61.5	61.5	9.70	55.4	8.12	49.2	6.68	43.1	5.40	36.9	4.28	30.8	3.31	24.6	2.50	18.5	1.84
20 °C	61.5	61.5	9.61	55.4	8.04	49.2	6.63	43.1	5.36	36.9	4.25	30.8	3.29	24.6	2.48	18.5	1.83
19 °C	61.5	61.5	9.53	55.4	7.98	49.2	6.57	43.1	5.32	36.9	4.22	30.8	3.27	24.6	2.47	18.5	1.82
17 °C	61.5	61.5	9.39	55.4	7.86	49.2	6.48	43.1	5.25	36.9	4.16	30.8	3.23	24.6	2.44	18.5	1.88
15 °C	61.5	61.5	9.26	55.4	7.75	49.2	6.40	43.1	5.18	36.9	4.11	30.8	3.19	24.6	2.42	18.5	1.87

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	24.5	24.5	10.8	22.1	9.89	19.6	7.98	17.2	6.30	14.7	4.85	12.3	3.63	-	-	-	-
48 °C	37.0	37.0	12.0	33.3	10.9	29.6	8.77	25.9	6.93	22.2	5.34	18.5	4.00	14.8	2.92	-	-
46 °C	46.9	46.9	17.1	42.2	15.6	37.5	12.6	32.8	9.92	28.1	7.64	23.5	5.73	18.8	4.17	14.1	2.97
44 °C	48.7	48.7	16.5	43.8	15.1	39.0	12.2	34.1	9.67	29.2	7.47	24.4	5.61	19.5	4.10	14.6	2.92
42 °C	50.4	50.4	16.0	45.4	14.6	40.3	11.9	35.3	9.46	30.2	7.35	25.2	5.55	20.2	4.06	15.1	2.89
40 °C	52.0	52.0	15.4	46.8	14.2	41.6	11.6	36.4	9.24	31.2	7.21	26.0	5.47	20.8	4.02	15.6	2.86
39 °C	52.7	52.7	15.1	47.5	13.9	42.2	11.4	36.9	9.08	31.6	7.09	26.4	5.37	21.1	3.95	15.8	2.81
37 °C	54.2	54.2	14.6	48.7	13.4	43.3	11.0	37.9	8.81	32.5	6.89	27.1	5.24	21.7	3.85	16.2	2.74
35 °C	55.5	55.5	14.0	49.9	13.0	44.4	10.6	38.8	8.49	33.3	6.64	27.7	5.04	22.2	3.71	16.6	2.63
33 °C	56.9	56.9	13.4	51.2	12.4	45.5	10.2	39.8	8.15	34.1	6.38	28.4	4.84	22.8	3.56	17.1	2.52
31 °C	57.8	57.8	13.1	52.0	12.1	46.2	9.89	40.5	7.93	34.7	6.20	28.9	4.71	23.1	3.46	17.3	2.45
30 °C	58.3	58.3	12.8	52.5	11.9	46.7	9.71	40.8	7.78	35.0	6.08	29.2	4.62	23.3	3.40	17.5	2.41
29 °C	58.8	58.8	12.6	52.9	11.7	47.1	9.53	41.2	7.64	35.3	5.97	29.4	4.54	23.5	3.33	17.6	2.37
27 °C	59.8	59.8	12.1	53.8	11.2	47.8	9.17	41.8	7.35	35.9	5.75	29.9	4.36	23.9	3.21	17.9	2.28
25 °C	60.6	60.6	11.6	54.6	10.8	48.5	8.80	42.4	7.05	36.4	5.52	30.3	4.19	24.2	3.08	18.2	2.18
23 °C	61.1	61.1	11.3	55.0	10.4	48.9	8.53	42.8	6.84	36.6	5.35	30.5	4.06	24.4	2.99	18.3	2.12
21 °C	61.4	61.4	11.2	55.3	10.3	49.1	8.44	43.0	6.76	36.8	5.29	30.7	4.02	24.6	2.96	18.4	2.11
20 °C	61.5	61.5	11.1	55.4	10.2	49.2	8.38	43.1	6.72	36.9	5.26	30.8	4.00	24.6	2.95	18.5	2.10
19 °C	61.5	61.5	11.0	55.4	10.2	49.2	8.31	43.1	6.67	36.9	5.22	30.8	3.97	24.6	2.93	18.5	2.09
17 °C	61.5	61.5	10.8	55.4	10.0	49.2	8.19	43.1	6.57	36.9	5.15	30.8	3.92	24.6	2.90	18.5	1.91
15 °C	61.5	61.5	10.7	55.4	9.87	49.2	8.08	43.1	6.49	36.9	5.09	30.8	3.88	24.6	2.87	18.5	1.91

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
Dry-Bulb (°C)	Wet-Bulb (°C)		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
15.0	13.7	69.0	69.0	13.9	62.1	11.8	55.2	10.0	48.3	8.26	41.4	6.74	34.5	5.39	27.6	4.21	20.7	3.21
13.0	11.8	69.0	69.0	14.4	62.1	12.3	55.2	10.3	48.3	8.54	41.4	6.95	34.5	5.54	27.6	4.32	20.7	3.27
11.0	9.8	69.0	69.0	15.0	62.1	12.8	55.2	10.7	48.3	8.86	41.4	7.19	34.5	5.72	27.6	4.44	20.7	3.35
9.0	7.9	69.0	69.0	15.6	62.1	13.3	55.2	11.1	48.3	9.19	41.4	7.44	34.5	5.90	27.6	4.56	20.7	3.42
7.0	6.0	69.0	69.0	16.3	62.1	13.8	55.2	11.6	48.3	9.54	41.4	7.71	34.5	6.09	27.6	4.69	20.7	3.50
5.0	4.1	66.6	66.6	16.2	60.0	13.7	53.3	11.5	46.6	9.47	40.0	7.66	33.3	6.05	26.7	4.66	20.0	3.48
3.0	2.2	64.3	64.3	16.1	57.9	13.7	51.4	11.4	45.0	9.41	38.6	7.60	32.1	6.01	25.7	4.63	19.3	3.46
0.0	-0.7	60.7	60.7	15.9	54.6	13.5	48.6	11.3	42.5	9.31	36.4	7.52	30.3	5.95	24.3	4.58	18.2	3.42
-3.0	-3.7	57.0	57.0	15.8	51.3	13.4	45.6	11.2	39.9	9.21	34.2	7.44	28.5	5.88	22.8	4.53	17.1	3.38
-5.0	-5.6	54.6	54.6	15.6	49.2	13.3	43.7	11.1	38.2	9.14	32.8	7.39	27.3	5.84	21.8	4.50	16.4	3.36
-7.0	-7.6	52.1	52.1	15.5	46.9	13.2	41.7	11.0	36.5	9.08	31.3	7.33	26.1	5.80	20.9	4.46	15.6	3.33
-10	-10.5	48.5	48.5	15.4	43.7	13.0	38.8	10.9	34.0	8.98	29.1	7.25	24.3	5.73	19.4	4.41	14.6	3.30
-14.5	-15.0	43.0	43.0	15.1	38.7	12.8	34.4	10.7	30.1	8.82	25.8	7.13	21.5	5.64	17.2	4.34	12.9	3.24

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

MMY-AP2416HT8P-ME (24HP, 67.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	28.0	28.0	12.2	25.2	10.1	22.4	8.17	19.6	6.47	16.8	4.98	14.0	3.71	-	-	-	-
48 °C	41.6	41.6	12.2	37.4	10.1	33.3	8.21	29.1	6.50	25.0	5.01	20.8	3.74	16.6	2.68	-	-
46 °C	53.6	53.6	18.0	48.2	14.8	42.9	12.0	37.5	9.51	32.2	7.33	26.8	5.46	21.4	3.90	16.1	2.66
44 °C	56.5	56.5	17.7	50.9	14.7	45.2	12.0	39.6	9.53	33.9	7.38	28.3	5.53	22.6	3.97	17.0	2.71
42 °C	59.3	59.3	17.5	53.3	14.5	47.4	11.9	41.5	9.49	35.6	7.38	29.6	5.55	23.7	4.00	17.8	2.72
40 °C	61.7	61.7	17.2	55.6	14.4	49.4	11.8	43.2	9.47	37.0	7.40	30.9	5.59	24.7	4.04	18.5	2.75
39 °C	62.9	62.9	17.1	56.6	14.3	50.3	11.7	44.0	9.39	37.7	7.34	31.4	5.54	25.2	4.01	18.9	2.73
37 °C	65.0	65.0	16.8	58.5	14.0	52.0	11.5	45.5	9.23	39.0	7.21	32.5	5.45	26.0	3.94	19.5	2.68
35 °C	67.0	67.0	16.5	60.3	13.8	53.6	11.3	46.9	9.06	40.2	7.08	33.5	5.35	26.8	3.87	20.1	2.64
33 °C	67.0	67.0	15.2	60.3	12.7	53.6	10.5	46.9	8.40	40.2	6.57	33.5	4.98	26.8	3.61	20.1	2.47
31 °C	67.0	67.0	14.2	60.3	11.8	53.6	9.72	46.9	7.82	40.2	6.13	33.5	4.65	26.8	3.37	20.1	2.32
30 °C	67.0	67.0	13.7	60.3	11.4	53.6	9.39	46.9	7.55	40.2	5.92	33.5	4.49	26.8	3.27	20.1	2.25
29 °C	67.0	67.0	13.2	60.3	11.0	53.6	9.07	46.9	7.30	40.2	5.73	33.5	4.35	26.8	3.16	20.1	2.18
27 °C	67.0	67.0	12.3	60.3	10.3	53.6	8.48	46.9	6.83	40.2	5.37	33.5	4.08	26.8	2.97	20.1	2.05
25 °C	67.0	67.0	11.5	60.3	9.65	53.6	7.95	46.9	6.41	40.2	5.03	33.5	3.83	26.8	2.80	20.1	1.93
23 °C	67.0	67.0	11.0	60.3	9.25	53.6	7.62	46.9	6.14	40.2	4.83	33.5	3.68	26.8	2.69	20.1	1.87
21 °C	67.0	67.0	10.8	60.3	9.08	53.6	7.48	46.9	6.04	40.2	4.75	33.5	3.62	26.8	2.65	20.1	1.84
20 °C	67.0	67.0	10.7	60.3	9.01	53.6	7.42	46.9	5.99	40.2	4.72	33.5	3.60	26.8	2.63	20.1	1.83
19 °C	67.0	67.0	10.7	60.3	8.94	53.6	7.37	46.9	5.95	40.2	4.68	33.5	3.57	26.8	2.62	20.1	1.82
17 °C	67.0	67.0	10.5	60.3	8.82	53.6	7.27	46.9	5.87	40.2	4.63	33.5	3.53	26.8	2.59	20.1	1.94
15 °C	67.0	67.0	10.4	60.3	8.72	53.6	7.19	46.9	5.81	40.2	4.58	33.5	3.50	26.8	2.57	20.1	1.94

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	25.3	25.3	11.8	22.7	11.8	20.2	9.49	17.7	7.48	15.2	5.73	12.6	4.23	-	-	-	-
48 °C	37.5	37.5	11.8	33.8	11.8	30.0	9.52	26.3	7.51	22.5	5.76	18.8	4.25	15.0	3.01	-	-
46 °C	48.3	48.3	17.3	43.5	17.3	38.7	13.9	33.8	11.0	29.0	8.42	24.2	6.21	19.3	4.38	14.5	2.92
44 °C	51.0	51.0	17.1	45.9	17.0	40.8	13.8	35.7	11.0	30.6	8.45	25.5	6.28	20.4	4.45	15.3	2.98
42 °C	53.4	53.4	16.9	48.1	16.8	42.8	13.7	37.4	10.9	32.1	8.43	26.7	6.29	21.4	4.48	16.0	3.00
40 °C	55.7	55.7	16.6	50.1	16.6	44.5	13.5	39.0	10.8	33.4	8.42	27.8	6.32	22.3	4.52	16.7	3.04
39 °C	56.7	56.7	16.5	51.1	16.4	45.4	13.4	39.7	10.7	34.0	8.35	28.4	6.26	22.7	4.48	17.0	3.01
37 °C	58.7	58.7	16.2	52.8	16.1	46.9	13.2	41.1	10.6	35.2	8.21	29.3	6.16	23.5	4.41	17.6	2.96
35 °C	60.4	60.4	15.9	54.4	15.8	48.3	13.0	42.3	10.4	36.3	8.06	30.2	6.04	24.2	4.33	18.1	2.91
33 °C	62.0	62.0	15.4	55.8	15.3	49.6	12.5	43.4	10.0	37.2	7.79	31.0	5.84	24.8	4.18	18.6	2.81
31 °C	63.4	63.4	14.8	57.1	14.8	50.7	12.1	44.4	9.67	38.1	7.52	31.7	5.64	25.4	4.04	19.0	2.71
30 °C	64.1	64.1	14.6	57.7	14.5	51.3	11.9	44.9	9.50	38.4	7.38	32.0	5.54	25.6	3.97	19.2	2.66
29 °C	64.7	64.7	14.3	58.2	14.3	51.8	11.7	45.3	9.32	38.8	7.25	32.3	5.44	25.9	3.89	19.4	2.61
27 °C	65.8	65.8	13.8	59.2	13.7	52.7	11.2	46.1	8.97	39.5	6.97	32.9	5.23	26.3	3.74	19.7	2.51
25 °C	66.8	66.8	13.2	60.1	13.2	53.4	10.8	46.8	8.61	40.1	6.69	33.4	5.02	26.7	3.59	20.0	2.41
23 °C	67.0	67.0	12.7	60.3	12.7	53.6	10.4	46.9	8.29	40.2	6.45	33.5	4.84	26.8	3.47	20.1	2.33
21 °C	67.0	67.0	12.5	60.3	12.4	53.6	10.2	46.9	8.14	40.2	6.34	33.5	4.76	26.8	3.41	20.1	2.30
20 °C	67.0	67.0	12.4	60.3	12.3	53.6	10.1	46.9	8.07	40.2	6.29	33.5	4.72	26.8	3.39	20.1	2.28
19 °C	67.0	67.0	12.3	60.3	12.2	53.6	10.0	46.9	8.01	40.2	6.24	33.5	4.69	26.8	3.37	20.1	2.27
17 °C	67.0	67.0	12.1	60.3	12.1	53.6	9.88	46.9	7.91	40.2	6.16	33.5	4.63	26.8	3.33	20.1	1.94
15 °C	67.0	67.0	12.0	60.3	11.9	53.6	9.77	46.9	7.82	40.2	6.09	33.5	4.59	26.8	3.30	20.1	1.94

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	13.5	60.0	11.3	52.5	9.42	45.0	7.66	37.5	6.09	30.0	4.70	22.5	3.49
13.0	11.8	75.0	75.0	16.4	67.5	14.0	60.0	11.8	52.5	9.74	45.0	7.91	37.5	6.28	30.0	4.83	22.5	3.57
11.0	9.8	75.0	75.0	17.0	67.5	14.5	60.0	12.2	52.5	10.1	45.0	8.19	37.5	6.48	30.0	4.97	22.5	3.66
9.0	7.9	75.0	75.0	17.7	67.5	15.1	60.0	12.7	52.5	10.5	45.0	8.47	37.5	6.69	30.0	5.12	22.5	3.76
7.0	6.0	75.0	75.0	18.5	67.5	15.7	60.0	13.2	52.5	10.9	45.0	8.78	37.5	6.92	30.0	5.28	22.5	3.86
5.0	4.1	72.3	72.3	18.3	65.1	15.6	57.9	13.1	50.6	10.8	43.4	8.72	36.2	6.86	28.9	5.24	21.7	3.83
3.0	2.2	69.6	69.6	18.2	62.7	15.5	55.7	13.0	48.7	10.7	41.8	8.65	34.8	6.81	27.9	5.19	20.9	3.80
0.0	-0.7	65.5	65.5	18.0	59.0	15.3	52.4	12.8	45.9	10.6	39.3	8.55	32.8	6.73	26.2	5.13	19.7	3.75
-3.0	-3.7	61.3	61.3	17.8	55.2	15.1	49.0	12.7	42.9	10.4	36.8	8.44	30.6	6.65	24.5	5.07	18.4	3.71
-5.0	-5.6	58.6	58.6	17.6	52.7	15.0	46.9	12.6	41.0	10.4	35.2	8.38	29.3	6.60	23.4	5.03	17.6	3.68
-7.0	-7.6	55.8	55.8	17.5	50.2	14.9	44.6	12.5	39.0	10.3	33.5	8.30	27.9	6.54	22.3	4.99	16.7	3.65
-10	-10.5	51.7	51.7	17.3	46.5	14.7	41.3	12.3	36.2	10.2	31.0	8.20	25.8	6.46	20.7	4.93	15.5	3.60
-14.5	-15.0	45.3	45.3	16.9	40.8	14.4	36.3	12.1	31.7	9.96	27.2	8.04	22.7	6.34	18.1	4.83	13.6	3.53

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

MMY-AP2616HT8P-ME (26HP, 73.5kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	29.8	29.8	12.9	26.8	10.7	23.8	8.64	20.9	6.85	17.9	5.28	14.9	3.93	-	-	-	-
48 °C	45.7	45.7	14.1	41.1	11.6	36.6	9.44	32.0	7.48	27.4	5.77	22.9	4.31	18.3	3.09	-	-
46 °C	59.3	59.3	20.6	53.4	17.0	47.4	13.8	41.5	10.9	35.6	8.41	29.7	6.27	23.7	4.49	17.8	3.07
44 °C	63.5	63.5	20.2	57.2	16.7	50.8	13.6	44.5	10.8	38.1	8.37	31.8	6.26	25.4	4.50	19.1	3.08
42 °C	66.1	66.1	19.7	59.5	16.4	52.9	13.4	46.3	10.7	39.6	8.29	33.0	6.23	26.4	4.49	19.8	3.07
40 °C	68.4	68.4	19.3	61.6	16.1	54.7	13.1	47.9	10.5	41.1	8.20	34.2	6.18	27.4	4.47	20.5	3.06
39 °C	69.5	69.5	19.1	62.6	15.9	55.6	13.0	48.7	10.4	41.7	8.10	34.8	6.11	27.8	4.41	20.9	3.02
37 °C	71.6	71.6	18.6	64.4	15.5	57.3	12.7	50.1	10.2	43.0	7.95	35.8	6.00	28.6	4.34	21.5	2.97
35 °C	73.5	73.5	18.1	66.1	15.2	58.8	12.4	51.4	10.0	44.1	7.83	36.7	5.93	29.4	4.30	22.0	2.94
33 °C	73.5	73.5	16.8	66.2	14.1	58.8	11.6	51.5	9.32	44.1	7.30	36.8	5.54	29.4	4.03	22.1	2.76
31 °C	73.5	73.5	15.7	66.2	13.1	58.8	10.8	51.5	8.70	44.1	6.83	36.8	5.19	29.4	3.78	22.1	2.60
30 °C	73.5	73.5	15.2	66.2	12.7	58.8	10.4	51.5	8.42	44.1	6.61	36.8	5.02	29.4	3.66	22.1	2.53
29 °C	73.5	73.5	14.7	66.2	12.3	58.8	10.1	51.5	8.14	44.1	6.40	36.8	4.86	29.4	3.55	22.1	2.45
27 °C	73.5	73.5	13.7	66.2	11.5	58.8	9.46	51.5	7.63	44.1	6.00	36.8	4.57	29.4	3.34	22.1	2.31
25 °C	73.5	73.5	12.8	66.2	10.8	58.8	8.87	51.5	7.16	44.1	5.63	36.8	4.29	29.4	3.14	22.1	2.18
23 °C	73.5	73.5	12.3	66.2	10.3	58.8	8.50	51.5	6.87	44.1	5.41	36.8	4.13	29.4	3.03	22.1	2.10
21 °C	73.5	73.5	12.1	66.2	10.1	58.8	8.35	51.5	6.75	44.1	5.32	36.8	4.06	29.4	2.98	22.1	2.08
20 °C	73.5	73.5	12.0	66.2	10.0	58.8	8.28	51.5	6.69	44.1	5.28	36.8	4.03	29.4	2.96	22.1	2.06
19 °C	73.5	73.5	11.9	66.2	10.0	58.8	8.22	51.5	6.64	44.1	5.24	36.8	4.00	29.4	2.94	22.1	2.05
17 °C	73.5	73.5	11.7	66.2	9.82	58.8	8.10	51.5	6.55	44.1	5.17	36.8	3.95	29.4	2.91	22.1	2.10
15 °C	73.5	73.5	11.6	66.2	9.70	58.8	8.01	51.5	6.48	44.1	5.11	36.8	3.91	29.4	2.88	22.1	2.09

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	26.9	26.9	12.5	24.2	12.4	21.5	10.0	18.8	7.91	16.1	6.06	13.4	4.48	-	-	-	-
48 °C	41.2	41.2	13.6	37.1	13.6	33.0	11.0	28.9	8.64	24.7	6.62	20.6	4.90	16.5	3.46	-	-
46 °C	53.5	53.5	19.9	48.1	19.8	42.8	16.0	37.4	12.6	32.1	9.65	26.7	7.13	21.4	5.04	16.0	3.38
44 °C	57.3	57.3	19.5	51.6	19.4	45.8	15.7	40.1	12.4	34.4	9.58	28.7	7.11	22.9	5.05	17.2	3.39
42 °C	59.6	59.6	19.0	53.6	19.0	47.7	15.4	41.7	12.3	35.8	9.47	29.8	7.06	23.8	5.03	17.9	3.38
40 °C	61.7	61.7	18.6	55.5	18.6	49.4	15.1	43.2	12.1	37.0	9.34	30.9	6.99	24.7	4.99	18.5	3.36
39 °C	62.7	62.7	18.4	56.4	18.3	50.2	14.9	43.9	11.9	37.6	9.24	31.4	6.91	25.1	4.94	18.8	3.32
37 °C	64.6	64.6	18.0	58.1	17.9	51.7	14.6	45.2	11.7	38.7	9.05	32.3	6.78	25.8	4.85	19.4	3.27
35 °C	66.3	66.3	17.5	59.7	17.4	53.0	14.3	46.4	11.4	39.8	8.90	33.1	6.69	26.5	4.80	19.9	3.24
33 °C	67.9	67.9	16.9	61.1	16.9	54.3	13.8	47.5	11.1	40.7	8.61	33.9	6.47	27.1	4.65	20.4	3.13
31 °C	69.3	69.3	16.3	62.4	16.3	55.4	13.3	48.5	10.67	41.6	8.31	34.6	6.25	27.7	4.48	20.8	3.02
30 °C	69.9	69.9	16.0	63.0	16.0	56.0	13.1	49.0	10.48	42.0	8.16	35.0	6.13	28.0	4.40	21.0	2.97
29 °C	70.6	70.6	15.8	63.5	15.7	56.5	12.8	49.4	10.28	42.3	8.01	35.3	6.02	28.2	4.32	21.2	2.91
27 °C	71.7	71.7	15.2	64.6	15.1	57.4	12.4	50.2	9.89	43.0	7.70	35.9	5.79	28.7	4.16	21.5	2.80
25 °C	72.8	72.8	14.5	65.5	14.5	58.2	11.86	51.0	9.50	43.7	7.40	36.4	5.56	29.1	3.99	21.8	2.69
23 °C	73.4	73.4	14.1	66.1	14.1	58.7	11.53	51.4	9.23	44.0	7.19	36.7	5.41	29.4	3.88	22.0	2.62
21 °C	73.5	73.5	13.9	66.2	13.8	58.8	11.34	51.5	9.08	44.1	7.08	36.8	5.32	29.4	3.83	22.1	2.59
20 °C	73.5	73.5	13.8	66.2	13.7	58.8	11.24	51.5	9.00	44.1	7.02	36.8	5.28	29.4	3.80	22.1	2.57
19 °C	73.5	73.5	13.7	66.2	13.6	58.8	11.15	51.5	8.93	44.1	6.97	36.8	5.24	29.4	3.77	22.1	2.55
17 °C	73.5	73.5	13.5	66.2	13.4	58.8	10.99	51.5	8.81	44.1	6.87	36.8	5.18	29.4	3.73	22.1	2.37
15 °C	73.5	73.5	13.3	66.2	13.2	58.8	10.85	51.5	8.70	44.1	6.79	36.8	5.12	29.4	3.69	22.1	2.36

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	16.8	74.3	14.3	66.0	12.0	57.8	9.93	49.5	8.12	41.3	6.54	33.0	5.20	24.8	4.10
13.0	11.8	82.5	82.5	17.5	74.3	14.8	66.0	12.4	57.8	10.3	49.5	8.37	41.3	6.72	33.0	5.32	24.8	4.17
11.0	9.8	82.5	82.5	18.2	74.3	15.4	66.0	12.9	57.8	10.6	49.5	8.65	41.3	6.92	33.0	5.45	24.8	4.24
9.0	7.9	82.5	82.5	19.0	74.3	16.1	66.0	13.4	57.8	11.0	49.5	8.95	41.3	7.13	33.0	5.59	24.8	4.32
7.0	6.0	82.5	82.5	19.8	74.3	16.8	66.0	14.0	57.8	11.5	49.5	9.27	41.3	7.36	33.0	5.74	24.8	4.41
5.0	4.1	79.7	79.7	19.7	71.7	16.6	63.8	13.9	55.8	11.4	47.8	9.21	39.9	7.31	31.9	5.70	23.9	4.38
3.0	2.2	76.9	76.9	19.6	69.2	16.5	61.5	13.8	53.8	11.3	46.2	9.15	38.5	7.26	30.8	5.66	23.1	4.35
0.0	-0.7	72.7	72.7	19.4	65.4	16.4	58.1	13.6	50.9	11.2	43.6	9.05	36.3	7.18	29.1	5.60	21.8	4.31
-3.0	-3.7	68.3	68.3	19.2	61.4	16.2	54.6	13.5	47.8	11.1	41.0	8.96	34.1	7.11	27.3	5.54	20.5	4.26
-5.0	-5.6	65.5	65.5	19.0	58.9	16.1	52.4	13.4	45.8	11.0	39.3	8.89	32.7	7.06	26.2	5.51	19.6	4.23
-7.0	-7.6	62.5	62.5	18.9	56.3	16.0	50.0	13.3	43.8	10.9	37.5	8.83	31.3	7.01	25.0	5.47	18.8	4.20
-10	-10.5	58.3	58.3	18.7	52.4	15.8	46.6	13.2	40.8	10.8	35.0	8.74	29.1	6.93	23.3	5.41	17.5	4.16
-14.5	-15.0	51.7	51.7	18.4	46.5	15.5	41.3	12.9	36.2	10.6	31.0	8.59	25.8	6.82	20.7	5.32	15.5	4.09

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

MMY-AP2816HT8P-ME (28HP, 80.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	31.6	31.6	13.6	28.4	11.2	25.3	9.11	22.1	7.22	19.0	5.57	15.8	4.16	-	-	-	-
48 °C	49.8	49.8	16.0	44.8	13.2	39.8	10.7	34.9	8.46	29.9	6.53	24.9	4.87	19.9	3.50	-	-
46 °C	65.0	65.0	23.2	58.5	19.2	52.0	15.5	45.5	12.3	39.0	9.49	32.5	7.08	26.0	5.08	19.5	3.49
44 °C	70.5	70.5	22.6	63.5	18.7	56.4	15.2	49.4	12.1	42.3	9.35	35.3	7.00	28.2	5.04	21.2	3.46
42 °C	72.9	72.9	22.0	65.6	18.2	58.3	14.9	51.0	11.9	43.7	9.20	36.4	6.91	29.2	4.99	21.9	3.42
40 °C	75.1	75.1	21.4	67.6	17.8	60.1	14.5	52.6	11.6	45.1	9.00	37.6	6.77	30.0	4.89	22.5	3.36
39 °C	76.2	76.2	21.0	68.5	17.5	60.9	14.3	53.3	11.4	45.7	8.87	38.1	6.67	30.5	4.82	22.8	3.31
37 °C	78.2	78.2	20.4	70.3	17.0	62.5	13.9	54.7	11.1	46.9	8.69	39.1	6.55	31.3	4.74	23.4	3.26
35 °C	80.0	80.0	19.7	72.0	16.6	64.0	13.6	56.0	11.0	48.0	8.59	40.0	6.51	32.0	4.73	24.0	3.25
33 °C	80.0	80.0	18.5	72.0	15.4	64.0	12.7	56.0	10.2	48.0	8.03	40.0	6.10	32.0	4.44	24.0	3.06
31 °C	80.0	80.0	17.2	72.0	14.4	64.0	11.9	56.0	9.58	48.0	7.53	40.0	5.73	32.0	4.18	24.0	2.89
30 °C	80.0	80.0	16.7	72.0	14.0	64.0	11.5	56.0	9.28	48.0	7.29	40.0	5.55	32.0	4.06	24.0	2.81
29 °C	80.0	80.0	16.1	72.0	13.5	64.0	11.1	56.0	8.98	48.0	7.07	40.0	5.38	32.0	3.93	24.0	2.73
27 °C	80.0	80.0	15.1	72.0	12.7	64.0	10.4	56.0	8.43	48.0	6.63	40.0	5.06	32.0	3.71	24.0	2.57
25 °C	80.0	80.0	14.2	72.0	11.9	64.0	9.79	56.0	7.91	48.0	6.23	40.0	4.76	32.0	3.49	24.0	2.43
23 °C	80.0	80.0	13.6	72.0	11.4	64.0	9.39	56.0	7.59	48.0	5.99	40.0	4.57	32.0	3.36	24.0	2.34
21 °C	80.0	80.0	13.3	72.0	11.2	64.0	9.22	56.0	7.46	48.0	5.88	40.0	4.50	32.0	3.31	24.0	2.31
20 °C	80.0	80.0	13.2	72.0	11.1	64.0	9.14	56.0	7.39	48.0	5.84	40.0	4.47	32.0	3.29	24.0	2.30
19 °C	80.0	80.0	13.1	72.0	11.0	64.0	9.07	56.0	7.34	48.0	5.79	40.0	4.43	32.0	3.26	24.0	2.28
17 °C	80.0	80.0	12.9	72.0	10.8	64.0	8.94	56.0	7.23	48.0	5.71	40.0	4.38	32.0	3.22	24.0	2.26
15 °C	80.0	80.0	12.7	72.0	10.7	64.0	8.82	56.0	7.14	48.0	5.64	40.0	4.33	32.0	3.19	24.0	2.24

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	28.5	28.5	15.4	25.7	15.3	22.8	10.6	20.0	8.34	17.1	6.39	14.3	4.73	-	-	-	-
48 °C	44.9	44.9	15.4	40.4	15.3	35.9	12.4	31.4	9.78	27.0	7.49	22.5	5.54	18.0	3.92	-	-
46 °C	58.6	58.6	22.4	52.8	22.3	46.9	18.0	41.0	14.2	35.2	10.9	29.3	8.05	23.5	5.70	17.6	3.83
44 °C	63.6	63.6	21.8	57.3	21.7	50.9	17.6	44.5	13.9	38.2	10.7	31.8	7.94	25.4	5.64	19.1	3.79
42 °C	65.7	65.7	21.2	59.2	21.1	52.6	17.2	46.0	13.6	39.4	10.5	32.9	7.83	26.3	5.58	19.7	3.76
40 °C	67.7	67.7	20.6	61.0	20.5	54.2	16.7	47.4	13.3	40.6	10.3	33.9	7.66	27.1	5.47	20.3	3.69
39 °C	68.7	68.7	20.3	61.8	20.2	55.0	16.5	48.1	13.1	41.2	10.1	34.3	7.55	27.5	5.39	20.6	3.63
37 °C	70.5	70.5	19.7	63.4	19.6	56.4	16.0	49.3	12.8	42.3	9.90	35.2	7.41	28.2	5.30	21.1	3.58
35 °C	72.2	72.2	19.0	64.9	19.0	57.7	15.6	50.5	12.5	43.3	9.75	36.1	7.34	28.9	5.28	21.6	3.57
33 °C	73.7	73.7	18.5	66.3	18.4	59.0	15.1	51.6	12.1	44.2	9.43	36.9	7.10	29.5	5.11	22.1	3.46
31 °C	75.1	75.1	17.8	67.6	17.8	60.1	14.6	52.6	11.7	45.1	9.10	37.6	6.85	30.1	4.93	22.5	3.34
30 °C	75.8	75.8	17.5	68.2	17.5	60.6	14.3	53.1	11.5	45.5	8.94	37.9	6.73	30.3	4.84	22.7	3.28
29 °C	76.5	76.5	17.2	68.8	17.1	61.2	14.0	53.5	11.2	45.9	8.77	38.2	6.60	30.6	4.75	22.9	3.21
27 °C	77.7	77.7	16.5	69.9	16.5	62.1	13.5	54.4	10.8	46.6	8.44	38.8	6.35	31.1	4.57	23.3	3.09
25 °C	78.8	78.8	15.9	70.9	15.8	63.0	13.0	55.1	10.4	47.3	8.10	39.4	6.10	31.5	4.39	23.6	2.97
23 °C	79.8	79.8	15.5	71.8	15.5	63.8	12.7	55.9	10.2	47.9	7.93	39.9	5.97	31.9	4.30	23.9	2.91
21 °C	80.0	80.0	15.3	72.0	15.2	64.0	12.5	56.0	10.0	48.0	7.82	40.0	5.89	32.0	4.24	24.0	2.87
20 °C	80.0	80.0	15.2	72.0	15.1	64.0	12.4	56.0	9.9	48.0	7.75	40.0	5.84	32.0	4.21	24.0	2.85
19 °C	80.0	80.0	15.0	72.0	15.0	64.0	12.3	56.0	9.9	48.0	7.69	40.0	5.80	32.0	4.18	24.0	2.84
17 °C	80.0	80.0	14.8	72.0	14.8	64.0	12.1	56.0	9.7	48.0	7.58	40.0	5.72	32.0	4.13	24.0	2.80
15 °C	80.0	80.0	14.6	72.0	14.5	64.0	11.9	56.0	9.6	48.0	7.48	40.0	5.65	32.0	4.08	24.0	2.77

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	90.0	90.0	17.8	81.0	15.1	72.0	12.6	63.0	10.4	54.0	8.57	45.0	6.99	36.0	5.70	27.0	4.70
13.0	11.8	90.0	90.0	18.6	81.0	15.7	72.0	13.1	63.0	10.8	54.0	8.83	45.0	7.16	36.0	5.81	27.0	4.76
11.0	9.8	90.0	90.0	19.4	81.0	16.3	72.0	13.6	63.0	11.2	54.0	9.12	45.0	7.36	36.0	5.93	27.0	4.82
9.0	7.9	90.0	90.0	20.3	81.0	17.0	72.0	14.2	63.0	11.6	54.0	9.42	45.0	7.57	36.0	6.06	27.0	4.89
7.0	6.0	90.0	90.0	21.2	81.0	17.8	72.0	14.8	63.0	12.1	54.0	9.8	45.0	7.79	36.0	6.20	27.0	4.96
5.0	4.1	87.1	87.1	21.1	78.4	17.7	69.7	14.7	61.0	12.0	52.3	9.7	43.6	7.75	34.8	6.16	26.1	4.93
3.0	2.2	84.2	84.2	21.0	75.8	17.6	67.4	14.6	58.9	11.9	50.5	9.64	42.1	7.71	33.7	6.13	25.3	4.90
0.0	-0.7	79.8	79.8	20.8	71.8	17.4	63.8	14.5	55.9	11.8	47.9	9.56	39.9	7.64	31.9	6.07	23.9	4.86
-3.0	-3.7	75.2	75.2	20.6	67.7	17.3	60.2	14.3	52.7	11.7	45.1	9.47	37.6	7.57	30.1	6.02	22.6	4.82
-5.0	-5.6	72.3	72.3	20.5	65.1	17.2	57.9	14.2	50.6	11.7	43.4	9.41	36.2	7.52	28.9	5.98	21.7	4.79
-7.0	-7.6	69.3	69.3	20.3	62.4	17.1	55.4	14.2	48.5	11.6	41.6	9.35	34.6	7.48	27.7	5.94	20.8	4.76
-10	-10.5	64.9	64.9	20.1	58.4	16.9	51.9	14.0	45.4	11.5	38.9	9.27	32.4	7.41	25.9	5.89	19.5	4.72
-14.5	-15.0	58.0	58.0	19.9	52.2	16.7	46.4	13.8	40.6	11.3	34.8	9.14	29.0	7.30	23.2	5.81	17.4	4.65

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

MMY-AP3016HT8P-ME (30HP, 85.0kW system)

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	33.4	33.4	13.7	30.1	11.3	26.7	9.10	23.4	7.18	20.0	5.51	16.7	4.09	-	-	-	-
48 °C	52.1	52.1	17.5	46.9	14.4	41.7	11.6	36.5	9.19	31.3	7.05	26.1	5.23	20.8	3.71	-	-
46 °C	68.5	68.5	24.1	61.7	19.9	54.8	16.0	48.0	12.7	41.1	9.72	34.3	7.21	27.4	5.12	20.6	3.46
44 °C	73.2	73.2	23.8	65.9	19.6	58.6	15.9	51.3	12.6	43.9	9.72	36.6	7.23	29.3	5.15	22.0	3.48
42 °C	76.3	76.3	23.4	68.6	19.4	61.0	15.8	53.4	12.5	45.8	9.66	38.1	7.21	30.5	5.14	22.9	3.48
40 °C	79.0	79.0	23.0	71.1	19.1	63.2	15.5	55.3	12.4	47.4	9.57	39.5	7.15	31.6	5.11	23.7	3.45
39 °C	80.3	80.3	22.8	72.3	19.0	64.3	15.5	56.2	12.3	48.2	9.57	40.2	7.16	32.1	5.13	24.1	3.46
37 °C	82.8	82.8	22.4	74.5	18.6	66.2	15.2	57.9	12.1	49.7	9.43	41.4	7.07	33.1	5.07	24.8	3.42
35 °C	85.0	85.0	22.0	76.5	18.3	68.0	15.0	59.5	12.0	51.0	9.33	42.5	7.02	34.0	5.04	25.5	3.40
33 °C	85.0	85.0	20.4	76.5	17.0	68.0	13.9	59.5	11.2	51.0	8.69	42.5	6.54	34.0	4.71	25.5	3.19
31 °C	85.0	85.0	19.0	76.5	15.8	68.0	13.0	59.5	10.4	51.0	8.11	42.5	6.12	34.0	4.41	25.5	3.00
30 °C	85.0	85.0	18.3	76.5	15.3	68.0	12.5	59.5	10.1	51.0	7.85	42.5	5.92	34.0	4.27	25.5	2.91
29 °C	85.0	85.0	17.7	76.5	14.8	68.0	12.1	59.5	9.72	51.0	7.59	42.5	5.73	34.0	4.14	25.5	2.82
27 °C	85.0	85.0	16.6	76.5	13.8	68.0	11.3	59.5	9.10	51.0	7.12	42.5	5.38	34.0	3.89	25.5	2.66
25 °C	85.0	85.0	15.5	76.5	12.9	68.0	10.6	59.5	8.53	51.0	6.68	42.5	5.05	34.0	3.66	25.5	2.51
23 °C	85.0	85.0	14.8	76.5	12.4	68.0	10.2	59.5	8.18	51.0	6.41	42.5	4.85	34.0	3.52	25.5	2.42
21 °C	85.0	85.0	14.6	76.5	12.2	68.0	10.0	59.5	8.04	51.0	6.30	42.5	4.77	34.0	3.47	25.5	2.38
20 °C	85.0	85.0	14.4	76.5	12.1	68.0	9.91	59.5	7.97	51.0	6.25	42.5	4.74	34.0	3.44	25.5	2.37
19 °C	85.0	85.0	14.3	76.5	12.0	68.0	9.83	59.5	7.91	51.0	6.20	42.5	4.70	34.0	3.42	25.5	2.36
17 °C	85.0	85.0	14.1	76.5	11.8	68.0	9.70	59.5	7.80	51.0	6.12	42.5	4.64	34.0	3.38	25.5	2.33
15 °C	85.0	85.0	13.9	76.5	11.7	68.0	9.58	59.5	7.71	51.0	6.05	42.5	4.59	34.0	3.35	25.5	2.31

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

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	30.1	30.1	13.2	27.1	13.1	24.1	10.6	21.1	8.32	18.1	6.35	15.1	4.67	-	-	-	-
48 °C	47.0	47.0	16.9	42.3	16.8	37.6	13.5	32.9	10.6	28.2	8.12	23.5	5.97	18.8	4.18	-	-
46 °C	61.8	61.8	23.3	55.6	23.2	49.4	18.7	43.2	14.7	37.1	11.2	30.9	8.23	24.7	5.77	18.5	3.82
44 °C	66.1	66.1	22.9	59.5	22.8	52.8	18.5	46.2	14.6	39.6	11.2	33.0	8.24	26.4	5.80	19.8	3.84
42 °C	68.8	68.8	22.6	61.9	22.5	55.0	18.2	48.1	14.4	41.3	11.1	34.4	8.20	27.5	5.79	20.6	3.84
40 °C	71.3	71.3	22.2	64.1	22.1	57.0	18.0	49.9	14.2	42.8	11.0	35.6	8.13	28.5	5.75	21.4	3.82
39 °C	72.4	72.4	22.0	65.2	22.0	58.0	17.9	50.7	14.2	43.5	10.9	36.2	8.13	29.0	5.76	21.7	3.83
37 °C	74.6	74.6	21.6	67.2	21.6	59.7	17.5	52.3	14.0	44.8	10.8	37.3	8.03	29.9	5.69	22.4	3.79
35 °C	76.7	76.7	21.2	69.0	21.2	61.3	17.3	53.7	13.8	46.0	10.6	38.3	7.95	30.7	5.65	23.0	3.76
33 °C	78.5	78.5	20.5	70.7	20.5	62.8	16.7	55.0	13.3	47.1	10.3	39.3	7.69	31.4	5.47	23.6	3.64
31 °C	80.2	80.2	19.8	72.2	19.7	64.1	16.1	56.1	12.8	48.1	9.94	40.1	7.42	32.1	5.28	24.1	3.51
30 °C	80.9	80.9	19.5	72.8	19.4	64.8	15.8	56.7	12.6	48.6	9.76	40.5	7.29	32.4	5.18	24.3	3.45
29 °C	81.7	81.7	19.1	73.5	19.0	65.3	15.5	57.2	12.4	49.0	9.58	40.8	7.15	32.7	5.09	24.5	3.39
27 °C	83.0	83.0	18.4	74.7	18.3	66.4	14.9	58.1	11.9	49.8	9.22	41.5	6.88	33.2	4.89	24.9	3.26
25 °C	84.3	84.3	17.6	75.8	17.6	67.4	14.3	59.0	11.4	50.6	8.85	42.1	6.61	33.7	4.70	25.3	3.13
23 °C	84.9	84.9	17.1	76.4	17.0	67.9	13.9	59.4	11.1	50.9	8.58	42.4	6.41	34.0	4.56	25.5	3.04
21 °C	85.0	85.0	16.8	76.5	16.7	68.0	13.7	59.5	10.9	51.0	8.44	42.5	6.31	34.0	4.50	25.5	3.00
20 °C	85.0	85.0	16.7	76.5	16.6	68.0	13.5	59.5	10.8	51.0	8.38	42.5	6.26	34.0	4.46	25.5	2.98
19 °C	85.0	85.0	16.5	76.5	16.5	68.0	13.4	59.5	10.7	51.0	8.31	42.5	6.21	34.0	4.43	25.5	2.96
17 °C	85.0	85.0	16.3	76.5	16.2	68.0	13.2	59.5	10.6	51.0	8.20	42.5	6.13	34.0	4.38	25.5	2.93
15 °C	85.0	85.0	16.1	76.5	16.0	68.0	13.1	59.5	10.4	51.0	8.10	42.5	6.06	34.0	4.33	25.5	2.90

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	19.4	85.5	16.4	76.0	13.7	66.5	11.3	57.0	9.25	47.5	7.51	38.0	6.09	28.5	4.99
13.0	11.8	95.0	95.0	20.2	85.5	17.0	76.0	14.2	66.5	11.7	57.0	9.53	47.5	7.70	38.0	6.21	28.5	5.05
11.0	9.8	95.0	95.0	21.1	85.5	17.8	76.0	14.8	66.5	12.1	57.0	9.85	47.5	7.92	38.0	6.34	28.5	5.12
9.0	7.9	95.0	95.0	22.1	85.5	18.5	76.0	15.4	66.5	12.6	57.0	10.2	47.5	8.15	38.0	6.48	28.5	5.20
7.0	6.0	95.0	95.0	23.1	85.5	19.4	76.0	16.0	66.5	13.1	57.0	10.5	47.5	8.39	38.0	6.64	28.5	5.28
5.0	4.1	91.8	91.8	22.9	82.6	19.2	73.4	15.9	64.2	13.0	55.1	10.5	45.9	8.34	36.7	6.59	27.5	5.24
3.0	2.2	88.5	88.5	22.8	79.7	19.1	70.8	15.8	62.0	12.9	53.1	10.4	44.3	8.28	35.4	6.55	26.6	5.21
0.0	-0.7	83.6	83.6	22.5	75.2	18.9	66.9	15.6	58.5	12.8	50.1	10.3	41.8	8.20	33.4	6.48	25.1	5.15
-3.0	-3.7	78.5	78.5	22.3	70.6	18.7	62.8	15.5	54.9	12.6	47.1	10.2	39.2	8.11	31.4	6.41	23.5	5.10
-5.0	-5.6	75.2	75.2	22.1	67.7	18.6	60.2	15.4	52.7	12.6	45.1	10.1	37.6	8.05	30.1	6.37	22.6	5.06
-7.0	-7.6	71.8	71.8	22.0	64.6	18.4	57.5	15.3	50.3	12.5	43.1	10.0	35.9	7.99	28.7	6.32	21.5	5.03
-10	-10.5	66.9	66.9	21.7	60.2	18.2	53.5	15.1	46.8	12.3	40.1	9.93	33.4	7.90	26.8	6.25	20.1	4.97
-14.5	-15.0	59.2	59.2	21.4	53.3	17.9	47.4	14.8	41.5	12.1	35.5	9.76	29.6	7.77	23.7	6.15	17.8	4.89

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

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

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	11.7	11.7	5.62	10.5	4.66	9.4	3.81	8.2	3.07	7.0	2.43	-	-	-	-	-	-
48 °C	19.6	19.6	6.47	17.6	5.37	15.7	4.39	13.7	3.53	11.8	2.80	9.8	2.18	7.84	1.69	-	-
46 °C	20.3	20.3	6.54	18.3	5.43	16.2	4.44	14.2	3.57	12.2	2.83	10.2	2.21	8.12	1.71	6.09	1.33
44 °C	20.7	20.7	6.21	18.6	5.16	16.6	4.22	14.5	3.39	12.4	2.69	10.3	2.10	8.28	1.62	6.21	1.27
42 °C	21.1	21.1	5.89	19.0	4.89	16.8	4.00	14.7	3.22	12.6	2.55	10.5	1.99	8.42	1.54	6.32	1.20
40 °C	21.4	21.4	5.58	19.3	4.63	17.1	3.79	15.0	3.05	12.9	2.42	10.7	1.89	8.57	1.46	6.43	1.14
39 °C	21.6	21.6	5.43	19.5	4.51	17.3	3.69	15.1	2.97	13.0	2.35	10.8	1.83	8.65	1.42	6.49	1.11
37 °C	22.0	22.0	5.13	19.8	4.26	17.6	3.48	15.4	2.80	13.2	2.22	11.0	1.73	8.80	1.34	6.60	1.05
35 °C	22.4	22.4	4.84	20.1	4.04	17.9	3.33	15.7	2.70	13.4	2.15	11.2	1.69	8.95	1.32	6.71	1.03
32 °C	22.4	22.4	4.55	20.2	3.81	17.9	3.14	15.7	2.55	13.4	2.04	11.2	1.61	8.96	1.25	6.72	0.98
31 °C	22.4	22.4	4.28	20.2	3.58	17.9	2.95	15.7	2.40	13.4	1.92	11.2	1.52	8.96	1.19	6.72	0.94
30 °C	22.4	22.4	4.14	20.2	3.46	17.9	2.86	15.7	2.33	13.4	1.87	11.2	1.48	8.96	1.16	6.72	0.91
29 °C	22.4	22.4	4.01	20.2	3.36	17.9	2.77	15.7	2.26	13.4	1.81	11.2	1.44	8.96	1.13	6.72	0.89
27 °C	22.4	22.4	3.75	20.2	3.14	17.9	2.60	15.7	2.12	13.4	1.71	11.2	1.36	8.96	1.07	6.72	0.85
25 °C	22.4	22.4	3.51	20.2	2.94	17.9	2.44	15.7	1.99	13.4	1.60	11.2	1.28	8.96	1.01	6.72	0.81
23 °C	22.4	22.4	3.35	20.2	2.45	17.9	2.04	15.7	1.94	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
21 °C	22.4	22.4	3.28	20.2	2.45	17.9	2.04	15.7	1.95	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
20 °C	22.4	22.4	3.24	20.2	2.45	17.9	2.04	15.7	1.95	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
19 °C	22.4	22.4	3.21	20.2	2.45	17.9	2.04	15.7	1.95	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
17 °C	22.4	22.4	3.15	20.2	2.45	17.9	2.04	15.7	1.96	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79
15 °C	22.4	22.4	3.10	20.2	2.45	17.9	2.04	15.7	1.97	13.4	1.60	11.2	1.27	8.96	0.99	6.72	0.79

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	31.7	31.7	13.2	28.6	13.2	25.4	10.6	22.2	8.30	19.0	6.31	15.9	4.61	-	-	-	-
48 °C	49.1	49.1	18.4	44.2	18.3	39.3	14.7	34.3	11.5	29.4	8.75	24.5	6.39	19.6	4.44	-	-
46 °C	64.9	64.9	24.1	58.4	24.0	52.0	19.3	45.5	15.1	39.0	11.5	32.5	8.40	26.0	5.84	19.5	3.81
44 °C	68.5	68.5	24.1	61.7	24.0	54.8	19.3	48.0	15.2	41.1	11.6	34.3	8.53	27.4	5.95	20.6	3.89
42 °C	71.8	71.8	24.0	64.6	23.9	57.4	19.3	50.3	15.2	43.1	11.6	35.9	8.57	28.7	5.99	21.5	3.92
40 °C	74.8	74.8	23.8	67.3	23.8	59.8	19.2	52.4	15.2	44.9	11.7	37.4	8.59	29.9	6.02	22.4	3.95
39 °C	76.2	76.2	23.8	68.6	23.7	61.0	19.2	53.3	15.3	45.7	11.8	38.1	8.71	30.5	6.14	22.9	4.03
37 °C	78.8	78.8	23.6	70.9	23.5	63.0	19.1	55.2	15.1	47.3	11.7	39.4	8.64	31.5	6.09	23.6	3.99
35 °C	81.2	81.2	23.4	73.1	23.3	64.9	18.9	56.8	15.0	48.7	11.6	40.6	8.56	32.5	6.03	24.4	3.96
33 °C	83.3	83.3	22.6	75.0	22.5	66.6	18.3	58.3	14.5	50.0	11.2	41.6	8.28	33.3	5.83	25.0	3.83
31 °C	85.2	85.2	21.8	76.7	21.7	68.2	17.6	59.6	14.0	51.1	10.8	42.6	7.99	34.1	5.63	25.6	3.69
30 °C	86.1	86.1	21.4	77.5	21.3	68.9	17.3	60.3	13.8	51.6	10.6	43.0	7.85	34.4	5.53	25.8	3.63
29 °C	86.9	86.9	21.0	78.2	20.9	69.5	17.0	60.8	13.5	52.1	10.4	43.5	7.70	34.8	5.42	26.1	3.56
27 °C	88.4	88.4	20.2	79.6	20.1	70.7	16.4	61.9	13.0	53.0	10.0	44.2	7.41	35.4	5.22	26.5	3.42
25 °C	89.7	89.7	19.4	80.8	19.3	71.8	15.7	62.8	12.5	53.8	9.60	44.9	7.11	35.9	5.01	26.9	3.29
23 °C	90.0	90.0	18.7	81.0	18.6	72.0	15.1	63.0	12.0	54.0	9.24	45.0	6.85	36.0	4.83	27.0	3.17
21 °C	90.0	90.0	18.3	81.0	18.2	72.0	14.8	63.0	11.8	54.0	9.07	45.0	6.73	36.0	4.75	27.0	3.13
20 °C	90.0	90.0	18.1	81.0	18.1	72.0	14.7	63.0	11.7	54.0	9.00	45.0	6.68	36.0	4.71	27.0	3.10
19 °C	90.0	90.0	18.0	81.0	17.9	72.0	14.6	63.0	11.6	54.0	8.93	45.0	6.63	36.0	4.68	27.0	3.08
17 °C	90.0	90.0	17.7	81.0	17.7	72.0	14.4	63.0	11.4	54.0	8.81	45.0	6.55	36.0	4.62	27.0	3.05
15 °C	90.0	90.0	17.5	81.0	17.5	72.0	14.2	63.0	11.3	54.0	8.71	45.0	6.48	36.0	4.58	27.0	3.02

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
Dry-Bulb (°C)	Wet-Bulb (°C)		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
15.0	13.7	100.0	100.0	21.0	90.0	17.7	80.0	14.7	70.0	12.2	60.0	9.92	50.0	8.03	40.0	6.48	30.0	5.28
13.0	11.8	100.0	100.0	21.8	90.0	18.4	80.0	15.3	70.0	12.6	60.0	10.2	50.0	8.23	40.0	6.61	30.0	5.35
11.0	9.8	100.0	100.0	22.8	90.0	19.2	80.0	15.9	70.0	13.1	60.0	10.6	50.0	8.47	40.0	6.76	30.0	5.43
9.0	7.9	100.0	100.0	23.9	90.0	20.0	80.0	16.6	70.0	13.6	60.0	10.9	50.0	8.72	40.0	6.91	30.0	5.51
7.0	6.0	100.0	100.0	25.0	90.0	20.9	80.0	17.3	70.0	14.1	60.0	11.3	50.0	8.99	40.0	7.08	30.0	5.60
5.0	4.1	96.4	96.4	24.8	86.8	20.8	77.1	17.2	67.5	14.0	57.9	11.2	48.2	8.93	38.6	7.03	28.9	5.56
3.0	2.2	92.8	92.8	24.6	83.6	20.6	74.3	17.0	65.0	13.9	55.7	11.2	46.4	8.86	37.1	6.97	27.9	5.51
0.0	-0.7	87.4	87.4	24.3	78.6	20.4	69.9	16.8	61.2	13.7	52.4	11.0	43.7	8.75	34.9	6.89	26.2	5.45
-3.0	-3.7	81.7	81.7	24.0	73.5	20.1	65.4	16.6	57.2	13.6	49.0	10.9	40.9	8.65	32.7	6.81	24.5	5.38
-5.0	-5.6	78.1	78.1	23.8	70.3	20.0	62.5	16.5	54.7	13.5	46.9	10.8	39.1	8.58	31.3	6.75	23.4	5.34
-7.0	-7.6	74.4	74.4	23.6	66.9	19.8	59.5	16.4	52.1	13.3	44.6	10.7	37.2	8.50	29.7	6.70	22.3	5.29
-10	-10.5	68.9	68.9	23.3	62.0	19.6	55.1	16.2	48.2	13.2	41.3	10.6	34.5	8.40	27.6	6.61	20.7	5.23
-14.5	-15.0	60.4	60.4	22.9	54.4	19.2	48.3	15.9	42.3	12.9	36.3	10.4	30.2	8.24	24.2	6.49	18.1	5.13

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

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

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	38.7	38.7	14.8	34.8	12.3	31.0	10.0	27.1	7.98	23.2	6.18	-	-	-	-	-	-
48 °C	62.4	62.4	20.2	56.2	16.8	49.9	13.6	43.7	10.9	37.4	8.40	31.2	6.29	25.0	4.51	-	-
46 °C	78.8	78.8	26.7	70.9	22.1	63.0	18.0	55.2	14.3	47.3	11.1	39.4	8.31	31.5	5.95	23.6	4.04
44 °C	82.4	82.4	26.3	74.2	21.9	65.9	17.9	57.7	14.3	49.4	11.1	41.2	8.35	33.0	6.00	24.7	4.07
42 °C	85.7	85.7	25.9	77.2	21.6	68.6	17.7	60.0	14.1	51.4	11.0	42.9	8.29	34.3	5.97	25.7	4.04
40 °C	88.8	88.8	25.5	79.9	21.3	71.0	17.5	62.2	14.0	53.3	11.0	44.4	8.27	35.5	5.96	26.6	4.04
39 °C	90.2	90.2	25.3	81.2	21.2	72.2	17.4	63.2	14.0	54.1	10.9	45.1	8.27	36.1	5.97	27.1	4.05
37 °C	92.9	92.9	24.9	83.6	20.8	74.3	17.1	65.0	13.8	55.8	10.8	46.5	8.16	37.2	5.89	27.9	3.99
35 °C	95.4	95.4	24.4	85.9	20.4	76.3	16.8	66.8	13.6	57.2	10.6	47.7	8.05	38.2	5.83	28.6	3.95
33 °C	95.4	95.4	22.7	85.9	19.0	76.3	15.7	66.8	12.6	57.2	9.91	47.7	7.52	38.2	5.45	28.6	3.70
31 °C	95.4	95.4	21.1	85.9	17.7	76.3	14.6	66.8	11.8	57.2	9.27	47.7	7.04	38.2	5.11	28.6	3.48
30 °C	95.4	95.4	20.4	85.9	17.1	76.3	14.1	66.8	11.4	57.2	8.97	47.7	6.82	38.2	4.95	28.6	3.38
29 °C	95.4	95.4	19.7	85.9	16.6	76.3	13.7	66.8	11.0	57.2	8.68	47.7	6.60	38.2	4.80	28.6	3.28
27 °C	95.4	95.4	18.5	85.9	15.5	76.3	12.8	66.8	10.3	57.2	8.14	47.7	6.20	38.2	4.51	28.6	3.09
25 °C	95.4	95.4	17.3	85.9	14.5	76.3	12.0	66.8	9.70	57.2	7.64	47.7	5.83	38.2	4.25	28.6	2.91
23 °C	95.4	95.4	16.6	85.9	13.9	76.3	11.5	66.8	9.31	57.2	7.34	47.7	5.60	38.2	4.09	28.6	2.80
21 °C	95.4	95.4	16.3	85.9	13.7	76.3	11.3	66.8	9.15	57.2	7.22	47.7	5.51	38.2	4.02	28.6	2.76
20 °C	95.4	95.4	16.1	85.9	13.6	76.3	11.2	66.8	9.07	57.2	7.16	47.7	5.47	38.2	4.00	28.6	2.75
19 °C	95.4	95.4	16.0	85.9	13.5	76.3	11.1	66.8	9.01	57.2	7.11	47.7	5.43	38.2	3.97	28.6	2.73
17 °C	95.4	95.4	15.8	85.9	13.3	76.3	11.0	66.8	8.89	57.2	7.02	47.7	5.36	38.2	3.92	28.6	2.70
15 °C	95.4	95.4	15.6	85.9	13.1	76.3	10.8	66.8	8.78	57.2	6.94	47.7	5.30	38.2	3.88	28.6	2.68

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

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	34.9	34.9	14.3	31.4	13.0	27.9	10.6	24.4	8.40	20.9	6.48	-	-	-	-	-	-
48 °C	56.3	56.3	19.5	50.7	17.8	45.0	14.4	39.4	11.5	33.8	8.83	28.1	6.58	22.5	4.68	-	-
46 °C	71.1	71.1	25.8	64.0	23.5	56.9	19.1	49.8	15.1	42.6	11.7	35.5	8.69	28.4	6.18	21.3	4.15
44 °C	74.3	74.3	25.4	66.9	23.2	59.5	18.9	52.0	15.1	44.6	11.7	37.2	8.72	29.7	6.23	22.3	4.18
42 °C	77.3	77.3	25.0	69.6	22.9	61.9	18.7	54.1	14.9	46.4	11.6	38.7	8.67	30.9	6.20	23.2	4.16
40 °C	80.1	80.1	24.6	72.1	22.6	64.1	18.5	56.1	14.8	48.0	11.5	40.0	8.65	32.0	6.20	24.0	4.16
39 °C	81.4	81.4	24.4	73.2	22.4	65.1	18.4	57.0	14.7	48.8	11.5	40.7	8.65	32.6	6.21	24.4	4.17
37 °C	83.8	83.8	24.0	75.4	22.0	67.0	18.1	58.7	14.5	50.3	11.3	41.9	8.53	33.5	6.13	25.1	4.12
35 °C	86.0	86.0	23.5	77.4	21.7	68.8	17.8	60.2	14.3	51.6	11.2	43.0	8.43	34.4	6.06	25.8	4.07
33 °C	88.1	88.1	22.8	79.3	20.9	70.5	17.2	61.7	13.8	52.8	10.8	44.0	8.15	35.2	5.86	26.4	3.94
31 °C	89.9	89.9	22.0	80.9	20.2	72.0	16.6	63.0	13.3	54.0	10.43	45.0	7.87	36.0	5.66	27.0	3.80
30 °C	90.8	90.8	21.6	81.7	19.9	72.6	16.3	63.6	13.1	54.5	10.24	45.4	7.72	36.3	5.55	27.2	3.73
29 °C	91.6	91.6	21.2	82.5	19.5	73.3	16.0	64.1	12.9	55.0	10.05	45.8	7.58	36.6	5.45	27.5	3.66
27 °C	93.1	93.1	20.4	83.8	18.7	74.5	15.4	65.2	12.4	55.9	9.67	46.6	7.29	37.3	5.24	27.9	3.52
25 °C	94.5	94.5	19.6	85.1	18.0	75.6	14.8	66.2	11.9	56.7	9.28	47.3	7.00	37.8	5.03	28.4	3.38
23 °C	95.3	95.3	19.0	85.7	17.5	76.2	14.3	66.7	11.5	57.2	9.01	47.6	6.80	38.1	4.89	28.6	3.29
21 °C	95.4	95.4	18.7	85.9	17.2	76.3	14.1	66.8	11.3	57.2	8.87	47.7	6.70	38.2	4.82	28.6	3.25
20 °C	95.4	95.4	18.5	85.9	17.0	76.3	14.0	66.8	11.2	57.2	8.80	47.7	6.64	38.2	4.79	28.6	3.22
19 °C	95.4	95.4	18.4	85.9	16.9	76.3	13.9	66.8	11.2	57.2	8.73	47.7	6.60	38.2	4.75	28.6	3.20
17 °C	95.4	95.4	18.1	85.9	16.6	76.3	13.7	66.8	11.0	57.2	8.62	47.7	6.51	38.2	4.70	28.6	3.17
15 °C	95.4	95.4	17.9	85.9	16.4	76.3	13.5	66.8	10.9	57.2	8.52	47.7	6.44	38.2	4.65	28.6	3.14

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	22.1	95.4	18.8	84.8	15.8	74.2	13.1	63.6	10.7	53.0	8.64	42.4	6.85	31.8	5.36
13.0	11.8	106.0	106.0	23.0	95.4	19.5	84.8	16.4	74.2	13.6	63.6	11.1	53.0	8.88	42.4	7.01	31.8	5.45
11.0	9.8	106.0	106.0	24.0	95.4	20.3	84.8	17.0	74.2	14.1	63.6	11.4	53.0	9.15	42.4	7.18	31.8	5.55
9.0	7.9	106.0	106.0	25.0	95.4	21.2	84.8	17.7	74.2	14.6	63.6	11.8	53.0	9.43	42.4	7.37	31.8	5.66
7.0	6.0	106.0	106.0	26.1	95.4	22.1	84.8	18.4	74.2	15.2	63.6	12.3	53.0	9.73	42.4	7.57	31.8	5.78
5.0	4.1	102.4	102.4	25.9	92.2	21.9	81.9	18.3	71.7	15.1	61.4	12.2	51.2	9.66	41.0	7.52	30.7	5.74
3.0	2.2	98.8	98.8	25.7	88.9	21.8	79.1	18.2	69.2	15.0	59.3	12.1	49.4	9.60	39.5	7.47	29.6	5.70
0.0	-0.7	93.3	93.3	25.5	84.0	21.6	74.7	18.0	65.3	14.8	56.0	12.0	46.7	9.50	37.3	7.39	28.0	5.65
-3.0	-3.7	87.7	87.7	25.2	78.9	21.3	70.1	17.8	61.4	14.6	52.6	11.8	43.8	9.40	35.1	7.31	26.3	5.59
-5.0	-5.6	84.1	84.1	25.0	75.7	21.2	67.3	17.7	58.9	14.5	50.4	11.8	42.0	9.33	33.6	7.26	25.2	5.55
-7.0	-7.6	80.3	80.3	24.9	72.3	21.0	64.2	17.6	56.2	14.4	48.2	11.7	40.1	9.27	32.1	7.21	24.1	5.51
-10	-10.5	74.8	74.8	24.6	67.3	20.8	59.8	17.4	52.4	14.3	44.9	11.6	37.4	9.17	29.9	7.13	22.4	5.45
-14.5	-15.0	66.3	66.3	24.2	59.7	20.5	53.0	17.1	46.4	14.1	39.8	11.4	33.2	9.02	26.5	7.02	19.9	5.36

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

MMY-AP3616HT8P-ME (36HP, 100.8kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	42.2	42.2	16.0	38.0	13.4	33.8	11.0	29.5	8.81	25.3	6.90	-	-	-	-	-	-
48 °C	70.4	70.4	21.4	63.4	17.9	56.3	14.7	49.3	11.8	42.2	9.23	35.2	7.00	28.2	5.09	-	-
46 °C	85.6	85.6	28.4	77.0	23.7	68.5	19.5	59.9	15.6	51.4	12.3	42.8	9.29	34.2	6.75	25.7	4.65
44 °C	88.9	88.9	27.7	80.0	23.2	71.1	19.1	62.2	15.4	53.3	12.1	44.4	9.24	35.5	6.74	26.7	4.63
42 °C	91.9	91.9	27.0	82.7	22.7	73.5	18.7	64.3	15.1	55.1	11.9	45.9	9.08	36.7	6.63	27.6	4.56
40 °C	94.6	94.6	26.4	85.2	22.2	75.7	18.4	66.2	14.9	56.8	11.8	47.3	9.01	37.9	6.59	28.4	4.53
39 °C	96.0	96.0	26.0	86.4	21.9	76.8	18.1	67.2	14.7	57.6	11.6	48.0	8.89	38.4	6.51	28.8	4.47
37 °C	98.5	98.5	25.3	88.6	21.3	78.8	17.7	68.9	14.4	59.1	11.4	49.2	8.72	39.4	6.39	29.5	4.40
35 °C	100.8	100.8	24.6	90.7	20.8	80.6	17.3	70.6	14.1	60.5	11.2	50.4	8.59	40.3	6.31	30.2	4.34
33 °C	100.8	100.8	23.0	90.7	19.4	80.6	16.2	70.6	13.2	60.5	10.5	50.4	8.06	40.3	5.93	30.2	4.08
31 °C	100.8	100.8	21.5	90.7	18.2	80.6	15.1	70.6	12.4	60.5	9.83	50.4	7.57	40.3	5.58	30.2	3.85
30 °C	100.8	100.8	20.8	90.7	17.6	80.6	14.7	70.6	12.0	60.5	9.53	50.4	7.34	40.3	5.41	30.2	3.74
29 °C	100.8	100.8	20.2	90.7	17.1	80.6	14.2	70.6	11.6	60.5	9.24	50.4	7.12	40.3	5.25	30.2	3.63
27 °C	100.8	100.8	18.9	90.7	16.0	80.6	13.3	70.6	10.9	60.5	8.69	50.4	6.70	40.3	4.95	30.2	3.42
25 °C	100.8	100.8	17.7	90.7	15.0	80.6	12.5	70.6	10.2	60.5	8.17	50.4	6.31	40.3	4.66	30.2	3.23
23 °C	100.8	100.8	17.0	90.7	14.4	80.6	12.0	70.6	9.8	60.5	7.85	50.4	6.07	40.3	4.49	30.2	3.11
21 °C	100.8	100.8	16.7	90.7	14.2	80.6	11.8	70.6	9.67	60.5	7.72	50.4	5.97	40.3	4.42	30.2	3.07
20 °C	100.8	100.8	16.6	90.7	14.1	80.6	11.7	70.6	9.60	60.5	7.66	50.4	5.93	40.3	4.39	30.2	3.05
19 °C	100.8	100.8	16.4	90.7	13.9	80.6	11.6	70.6	9.53	60.5	7.61	50.4	5.89	40.3	4.36	30.2	3.03
17 °C	100.8	100.8	16.2	90.7	13.8	80.6	11.5	70.6	9.40	60.5	7.51	50.4	5.81	40.3	4.31	30.2	3.00
15 °C	100.8	100.8	16.0	90.7	13.6	80.6	11.3	70.6	9.29	60.5	7.42	50.4	5.75	40.3	4.26	30.2	2.97

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	38.1	38.1	15.4	34.3	12.9	30.4	10.6	26.6	8.51	22.8	6.66	-	-	-	-	-	-
48 °C	63.5	63.5	20.7	57.1	17.2	50.8	14.2	44.4	11.4	38.1	8.91	31.7	6.76	25.4	4.91	-	-
46 °C	77.2	77.2	27.4	69.5	22.9	61.8	18.8	54.0	15.1	46.3	11.8	38.6	8.97	30.9	6.52	23.2	4.49
44 °C	80.2	80.2	26.8	72.1	22.4	64.1	18.5	56.1	14.9	48.1	11.7	40.1	8.92	32.1	6.50	24.0	4.47
42 °C	82.8	82.8	26.1	74.6	21.9	66.3	18.1	58.0	14.6	49.7	11.5	41.4	8.77	33.1	6.40	24.9	4.40
40 °C	85.4	85.4	25.4	76.8	21.4	68.3	17.7	59.8	14.4	51.2	11.4	42.7	8.70	34.1	6.37	25.6	4.38
39 °C	86.6	86.6	25.1	77.9	21.1	69.2	17.5	60.6	14.2	51.9	11.2	43.3	8.58	34.6	6.28	26.0	4.32
37 °C	88.8	88.8	24.4	79.9	20.6	71.1	17.1	62.2	13.9	53.3	11.0	44.4	8.42	35.5	6.17	26.6	4.24
35 °C	90.9	90.9	23.7	81.8	20.1	72.7	16.7	63.6	13.6	54.6	10.8	45.5	8.29	36.4	6.09	27.3	4.19
33 °C	92.9	92.9	23.0	83.6	19.4	74.3	16.1	65.0	13.1	55.7	10.4	46.4	8.02	37.1	5.89	27.9	4.05
31 °C	94.7	94.7	22.2	85.2	18.7	75.7	15.6	66.3	12.7	56.8	10.1	47.3	7.74	37.9	5.68	28.4	3.91
30 °C	95.5	95.5	21.8	86.0	18.4	76.4	15.3	66.9	12.5	57.3	9.89	47.8	7.60	38.2	5.58	28.7	3.84
29 °C	96.3	96.3	21.4	86.7	18.0	77.1	15.0	67.4	12.2	57.8	9.71	48.2	7.46	38.5	5.48	28.9	3.77
27 °C	97.9	97.9	20.5	88.1	17.4	78.3	14.4	68.5	11.8	58.7	9.34	48.9	7.18	39.1	5.27	29.4	3.62
25 °C	99.3	99.3	19.7	89.3	16.7	79.4	13.9	69.5	11.3	59.6	8.97	49.6	6.89	39.7	5.06	29.8	3.48
23 °C	100.5	100.5	19.3	90.5	16.3	80.4	13.6	70.4	11.1	60.3	8.78	50.3	6.74	40.2	4.95	30.2	3.40
21 °C	100.8	100.8	19.0	90.7	16.1	80.6	13.4	70.6	10.9	60.5	8.66	50.4	6.66	40.3	4.89	30.2	3.37
20 °C	100.8	100.8	18.9	90.7	16.0	80.6	13.3	70.6	10.8	60.5	8.60	50.4	6.61	40.3	4.86	30.2	3.34
19 °C	100.8	100.8	18.7	90.7	15.8	80.6	13.2	70.6	10.7	60.5	8.53	50.4	6.56	40.3	4.83	30.2	3.32
17 °C	100.8	100.8	18.4	90.7	15.6	80.6	13.0	70.6	10.6	60.5	8.42	50.4	6.48	40.3	4.77	30.2	3.29
15 °C	100.8	100.8	18.2	90.7	15.4	80.6	12.8	70.6	10.5	60.5	8.32	50.4	6.40	40.3	4.72	30.2	3.25

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	112.0	112.0	23.3	100.8	20.0	89.6	16.9	78.4	14.1	67.2	11.6	56.0	9.26	44.8	7.22	33.6	5.43
13.0	11.8	112.0	112.0	24.1	100.8	20.7	89.6	17.5	78.4	14.6	67.2	11.9	56.0	9.52	44.8	7.40	33.6	5.55
11.0	9.8	112.0	112.0	25.1	100.8	21.5	89.6	18.1	78.4	15.1	67.2	12.3	56.0	9.82	44.8	7.61	33.6	5.68
9.0	7.9	112.0	112.0	26.1	100.8	22.3	89.6	18.8	78.4	15.6	67.2	12.7	56.0	10.1	44.8	7.82	33.6	5.82
7.0	6.0	112.0	112.0	27.2	100.8	23.2	89.6	19.6	78.4	16.2	67.2	13.2	56.0	10.5	44.8	8.05	33.6	5.96
5.0	4.1	108.4	108.4	27.0	97.6	23.1	86.7	19.4	75.9	16.1	65.0	13.1	54.2	10.4	43.4	8.01	32.5	5.93
3.0	2.2	104.8	104.8	26.9	94.3	22.9	83.8	19.3	73.4	16.0	62.9	13.0	52.4	10.3	41.9	7.96	31.4	5.90
0.0	-0.7	99.3	99.3	26.6	89.4	22.7	79.4	19.2	69.5	15.9	59.6	12.9	49.6	10.2	39.7	7.89	29.8	5.84
-3.0	-3.7	93.6	93.6	26.4	84.2	22.5	74.9	19.0	65.5	15.7	56.2	12.8	46.8	10.2	37.4	7.82	28.1	5.79
-5.0	-5.6	90.0	90.0	26.2	81.0	22.4	72.0	18.9	63.0	15.6	54.0	12.7	45.0	10.1	36.0	7.77	27.0	5.76
-7.0	-7.6	86.2	86.2	26.1	77.6	22.3	69.0	18.8	60.4	15.5	51.7	12.6	43.1	10.0	34.5	7.72	25.9	5.72
-10	-10.5	80.7	80.7	25.8	72.6	22.1	64.6	18.6	56.5	15.4	48.4	12.5	40.4	9.94	32.3	7.65	24.2	5.67
-14.5	-15.0	72.2	72.2	25.5	65.0	21.7	57.8	18.3	50.5	15.2	43.3	12.3	36.1	9.80	28.9	7.55	21.7	5.59

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

MMY-AP3816HT8P-ME (38HP, 106.4kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	47.5	47.5	16.7	42.8	13.7	38.0	11.1	33.3	8.80	28.5	6.78	-	-	-	-	-	-
48 °C	74.7	74.7	23.3	67.2	19.2	59.8	15.5	52.3	12.3	44.8	9.46	37.4	7.04	29.9	5.05	-	-
46 °C	87.6	87.6	29.0	78.8	23.9	70.1	19.4	61.3	15.3	52.6	11.8	43.8	8.80	35.0	6.31	26.3	4.34
44 °C	91.7	91.7	28.9	82.5	23.9	73.4	19.4	64.2	15.5	55.0	12.0	45.9	8.96	36.7	6.45	27.5	4.43
42 °C	95.5	95.5	28.7	85.9	23.8	76.4	19.4	66.8	15.5	57.3	12.0	47.7	9.00	38.2	6.48	28.6	4.45
40 °C	98.9	98.9	28.5	89.0	23.7	79.1	19.3	69.2	15.4	59.4	12.0	49.5	9.03	39.6	6.51	29.7	4.47
39 °C	100.6	100.6	28.4	90.5	23.6	80.4	19.3	70.4	15.4	60.3	12.0	50.3	9.02	40.2	6.51	30.2	4.46
37 °C	103.6	103.6	28.1	93.2	23.4	82.9	19.1	72.5	15.3	62.2	12.0	51.8	9.01	41.4	6.52	31.1	4.46
35 °C	106.4	106.4	27.7	95.8	23.2	85.1	19.0	74.5	15.3	63.8	12.0	53.2	9.04	42.6	6.55	31.9	4.48
33 °C	106.4	106.4	25.7	95.8	21.5	85.1	17.7	74.5	14.2	63.8	11.1	53.2	8.44	42.6	6.13	31.9	4.21
31 °C	106.4	106.4	24.0	95.8	20.1	85.1	16.5	74.5	13.3	63.8	10.4	53.2	7.89	42.6	5.75	31.9	3.96
30 °C	106.4	106.4	23.2	95.8	19.4	85.1	15.9	74.5	12.8	63.8	10.1	53.2	7.64	42.6	5.57	31.9	3.84
29 °C	106.4	106.4	22.4	95.8	18.7	85.1	15.4	74.5	12.4	63.8	9.7	53.2	7.40	42.6	5.40	31.9	3.73
27 °C	106.4	106.4	20.9	95.8	17.5	85.1	14.4	74.5	11.6	63.8	9.13	53.2	6.95	42.6	5.08	31.9	3.52
25 °C	106.4	106.4	19.6	95.8	16.4	85.1	13.5	74.5	10.9	63.8	8.57	53.2	6.53	42.6	4.78	31.9	3.32
23 °C	106.4	106.4	18.8	95.8	15.7	85.1	13.0	74.5	10.5	63.8	8.23	53.2	6.28	42.6	4.60	31.9	3.20
21 °C	106.4	106.4	18.4	95.8	15.4	85.1	12.7	74.5	10.3	63.8	8.09	53.2	6.18	42.6	4.53	31.9	3.16
20 °C	106.4	106.4	18.3	95.8	15.3	85.1	12.6	74.5	10.2	63.8	8.03	53.2	6.13	42.6	4.50	31.9	3.14
19 °C	106.4	106.4	18.1	95.8	15.2	85.1	12.5	74.5	10.1	63.8	7.97	53.2	6.09	42.6	4.47	31.9	3.12
17 °C	106.4	106.4	17.9	95.8	15.0	85.1	12.4	74.5	10.0	63.8	7.87	53.2	6.02	42.6	4.42	31.9	3.09
15 °C	106.4	106.4	17.6	95.8	14.8	85.1	12.2	74.5	9.9	63.8	7.78	53.2	5.95	42.6	4.38	31.9	3.06

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	42.8	42.8	16.1	38.6	13.3	34.3	10.7	30.0	8.50	25.7	6.54	-	-	-	-	-	-
48 °C	67.4	67.4	22.5	60.6	18.6	53.9	15.0	47.2	11.9	40.4	9.13	33.7	6.80	27.0	4.87	-	-
46 °C	79.0	79.0	28.0	71.1	23.1	63.2	18.7	55.3	14.8	47.4	11.4	39.5	8.50	31.6	6.09	23.7	4.19
44 °C	82.7	82.7	27.9	74.4	23.1	66.2	18.8	57.9	14.9	49.6	11.6	41.4	8.65	33.1	6.23	24.8	4.28
42 °C	86.1	86.1	27.7	77.5	23.0	68.9	18.7	60.3	14.9	51.7	11.6	43.0	8.69	34.4	6.26	25.8	4.29
40 °C	89.2	89.2	27.5	80.3	22.9	71.4	18.7	62.5	14.9	53.5	11.6	44.6	8.71	35.7	6.29	26.8	4.31
39 °C	90.7	90.7	27.4	81.6	22.8	72.6	18.6	63.5	14.9	54.4	11.6	45.3	8.71	36.3	6.29	27.2	4.31
37 °C	93.4	93.4	27.1	84.1	22.6	74.8	18.5	65.4	14.8	56.1	11.5	46.7	8.70	37.4	6.29	28.0	4.31
35 °C	96.0	96.0	26.8	86.4	22.4	76.8	18.4	67.2	14.8	57.6	11.5	48.0	8.73	38.4	6.32	28.8	4.33
33 °C	98.3	98.3	25.9	88.4	21.6	78.6	17.8	68.8	14.3	59.0	11.2	49.1	8.44	39.3	6.11	29.5	4.18
31 °C	100.4	100.4	25.0	90.3	20.9	80.3	17.1	70.2	13.8	60.2	10.8	50.2	8.15	40.1	5.90	30.1	4.04
30 °C	101.3	101.3	24.6	91.2	20.5	81.1	16.8	70.9	13.5	60.8	10.6	50.7	8.00	40.5	5.80	30.4	3.97
29 °C	102.2	102.2	24.1	92.0	20.1	81.8	16.5	71.6	13.3	61.3	10.4	51.1	7.85	40.9	5.69	30.7	3.89
27 °C	103.9	103.9	23.2	93.5	19.4	83.2	15.9	72.8	12.8	62.4	10.0	52.0	7.55	41.6	5.47	31.2	3.74
25 °C	105.5	105.5	22.3	94.9	18.6	84.4	15.3	73.8	12.3	63.3	9.6	52.7	7.25	42.2	5.25	31.6	3.59
23 °C	106.3	106.3	21.6	95.6	18.0	85.0	14.8	74.4	11.9	63.8	9.3	53.1	7.04	42.5	5.10	31.9	3.50
21 °C	106.4	106.4	21.2	95.8	17.7	85.1	14.6	74.5	11.7	63.8	9.16	53.2	6.94	42.6	5.03	31.9	3.45
20 °C	106.4	106.4	21.0	95.8	17.6	85.1	14.4	74.5	11.6	63.8	9.09	53.2	6.88	42.6	5.00	31.9	3.43
19 °C	106.4	106.4	20.8	95.8	17.4	85.1	14.3	74.5	11.5	63.8	9.02	53.2	6.84	42.6	4.97	31.9	3.41
17 °C	106.4	106.4	20.5	95.8	17.2	85.1	14.1	74.5	11.4	63.8	8.90	53.2	6.75	42.6	4.91	31.9	3.38
15 °C	106.4	106.4	20.3	95.8	17.0	85.1	13.9	74.5	11.2	63.8	8.80	53.2	6.68	42.6	4.86	31.9	3.35

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	119.0	119.0	25.8	107.1	22.1	95.2	18.7	83.3	15.5	71.4	12.7	59.5	10.1	47.6	7.81	35.7	5.78
13.0	11.8	119.0	119.0	26.7	107.1	22.9	95.2	19.3	83.3	16.1	71.4	13.1	59.5	10.4	47.6	8.02	35.7	5.92
11.0	9.8	119.0	119.0	27.8	107.1	23.8	95.2	20.1	83.3	16.7	71.4	13.5	59.5	10.8	47.6	8.26	35.7	6.07
9.0	7.9	119.0	119.0	28.9	107.1	24.7	95.2	20.8	83.3	17.3	71.4	14.0	59.5	11.1	47.6	8.50	35.7	6.23
7.0	6.0	119.0	119.0	30.1	107.1	25.7	95.2	21.6	83.3	17.9	71.4	14.5	59.5	11.5	47.6	8.76	35.7	6.39
5.0	4.1	114.9	114.9	29.9	103.4	25.5	92.0	21.5	80.5	17.8	69.0	14.4	57.5	11.4	46.0	8.70	34.5	6.35
3.0	2.2	110.9	110.9	29.7	99.8	25.3	88.7	21.3	77.6	17.7	66.5	14.3	55.4	11.3	44.4	8.64	33.3	6.31
0.0	-0.7	104.7	104.7	29.4	94.2	25.1	83.8	21.1	73.3	17.5	62.8	14.2	52.3	11.2	41.9	8.55	31.4	6.24
-3.0	-3.7	98.3	98.3	29.1	88.5	24.8	78.6	20.9	68.8	17.3	59.0	14.0	49.1	11.1	39.3	8.46	29.5	6.17
-5.0	-5.6	94.2	94.2	28.9	84.8	24.6	75.4	20.7	66.0	17.2	56.5	13.9	47.1	11.0	37.7	8.40	28.3	6.13
-7.0	-7.6	90.0	90.0	28.6	81.0	24.4	72.0	20.6	63.0	17.0	54.0	13.8	45.0	10.9	36.0	8.34	27.0	6.09
-10	-10.5	83.8	83.8	28.3	75.4	24.2	67.0	20.4	58.6	16.9	50.3	13.7	41.9	10.8	33.5	8.25	25.1	6.02
-14.5	-15.0	74.2	74.2	27.8	66.7	23.8	59.3	20.0	51.9	16.6	44.5	13.4	37.1	10.6	29.7	8.11	22.2	5.92

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

MMY-AP4016HT8P-ME (40HP, 112.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	52.8	52.8	17.4	47.5	14.1	42.2	11.3	37.0	8.80	31.7	6.66	-	-	-	-	-	-
48 °C	79.0	79.0	25.3	71.1	20.6	63.2	16.4	55.3	12.8	47.4	9.68	39.5	7.08	31.6	5.00	-	-
46 °C	89.6	89.6	29.6	80.6	24.1	71.7	19.3	62.7	15.0	53.8	11.4	44.8	8.31	35.8	5.87	26.9	4.04
44 °C	94.5	94.5	30.0	85.1	24.6	75.6	19.8	66.2	15.5	56.7	11.8	47.3	8.69	37.8	6.16	28.4	4.22
42 °C	99.1	99.1	30.4	89.2	24.9	79.2	20.1	69.3	15.8	59.4	12.1	49.5	8.91	39.6	6.34	29.7	4.34
40 °C	103.2	103.2	30.6	92.9	25.2	82.6	20.3	72.2	16.0	61.9	12.2	51.6	9.04	41.3	6.43	31.0	4.40
39 °C	105.1	105.1	30.7	94.6	25.3	84.1	20.4	73.6	16.1	63.1	12.3	52.6	9.15	42.1	6.52	31.5	4.45
37 °C	108.7	108.7	30.8	97.9	25.4	87.0	20.6	76.1	16.3	65.2	12.5	54.4	9.30	43.5	6.64	32.6	4.53
35 °C	112.0	112.0	30.9	100.8	25.6	89.6	20.8	78.4	16.5	67.2	12.7	56.0	9.49	44.8	6.79	33.6	4.63
33 °C	112.0	112.0	28.5	100.8	23.6	89.6	19.2	78.4	15.3	67.2	11.8	56.0	8.81	44.8	6.33	33.6	4.33
31 °C	112.0	112.0	26.4	100.8	21.9	89.6	17.8	78.4	14.2	67.2	11.0	56.0	8.22	44.8	5.92	33.6	4.07
30 °C	112.0	112.0	25.5	100.8	21.1	89.6	17.2	78.4	13.7	67.2	10.6	56.0	7.94	44.8	5.73	33.6	3.95
29 °C	112.0	112.0	24.6	100.8	20.4	89.6	16.6	78.4	13.2	67.2	10.2	56.0	7.68	44.8	5.55	33.6	3.83
27 °C	112.0	112.0	22.9	100.8	19.0	89.6	15.5	78.4	12.3	67.2	9.6	56.0	7.20	44.8	5.21	33.6	3.61
25 °C	112.0	112.0	21.4	100.8	17.8	89.6	14.5	78.4	11.6	67.2	8.98	56.0	6.76	44.8	4.90	33.6	3.41
23 °C	112.0	112.0	20.5	100.8	17.0	89.6	13.9	78.4	11.1	67.2	8.61	56.0	6.49	44.8	4.72	33.6	3.29
21 °C	112.0	112.0	20.1	100.8	16.7	89.6	13.6	78.4	10.9	67.2	8.46	56.0	6.38	44.8	4.65	33.6	3.25
20 °C	112.0	112.0	19.9	100.8	16.6	89.6	13.5	78.4	10.8	67.2	8.39	56.0	6.34	44.8	4.61	33.6	3.23
19 °C	112.0	112.0	19.8	100.8	16.4	89.6	13.4	78.4	10.7	67.2	8.33	56.0	6.29	44.8	4.59	33.6	3.21
17 °C	112.0	112.0	19.5	100.8	16.2	89.6	13.2	78.4	10.6	67.2	8.23	56.0	6.22	44.8	4.54	33.6	3.18
15 °C	112.0	112.0	19.3	100.8	16.0	89.6	13.1	78.4	10.4	67.2	8.14	56.0	6.16	44.8	4.50	33.6	3.16

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	47.6	47.6	16.8	42.9	13.7	38.1	10.9	33.3	8.49	28.6	6.43	23.8	4.70	-	-	-	-
48 °C	71.3	71.3	24.4	64.1	19.9	57.0	15.9	49.9	12.4	42.8	9.35	35.6	6.84	28.5	4.83	-	-
46 °C	80.8	80.8	28.6	72.7	23.3	64.7	18.6	56.6	14.5	48.5	11.0	40.4	8.03	32.3	5.67	24.2	3.90
44 °C	85.3	85.3	29.0	76.7	23.8	68.2	19.1	59.7	15.0	51.2	11.4	42.6	8.39	34.1	5.95	25.6	4.08
42 °C	89.3	89.3	29.3	80.4	24.1	71.5	19.4	62.5	15.2	53.6	11.6	44.7	8.61	35.7	6.12	26.8	4.19
40 °C	93.1	93.1	29.5	83.8	24.3	74.5	19.6	65.2	15.4	55.9	11.8	46.5	8.73	37.2	6.21	27.9	4.25
39 °C	94.8	94.8	29.6	85.3	24.4	75.9	19.7	66.4	15.5	56.9	11.9	47.4	8.83	37.9	6.29	28.4	4.30
37 °C	98.1	98.1	29.8	88.3	24.6	78.5	19.9	68.7	15.7	58.8	12.1	49.0	8.98	39.2	6.41	29.4	4.37
35 °C	101.0	101.0	29.8	90.9	24.7	80.8	20.1	70.7	15.9	60.6	12.3	50.5	9.16	40.4	6.55	30.3	4.47
33 °C	103.7	103.7	28.8	93.3	23.9	82.9	19.4	72.6	15.4	62.2	11.9	51.8	8.86	41.5	6.34	31.1	4.32
31 °C	106.0	106.0	27.8	95.4	23.1	84.8	18.7	74.2	14.9	63.6	11.5	53.0	8.55	42.4	6.12	31.8	4.17
30 °C	107.1	107.1	27.3	96.4	22.6	85.7	18.4	75.0	14.6	64.3	11.3	53.6	8.40	42.8	6.01	32.1	4.09
29 °C	108.1	108.1	26.8	97.3	22.2	86.5	18.0	75.7	14.3	64.9	11.1	54.1	8.24	43.3	5.90	32.4	4.02
27 °C	110.0	110.0	25.8	99.0	21.4	88.0	17.4	77.0	13.8	66.0	10.6	55.0	7.93	44.0	5.67	33.0	3.86
25 °C	111.7	111.7	24.8	100.5	20.5	89.3	16.7	78.2	13.2	67.0	10.2	55.8	7.61	44.7	5.45	33.5	3.71
23 °C	112.0	112.0	23.8	100.8	19.7	89.6	16.0	78.4	12.7	67.2	9.83	56.0	7.34	44.8	5.26	33.6	3.59
21 °C	112.0	112.0	23.4	100.8	19.3	89.6	15.7	78.4	12.5	67.2	9.65	56.0	7.21	44.8	5.17	33.6	3.54
20 °C	112.0	112.0	23.2	100.8	19.2	89.6	15.6	78.4	12.4	67.2	9.58	56.0	7.16	44.8	5.14	33.6	3.52
19 °C	112.0	112.0	23.0	100.8	19.0	89.6	15.5	78.4	12.3	67.2	9.50	56.0	7.11	44.8	5.11	33.6	3.50
17 °C	112.0	112.0	22.6	100.8	18.8	89.6	15.3	78.4	12.1	67.2	9.38	56.0	7.02	44.8	5.05	33.6	3.47
15 °C	112.0	112.0	22.4	100.8	18.5	89.6	15.1	78.4	12.0	67.2	9.28	56.0	6.95	44.8	5.00	33.6	3.44

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	28.2	113.4	24.2	100.8	20.4	88.2	17.0	75.6	13.8	63.0	11.0	50.4	8.40	37.8	6.13
13.0	11.8	126.0	126.0	29.3	113.4	25.1	100.8	21.2	88.2	17.6	75.6	14.3	63.0	11.3	50.4	8.64	37.8	6.29
11.0	9.8	126.0	126.0	30.5	113.4	26.1	100.8	22.0	88.2	18.2	75.6	14.8	63.0	11.7	50.4	8.91	37.8	6.46
9.0	7.9	126.0	126.0	31.7	113.4	27.1	100.8	22.8	88.2	18.9	75.6	15.3	63.0	12.1	50.4	9.18	37.8	6.63
7.0	6.0	126.0	126.0	33.0	113.4	28.2	100.8	23.7	88.2	19.6	75.6	15.9	63.0	12.5	50.4	9.47	37.8	6.82
5.0	4.1	121.5	121.5	32.7	109.3	27.9	97.2	23.5	85.0	19.4	72.9	15.7	60.7	12.4	48.6	9.40	36.4	6.77
3.0	2.2	117.0	117.0	32.5	105.3	27.7	93.6	23.3	81.9	19.3	70.2	15.6	58.5	12.3	46.8	9.32	35.1	6.72
0.0	-0.7	110.1	110.1	32.1	99.1	27.4	88.1	23.1	77.1	19.1	66.1	15.4	55.0	12.1	44.0	9.21	33.0	6.64
-3.0	-3.7	103.0	103.0	31.7	92.7	27.1	82.4	22.8	72.1	18.8	61.8	15.2	51.5	12.0	41.2	9.10	30.9	6.56
-5.0	-5.6	98.5	98.5	31.5	88.6	26.9	78.8	22.6	68.9	18.7	59.1	15.1	49.2	11.9	39.4	9.03	29.5	6.51
-7.0	-7.6	93.7	93.7	31.2	84.3	26.6	75.0	22.4	65.6	18.5	56.2	15.0	46.9	11.8	37.5	8.95	28.1	6.45
-10	-10.5	86.8	86.8	30.8	78.1	26.3	69.5	22.1	60.8	18.3	52.1	14.8	43.4	11.7	34.7	8.84	26.0	6.37
-14.5	-15.0	76.1	76.1	30.2	68.5	25.8	60.9	21.7	53.3	17.9	45.7	14.5	38.1	11.4	30.5	8.67	22.8	6.25

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

MMY-AP4216HT8P-ME (42HP, 120.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	47.4	47.4	20.4	42.7	16.9	37.9	13.7	33.2	10.8	28.4	8.36	23.7	6.24	-	-	-	-
48 °C	74.7	74.7	23.9	67.2	19.8	59.8	16.0	52.3	12.7	44.8	9.79	37.4	7.31	29.9	5.24	-	-
46 °C	97.5	97.5	34.8	87.8	28.7	78.0	23.3	68.3	18.5	58.5	14.2	48.8	10.6	39.0	7.62	29.3	5.24
44 °C	105.8	105.8	33.9	95.2	28.0	84.6	22.8	74.1	18.1	63.5	14.0	52.9	10.5	42.3	7.55	31.7	5.19
42 °C	109.3	109.3	33.0	98.4	27.4	87.5	22.3	76.5	17.8	65.6	13.8	54.7	10.4	43.7	7.48	32.8	5.14
40 °C	112.7	112.7	32.0	101.4	26.6	90.1	21.7	78.9	17.4	67.6	13.5	56.3	10.2	45.1	7.33	33.8	5.04
39 °C	114.2	114.2	31.6	102.8	26.2	91.4	21.4	80.0	17.1	68.5	13.3	57.1	10.0	45.7	7.23	34.3	4.96
37 °C	117.2	117.2	30.6	105.5	25.5	93.8	20.9	82.1	16.7	70.3	13.0	58.6	9.83	46.9	7.11	35.2	4.89
35 °C	120.0	120.0	29.7	108.0	24.8	96.0	20.4	84.0	16.4	72.0	12.9	60.0	9.77	48.0	7.10	36.0	4.87
33 °C	120.0	120.0	27.7	108.0	23.2	96.0	19.1	84.0	15.4	72.0	12.1	60.0	9.15	48.0	6.67	36.0	4.59
31 °C	120.0	120.0	25.9	108.0	21.7	96.0	17.8	84.0	14.4	72.0	11.3	60.0	8.59	48.0	6.27	36.0	4.33
30 °C	120.0	120.0	25.0	108.0	21.0	96.0	17.3	84.0	13.9	72.0	10.9	60.0	8.33	48.0	6.08	36.0	4.21
29 °C	120.0	120.0	24.2	108.0	20.3	96.0	16.7	84.0	13.5	72.0	10.6	60.0	8.07	48.0	5.90	36.0	4.09
27 °C	120.0	120.0	22.7	108.0	19.0	96.0	15.7	84.0	12.6	72.0	10.0	60.0	7.59	48.0	5.56	36.0	3.86
25 °C	120.0	120.0	21.2	108.0	17.8	96.0	14.7	84.0	11.9	72.0	9.35	60.0	7.14	48.0	5.24	36.0	3.64
23 °C	120.0	120.0	20.4	108.0	17.1	96.0	14.1	84.0	11.4	72.0	8.98	60.0	6.86	48.0	5.04	36.0	3.51
21 °C	120.0	120.0	20.0	108.0	16.8	96.0	13.8	84.0	11.2	72.0	8.82	60.0	6.75	48.0	4.96	36.0	3.47
20 °C	120.0	120.0	19.8	108.0	16.6	96.0	13.7	84.0	11.1	72.0	8.75	60.0	6.70	48.0	4.93	36.0	3.44
19 °C	120.0	120.0	19.6	108.0	16.5	96.0	13.6	84.0	11.0	72.0	8.69	60.0	6.65	48.0	4.90	36.0	3.42
17 °C	120.0	120.0	19.3	108.0	16.2	96.0	13.4	84.0	10.8	72.0	8.57	60.0	6.56	48.0	4.84	36.0	3.39
15 °C	120.0	120.0	19.1	108.0	16.0	96.0	13.2	84.0	10.7	72.0	8.46	60.0	6.49	48.0	4.78	36.0	3.36

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	42.8	42.8	19.7	38.5	19.6	34.2	15.9	29.9	12.5	25.7	9.59	21.4	7.09	-	-	-	-
48 °C	67.4	67.4	23.1	60.6	23.0	53.9	18.6	47.2	14.7	40.4	11.2	33.7	8.31	27.0	5.88	-	-
46 °C	87.9	87.9	33.6	79.1	33.5	70.4	27.0	61.6	21.3	52.8	16.3	44.0	12.1	35.2	8.55	26.4	5.74
44 °C	95.4	95.4	32.7	85.9	32.6	76.3	26.4	66.8	20.9	57.3	16.1	47.7	11.9	38.2	8.46	28.6	5.69
42 °C	98.6	98.6	31.8	88.8	31.7	78.9	25.8	69.0	20.4	59.2	15.8	49.3	11.7	39.4	8.37	29.6	5.64
40 °C	101.6	101.6	30.9	91.5	30.8	81.3	25.1	71.1	19.9	61.0	15.4	50.8	11.5	40.6	8.20	30.5	5.53
39 °C	103.0	103.0	30.5	92.7	30.4	82.4	24.7	72.1	19.6	61.8	15.2	51.5	11.3	41.2	8.08	30.9	5.45
37 °C	105.7	105.7	29.6	95.2	29.5	84.6	24.0	74.0	19.2	63.4	14.8	52.9	11.1	42.3	7.95	31.7	5.37
35 °C	108.2	108.2	28.6	97.4	28.6	86.6	23.4	75.8	18.8	64.9	14.6	54.1	11.0	43.3	7.92	32.5	5.36
33 °C	110.6	110.6	27.7	99.5	27.6	88.4	22.6	77.4	18.1	66.3	14.1	55.3	10.6	44.2	7.66	33.2	5.18
31 °C	112.7	112.7	26.8	101.4	26.7	90.2	21.8	78.9	17.5	67.6	13.6	56.4	10.3	45.1	7.40	33.8	5.00
30 °C	113.7	113.7	26.3	102.3	26.2	91.0	21.4	79.6	17.2	68.2	13.4	56.9	10.1	45.5	7.26	34.1	4.91
29 °C	114.7	114.7	25.8	103.2	25.7	91.7	21.0	80.3	16.9	68.8	13.2	57.3	9.91	45.9	7.13	34.4	4.82
27 °C	116.5	116.5	24.8	104.9	24.7	93.2	20.2	81.6	16.2	69.9	12.7	58.3	9.53	46.6	6.86	35.0	4.64
25 °C	118.2	118.2	23.8	106.4	23.7	94.5	19.4	82.7	15.6	70.9	12.1	59.1	9.15	47.3	6.58	35.5	4.45
23 °C	119.7	119.7	23.3	107.7	23.2	95.8	19.0	83.8	15.3	71.8	11.9	59.8	8.96	47.9	6.44	35.9	4.36
21 °C	120.0	120.0	23.0	108.0	22.9	96.0	18.7	84.0	15.0	72.0	11.7	60.0	8.83	48.0	6.36	36.0	4.31
20 °C	120.0	120.0	22.8	108.0	22.7	96.0	18.6	84.0	14.9	72.0	11.6	60.0	8.76	48.0	6.31	36.0	4.28
19 °C	120.0	120.0	22.6	108.0	22.5	96.0	18.4	84.0	14.8	72.0	11.5	60.0	8.70	48.0	6.27	36.0	4.25
17 °C	120.0	120.0	22.2	108.0	22.1	96.0	18.1	84.0	14.6	72.0	11.4	60.0	8.58	48.0	6.19	36.0	4.20
15 °C	120.0	120.0	21.9	108.0	21.8	96.0	17.9	84.0	14.4	72.0	11.2	60.0	8.47	48.0	6.12	36.0	4.16

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	26.7	121.5	22.6	108.0	18.9	94.5	15.7	81.0	12.9	67.5	10.5	54.0	8.55	40.5	7.05
13.0	11.8	135.0	135.0	27.8	121.5	23.5	108.0	19.6	94.5	16.2	81.0	13.2	67.5	10.7	54.0	8.71	40.5	7.13
11.0	9.8	135.0	135.0	29.1	121.5	24.5	108.0	20.4	94.5	16.8	81.0	13.7	67.5	11.0	54.0	8.89	40.5	7.23
9.0	7.9	135.0	135.0	30.4	121.5	25.6	108.0	21.2	94.5	17.4	81.0	14.1	67.5	11.4	54.0	9.09	40.5	7.33
7.0	6.0	135.0	135.0	31.8	121.5	26.7	108.0	22.1	94.5	18.1	81.0	14.6	67.5	11.7	54.0	9.30	40.5	7.44
5.0	4.1	130.7	130.7	31.6	117.6	26.5	104.5	22.0	91.5	18.0	78.4	14.5	65.3	11.6	52.3	9.24	39.2	7.40
3.0	2.2	126.3	126.3	31.4	113.7	26.4	101.0	21.9	88.4	17.9	75.8	14.5	63.2	11.6	50.5	9.19	37.9	7.36
0.0	-0.7	119.7	119.7	31.2	107.7	26.2	95.7	21.7	83.8	17.7	71.8	14.3	59.8	11.5	47.9	9.11	35.9	7.29
-3.0	-3.7	112.8	112.8	30.9	101.5	25.9	90.3	21.5	79.0	17.6	67.7	14.2	56.4	11.4	45.1	9.02	33.8	7.22
-5.0	-5.6	108.5	108.5	30.7	97.6	25.8	86.8	21.4	75.9	17.5	65.1	14.1	54.2	11.3	43.4	8.97	32.5	7.18
-7.0	-7.6	103.9	103.9	30.5	93.5	25.6	83.1	21.2	72.7	17.4	62.4	14.0	52.0	11.2	41.6	8.92	31.2	7.14
-10	-10.5	97.3	97.3	30.2	87.6	25.4	77.8	21.0	68.1	17.2	58.4	13.9	48.6	11.1	38.9	8.84	29.2	7.07
-14.5	-15.0	87.0	87.0	29.8	78.3	25.0	69.6	20.7	60.9	17.0	52.2	13.7	43.5	11.0	34.8	8.71	26.1	6.97

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

MMY-AP4416HT8P-ME (44HP, 125.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	49.2	49.2	20.5	44.3	16.9	39.4	13.7	34.4	10.8	29.5	8.30	24.6	6.17	-	-	-	-
48 °C	77.0	77.0	25.5	69.3	21.0	61.6	17.0	53.9	13.4	46.2	10.3	38.5	7.66	30.8	5.46	-	-
46 °C	101.0	101.0	35.7	90.9	29.4	80.8	23.8	70.7	18.8	60.6	14.5	50.5	10.7	40.4	7.66	30.3	5.21
44 °C	108.5	108.5	35.0	97.7	29.0	86.8	23.5	76.0	18.7	65.1	14.4	54.3	10.7	43.4	7.67	32.6	5.21
42 °C	112.7	112.7	34.4	101.4	28.5	90.2	23.2	78.9	18.4	67.6	14.3	56.4	10.7	45.1	7.64	33.8	5.19
40 °C	116.6	116.6	33.7	104.9	28.0	93.3	22.8	81.6	18.2	69.9	14.1	58.3	10.5	46.6	7.56	35.0	5.13
39 °C	118.4	118.4	33.4	106.6	27.7	94.7	22.6	82.9	18.0	71.0	14.0	59.2	10.5	47.4	7.54	35.5	5.12
37 °C	121.8	121.8	32.6	109.7	27.1	97.5	22.2	85.3	17.7	73.1	13.8	60.9	10.4	48.7	7.44	36.6	5.05
35 °C	125.0	125.0	31.8	112.5	26.6	100.0	21.8	87.5	17.5	75.0	13.6	62.5	10.3	50.0	7.41	37.5	5.03
33 °C	125.0	125.0	29.6	112.5	24.7	100.0	20.3	87.5	16.3	75.0	12.7	62.5	9.59	50.0	6.93	37.5	4.72
31 °C	125.0	125.0	27.6	112.5	23.1	100.0	18.9	87.5	15.2	75.0	11.9	62.5	8.98	50.0	6.50	37.5	4.44
30 °C	125.0	125.0	26.7	112.5	22.3	100.0	18.3	87.5	14.7	75.0	11.5	62.5	8.70	50.0	6.30	37.5	4.31
29 °C	125.0	125.0	25.8	112.5	21.5	100.0	17.7	87.5	14.2	75.0	11.1	62.5	8.42	50.0	6.11	37.5	4.19
27 °C	125.0	125.0	24.1	112.5	20.2	100.0	16.6	87.5	13.3	75.0	10.4	62.5	7.91	50.0	5.75	37.5	3.95
25 °C	125.0	125.0	22.6	112.5	18.9	100.0	15.5	87.5	12.5	75.0	9.79	62.5	7.43	50.0	5.41	37.5	3.72
23 °C	125.0	125.0	21.6	112.5	18.1	100.0	14.9	87.5	12.0	75.0	9.40	62.5	7.14	50.0	5.20	37.5	3.59
21 °C	125.0	125.0	21.2	112.5	17.8	100.0	14.6	87.5	11.8	75.0	9.24	62.5	7.02	50.0	5.12	37.5	3.54
20 °C	125.0	125.0	21.0	112.5	17.6	100.0	14.5	87.5	11.7	75.0	9.16	62.5	6.97	50.0	5.09	37.5	3.52
19 °C	125.0	125.0	20.9	112.5	17.5	100.0	14.4	87.5	11.6	75.0	9.10	62.5	6.92	50.0	5.05	37.5	3.50
17 °C	125.0	125.0	20.6	112.5	17.2	100.0	14.2	87.5	11.4	75.0	8.97	62.5	6.83	50.0	4.99	37.5	3.46
15 °C	125.0	125.0	20.3	112.5	17.0	100.0	14.0	87.5	11.3	75.0	8.87	62.5	6.76	50.0	4.94	37.5	3.43

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	44.4	44.4	19.8	39.9	19.7	35.5	15.9	31.1	12.5	26.6	9.55	22.2	7.03	-	-	-	-
48 °C	69.5	69.5	24.6	62.5	24.5	55.6	19.7	48.6	15.5	41.7	11.9	34.7	8.74	27.8	6.14	-	-
46 °C	91.1	91.1	34.5	82.0	34.3	72.9	27.7	63.8	21.8	54.7	16.6	45.5	12.3	36.4	8.62	27.3	5.73
44 °C	97.9	97.9	33.8	88.1	33.7	78.3	27.3	68.5	21.5	58.7	16.5	48.9	12.2	39.1	8.62	29.4	5.74
42 °C	101.6	101.6	33.2	91.5	33.1	81.3	26.8	71.2	21.2	61.0	16.3	50.8	12.1	40.7	8.58	30.5	5.72
40 °C	105.1	105.1	32.5	94.6	32.4	84.1	26.3	73.6	20.9	63.1	16.1	52.6	12.0	42.1	8.48	31.5	5.66
39 °C	106.8	106.8	32.2	96.1	32.1	85.4	26.1	74.8	20.7	64.1	16.0	53.4	11.9	42.7	8.46	32.0	5.65
37 °C	109.9	109.9	31.5	98.9	31.4	87.9	25.6	76.9	20.3	65.9	15.7	54.9	11.7	44.0	8.34	33.0	5.58
35 °C	112.7	112.7	30.7	101.5	30.7	90.2	25.1	78.9	20.0	67.6	15.5	56.4	11.6	45.1	8.30	33.8	5.55
33 °C	115.4	115.4	29.8	103.8	29.7	92.3	24.2	80.7	19.3	69.2	15.0	57.7	11.2	46.1	8.02	34.6	5.37
31 °C	117.7	117.7	28.7	106.0	28.6	94.2	23.4	82.4	18.7	70.6	14.5	58.9	10.8	47.1	7.74	35.3	5.18
30 °C	118.8	118.8	28.2	107.0	28.1	95.1	23.0	83.2	18.3	71.3	14.2	59.4	10.7	47.5	7.60	35.7	5.09
29 °C	119.9	119.9	27.7	107.9	27.6	95.9	22.5	83.9	18.0	71.9	14.0	60.0	10.5	48.0	7.46	36.0	4.99
27 °C	121.9	121.9	26.6	109.7	26.5	97.5	21.7	85.3	17.3	73.1	13.4	60.9	10.1	48.7	7.18	36.6	4.80
25 °C	123.6	123.6	25.6	111.3	25.5	98.9	20.8	86.6	16.6	74.2	12.9	61.8	9.65	49.5	6.89	37.1	4.61
23 °C	124.8	124.8	24.9	112.3	24.8	99.8	20.2	87.4	16.2	74.9	12.5	62.4	9.40	49.9	6.71	37.4	4.49
21 °C	125.0	125.0	24.5	112.5	24.4	100.0	19.9	87.5	15.9	75.0	12.4	62.5	9.26	50.0	6.62	37.5	4.44
20 °C	125.0	125.0	24.2	112.5	24.2	100.0	19.7	87.5	15.8	75.0	12.3	62.5	9.18	50.0	6.57	37.5	4.41
19 °C	125.0	125.0	24.0	112.5	23.9	100.0	19.6	87.5	15.6	75.0	12.2	62.5	9.11	50.0	6.52	37.5	4.38
17 °C	125.0	125.0	23.7	112.5	23.6	100.0	19.3	87.5	15.4	75.0	12.0	62.5	8.99	50.0	6.44	37.5	4.33
15 °C	125.0	125.0	23.4	112.5	23.3	100.0	19.0	87.5	15.2	75.0	11.8	62.5	8.89	50.0	6.37	37.5	4.29

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	28.3	126.0	23.9	112.0	20.0	98.0	16.5	84.0	13.5	70.0	11.0	56.0	8.94	42.0	7.34
13.0	11.8	140.0	140.0	29.5	126.0	24.9	112.0	20.7	98.0	17.1	84.0	13.9	70.0	11.3	56.0	9.11	42.0	7.43
11.0	9.8	140.0	140.0	30.8	126.0	25.9	112.0	21.6	98.0	17.7	84.0	14.4	70.0	11.6	56.0	9.31	42.0	7.53
9.0	7.9	140.0	140.0	32.2	126.0	27.1	112.0	22.5	98.0	18.4	84.0	14.9	70.0	11.9	56.0	9.51	42.0	7.64
7.0	6.0	140.0	140.0	33.7	126.0	28.3	112.0	23.4	98.0	19.1	84.0	15.4	70.0	12.3	56.0	9.74	42.0	7.76
5.0	4.1	135.3	135.3	33.5	121.8	28.1	108.2	23.3	94.7	19.0	81.2	15.3	67.7	12.2	54.1	9.68	40.6	7.71
3.0	2.2	130.6	130.6	33.3	117.6	27.9	104.5	23.1	91.4	18.9	78.4	15.2	65.3	12.1	52.2	9.61	39.2	7.66
0.0	-0.7	123.5	123.5	32.9	111.1	27.6	98.8	22.9	86.4	18.7	74.1	15.1	61.7	12.0	49.4	9.52	37.0	7.59
-3.0	-3.7	116.1	116.1	32.6	104.5	27.3	92.9	22.6	81.3	18.5	69.6	14.9	58.0	11.9	46.4	9.42	34.8	7.51
-5.0	-5.6	111.4	111.4	32.4	100.3	27.2	89.1	22.5	78.0	18.4	66.8	14.8	55.7	11.8	44.6	9.36	33.4	7.46
-7.0	-7.6	106.5	106.5	32.1	95.8	27.0	85.2	22.3	74.5	18.2	63.9	14.7	53.2	11.7	42.6	9.29	31.9	7.41
-10	-10.5	99.3	99.3	31.8	89.4	26.7	79.5	22.1	69.5	18.1	59.6	14.6	49.7	11.6	39.7	9.20	29.8	7.33
-14.5	-15.0	88.2	88.2	31.3	79.4	26.3	70.6	21.7	61.8	17.8	52.9	14.3	44.1	11.4	35.3	9.05	26.5	7.21

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

MMY-AP4616HT8P-ME (46HP, 130.0kW system)

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC		TC		TC		TC		TC		TC		TC		TC	
		(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)
52 °C	51.0	51.0	20.5	45.9	16.9	40.8	13.6	35.7	10.8	30.6	8.24	25.5	6.10	-	-	-	-
48 °C	79.3	79.3	27.0	71.4	22.2	63.4	17.9	55.5	14.2	47.6	10.8	39.7	8.01	31.7	5.67	-	-
46 °C	104.5	104.5	36.6	94.1	30.1	83.6	24.3	73.2	19.2	62.7	14.7	52.3	10.9	41.8	7.70	31.4	5.18
44 °C	111.2	111.2	36.2	100.1	29.9	89.0	24.2	77.9	19.2	66.7	14.8	55.6	11.0	44.5	7.78	33.4	5.23
42 °C	116.1	116.1	35.8	104.4	29.6	92.8	24.1	81.2	19.1	69.6	14.7	58.0	11.0	46.4	7.80	34.8	5.24
40 °C	120.5	120.5	35.4	108.4	29.3	96.4	23.8	84.3	19.0	72.3	14.6	60.2	10.9	48.2	7.78	36.1	5.23
39 °C	122.6	122.6	35.1	110.3	29.2	98.1	23.8	85.8	19.0	73.5	14.7	61.3	11.0	49.0	7.85	36.8	5.28
37 °C	126.5	126.5	34.6	113.8	28.8	101.2	23.5	88.5	18.7	75.9	14.5	63.2	10.9	50.6	7.77	37.9	5.22
35 °C	130.0	130.0	34.1	117.0	28.4	104.0	23.2	91.0	18.5	78.0	14.4	65.0	10.8	52.0	7.71	39.0	5.18
33 °C	130.0	130.0	31.6	117.0	26.3	104.0	21.5	91.0	17.2	78.0	13.4	65.0	10.0	52.0	7.20	39.0	4.85
31 °C	130.0	130.0	29.3	117.0	24.5	104.0	20.0	91.0	16.0	78.0	12.5	65.0	9.37	52.0	6.74	39.0	4.56
30 °C	130.0	130.0	28.3	117.0	23.6	104.0	19.3	91.0	15.5	78.0	12.0	65.0	9.07	52.0	6.52	39.0	4.42
29 °C	130.0	130.0	27.4	117.0	22.8	104.0	18.7	91.0	15.0	78.0	11.7	65.0	8.77	52.0	6.32	39.0	4.29
27 °C	130.0	130.0	25.6	117.0	21.3	104.0	17.5	91.0	14.0	78.0	10.9	65.0	8.23	52.0	5.93	39.0	4.04
25 °C	130.0	130.0	23.9	117.0	20.0	104.0	16.4	91.0	13.1	78.0	10.2	65.0	7.73	52.0	5.58	39.0	3.80
23 °C	130.0	130.0	22.9	117.0	19.1	104.0	15.7	91.0	12.6	78.0	9.82	65.0	7.42	52.0	5.37	39.0	3.67
21 °C	130.0	130.0	22.5	117.0	18.8	104.0	15.4	91.0	12.3	78.0	9.65	65.0	7.29	52.0	5.28	39.0	3.61
20 °C	130.0	130.0	22.3	117.0	18.6	104.0	15.3	91.0	12.2	78.0	9.57	65.0	7.24	52.0	5.25	39.0	3.59
19 °C	130.0	130.0	22.1	117.0	18.4	104.0	15.1	91.0	12.2	78.0	9.50	65.0	7.19	52.0	5.21	39.0	3.57
17 °C	130.0	130.0	21.8	117.0	18.2	104.0	14.9	91.0	12.0	78.0	9.38	65.0	7.10	52.0	5.15	39.0	3.53
15 °C	130.0	130.0	21.5	117.0	18.0	104.0	14.7	91.0	11.8	78.0	9.28	65.0	7.03	52.0	5.10	39.0	3.50

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

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC		TC		TC		TC		TC		TC		TC		TC	
		(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)	(kW)	PI (kW)
52 °C	46.0	46.0	19.8	41.4	19.7	36.8	15.9	32.2	12.5	27.6	9.50	23.0	6.97	-	-	-	-
48 °C	71.5	71.5	26.1	64.4	26.0	57.2	20.9	50.1	16.4	42.9	12.5	35.8	9.16	28.6	6.40	-	-
46 °C	94.3	94.3	35.3	84.8	35.2	75.4	28.3	66.0	22.3	56.6	17.0	47.1	12.4	37.7	8.69	28.3	5.72
44 °C	100.3	100.3	35.0	90.3	34.8	80.3	28.1	70.2	22.2	60.2	17.0	50.2	12.5	40.1	8.77	30.1	5.79
42 °C	104.7	104.7	34.6	94.2	34.5	83.7	27.9	73.3	22.0	62.8	16.9	52.3	12.5	41.9	8.78	31.4	5.80
40 °C	108.7	108.7	34.2	97.8	34.0	86.9	27.6	76.1	21.8	65.2	16.8	54.3	12.4	43.5	8.76	32.6	5.79
39 °C	110.5	110.5	33.9	99.5	33.8	88.4	27.5	77.4	21.8	66.3	16.8	55.3	12.5	44.2	8.83	33.2	5.84
37 °C	114.1	114.1	33.4	102.6	33.3	91.2	27.1	79.8	21.5	68.4	16.6	57.0	12.3	45.6	8.74	34.2	5.78
35 °C	117.2	117.2	32.9	105.5	32.8	93.8	26.7	82.1	21.3	70.3	16.4	58.6	12.2	46.9	8.67	35.2	5.74
33 °C	120.1	120.1	31.8	108.1	31.7	96.1	25.8	84.1	20.5	72.1	15.9	60.1	11.8	48.1	8.38	36.0	5.55
31 °C	122.8	122.8	30.7	110.5	30.6	98.2	24.9	85.9	19.8	73.7	15.3	61.4	11.4	49.1	8.09	36.8	5.36
30 °C	124.0	124.0	30.2	111.6	30.1	99.2	24.5	86.8	19.5	74.4	15.1	62.0	11.2	49.6	7.95	37.2	5.26
29 °C	125.1	125.1	29.6	112.6	29.5	100.1	24.0	87.6	19.1	75.1	14.8	62.6	11.0	50.1	7.80	37.5	5.17
27 °C	127.2	127.2	28.5	114.5	28.4	101.8	23.1	89.1	18.4	76.3	14.2	63.6	10.6	50.9	7.50	38.2	4.97
25 °C	129.1	129.1	27.3	116.2	27.2	103.3	22.2	90.4	17.7	77.5	13.6	64.6	10.2	51.7	7.20	38.7	4.77
23 °C	129.9	129.9	26.4	116.9	26.3	103.9	21.5	90.9	17.1	77.9	13.2	64.9	9.84	52.0	6.98	39.0	4.63
21 °C	130.0	130.0	26.0	117.0	25.9	104.0	21.1	91.0	16.8	78.0	13.0	65.0	9.68	52.0	6.87	39.0	4.56
20 °C	130.0	130.0	25.7	117.0	25.6	104.0	20.9	91.0	16.6	78.0	12.9	65.0	9.60	52.0	6.82	39.0	4.53
19 °C	130.0	130.0	25.5	117.0	25.4	104.0	20.7	91.0	16.5	78.0	12.8	65.0	9.53	52.0	6.77	39.0	4.50
17 °C	130.0	130.0	25.1	117.0	25.1	104.0	20.4	91.0	16.3	78.0	12.6	65.0	9.41	52.0	6.69	39.0	4.45
15 °C	130.0	130.0	24.8	117.0	24.7	104.0	20.2	91.0	16.1	78.0	12.5	65.0	9.30	52.0	6.62	39.0	4.41

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	29.9	130.5	25.2	116.0	21.1	101.5	17.4	87.0	14.2	72.5	11.5	58.0	9.33	43.5	7.63
13.0	11.8	145.0	145.0	31.1	130.5	26.2	116.0	21.8	101.5	18.0	87.0	14.6	72.5	11.8	58.0	9.51	43.5	7.73
11.0	9.8	145.0	145.0	32.5	130.5	27.4	116.0	22.7	101.5	18.7	87.0	15.1	72.5	12.2	58.0	9.72	43.5	7.84
9.0	7.9	145.0	145.0	34.0	130.5	28.5	116.0	23.7	101.5	19.4	87.0	15.7	72.5	12.5	58.0	9.94	43.5	7.95
7.0	6.0	145.0	145.0	35.6	130.5	29.8	116.0	24.7	101.5	20.1	87.0	16.2	72.5	12.9	58.0	10.18	43.5	8.08
5.0	4.1	140.0	140.0	35.3	126.0	29.6	112.0	24.5	98.0	20.0	84.0	16.1	70.0	12.8	56.0	10.11	42.0	8.02
3.0	2.2	134.9	134.9	35.1	121.4	29.4	108.0	24.3	94.5	19.9	81.0	16.0	67.5	12.7	54.0	10.04	40.5	7.96
0.0	-0.7	127.3	127.3	34.7	114.5	29.1	101.8	24.1	89.1	19.6	76.4	15.8	63.6	12.6	50.9	9.93	38.2	7.88
-3.0	-3.7	119.3	119.3	34.3	107.4	28.8	95.5	23.8	83.5	19.4	71.6	15.6	59.7	12.4	47.7	9.81	35.8	7.79
-5.0	-5.6	114.3	114.3	34.1	102.9	28.6	91.4	23.6	80.0	19.3	68.6	15.5	57.1	12.3	45.7	9.74	34.3	7.73
-7.0	-7.6	109.0	109.0	33.8	98.1	28.3	87.2	23.4	76.3	19.1	65.4	15.4	54.5	12.2	43.6	9.67	32.7	7.67
-10	-10.5	101.3	101.3	33.4	91.2	28.0	81.1	23.2	70.9	18.9	60.8	15.2	50.7	12.1	40.5	9.56	30.4	7.59
-14.5	-15.0	89.4	89.4	32.8	80.5	27.5	71.5	22.8	62.6	18.6	53.7	15.0	44.7	11.9	35.8	9.39	26.8	7.45

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

MMY-AP4816HT8P-ME (48HP, 135.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	52.8	52.8	20.5	47.5	16.9	42.2	13.6	37.0	10.7	31.7	8.19	26.4	6.03	-	-	-	-
48 °C	81.6	81.6	28.5	73.4	23.5	65.3	18.9	57.1	14.9	49.0	11.4	40.8	8.37	32.6	5.88	-	-
46 °C	108.0	108.0	37.5	97.2	30.8	86.4	24.9	75.6	19.6	64.8	14.9	54.0	11.0	43.2	7.73	32.4	5.14
44 °C	113.9	113.9	37.4	102.5	30.9	91.2	25.0	79.8	19.7	68.4	15.1	57.0	11.2	45.6	7.89	34.2	5.25
42 °C	119.4	119.4	37.2	107.5	30.8	95.5	25.0	83.6	19.8	71.6	15.2	59.7	11.3	47.8	7.95	35.8	5.29
40 °C	124.4	124.4	37.0	112.0	30.7	99.5	24.9	87.1	19.8	74.6	15.2	62.2	11.3	49.8	8.00	37.3	5.33
39 °C	126.7	126.7	36.9	114.1	30.7	101.4	25.0	88.7	19.9	76.0	15.4	63.4	11.5	50.7	8.16	38.0	5.43
37 °C	131.1	131.1	36.6	118.0	30.4	104.9	24.8	91.7	19.7	78.6	15.3	65.5	11.4	52.4	8.09	39.3	5.39
35 °C	135.0	135.0	36.3	121.5	30.1	108.0	24.6	94.5	19.6	81.0	15.1	67.5	11.3	54.0	8.02	40.5	5.34
33 °C	135.0	135.0	33.5	121.5	27.8	108.0	22.7	94.5	18.1	81.0	14.0	67.5	10.5	54.0	7.46	40.5	4.99
31 °C	135.0	135.0	31.1	121.5	25.8	108.0	21.1	94.5	16.8	81.0	13.0	67.5	9.76	54.0	6.97	40.5	4.67
30 °C	135.0	135.0	30.0	121.5	24.9	108.0	20.4	94.5	16.2	81.0	12.6	67.5	9.43	54.0	6.74	40.5	4.53
29 °C	135.0	135.0	28.9	121.5	24.1	108.0	19.7	94.5	15.7	81.0	12.2	67.5	9.12	54.0	6.53	40.5	4.39
27 °C	135.0	135.0	27.0	121.5	22.5	108.0	18.4	94.5	14.7	81.0	11.4	67.5	8.55	54.0	6.12	40.5	4.13
25 °C	135.0	135.0	25.3	121.5	21.0	108.0	17.2	94.5	13.7	81.0	10.7	67.5	8.02	54.0	5.75	40.5	3.89
23 °C	135.0	135.0	24.2	121.5	20.1	108.0	16.5	94.5	13.2	81.0	10.2	67.5	7.70	54.0	5.53	40.5	3.74
21 °C	135.0	135.0	23.7	121.5	19.7	108.0	16.2	94.5	12.9	81.0	10.1	67.5	7.57	54.0	5.44	40.5	3.69
20 °C	135.0	135.0	23.5	121.5	19.6	108.0	16.0	94.5	12.8	81.0	10.0	67.5	7.51	54.0	5.41	40.5	3.67
19 °C	135.0	135.0	23.3	121.5	19.4	108.0	15.9	94.5	12.7	81.0	9.91	67.5	7.46	54.0	5.37	40.5	3.64
17 °C	135.0	135.0	23.0	121.5	19.2	108.0	15.7	94.5	12.6	81.0	9.79	67.5	7.37	54.0	5.31	40.5	3.61
15 °C	135.0	135.0	22.7	121.5	18.9	108.0	15.5	94.5	12.4	81.0	9.68	67.5	7.29	54.0	5.26	40.5	3.58

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	47.6	47.6	19.8	42.9	19.8	38.1	15.9	33.3	12.5	28.6	9.46	23.8	6.91	-	-	-	-
48 °C	73.6	73.6	27.6	66.2	27.4	58.9	22.0	51.5	17.3	44.2	13.1	36.8	9.59	29.4	6.66	-	-
46 °C	97.4	97.4	36.2	87.7	36.0	77.9	29.0	68.2	22.7	58.4	17.3	48.7	12.6	39.0	8.76	29.2	5.71
44 °C	102.8	102.8	36.1	92.5	36.0	82.2	29.0	71.9	22.8	61.7	17.4	51.4	12.8	41.1	8.93	30.8	5.83
42 °C	107.7	107.7	36.0	96.9	35.8	86.2	29.0	75.4	22.8	64.6	17.5	53.8	12.9	43.1	8.99	32.3	5.88
40 °C	112.2	112.2	35.8	101.0	35.6	89.8	28.9	78.5	22.8	67.3	17.5	56.1	12.9	44.9	9.04	33.7	5.92
39 °C	114.3	114.3	35.6	102.9	35.5	91.4	28.9	80.0	22.9	68.6	17.6	57.2	13.1	45.7	9.20	34.3	6.04
37 °C	118.2	118.2	35.4	106.4	35.2	94.6	28.6	82.7	22.7	70.9	17.5	59.1	13.0	47.3	9.13	35.5	5.99
35 °C	121.8	121.8	35.0	109.6	34.9	97.4	28.4	85.2	22.5	73.1	17.3	60.9	12.8	48.7	9.04	36.5	5.93
33 °C	124.9	124.9	33.9	112.4	33.7	100.0	27.4	87.5	21.8	75.0	16.8	62.5	12.4	50.0	8.74	37.5	5.74
31 °C	127.8	127.8	32.7	115.0	32.6	102.2	26.5	89.5	21.0	76.7	16.2	63.9	11.99	51.1	8.44	38.3	5.54
30 °C	129.1	129.1	32.1	116.2	32.0	103.3	26.0	90.4	20.6	77.5	15.9	64.6	11.77	51.6	8.29	38.7	5.44
29 °C	130.4	130.4	31.5	117.3	31.4	104.3	25.5	91.2	20.2	78.2	15.6	65.2	11.55	52.1	8.14	39.1	5.34
27 °C	132.6	132.6	30.3	119.4	30.2	106.1	24.5	92.8	19.5	79.6	15.0	66.3	11.11	53.0	7.83	39.8	5.14
25 °C	134.6	134.6	29.1	121.1	29.0	107.7	23.6	94.2	18.7	80.8	14.4	67.3	10.67	53.8	7.51	40.4	4.93
23 °C	135.0	135.0	28.0	121.5	27.9	108.0	22.7	94.5	18.0	81.0	13.9	67.5	10.28	54.0	7.24	40.5	4.76
21 °C	135.0	135.0	27.4	121.5	27.3	108.0	22.2	94.5	17.7	81.0	13.6	67.5	10.10	54.0	7.12	40.5	4.69
20 °C	135.0	135.0	27.2	121.5	27.1	108.0	22.0	94.5	17.5	81.0	13.5	67.5	10.02	54.0	7.07	40.5	4.66
19 °C	135.0	135.0	27.0	121.5	26.9	108.0	21.9	94.5	17.4	81.0	13.4	67.5	9.95	54.0	7.02	40.5	4.63
17 °C	135.0	135.0	26.6	121.5	26.5	108.0	21.6	94.5	17.1	81.0	13.2	67.5	9.82	54.0	6.94	40.5	4.58
15 °C	135.0	135.0	26.3	121.5	26.2	108.0	21.3	94.5	16.9	81.0	13.07	67.5	9.71	54.0	6.87	40.5	4.53

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	31.4	135.0	26.5	120.0	22.1	105.0	18.2	90.0	14.9	75.0	12.0	60.0	9.72	45.0	7.92
13.0	11.8	150.0	150.0	32.8	135.0	27.6	120.0	23.0	105.0	18.9	90.0	15.3	75.0	12.4	60.0	9.91	45.0	8.02
11.0	9.8	150.0	150.0	34.3	135.0	28.8	120.0	23.9	105.0	19.6	90.0	15.9	75.0	12.7	60.0	10.1	45.0	8.14
9.0	7.9	150.0	150.0	35.8	135.0	30.0	120.0	24.9	105.0	20.3	90.0	16.4	75.0	13.1	60.0	10.4	45.0	8.26
7.0	6.0	150.0	150.0	37.5	135.0	31.4	120.0	26.0	105.0	21.2	90.0	17.0	75.0	13.5	60.0	10.6	45.0	8.40
5.0	4.1	144.6	144.6	37.2	130.2	31.2	115.7	25.8	101.2	21.0	86.8	16.9	72.3	13.4	57.9	10.5	43.4	8.33
3.0	2.2	139.3	139.3	36.9	125.3	30.9	111.4	25.6	97.5	20.8	83.6	16.7	69.6	13.3	55.7	10.5	41.8	8.27
0.0	-0.7	131.1	131.1	36.5	118.0	30.6	104.8	25.3	91.7	20.6	78.6	16.5	65.5	13.1	52.4	10.3	39.3	8.17
-3.0	-3.7	122.6	122.6	36.0	110.3	30.2	98.1	25.0	85.8	20.3	73.5	16.3	61.3	13.0	49.0	10.2	36.8	8.07
-5.0	-5.6	117.2	117.2	35.8	105.5	29.9	93.8	24.8	82.0	20.2	70.3	16.2	58.6	12.9	46.9	10.1	35.2	8.01
-7.0	-7.6	111.6	111.6	35.5	100.4	29.7	89.2	24.5	78.1	20.0	66.9	16.1	55.8	12.8	44.6	10.0	33.5	7.94
-10	-10.5	103.4	103.4	35.0	93.0	29.3	82.7	24.2	72.3	19.8	62.0	15.9	51.7	12.6	41.3	9.92	31.0	7.84
-14.5	-15.0	90.6	90.6	34.3	81.6	28.8	72.5	23.8	63.4	19.4	54.4	15.6	45.3	12.4	36.3	9.73	27.2	7.69

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

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

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC		TC		TC		TC		TC		TC		TC		TC	
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	56.3	56.3	21.7	50.7	17.9	45.0	14.6	39.4	11.6	33.8	8.91	-	-	-	-	-	-
48 °C	89.6	89.6	29.7	80.6	24.6	71.7	19.9	62.7	15.8	53.8	12.2	44.8	9.08	35.8	6.47	-	-
46 °C	114.8	114.8	39.2	103.3	32.4	91.8	26.3	80.4	20.9	68.9	16.1	57.4	12.0	45.9	8.53	34.4	5.75
44 °C	120.4	120.4	38.8	108.4	32.2	96.3	26.2	84.3	20.9	72.2	16.2	60.2	12.1	48.2	8.63	36.1	5.82
42 °C	125.5	125.5	38.4	113.0	31.9	100.4	26.0	87.9	20.7	75.3	16.1	62.8	12.0	50.2	8.62	37.7	5.81
40 °C	130.3	130.3	37.9	117.2	31.5	104.2	25.8	91.2	20.6	78.2	16.0	65.1	12.0	52.1	8.63	39.1	5.82
39 °C	132.5	132.5	37.6	119.2	31.4	106.0	25.7	92.7	20.6	79.5	16.1	66.2	12.1	53.0	8.69	39.7	5.86
37 °C	136.6	136.6	37.1	123.0	30.9	109.3	25.4	95.6	20.3	82.0	15.9	68.3	12.0	54.6	8.59	41.0	5.79
35 °C	140.4	140.4	36.5	126.4	30.5	112.3	25.0	98.3	20.1	84.2	15.7	70.2	11.8	56.2	8.50	42.1	5.73
33 °C	140.4	140.4	33.8	126.4	28.3	112.3	23.2	98.3	18.7	84.2	14.6	70.2	11.0	56.2	7.94	42.1	5.36
31 °C	140.4	140.4	31.5	126.4	26.3	112.3	21.6	98.3	17.4	84.2	13.6	70.2	10.3	56.2	7.43	42.1	5.04
30 °C	140.4	140.4	30.4	126.4	25.4	112.3	20.9	98.3	16.8	84.2	13.2	70.2	10.0	56.2	7.20	42.1	4.89
29 °C	140.4	140.4	29.4	126.4	24.6	112.3	20.2	98.3	16.3	84.2	12.7	70.2	9.6	56.2	6.98	42.1	4.74
27 °C	140.4	140.4	27.5	126.4	23.0	112.3	18.9	98.3	15.2	84.2	11.9	70.2	9.05	56.2	6.56	42.1	4.46
25 °C	140.4	140.4	25.7	126.4	21.5	112.3	17.7	98.3	14.3	84.2	11.2	70.2	8.50	56.2	6.17	42.1	4.20
23 °C	140.4	140.4	24.6	126.4	20.6	112.3	17.0	98.3	13.7	84.2	10.8	70.2	8.16	56.2	5.93	42.1	4.05
21 °C	140.4	140.4	24.2	126.4	20.3	112.3	16.7	98.3	13.5	84.2	10.6	70.2	8.03	56.2	5.84	42.1	3.99
20 °C	140.4	140.4	24.0	126.4	20.1	112.3	16.5	98.3	13.3	84.2	10.5	70.2	7.97	56.2	5.80	42.1	3.97
19 °C	140.4	140.4	23.8	126.4	19.9	112.3	16.4	98.3	13.2	84.2	10.4	70.2	7.92	56.2	5.76	42.1	3.95
17 °C	140.4	140.4	23.4	126.4	19.7	112.3	16.2	98.3	13.1	84.2	10.3	70.2	7.82	56.2	5.69	42.1	3.90
15 °C	140.4	140.4	23.2	126.4	19.4	112.3	16.0	98.3	12.9	84.2	10.2	70.2	7.74	56.2	5.64	42.1	3.87

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC		TC		TC		TC		TC		TC		TC		TC	
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	50.8	50.8	20.9	45.7	19.6	40.6	15.9	35.5	12.6	30.5	9.64	-	-	-	-	-	-
48 °C	80.8	80.8	28.7	72.7	26.9	64.7	21.8	56.6	17.2	48.5	13.2	40.4	9.77	32.3	6.90	-	-
46 °C	103.5	103.5	37.8	93.2	35.5	82.8	28.7	72.5	22.7	62.1	17.4	51.8	12.9	41.4	9.10	31.1	6.05
44 °C	108.6	108.6	37.4	97.7	35.2	86.9	28.6	76.0	22.7	65.2	17.5	54.3	13.0	43.4	9.20	32.6	6.13
42 °C	113.2	113.2	37.0	101.9	34.8	90.6	28.3	79.3	22.5	67.9	17.4	56.6	13.0	45.3	9.19	34.0	6.12
40 °C	117.5	117.5	36.6	105.7	34.5	94.0	28.1	82.2	22.4	70.5	17.3	58.7	12.9	47.0	9.21	35.2	6.13
39 °C	119.5	119.5	36.3	107.5	34.2	95.6	28.0	83.6	22.4	71.7	17.4	59.7	13.0	47.8	9.28	35.8	6.19
37 °C	123.2	123.2	35.8	110.9	33.8	98.6	27.6	86.3	22.1	73.9	17.2	61.6	12.9	49.3	9.17	37.0	6.12
35 °C	126.6	126.6	35.2	114.0	33.3	101.3	27.2	88.6	21.8	76.0	16.9	63.3	12.7	50.7	9.07	38.0	6.05
33 °C	129.7	129.7	34.1	116.8	32.2	103.8	26.3	90.8	21.1	77.8	16.4	64.9	12.3	51.9	8.77	38.9	5.85
31 °C	132.5	132.5	32.9	119.3	31.1	106.0	25.4	92.8	20.3	79.5	15.8	66.3	11.9	53.0	8.47	39.8	5.65
30 °C	133.8	133.8	32.3	120.5	30.5	107.1	25.0	93.7	20.0	80.3	15.5	66.9	11.6	53.5	8.32	40.2	5.55
29 °C	135.1	135.1	31.7	121.6	30.0	108.1	24.5	94.5	19.6	81.0	15.2	67.5	11.4	54.0	8.16	40.5	5.44
27 °C	137.3	137.3	30.5	123.6	28.8	109.9	23.6	96.1	18.9	82.4	14.7	68.7	11.0	54.9	7.85	41.2	5.24
25 °C	139.4	139.4	29.3	125.4	27.7	111.5	22.6	97.6	18.1	83.6	14.1	69.7	10.6	55.7	7.54	41.8	5.03
23 °C	140.3	140.3	28.3	126.2	26.8	112.2	21.9	98.2	17.5	84.2	13.6	70.1	10.2	56.1	7.31	42.1	4.88
21 °C	140.4	140.4	27.8	126.4	26.3	112.3	21.5	98.3	17.2	84.2	13.4	70.2	10.1	56.2	7.20	42.1	4.81
20 °C	140.4	140.4	27.6	126.4	26.1	112.3	21.3	98.3	17.1	84.2	13.3	70.2	10.0	56.2	7.14	42.1	4.78
19 °C	140.4	140.4	27.4	126.4	25.8	112.3	21.2	98.3	16.9	84.2	13.2	70.2	9.9	56.2	7.09	42.1	4.75
17 °C	140.4	140.4	27.0	126.4	25.5	112.3	20.9	98.3	16.7	84.2	13.0	70.2	9.8	56.2	7.01	42.1	4.69
15 °C	140.4	140.4	26.6	126.4	25.2	112.3	20.6	98.3	16.5	84.2	12.9	70.2	9.7	56.2	6.94	42.1	4.65

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	32.6	140.4	27.7	124.8	23.2	109.2	19.2	93.6	15.7	78.0	12.7	62.4	10.1	46.8	8.00
13.0	11.8	156.0	156.0	33.9	140.4	28.7	124.8	24.0	109.2	19.9	93.6	16.2	78.0	13.0	62.4	10.3	46.8	8.12
11.0	9.8	156.0	156.0	35.4	140.4	29.9	124.8	25.0	109.2	20.6	93.6	16.7	78.0	13.4	62.4	10.6	46.8	8.27
9.0	7.9	156.0	156.0	36.9	140.4	31.2	124.8	26.0	109.2	21.4	93.6	17.3	78.0	13.8	62.4	10.8	46.8	8.42
7.0	6.0	156.0	156.0	38.6	140.4	32.5	124.8	27.1	109.2	22.2	93.6	17.9	78.0	14.2	62.4	11.1	46.8	8.58
5.0	4.1	150.6	150.6	38.3	135.6	32.3	120.5	26.9	105.4	22.1	90.4	17.8	75.3	14.1	60.2	11.0	45.2	8.52
3.0	2.2	145.2	145.2	38.1	130.7	32.1	116.2	26.7	101.7	21.9	87.1	17.7	72.6	14.0	58.1	11.0	43.6	8.46
0.0	-0.7	137.0	137.0	37.6	123.3	31.7	109.6	26.4	95.9	21.7	82.2	17.5	68.5	13.9	54.8	10.8	41.1	8.37
-3.0	-3.7	128.5	128.5	37.2	115.7	31.4	102.8	26.1	90.0	21.4	77.1	17.3	64.3	13.7	51.4	10.7	38.6	8.28
-5.0	-5.6	123.1	123.1	37.0	110.8	31.2	98.5	25.9	86.2	21.3	73.9	17.2	61.6	13.6	49.3	10.6	36.9	8.22
-7.0	-7.6	117.5	117.5	36.7	105.7	30.9	94.0	25.7	82.2	21.1	70.5	17.0	58.7	13.5	47.0	10.6	35.2	8.15
-10	-10.5	109.3	109.3	36.3	98.3	30.6	87.4	25.5	76.5	20.9	65.6	16.8	54.6	13.4	43.7	10.4	32.8	8.06
-14.5	-15.0	96.5	96.5	35.6	86.9	30.1	77.2	25.0	67.6	20.5	57.9	16.6	48.3	13.1	38.6	10.3	29.0	7.92

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

MMY-AP5216HT8P-ME (52HP, 145.8kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	59.8	59.8	22.8	53.8	19.0	47.8	15.5	41.9	12.4	35.9	9.63	-	-	-	-	-	-
48 °C	97.6	97.6	30.9	87.8	25.7	78.1	21.0	68.3	16.7	58.6	13.0	48.8	9.79	39.0	7.05	-	-
46 °C	121.6	121.6	40.9	109.4	34.0	97.3	27.7	85.1	22.2	73.0	17.2	60.8	13.0	48.6	9.33	36.5	6.36
44 °C	126.9	126.9	40.2	114.2	33.5	101.5	27.5	88.8	22.0	76.1	17.2	63.4	13.0	50.7	9.37	38.1	6.38
42 °C	131.7	131.7	39.5	118.5	33.0	105.3	27.0	92.2	21.7	79.0	17.0	65.8	12.8	52.7	9.28	39.5	6.32
40 °C	136.1	136.1	38.7	122.5	32.4	108.9	26.7	95.3	21.5	81.7	16.8	68.1	12.8	54.4	9.26	40.8	6.31
39 °C	138.2	138.2	38.3	124.4	32.1	110.6	26.5	96.7	21.3	82.9	16.8	69.1	12.7	55.3	9.23	41.5	6.28
37 °C	142.2	142.2	37.5	127.9	31.5	113.7	25.9	99.5	21.0	85.3	16.5	71.1	12.5	56.9	9.09	42.6	6.19
35 °C	145.8	145.8	36.7	131.2	30.8	116.6	25.5	102.1	20.6	87.5	16.2	72.9	12.3	58.3	8.98	43.7	6.11
33 °C	145.8	145.8	34.1	131.2	28.7	116.6	23.7	102.1	19.2	87.5	15.2	72.9	11.6	58.3	8.41	43.7	5.74
31 °C	145.8	145.8	31.9	131.2	26.8	116.6	22.2	102.1	18.0	87.5	14.2	72.9	10.8	58.3	7.90	43.7	5.40
30 °C	145.8	145.8	30.8	131.2	25.9	116.6	21.5	102.1	17.4	87.5	13.7	72.9	10.5	58.3	7.66	43.7	5.24
29 °C	145.8	145.8	29.8	131.2	25.1	116.6	20.8	102.1	16.8	87.5	13.3	72.9	10.2	58.3	7.43	43.7	5.09
27 °C	145.8	145.8	27.9	131.2	23.5	116.6	19.5	102.1	15.8	87.5	12.5	72.9	9.55	58.3	6.99	43.7	4.80
25 °C	145.8	145.8	26.2	131.2	22.0	116.6	18.3	102.1	14.8	87.5	11.7	72.9	8.98	58.3	6.58	43.7	4.52
23 °C	145.8	145.8	25.1	131.2	21.1	116.6	17.5	102.1	14.2	87.5	11.3	72.9	8.63	58.3	6.33	43.7	4.36
21 °C	145.8	145.8	24.6	131.2	20.8	116.6	17.2	102.1	14.0	87.5	11.1	72.9	8.49	58.3	6.23	43.7	4.30
20 °C	145.8	145.8	24.4	131.2	20.6	116.6	17.1	102.1	13.9	87.5	11.0	72.9	8.43	58.3	6.19	43.7	4.27
19 °C	145.8	145.8	24.2	131.2	20.4	116.6	16.9	102.1	13.8	87.5	10.9	72.9	8.37	58.3	6.15	43.7	4.25
17 °C	145.8	145.8	23.9	131.2	20.1	116.6	16.7	102.1	13.6	87.5	10.8	72.9	8.27	58.3	6.08	43.7	4.20
15 °C	145.8	145.8	23.6	131.2	19.9	116.6	16.5	102.1	13.4	87.5	10.65	72.9	8.18	58.3	6.01	43.7	4.16

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	53.9	53.9	22.0	48.5	19.5	43.1	15.9	37.8	12.7	32.4	9.82	-	-	-	-	-	-
48 °C	88.0	88.0	29.9	79.2	26.4	70.4	21.5	61.6	17.1	52.8	13.3	44.0	9.95	35.2	7.13	-	-
46 °C	109.7	109.7	39.5	98.7	34.9	87.7	28.4	76.8	22.7	65.8	17.6	54.8	13.2	43.9	9.44	32.9	6.39
44 °C	114.4	114.4	38.8	103.0	34.4	91.5	28.1	80.1	22.5	68.6	17.5	57.2	13.2	45.8	9.48	34.3	6.42
42 °C	118.7	118.7	38.1	106.9	33.8	95.0	27.7	83.1	22.2	71.2	17.3	59.4	13.1	47.5	9.40	35.6	6.36
40 °C	122.8	122.8	37.4	110.5	33.3	98.2	27.4	85.9	22.0	73.7	17.2	61.4	13.0	49.1	9.38	36.8	6.35
39 °C	124.7	124.7	37.0	112.2	33.0	99.7	27.1	87.3	21.8	74.8	17.1	62.3	12.9	49.9	9.35	37.4	6.33
37 °C	128.2	128.2	36.2	115.4	32.3	102.6	26.6	89.8	21.4	76.9	16.8	64.1	12.7	51.3	9.22	38.5	6.24
35 °C	131.5	131.5	35.4	118.4	31.7	105.2	26.1	92.1	21.1	78.9	16.6	65.8	12.6	52.6	9.10	39.5	6.16
33 °C	134.5	134.5	34.2	121.1	30.6	107.6	25.3	94.2	20.4	80.7	16.0	67.3	12.2	53.8	8.80	40.4	5.96
31 °C	137.3	137.3	33.1	123.5	29.6	109.8	24.4	96.1	19.7	82.4	15.5	68.6	11.7	54.9	8.50	41.2	5.75
30 °C	138.6	138.6	32.5	124.7	29.1	110.8	24.0	97.0	19.3	83.1	15.2	69.3	11.5	55.4	8.34	41.6	5.65
29 °C	139.8	139.8	31.9	125.8	28.5	111.8	23.5	97.9	19.0	83.9	14.9	69.9	11.3	55.9	8.19	41.9	5.55
27 °C	142.1	142.1	30.6	127.9	27.4	113.7	22.6	99.4	18.3	85.2	14.3	71.0	10.9	56.8	7.88	42.6	5.33
25 °C	144.1	144.1	29.4	129.7	26.3	115.3	21.7	100.9	17.5	86.5	13.8	72.1	10.4	57.7	7.56	43.2	5.12
23 °C	145.5	145.5	28.6	131.0	25.6	116.4	21.1	101.9	17.0	87.3	13.4	72.8	10.2	58.2	7.37	43.7	4.99
21 °C	145.8	145.8	28.2	131.2	25.2	116.6	20.8	102.1	16.8	87.5	13.2	72.9	10.0	58.3	7.27	43.7	4.93
20 °C	145.8	145.8	27.9	131.2	25.0	116.6	20.6	102.1	16.7	87.5	13.1	72.9	9.95	58.3	7.22	43.7	4.90
19 °C	145.8	145.8	27.7	131.2	24.8	116.6	20.5	102.1	16.5	87.5	13.0	72.9	9.88	58.3	7.17	43.7	4.87
17 °C	145.8	145.8	27.3	131.2	24.4	116.6	20.2	102.1	16.3	87.5	12.8	72.9	9.75	58.3	7.08	43.7	4.81
15 °C	145.8	145.8	27.0	131.2	24.1	116.6	19.9	102.1	16.1	87.5	12.7	72.9	9.64	58.3	7.00	43.7	4.76

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	162.0	162.0	33.8	145.8	28.8	129.6	24.3	113.4	20.2	97.2	16.5	81.0	13.3	64.8	10.5	48.6	8.07
13.0	11.8	162.0	162.0	35.1	145.8	29.9	129.6	25.1	113.4	20.9	97.2	17.0	81.0	13.6	64.8	10.7	48.6	8.22
11.0	9.8	162.0	162.0	36.5	145.8	31.1	129.6	26.1	113.4	21.6	97.2	17.6	81.0	14.1	64.8	11.0	48.6	8.40
9.0	7.9	162.0	162.0	38.0	145.8	32.3	129.6	27.1	113.4	22.4	97.2	18.2	81.0	14.5	64.8	11.3	48.6	8.57
7.0	6.0	162.0	162.0	39.7	145.8	33.7	129.6	28.2	113.4	23.3	97.2	18.8	81.0	15.0	64.8	11.6	48.6	8.76
5.0	4.1	156.6	156.6	39.4	140.9	33.5	125.3	28.0	109.6	23.1	94.0	18.7	78.3	14.9	62.6	11.5	47.0	8.71
3.0	2.2	151.2	151.2	39.2	136.1	33.3	121.0	27.9	105.8	23.0	90.7	18.6	75.6	14.8	60.5	11.4	45.4	8.65
0.0	-0.7	143.0	143.0	38.8	128.7	32.9	114.4	27.6	100.1	22.7	85.8	18.4	71.5	14.6	57.2	11.3	42.9	8.57
-3.0	-3.7	134.5	134.5	38.4	121.0	32.6	107.6	27.3	94.1	22.5	80.7	18.2	67.2	14.5	53.8	11.2	40.3	8.48
-5.0	-5.6	129.1	129.1	38.2	116.2	32.4	103.3	27.1	90.4	22.4	77.4	18.1	64.5	14.4	51.6	11.1	38.7	8.43
-7.0	-7.6	123.4	123.4	37.9	111.1	32.2	98.7	26.9	86.4	22.2	74.0	18.0	61.7	14.3	49.4	11.1	37.0	8.37
-10	-10.5	115.2	115.2	37.5	103.7	31.8	92.1	26.7	80.6	22.0	69.1	17.8	57.6	14.1	46.1	11.0	34.6	8.28
-14.5	-15.0	102.4	102.4	36.9	92.2	31.3	81.9	26.2	71.7	21.6	61.4	17.5	51.2	13.9	41.0	10.8	30.7	8.15

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

MMY-AP5416HT8P-ME (54HP, 152.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	68.6	68.6	24.2	61.7	19.8	54.9	15.9	48.0	12.4	41.2	9.44	34.3	6.95	-	-	-	-
48 °C	103.9	103.9	33.2	93.5	27.2	83.1	21.8	72.7	17.0	62.3	12.9	52.0	9.52	41.6	6.75	-	-
46 °C	122.1	122.1	41.2	109.9	33.7	97.7	27.0	85.5	21.2	73.3	16.1	61.1	11.9	48.8	8.41	36.6	5.78
44 °C	129.8	129.8	41.3	116.8	34.0	103.8	27.4	90.9	21.5	77.9	16.5	64.9	12.2	51.9	8.68	38.9	5.95
42 °C	135.5	135.5	41.3	122.0	34.1	108.4	27.5	94.9	21.7	81.3	16.7	67.8	12.4	54.2	8.83	40.7	6.05
40 °C	140.8	140.8	41.3	126.7	34.0	112.6	27.5	98.5	21.8	84.5	16.7	70.4	12.4	56.3	8.88	42.2	6.08
39 °C	143.2	143.2	41.2	128.9	34.0	114.6	27.6	100.3	21.8	85.9	16.8	71.6	12.5	57.3	8.93	43.0	6.11
37 °C	147.8	147.8	41.0	133.0	34.0	118.3	27.6	103.5	21.9	88.7	16.9	73.9	12.6	59.1	9.01	44.3	6.16
35 °C	152.0	152.0	40.8	136.8	33.9	121.6	27.6	106.4	22.0	91.2	17.0	76.0	12.7	60.8	9.16	45.6	6.25
33 °C	152.0	152.0	37.7	136.8	31.3	121.6	25.6	106.4	20.4	91.2	15.8	76.0	11.9	60.8	8.55	45.6	5.86
31 °C	152.0	152.0	35.1	136.8	29.1	121.6	23.8	106.4	19.0	91.2	14.7	76.0	11.1	60.8	8.01	45.6	5.52
30 °C	152.0	152.0	33.8	136.8	28.1	121.6	22.9	106.4	18.3	91.2	14.2	76.0	10.7	60.8	7.76	45.6	5.35
29 °C	152.0	152.0	32.7	136.8	27.1	121.6	22.2	106.4	17.7	91.2	13.8	76.0	10.4	60.8	7.52	45.6	5.20
27 °C	152.0	152.0	30.5	136.8	25.4	121.6	20.7	106.4	16.6	91.2	12.9	76.0	9.73	60.8	7.06	45.6	4.90
25 °C	152.0	152.0	28.5	136.8	23.7	121.6	19.4	106.4	15.5	91.2	12.1	76.0	9.14	60.8	6.65	45.6	4.62
23 °C	152.0	152.0	27.3	136.8	22.7	121.6	18.6	106.4	14.9	91.2	11.6	76.0	8.78	60.8	6.39	45.6	4.46
21 °C	152.0	152.0	26.8	136.8	22.3	121.6	18.2	106.4	14.6	91.2	11.4	76.0	8.63	60.8	6.30	45.6	4.40
20 °C	152.0	152.0	26.5	136.8	22.1	121.6	18.1	106.4	14.5	91.2	11.3	76.0	8.57	60.8	6.26	45.6	4.38
19 °C	152.0	152.0	26.3	136.8	21.9	121.6	17.9	106.4	14.4	91.2	11.2	76.0	8.51	60.8	6.22	45.6	4.35
17 °C	152.0	152.0	25.9	136.8	21.6	121.6	17.7	106.4	14.2	91.2	11.1	76.0	8.41	60.8	6.15	45.6	4.31
15 °C	152.0	152.0	25.6	136.8	21.4	121.6	17.5	106.4	14.0	91.2	11.0	76.0	8.32	60.8	6.09	45.6	4.28

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	61.9	61.9	23.3	55.7	20.2	49.5	16.2	43.3	12.7	37.1	9.62	30.9	7.07	-	-	-	-
48 °C	93.7	93.7	32.1	84.3	27.5	75.0	22.1	65.6	17.2	56.2	13.1	46.9	9.61	37.5	6.79	-	-
46 °C	110.1	110.1	39.8	99.1	34.5	88.1	27.6	77.1	21.6	66.1	16.4	55.1	12.1	44.1	8.52	33.0	5.81
44 °C	117.1	117.1	39.9	105.4	34.6	93.7	27.9	81.9	21.9	70.2	16.7	58.5	12.4	46.8	8.77	35.1	5.97
42 °C	122.2	122.2	39.9	110.0	34.6	97.8	28.0	85.6	22.1	73.3	16.9	61.1	12.5	48.9	8.91	36.7	6.07
40 °C	127.0	127.0	39.9	114.3	34.6	101.6	27.9	88.9	22.1	76.2	16.9	63.5	12.6	50.8	8.95	38.1	6.09
39 °C	129.2	129.2	39.8	116.3	34.5	103.3	27.9	90.4	22.1	77.5	17.0	64.6	12.6	51.7	8.99	38.8	6.12
37 °C	133.3	133.3	39.6	120.0	34.4	106.7	27.9	93.3	22.1	80.0	17.0	66.7	12.7	53.3	9.06	40.0	6.16
35 °C	137.1	137.1	39.4	123.4	34.2	109.7	27.9	96.0	22.2	82.3	17.2	68.5	12.8	54.8	9.20	41.1	6.25
33 °C	140.5	140.5	38.1	126.5	33.1	112.4	26.9	98.4	21.4	84.3	16.6	70.3	12.4	56.2	8.89	42.2	6.05
31 °C	143.6	143.6	36.8	129.2	31.9	114.9	26.0	100.5	20.7	86.2	16.0	71.8	12.0	57.4	8.58	43.1	5.84
30 °C	145.0	145.0	36.1	130.5	31.4	116.0	25.5	101.5	20.3	87.0	15.7	72.5	11.8	58.0	8.43	43.5	5.73
29 °C	146.4	146.4	35.4	131.7	30.8	117.1	25.1	102.5	19.9	87.8	15.4	73.2	11.5	58.5	8.27	43.9	5.62
27 °C	148.9	148.9	34.1	134.0	29.6	119.1	24.1	104.2	19.2	89.3	14.8	74.4	11.1	59.5	7.96	44.7	5.41
25 °C	151.1	151.1	32.7	136.0	28.4	120.8	23.1	105.7	18.4	90.6	14.3	75.5	10.7	60.4	7.64	45.3	5.19
23 °C	151.9	151.9	31.6	136.7	27.5	121.5	22.4	106.3	17.8	91.1	13.8	75.9	10.3	60.8	7.40	45.6	5.04
21 °C	152.0	152.0	31.0	136.8	27.0	121.6	22.0	106.4	17.5	91.2	13.6	76.0	10.2	60.8	7.29	45.6	4.98
20 °C	152.0	152.0	30.7	136.8	26.7	121.6	21.8	106.4	17.4	91.2	13.5	76.0	10.1	60.8	7.24	45.6	4.95
19 °C	152.0	152.0	30.5	136.8	26.5	121.6	21.6	106.4	17.2	91.2	13.3	76.0	10.0	60.8	7.20	45.6	4.92
17 °C	152.0	152.0	30.0	136.8	26.1	121.6	21.3	106.4	17.0	91.2	13.2	76.0	9.88	60.8	7.11	45.6	4.87
15 °C	152.0	152.0	29.7	136.8	25.8	121.6	21.0	106.4	16.8	91.2	13.0	76.0	9.77	60.8	7.04	45.6	4.83

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	37.1	153.9	31.7	136.8	26.7	119.7	22.2	102.6	18.1	85.5	14.5	68.4	11.3	51.3	8.48
13.0	11.8	171.0	171.0	38.6	153.9	32.9	136.8	27.7	119.7	23.0	102.6	18.7	85.5	14.9	68.4	11.5	51.3	8.66
11.0	9.8	171.0	171.0	40.2	153.9	34.2	136.8	28.8	119.7	23.8	102.6	19.3	85.5	15.4	68.4	11.9	51.3	8.87
9.0	7.9	171.0	171.0	41.8	153.9	35.6	136.8	29.9	119.7	24.7	102.6	20.0	85.5	15.8	68.4	12.2	51.3	9.08
7.0	6.0	171.0	171.0	43.6	153.9	37.1	136.8	31.1	119.7	25.6	102.6	20.7	85.5	16.4	68.4	12.6	51.3	9.30
5.0	4.1	165.0	165.0	43.3	148.5	36.8	132.0	30.8	115.5	25.4	99.0	20.6	82.5	16.3	66.0	12.5	49.5	9.24
3.0	2.2	159.1	159.1	43.0	143.2	36.5	127.3	30.6	111.4	25.3	95.4	20.4	79.5	16.1	63.6	12.4	47.7	9.17
0.0	-0.7	150.0	150.0	42.5	135.0	36.1	120.0	30.3	105.0	25.0	90.0	20.2	75.0	16.0	60.0	12.2	45.0	9.07
-3.0	-3.7	140.6	140.6	42.0	126.5	35.7	112.5	29.9	98.4	24.7	84.3	20.0	70.3	15.8	56.2	12.1	42.2	8.97
-5.0	-5.6	134.6	134.6	41.7	121.2	35.4	107.7	29.7	94.2	24.5	80.8	19.8	67.3	15.7	53.8	12.0	40.4	8.90
-7.0	-7.6	128.3	128.3	41.4	115.5	35.2	102.7	29.5	89.8	24.3	77.0	19.7	64.2	15.5	51.3	11.9	38.5	8.83
-10	-10.5	119.2	119.2	40.9	107.3	34.8	95.4	29.1	83.5	24.0	71.5	19.4	59.6	15.4	47.7	11.8	35.8	8.73
-14.5	-15.0	105.1	105.1	40.2	94.6	34.1	84.1	28.6	73.6	23.6	63.1	19.1	52.6	15.1	42.1	11.6	31.5	8.57

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

MMY-AP5616HT8P-ME (56HP, 157.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	70.4	70.4	24.2	63.4	19.8	56.3	15.8	49.3	12.4	42.2	9.39	35.2	6.88	-	-	-	-
48 °C	106.2	106.2	34.8	95.6	28.4	85.0	22.7	74.3	17.8	63.7	13.5	53.1	9.87	42.5	6.96	-	-
46 °C	125.6	125.6	42.1	113.0	34.4	100.5	27.6	87.9	21.5	75.4	16.3	62.8	12.0	50.2	8.5	37.7	5.76
44 °C	132.5	132.5	42.5	119.3	34.9	106.0	28.1	92.8	22.1	79.5	16.8	66.3	12.5	53.0	8.8	39.8	5.99
42 °C	138.9	138.9	42.8	125.0	35.2	111.1	28.4	97.2	22.4	83.3	17.1	69.4	12.9	55.5	9.1	41.7	6.19
40 °C	144.7	144.7	43.0	130.2	35.4	115.7	28.6	101.3	22.6	86.8	17.3	72.3	13.3	57.9	9.4	43.4	6.37
39 °C	147.4	147.4	43.0	132.6	35.5	117.9	28.7	103.2	22.7	88.4	17.5	73.7	13.4	59.0	9.5	44.2	6.45
37 °C	152.4	152.4	43.0	137.2	35.6	121.9	28.9	106.7	22.9	91.5	17.6	76.2	13.7	61.0	9.7	45.7	6.60
35 °C	157.0	157.0	43.0	141.3	35.6	125.6	29.0	109.9	23.0	94.2	17.8	78.5	14.0	62.8	9.86	47.1	6.71
33 °C	157.0	157.0	39.7	141.3	32.9	125.6	26.8	109.9	21.3	94.2	16.5	78.5	13.0	62.8	9.18	47.1	6.30
31 °C	157.0	157.0	36.8	141.3	30.5	125.6	24.8	109.9	19.8	94.2	15.3	78.5	12.05	62.8	8.58	47.1	5.93
30 °C	157.0	157.0	35.5	141.3	29.4	125.6	24.0	109.9	19.1	94.2	14.8	78.5	11.64	62.8	8.30	47.1	5.75
29 °C	157.0	157.0	34.2	141.3	28.4	125.6	23.1	109.9	18.4	94.2	14.3	78.5	11.25	62.8	8.04	47.1	5.59
27 °C	157.0	157.0	31.9	141.3	26.5	125.6	21.6	109.9	17.2	94.2	13.4	78.5	10.53	62.8	7.55	47.1	5.27
25 °C	157.0	157.0	29.9	141.3	24.8	125.6	20.2	109.9	16.1	94.2	12.5	78.5	9.88	62.8	7.10	47.1	4.98
23 °C	157.0	157.0	28.6	141.3	23.7	125.6	19.4	109.9	15.5	94.2	12.0	78.5	9.48	62.8	6.83	47.1	4.81
21 °C	157.0	157.0	28.0	141.3	23.3	125.6	19.0	109.9	15.2	94.2	11.8	78.5	9.31	62.8	6.72	47.1	4.75
20 °C	157.0	157.0	27.8	141.3	23.1	125.6	18.8	109.9	15.1	94.2	11.7	78.5	9.24	62.8	6.68	47.1	4.73
19 °C	157.0	157.0	27.6	141.3	22.9	125.6	18.7	109.9	14.9	94.2	11.6	78.5	9.18	62.8	6.64	47.1	4.71
17 °C	157.0	157.0	27.2	141.3	22.6	125.6	18.5	109.9	14.8	94.2	11.5	78.5	9.07	62.8	6.57	47.1	4.67
15 °C	157.0	157.0	26.8	141.3	22.3	125.6	18.2	109.9	14.6	94.2	11.4	78.5	8.97	62.8	6.51	47.1	4.63

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	63.5	63.5	23.4	57.1	20.2	50.8	16.2	44.4	12.6	38.1	9.58	31.7	7.00	-	-	-	-
48 °C	95.8	95.8	33.6	86.2	29.0	76.6	23.2	67.1	18.1	57.5	13.7	47.9	10.0	38.3	7.05	-	-
46 °C	113.3	113.3	40.7	102.0	35.3	90.6	28.3	79.3	22.1	68.0	16.7	56.6	12.2	45.3	8.59	34.0	5.80
44 °C	119.5	119.5	41.0	107.6	35.7	95.6	28.7	83.7	22.6	71.7	17.2	59.8	12.6	47.8	8.92	35.9	6.02
42 °C	125.2	125.2	41.3	112.7	36.0	100.2	29.0	87.7	22.9	75.1	17.5	62.6	12.9	50.1	9.11	37.6	6.15
40 °C	130.5	130.5	41.5	117.4	36.2	104.4	29.2	91.3	23.0	78.3	17.6	65.2	13.0	52.2	9.22	39.1	6.22
39 °C	132.9	132.9	41.5	119.6	36.3	106.3	29.3	93.0	23.2	79.8	17.8	66.5	13.2	53.2	9.36	39.9	6.31
37 °C	137.5	137.5	41.6	123.7	36.3	110.0	29.4	96.2	23.3	82.5	17.9	68.7	13.3	55.0	9.45	41.2	6.37
35 °C	141.6	141.6	41.5	127.4	36.3	113.3	29.5	99.1	23.4	85.0	18.1	70.8	13.4	56.6	9.57	42.5	6.44
33 °C	145.3	145.3	40.1	130.8	35.1	116.2	28.5	101.7	22.6	87.2	17.5	72.7	13.0	58.1	9.25	43.6	6.23
31 °C	148.6	148.6	38.7	133.8	33.9	118.9	27.5	104.0	21.9	89.2	16.9	74.3	12.5	59.5	8.93	44.6	6.02
30 °C	150.2	150.2	38.0	135.1	33.3	120.1	27.0	105.1	21.5	90.1	16.6	75.1	12.3	60.1	8.77	45.0	5.91
29 °C	151.6	151.6	37.3	136.4	32.7	121.3	26.5	106.1	21.1	91.0	16.2	75.8	12.1	60.6	8.61	45.5	5.80
27 °C	154.2	154.2	35.9	138.8	31.4	123.4	25.5	108.0	20.3	92.5	15.6	77.1	11.6	61.7	8.28	46.3	5.58
25 °C	156.5	156.5	34.5	140.9	30.2	125.2	24.5	109.6	19.5	93.9	15.0	78.3	11.2	62.6	7.95	47.0	5.35
23 °C	157.0	157.0	33.2	141.3	29.0	125.6	23.6	109.9	18.7	94.2	14.4	78.5	10.8	62.8	7.67	47.1	5.18
21 °C	157.0	157.0	32.5	141.3	28.5	125.6	23.1	109.9	18.4	94.2	14.2	78.5	10.6	62.8	7.55	47.1	5.10
20 °C	157.0	157.0	32.2	141.3	28.2	125.6	22.9	109.9	18.2	94.2	14.1	78.5	10.5	62.8	7.50	47.1	5.07
19 °C	157.0	157.0	32.0	141.3	28.0	125.6	22.8	109.9	18.1	94.2	14.0	78.5	10.4	62.8	7.45	47.1	5.04
17 °C	157.0	157.0	31.5	141.3	27.6	125.6	22.4	109.9	17.8	94.2	13.8	78.5	10.3	62.8	7.36	47.1	4.99
15 °C	157.0	157.0	31.1	141.3	27.3	125.6	22.2	109.9	17.6	94.2	13.6	78.5	10.2	62.8	7.29	47.1	4.95

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		Capacity (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	38.7	158.4	33.0	140.8	27.8	123.2	23.1	105.6	18.8	88.0	15.0	70.4	11.6	52.8	8.77
13.0	11.8	176.0	176.0	40.2	158.4	34.3	140.8	28.8	123.2	23.9	105.6	19.4	88.0	15.4	70.4	11.9	52.8	8.96
11.0	9.8	176.0	176.0	41.9	158.4	35.6	140.8	29.9	123.2	24.7	105.6	20.1	88.0	15.9	70.4	12.3	52.8	9.17
9.0	7.9	176.0	176.0	43.6	158.4	37.1	140.8	31.1	123.2	25.7	105.6	20.8	88.0	16.4	70.4	12.6	52.8	9.39
7.0	6.0	176.0	176.0	45.5	158.4	38.6	140.8	32.3	123.2	26.6	105.6	21.5	88.0	17.0	70.4	13.0	52.8	9.62
5.0	4.1	169.7	169.7	45.1	152.7	38.3	135.8	32.1	118.8	26.4	101.8	21.4	84.8	16.8	67.9	12.9	50.9	9.55
3.0	2.2	163.4	163.4	44.8	147.1	38.0	130.7	31.9	114.4	26.2	98.0	21.2	81.7	16.7	65.4	12.8	49.0	9.47
0.0	-0.7	153.8	153.8	44.3	138.4	37.6	123.0	31.5	107.6	25.9	92.3	20.9	76.9	16.5	61.5	12.7	46.1	9.36
-3.0	-3.7	143.8	143.8	43.7	129.4	37.1	115.1	31.1	100.7	25.6	86.3	20.7	71.9	16.3	57.5	12.5	43.1	9.25
-5.0	-5.6	137.5	137.5	43.4	123.8	36.8	110.0	30.8	96.3	25.4	82.5	20.5	68.8	16.2	55.0	12.4	41.3	9.17
-7.0	-7.6	130.9	130.9	43.0	117.8	36.5	104.7	30.6	91.6	25.2	78.5	20.3	65.4	16.1	52.4	12.3	39.3	9.10
-10	-10.5	121.3	121.3	42.5	109.1	36.1	97.0	30.2	84.9	24.9	72.8	20.1	60.6	15.9	48.5	12.1	36.4	8.99
-14.5	-15.0	106.3	106.3	41.7	95.7	35.4	85.1	29.6	74.4	24.4	63.8	19.7	53.2	15.5	42.5	11.9	31.9	8.81

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

MMY-MMY-AP1626HT8P-ME (16HP, 45kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	23.4	23.4	11.2	21.1	9.33	18.7	7.63	16.4	6.14	14.0	4.86	-	-	-	-	-	-
48 °C	39.2	39.2	12.9	35.3	10.7	31.4	8.8	27.4	7.07	23.5	5.60	19.6	4.37	15.7	3.38	-	-
46 °C	40.6	40.6	13.1	36.5	10.9	32.5	8.88	28.4	7.14	24.4	5.66	20.3	4.41	16.2	3.42	12.2	2.66
44 °C	41.4	41.4	12.4	37.2	10.3	33.1	8.43	29.0	6.79	24.8	5.38	20.7	4.19	16.6	3.25	12.4	2.53
42 °C	42.1	42.1	11.8	37.9	9.78	33.7	8.00	29.5	6.44	25.3	5.10	21.1	3.98	16.8	3.08	12.6	2.40
40 °C	42.9	42.9	11.2	38.6	9.27	34.3	7.58	30.0	6.10	25.7	4.83	21.4	3.77	17.1	2.92	12.9	2.28
39 °C	43.2	43.2	10.9	38.9	9.02	34.6	7.37	30.3	5.94	25.9	4.70	21.6	3.67	17.3	2.84	13.0	2.21
37 °C	44.0	44.0	10.3	39.6	8.52	35.2	6.97	30.8	5.61	26.4	4.44	22.0	3.46	17.6	2.68	13.2	2.09
35 °C	44.7	44.7	9.67	40.3	8.08	35.8	6.65	31.3	5.39	26.8	4.30	22.4	3.38	17.9	2.63	13.4	2.05
33 °C	44.8	44.8	9.11	40.3	7.61	35.8	6.27	31.4	5.10	26.9	4.07	22.4	3.21	17.9	2.51	13.4	1.96
31 °C	44.8	44.8	8.55	40.3	7.15	35.8	5.90	31.4	4.80	26.9	3.85	22.4	3.04	17.9	2.38	13.4	1.87
30 °C	44.8	44.8	8.28	40.3	6.93	35.8	5.72	31.4	4.66	26.9	3.73	22.4	2.96	17.9	2.32	13.4	1.83
29 °C	44.8	44.8	8.02	40.3	6.71	35.8	5.54	31.4	4.52	26.9	3.63	22.4	2.87	17.9	2.26	13.4	1.78
27 °C	44.8	44.8	7.51	40.3	6.29	35.8	5.20	31.4	4.24	26.9	3.41	22.4	2.71	17.9	2.14	13.4	1.70
25 °C	44.8	44.8	7.02	40.3	5.89	35.8	4.87	31.4	3.98	26.9	3.21	22.4	2.56	17.9	2.02	13.4	1.61
23 °C	44.8	44.8	6.70	40.3	4.89	35.8	4.08	31.4	3.88	26.9	3.21	22.4	2.55	17.9	1.97	13.4	1.57
21 °C	44.8	44.8	6.56	40.3	4.89	35.8	4.08	31.4	3.90	26.9	3.21	22.4	2.55	17.9	1.97	13.4	1.57
20 °C	44.8	44.8	6.49	40.3	4.89	35.8	4.08	31.4	3.90	26.9	3.21	22.4	2.55	17.9	1.97	13.4	1.57
19 °C	44.8	44.8	6.42	40.3	4.89	35.8	4.08	31.4	3.91	26.9	3.21	22.4	2.55	17.9	1.97	13.4	1.57
17 °C	44.8	44.8	6.31	40.3	4.89	35.8	4.08	31.4	3.92	26.9	3.21	22.4	2.55	17.9	1.97	13.4	1.57
15 °C	44.8	44.8	6.20	40.3	4.89	35.8	4.08	31.4	3.93	26.9	3.21	22.4	2.55	17.9	1.97	13.4	1.57

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	21.1	21.1	10.8	19.0	9.00	16.9	7.36	14.8	5.93	12.7	4.69	-	-	-	-	-	-
48 °C	35.4	35.4	12.5	31.8	10.4	28.3	8.48	24.8	6.82	21.2	5.40	17.7	4.22	14.1	3.26	-	-
46 °C	36.6	36.6	12.6	33.0	10.5	29.3	8.57	25.6	6.90	22.0	5.46	18.3	4.26	14.6	3.30	11.0	2.57
44 °C	37.3	37.3	12.0	33.6	10.0	29.9	8.14	26.1	6.55	22.4	5.19	18.7	4.05	14.9	3.13	11.2	2.44
42 °C	38.0	38.0	11.4	34.2	9.45	30.4	7.73	26.6	6.22	22.8	4.92	19.0	3.84	15.2	2.97	11.4	2.32
40 °C	38.7	38.7	10.8	34.8	8.95	30.9	7.32	27.1	5.89	23.2	4.67	19.3	3.64	15.5	2.82	11.6	2.20
39 °C	39.0	39.0	10.5	35.1	8.70	31.2	7.12	27.3	5.73	23.4	4.54	19.5	3.54	15.6	2.74	11.7	2.14
37 °C	39.7	39.7	9.90	35.7	8.22	31.7	6.72	27.8	5.41	23.8	4.29	19.8	3.34	15.9	2.59	11.9	2.02
35 °C	40.4	40.4	9.34	36.3	7.80	32.3	6.42	28.2	5.21	24.2	4.16	20.2	3.27	16.1	2.54	12.1	1.98
33 °C	41.0	41.0	9.03	36.9	7.54	32.8	6.21	28.7	5.04	24.6	4.02	20.5	3.16	16.4	2.46	12.3	1.91
31 °C	41.7	41.7	8.72	37.5	7.28	33.4	5.99	29.2	4.86	25.0	3.88	20.9	3.05	16.7	2.37	12.5	1.85
30 °C	42.0	42.0	8.56	37.8	7.15	33.6	5.89	29.4	4.77	25.2	3.81	21.0	2.99	16.8	2.33	12.6	1.81
29 °C	42.4	42.4	8.40	38.1	7.02	33.9	5.78	29.7	4.68	25.4	3.74	21.2	2.94	17.0	2.29	12.7	1.78
27 °C	43.1	43.1	8.08	38.7	6.75	34.4	5.56	30.1	4.51	25.8	3.60	21.5	2.83	17.2	2.20	12.9	1.71
25 °C	43.7	43.7	7.76	39.4	6.48	35.0	5.34	30.6	4.33	26.2	3.45	21.9	2.71	17.5	2.11	13.1	1.64
23 °C	44.4	44.4	7.60	39.9	5.49	35.5	4.55	31.1	4.20	26.6	3.42	22.2	2.69	17.7	2.06	13.3	1.60
21 °C	44.8	44.8	7.55	40.3	5.58	35.8	4.62	31.4	4.28	26.9	3.47	22.4	2.72	17.9	2.08	13.4	1.61
20 °C	44.8	44.8	7.47	40.3	5.58	35.8	4.62	31.4	4.28	26.9	3.47	22.4	2.72	17.9	2.08	13.4	1.61
19 °C	44.8	44.8	7.39	40.3	5.58	35.8	4.62	31.4	4.29	26.9	3.47	22.4	2.72	17.9	2.08	13.4	1.61
17 °C	44.8	44.8	7.25	40.3	5.58	35.8	4.62	31.4	4.30	26.9	3.47	22.4	2.72	17.9	2.08	13.4	1.61
15 °C	44.8	44.8	7.13	40.3	5.58	35.8	4.62	31.4	4.31	26.9	3.47	22.4	2.72	17.9	2.08	13.4	1.61

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	9.02	45.0	7.61	40.0	6.35	35.0	5.24	30.0	4.28	25.0	3.47	20.0	2.81	15.0	2.30
13.0	11.8	50.0	50.0	9.40	45.0	7.91	40.0	6.59	35.0	5.42	30.0	4.41	25.0	3.55	20.0	2.86	15.0	2.32
11.0	9.8	50.0	50.0	9.83	45.0	8.26	40.0	6.86	35.0	5.63	30.0	4.56	25.0	3.66	20.0	2.92	15.0	2.36
9.0	7.9	50.0	50.0	10.3	45.0	8.62	40.0	7.14	35.0	5.84	30.0	4.71	25.0	3.76	20.0	2.99	15.0	2.39
7.0	6.0	50.0	50.0	10.8	45.0	9.01	40.0	7.45	35.0	6.07	30.0	4.88	25.0	3.88	20.0	3.06	15.0	2.43
5.0	4.1	48.5	48.5	10.7	43.7	8.98	38.8	7.43	34.0	6.06	29.1	4.87	24.3	3.87	19.4	3.05	14.6	2.42
3.0	2.2	47.1	47.1	10.7	42.4	8.96	37.7	7.40	33.0	6.04	28.2	4.85	23.5	3.86	18.8	3.04	14.1	2.42
0.0	-0.7	44.8	44.8	10.6	40.4	8.91	35.9	7.37	31.4	6.01	26.9	4.83	22.4	3.84	17.9	3.03	13.5	2.40
-3.0	-3.7	42.5	42.5	10.6	38.3	8.87	34.0	7.33	29.8	5.98	25.5	4.81	21.3	3.82	17.0	3.01	12.8	2.39
-5.0	-5.6	41.1	41.1	10.6	37.0	8.84	32.9	7.31	28.8	5.96	24.6	4.79	20.5	3.81	16.4	3.01	12.3	2.38
-7.0	-7.6	39.5	39.5	10.5	35.6	8.82	31.6	7.29	27.7	5.94	23.7	4.78	19.8	3.80	15.8	3.00	11.9	2.38
-10	-10.5	37.3	37.3	10.5	33.6	8.77	29.8	7.25	26.1	5.91	22.4	4.75	18.7	3.78	14.9	2.98	11.2	2.37
-14.5	-15.0	33.8	33.8	10.4	30.5	8.71	27.1	7.20	23.7	5.87	20.3	4.72	16.9	3.75	13.5	2.96	10.15	2.35

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

MMY-AP1826HT8P-ME (18HP, 50.4kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	24.9	24.9	10.7	22.4	8.82	19.9	7.17	17.4	5.73	14.9	4.49	-	-	-	-	-	-
48 °C	39.8	39.8	12.7	35.8	10.5	31.8	8.5	27.9	6.82	23.9	5.35	19.9	4.13	15.9	3.16	-	-
46 °C	45.5	45.5	15.3	41.0	12.6	36.4	10.23	31.9	8.16	27.3	6.39	22.8	4.92	18.2	3.76	13.7	2.90
44 °C	46.4	46.4	14.5	41.8	11.9	37.1	9.69	32.5	7.73	27.9	6.05	23.2	4.66	18.6	3.56	13.9	2.74
42 °C	47.3	47.3	13.7	42.6	11.3	37.9	9.22	33.1	7.38	28.4	5.80	23.7	4.48	18.9	3.43	14.2	2.64
40 °C	48.2	48.2	12.9	43.4	10.7	38.6	8.74	33.7	7.01	28.9	5.52	24.1	4.28	19.3	3.28	14.5	2.53
39 °C	48.6	48.6	12.6	43.8	10.4	38.9	8.49	34.1	6.81	29.2	5.36	24.3	4.16	19.5	3.19	14.6	2.45
37 °C	49.5	49.5	11.8	44.6	9.82	39.6	8.03	34.7	6.46	29.7	5.10	24.8	3.97	19.8	3.05	14.9	2.35
35 °C	50.4	50.4	11.1	45.3	9.25	40.3	7.59	35.3	6.12	30.2	4.86	25.2	3.79	20.1	2.91	15.1	2.24
33 °C	50.4	50.4	10.3	45.4	8.56	40.3	7.03	35.3	5.68	30.2	4.52	25.2	3.53	20.2	2.73	15.1	2.12
31 °C	50.4	50.4	9.81	45.4	8.18	40.3	6.72	35.3	5.44	30.2	4.33	25.2	3.39	20.2	2.63	15.1	2.04
30 °C	50.4	50.4	9.50	45.4	7.93	40.3	6.52	35.3	5.28	30.2	4.20	25.2	3.30	20.2	2.56	15.1	2.00
29 °C	50.4	50.4	9.20	45.4	7.68	40.3	6.32	35.3	5.12	30.2	4.08	25.2	3.21	20.2	2.50	15.1	1.95
27 °C	50.4	50.4	8.62	45.4	7.20	40.3	5.93	35.3	4.81	30.2	3.85	25.2	3.03	20.2	2.37	15.1	1.85
25 °C	50.4	50.4	8.07	45.4	6.75	40.3	5.57	35.3	4.52	30.2	3.62	25.2	2.86	20.2	2.24	15.1	1.76
23 °C	50.4	50.4	7.72	45.4	6.09	40.3	5.04	35.3	4.37	30.2	3.54	25.2	2.80	20.2	2.17	15.1	1.71
21 °C	50.4	50.4	7.56	45.4	6.02	40.3	4.98	35.3	4.33	30.2	3.51	25.2	2.77	20.2	2.16	15.1	1.71
20 °C	50.4	50.4	7.48	45.4	5.99	40.3	4.96	35.3	4.32	30.2	3.49	25.2	2.76	20.2	2.15	15.1	1.70
19 °C	50.4	50.4	7.41	45.4	5.95	40.3	4.93	35.3	4.30	30.2	3.48	25.2	2.75	20.2	2.14	15.1	1.70
17 °C	50.4	50.4	7.28	45.4	5.89	40.3	4.88	35.3	4.27	30.2	3.45	25.2	2.74	20.2	2.13	15.1	1.69
15 °C	50.4	50.4	7.16	45.4	5.84	40.3	4.84	35.3	4.24	30.2	3.43	25.2	2.72	20.2	2.12	15.1	1.69

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	22.5	22.5	10.3	20.2	8.52	18.0	6.92	15.7	5.53	13.5	4.34	-	-	-	-	-	-
48 °C	35.9	35.9	12.3	32.3	10.1	28.7	8.25	25.1	6.58	21.5	5.16	18.0	3.99	14.4	3.05	-	-
46 °C	41.0	41.0	14.8	36.9	12.2	32.8	9.88	28.7	7.88	24.6	6.17	20.5	4.75	16.4	3.63	12.3	2.80
44 °C	41.9	41.9	14.0	37.7	11.5	33.5	9.36	29.3	7.46	25.1	5.84	20.9	4.50	16.7	3.44	12.6	2.65
42 °C	42.7	42.7	13.2	38.4	10.9	34.1	8.91	29.9	7.13	25.6	5.60	21.3	4.33	17.1	3.31	12.8	2.55
40 °C	43.5	43.5	12.5	39.1	10.3	34.8	8.44	30.4	6.77	26.1	5.33	21.7	4.13	17.4	3.17	13.0	2.44
39 °C	43.9	43.9	12.1	39.5	10.0	35.1	8.20	30.7	6.57	26.3	5.18	21.9	4.01	17.5	3.08	13.2	2.37
37 °C	44.7	44.7	11.4	40.2	9.5	35.7	7.76	31.3	6.24	26.8	4.93	22.3	3.83	17.9	2.94	13.4	2.26
35 °C	45.4	45.4	10.7	40.9	8.9	36.3	7.33	31.8	5.91	27.3	4.69	22.7	3.66	18.2	2.81	13.6	2.17
33 °C	46.4	46.4	10.3	41.8	8.55	37.1	7.02	32.5	5.66	27.8	4.49	23.2	3.50	18.6	2.70	13.9	2.07
31 °C	46.9	46.9	10.0	42.2	8.34	37.5	6.84	32.9	5.52	28.2	4.38	23.5	3.41	18.8	2.63	14.1	2.02
30 °C	47.3	47.3	9.8	42.6	8.19	37.8	6.72	33.1	5.42	28.4	4.30	23.7	3.35	18.9	2.58	14.2	1.99
29 °C	47.7	47.7	9.7	42.9	8.04	38.1	6.59	33.4	5.32	28.6	4.22	23.8	3.29	19.1	2.53	14.3	1.95
27 °C	48.4	48.4	9.3	43.5	7.73	38.7	6.34	33.9	5.12	29.0	4.06	24.2	3.16	19.4	2.44	14.5	1.87
25 °C	49.1	49.1	8.91	44.2	7.42	39.3	6.09	34.4	4.91	29.5	3.89	24.5	3.04	19.6	2.34	14.7	1.80
23 °C	49.8	49.8	8.73	44.8	6.84	39.8	5.62	34.8	4.79	29.9	3.83	24.9	2.99	19.9	2.28	14.9	1.76
21 °C	50.3	50.3	8.70	45.3	6.88	40.2	5.66	35.2	4.83	30.2	3.86	25.2	3.00	20.1	2.29	15.1	1.76
20 °C	50.4	50.4	8.64	45.4	6.87	40.3	5.64	35.3	4.82	30.2	3.85	25.2	3.00	20.2	2.29	15.1	1.76
19 °C	50.4	50.4	8.56	45.4	6.83	40.3	5.61	35.3	4.80	30.2	3.83	25.2	2.99	20.2	2.28	15.1	1.76
17 °C	50.4	50.4	8.40	45.4	6.76	40.3	5.56	35.3	4.76	30.2	3.80	25.2	2.97	20.2	2.27	15.1	1.75
15 °C	50.4	50.4	8.26	45.4	6.69	40.3	5.51	35.3	4.73	30.2	3.77	25.2	2.95	20.2	2.26	15.1	1.74

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	56.5	56.5	10.5	50.9	8.90	45.2	7.46	39.6	6.17	33.9	5.04	28.3	4.07	22.6	3.26	17.0	2.61
13.0	11.8	56.5	56.5	10.9	50.9	9.25	45.2	7.73	39.6	6.38	33.9	5.20	28.3	4.18	22.6	3.33	17.0	2.65
11.0	9.8	56.5	56.5	11.4	50.9	9.64	45.2	8.05	39.6	6.62	33.9	5.38	28.3	4.31	22.6	3.41	17.0	2.69
9.0	7.9	56.5	56.5	11.9	50.9	10.0	45.2	8.37	39.6	6.87	33.9	5.56	28.3	4.43	22.6	3.49	17.0	2.74
7.0	6.0	56.5	56.5	12.5	50.9	10.5	45.2	8.72	39.6	7.14	33.9	5.76	28.3	4.57	22.6	3.58	17.0	2.79
5.0	4.1	54.8	54.8	12.4	49.3	10.4	43.8	8.68	38.3	7.11	32.9	5.73	27.4	4.55	21.9	3.57	16.4	2.78
3.0	2.2	53.0	53.0	12.3	47.7	10.4	42.4	8.64	37.1	7.07	31.8	5.71	26.5	4.53	21.2	3.55	15.9	2.76
0.0	-0.7	50.3	50.3	12.3	45.3	10.3	40.3	8.58	35.2	7.02	30.2	5.67	25.2	4.50	20.1	3.53	15.1	2.75
-3.0	-3.7	47.6	47.6	12.2	42.8	10.2	38.1	8.51	33.3	6.97	28.6	5.62	23.8	4.47	19.0	3.50	14.3	2.73
-5.0	-5.6	45.9	45.9	12.1	41.3	10.2	36.7	8.47	32.1	6.94	27.5	5.60	22.9	4.45	18.3	3.48	13.8	2.71
-7.0	-7.6	44.0	44.0	12.1	39.6	10.1	35.2	8.43	30.8	6.91	26.4	5.57	22.0	4.42	17.6	3.47	13.2	2.70
-10	-10.5	41.4	41.4	12.0	37.2	10.1	33.1	8.37	28.9	6.86	24.8	5.53	20.7	4.39	16.5	3.44	12.4	2.68
-14.5	-15.0	37.2	37.2	11.8	33.5	9.96	29.8	8.28	26.1	6.78	22.3	5.47	18.6	4.34	14.9	3.40	11.2	2.65

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

MMY-AP2026HT8P-ME (20HP, 56.0kW system)

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	26.4	26.4	10.1	23.8	8.32	21.1	6.71	18.5	5.31	15.8	4.12	13.2	3.14	-	-	-	-
48 °C	40.4	40.4	12.5	36.4	10.3	32.3	8.3	28.3	6.57	24.2	5.10	20.2	3.89	16.2	2.94	-	-
46 °C	50.4	50.4	17.5	45.4	14.4	40.3	11.6	35.3	9.17	30.2	7.12	25.2	5.43	20.2	4.10	15.1	3.13
44 °C	51.5	51.5	16.5	46.3	13.6	41.2	11.0	36.0	8.67	30.9	6.73	25.7	5.13	20.6	3.87	15.4	2.96
42 °C	52.5	52.5	15.6	47.3	12.9	42.0	10.4	36.8	8.32	31.5	6.50	26.3	4.99	21.0	3.78	15.8	2.88
40 °C	53.5	53.5	14.7	48.2	12.2	42.8	9.91	37.5	7.92	32.1	6.22	26.8	4.79	21.4	3.64	16.1	2.78
39 °C	54.0	54.0	14.3	48.6	11.8	43.2	9.61	37.8	7.68	32.4	6.03	27.0	4.65	21.6	3.53	16.2	2.69
37 °C	55.0	55.0	13.4	49.5	11.1	44.0	9.10	38.5	7.31	33.0	5.77	27.5	4.47	22.0	3.41	16.5	2.60
35 °C	56.0	56.0	12.6	50.4	10.4	44.8	8.53	39.2	6.85	33.6	5.41	28.0	4.19	22.4	3.20	16.8	2.44
33 °C	56.0	56.0	11.4	50.4	9.50	44.8	7.78	39.2	6.27	33.6	4.96	28.0	3.85	22.4	2.96	16.8	2.27
31 °C	56.0	56.0	11.1	50.4	9.21	44.8	7.54	39.2	6.08	33.6	4.81	28.0	3.75	22.4	2.88	16.8	2.22
30 °C	56.0	56.0	10.7	50.4	8.92	44.8	7.31	39.2	5.90	33.6	4.68	28.0	3.64	22.4	2.81	16.8	2.17
29 °C	56.0	56.0	10.4	50.4	8.65	44.8	7.09	39.2	5.72	33.6	4.54	28.0	3.54	22.4	2.73	16.8	2.11
27 °C	56.0	56.0	9.74	50.4	8.12	44.8	6.66	39.2	5.38	33.6	4.28	28.0	3.35	22.4	2.59	16.8	2.01
25 °C	56.0	56.0	9.13	50.4	7.61	44.8	6.26	39.2	5.06	33.6	4.03	28.0	3.16	22.4	2.45	16.8	1.91
23 °C	56.0	56.0	8.74	50.4	7.30	44.8	6.00	39.2	4.86	33.6	3.87	28.0	3.04	22.4	2.37	16.8	1.86
21 °C	56.0	56.0	8.56	50.4	7.15	44.8	5.89	39.2	4.77	33.6	3.81	28.0	3.00	22.4	2.34	16.8	1.84
20 °C	56.0	56.0	8.48	50.4	7.08	44.8	5.83	39.2	4.73	33.6	3.78	28.0	2.98	22.4	2.33	16.8	1.83
19 °C	56.0	56.0	8.40	50.4	7.02	44.8	5.78	39.2	4.69	33.6	3.75	28.0	2.96	22.4	2.32	16.8	1.83
17 °C	56.0	56.0	8.25	50.4	6.90	44.8	5.68	39.2	4.62	33.6	3.70	28.0	2.92	22.4	2.29	16.8	1.81
15 °C	56.0	56.0	8.11	50.4	6.79	44.8	5.60	39.2	4.55	33.6	3.65	28.0	2.89	22.4	2.27	16.8	1.80

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	23.8	23.8	9.78	21.4	8.03	19.0	6.48	16.7	5.13	14.3	3.98	11.9	3.04	-	-	-	-
48 °C	36.4	36.4	12.1	32.8	9.93	29.2	8.01	25.5	6.34	21.9	4.92	18.2	3.75	14.6	2.83	-	-
46 °C	45.5	45.5	16.9	40.9	13.9	36.4	11.2	31.8	8.85	27.3	6.87	22.7	5.24	18.2	3.95	13.6	3.02
44 °C	46.4	46.4	16.0	41.8	13.1	37.1	10.6	32.5	8.37	27.8	6.50	23.2	4.95	18.6	3.74	13.9	2.85
42 °C	47.4	47.4	15.1	42.6	12.4	37.9	10.1	33.2	8.03	28.4	6.28	23.7	4.81	18.9	3.65	14.2	2.78
40 °C	48.3	48.3	14.2	43.5	11.7	38.6	9.57	33.8	7.65	29.0	6.00	24.1	4.62	19.3	3.52	14.5	2.68
39 °C	48.7	48.7	13.8	43.9	11.4	39.0	9.28	34.1	7.42	29.2	5.82	24.4	4.49	19.5	3.41	14.6	2.60
37 °C	49.6	49.6	12.9	44.7	10.7	39.7	8.79	34.7	7.06	29.8	5.57	24.8	4.31	19.9	3.29	14.9	2.51
35 °C	50.5	50.5	12.1	45.5	10.1	40.4	8.23	35.4	6.62	30.3	5.22	25.3	4.04	20.2	3.09	15.2	2.35
33 °C	51.8	51.8	11.5	46.6	9.57	41.4	7.82	36.2	6.29	31.1	4.96	25.9	3.84	20.7	2.93	15.5	2.24
31 °C	52.2	52.2	11.3	46.9	9.40	41.7	7.69	36.5	6.18	31.3	4.87	26.1	3.77	20.9	2.88	15.6	2.20
30 °C	52.6	52.6	11.1	47.3	9.23	42.1	7.55	36.8	6.07	31.5	4.79	26.3	3.71	21.0	2.83	15.8	2.16
29 °C	53.0	53.0	10.9	47.7	9.06	42.4	7.41	37.1	5.95	31.8	4.70	26.5	3.64	21.2	2.78	15.9	2.12
27 °C	53.7	53.7	10.5	48.3	8.71	43.0	7.13	37.6	5.73	32.2	4.52	26.9	3.50	21.5	2.67	16.1	2.04
25 °C	54.4	54.4	10.1	49.0	8.36	43.6	6.84	38.1	5.50	32.7	4.34	27.2	3.36	21.8	2.56	16.3	1.95
23 °C	55.1	55.1	9.86	49.6	8.19	44.1	6.70	38.6	5.38	33.1	4.25	27.6	3.29	22.1	2.51	16.5	1.91
21 °C	55.8	55.8	9.86	50.2	8.19	44.6	6.70	39.1	5.38	33.5	4.25	27.9	3.29	22.3	2.51	16.7	1.91
20 °C	56.0	56.0	9.82	50.4	8.16	44.8	6.67	39.2	5.36	33.6	4.23	28.0	3.28	22.4	2.50	16.8	1.91
19 °C	56.0	56.0	9.72	50.4	8.08	44.8	6.61	39.2	5.32	33.6	4.20	28.0	3.26	22.4	2.49	16.8	1.90
17 °C	56.0	56.0	9.54	50.4	7.94	44.8	6.50	39.2	5.23	33.6	4.13	28.0	3.21	22.4	2.46	16.8	1.89
15 °C	56.0	56.0	9.38	50.4	7.80	44.8	6.39	39.2	5.15	33.6	4.08	28.0	3.17	22.4	2.44	16.8	1.87

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	10.2	50.4	8.57	44.1	7.11	37.8	5.81	31.5	4.68	25.2	3.72	18.9	2.93
13.0	11.8	63.0	63.0	12.5	56.7	10.6	50.4	8.88	44.1	7.35	37.8	5.99	31.5	4.81	25.2	3.80	18.9	2.97
11.0	9.8	63.0	63.0	13.0	56.7	11.0	50.4	9.23	44.1	7.62	37.8	6.20	31.5	4.96	25.2	3.90	18.9	3.03
9.0	7.9	63.0	63.0	13.6	56.7	11.5	50.4	9.59	44.1	7.90	37.8	6.41	31.5	5.11	25.2	4.00	18.9	3.09
7.0	6.0	63.0	63.0	14.2	56.7	12.0	50.4	9.99	44.1	8.21	37.8	6.63	31.5	5.27	25.2	4.11	18.9	3.15
5.0	4.1	61.0	61.0	14.1	54.9	11.9	48.8	9.93	42.7	8.16	36.6	6.60	30.5	5.24	24.4	4.08	18.3	3.13
3.0	2.2	58.9	58.9	14.0	53.1	11.8	47.2	9.87	41.3	8.11	35.4	6.56	29.5	5.21	23.6	4.06	17.7	3.11
0.0	-0.7	55.9	55.9	13.9	50.3	11.7	44.7	9.78	39.1	8.04	33.5	6.50	27.9	5.16	22.3	4.02	16.8	3.09
-3.0	-3.7	52.7	52.7	13.7	47.4	11.6	42.1	9.69	36.9	7.97	31.6	6.44	26.3	5.11	21.1	3.99	15.8	3.06
-5.0	-5.6	50.6	50.6	13.7	45.6	11.6	40.5	9.64	35.4	7.92	30.4	6.40	25.3	5.08	20.3	3.96	15.2	3.04
-7.0	-7.6	48.5	48.5	13.6	43.6	11.5	38.8	9.58	33.9	7.87	29.1	6.36	24.2	5.05	19.4	3.94	14.5	3.02
-10	-10.5	45.4	45.4	13.5	40.9	11.4	36.3	9.49	31.8	7.80	27.2	6.30	22.7	5.01	18.2	3.90	13.6	2.99
-14.5	-15.0	40.6	40.6	13.3	36.5	11.2	32.5	9.35	28.4	7.69	24.4	6.22	20.3	4.93	16.2	3.85	12.2	2.95

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

MMY-AP3026HT8P-ME (30HP, 84.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	39.6	39.6	15.2	35.6	12.5	31.7	10.1	27.7	7.97	23.8	6.19	19.8	4.72	-	-	-	-
48 °C	60.6	60.6	18.8	54.5	15.4	48.5	12.4	42.4	9.86	36.4	7.65	30.3	5.83	24.2	4.40	-	-
46 °C	75.6	75.6	26.2	68.0	21.5	60.5	17.4	52.9	13.8	45.4	10.7	37.8	8.14	30.2	6.14	22.7	4.69
44 °C	77.2	77.2	24.8	69.5	20.4	61.8	16.4	54.0	13.0	46.3	10.1	38.6	7.70	30.9	5.81	23.2	4.43
42 °C	78.8	78.8	23.4	70.9	19.3	63.0	15.7	55.1	12.5	47.3	9.75	39.4	7.48	31.5	5.67	23.6	4.33
40 °C	80.3	80.3	22.1	72.3	18.3	64.2	14.9	56.2	11.9	48.2	9.33	40.2	7.18	32.1	5.46	24.1	4.17
39 °C	81.1	81.1	21.4	73.0	17.7	64.8	14.4	56.7	11.5	48.6	9.04	40.5	6.97	32.4	5.30	24.3	4.04
37 °C	82.5	82.5	20.1	74.3	16.7	66.0	13.7	57.8	11.0	49.5	8.66	41.3	6.70	33.0	5.12	24.8	3.90
35 °C	84.0	84.0	18.8	75.6	15.6	67.2	12.8	58.8	10.3	50.4	8.11	42.0	6.28	33.6	4.80	25.2	3.66
33 °C	84.0	84.0	17.1	75.6	14.2	67.2	11.7	58.8	9.40	50.4	7.44	42.0	5.78	33.6	4.44	25.2	3.41
31 °C	84.0	84.0	16.6	75.6	13.8	67.2	11.3	58.8	9.12	50.4	7.22	42.0	5.62	33.6	4.32	25.2	3.33
30 °C	84.0	84.0	16.1	75.6	13.4	67.2	11.0	58.8	8.8	50.4	7.01	42.0	5.47	33.6	4.21	25.2	3.25
29 °C	84.0	84.0	15.6	75.6	13.0	67.2	10.6	58.8	8.58	50.4	6.81	42.0	5.32	33.6	4.10	25.2	3.17
27 °C	84.0	84.0	14.6	75.6	12.2	67.2	10.0	58.8	8.08	50.4	6.42	42.0	5.02	33.6	3.89	25.2	3.02
25 °C	84.0	84.0	13.7	75.6	11.4	67.2	9.39	58.8	7.59	50.4	6.04	42.0	4.74	33.6	3.68	25.2	2.87
23 °C	84.0	84.0	13.1	75.6	10.9	67.2	9.00	58.8	7.29	50.4	5.81	42.0	4.57	33.6	3.56	25.2	2.78
21 °C	84.0	84.0	12.8	75.6	10.7	67.2	8.83	58.8	7.16	50.4	5.72	42.0	4.50	33.6	3.52	25.2	2.76
20 °C	84.0	84.0	12.7	75.6	10.6	67.2	8.75	58.8	7.10	50.4	5.67	42.0	4.47	33.6	3.50	25.2	2.75
19 °C	84.0	84.0	12.6	75.6	10.5	67.2	8.67	58.8	7.04	50.4	5.63	42.0	4.44	33.6	3.48	25.2	2.74
17 °C	84.0	84.0	12.4	75.6	10.3	67.2	8.53	58.8	6.93	50.4	5.55	42.0	4.38	33.6	3.44	25.2	2.72
15 °C	84.0	84.0	12.2	75.6	10.2	67.2	8.40	58.8	6.83	50.4	5.47	42.0	4.33	33.6	3.41	25.2	2.70

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

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	35.7	35.7	14.7	32.1	12.0	28.6	9.72	25.0	7.69	21.4	5.97	17.9	4.55	-	-	-	-
48 °C	54.7	54.7	18.2	49.2	14.9	43.7	12.02	38.3	9.52	32.8	7.39	27.3	5.63	21.86	4.25	-	-
46 °C	68.2	68.2	25.3	61.4	20.8	54.6	16.8	47.7	13.3	40.9	10.3	34.1	7.86	27.3	5.93	20.5	4.53
44 °C	69.6	69.6	23.9	62.7	19.7	55.7	15.9	48.7	12.6	41.8	9.75	34.8	7.43	27.8	5.61	20.9	4.28
42 °C	71.0	71.0	22.6	63.9	18.6	56.8	15.1	49.7	12.0	42.6	9.41	35.5	7.22	28.4	5.48	21.3	4.18
40 °C	72.4	72.4	21.3	65.2	17.6	57.9	14.3	50.7	11.5	43.5	9.00	36.2	6.94	29.0	5.28	21.7	4.02
39 °C	73.1	73.1	20.7	65.8	17.1	58.5	13.9	51.2	11.1	43.9	8.73	36.6	6.73	29.2	5.12	21.9	3.90
37 °C	74.4	74.4	19.4	67.0	16.1	59.6	13.2	52.1	10.6	44.7	8.36	37.2	6.47	29.8	4.94	22.3	3.77
35 °C	75.8	75.8	18.2	68.2	15.1	60.6	12.4	53.0	9.93	45.5	7.83	37.9	6.07	30.3	4.63	22.7	3.53
33 °C	77.6	77.6	17.3	69.9	14.4	62.1	11.7	54.3	9.43	46.6	7.44	38.8	5.76	31.1	4.40	23.3	3.35
31 °C	78.2	78.2	17.0	70.4	14.1	62.6	11.5	54.8	9.27	46.9	7.31	39.1	5.66	31.3	4.32	23.5	3.29
30 °C	78.8	78.8	16.7	71.0	13.8	63.1	11.3	55.2	9.10	47.3	7.18	39.4	5.56	31.5	4.24	23.7	3.23
29 °C	79.4	79.4	16.4	71.5	13.6	63.5	11.1	55.6	8.93	47.7	7.05	39.7	5.46	31.8	4.17	23.8	3.17
27 °C	80.6	80.6	15.7	72.5	13.1	64.5	10.7	56.4	8.59	48.3	6.78	40.3	5.25	32.2	4.01	24.2	3.05
25 °C	81.7	81.7	15.1	73.5	12.5	65.3	10.3	57.2	8.25	49.0	6.51	40.8	5.04	32.7	3.85	24.5	2.93
23 °C	82.7	82.7	14.8	74.4	12.3	66.2	10.0	57.9	8.07	49.6	6.37	41.4	4.93	33.1	3.77	24.8	2.87
21 °C	83.7	83.7	14.8	75.3	12.3	67.0	10.0	58.6	8.07	50.2	6.37	41.9	4.93	33.5	3.77	25.1	2.87
20 °C	84.0	84.0	14.7	75.6	12.2	67.2	10.0	58.8	8.05	50.4	6.35	42.0	4.92	33.6	3.76	25.2	2.87
19 °C	84.0	84.0	14.6	75.6	12.1	67.2	9.92	58.8	7.98	50.4	6.30	42.0	4.88	33.6	3.73	25.2	2.85
17 °C	84.0	84.0	14.3	75.6	11.9	67.2	9.75	58.8	7.85	50.4	6.20	42.0	4.82	33.6	3.69	25.2	2.83
15 °C	84.0	84.0	14.1	75.6	11.7	67.2	9.59	58.8	7.73	50.4	6.12	42.0	4.76	33.6	3.66	25.2	2.81

TC : Total Capacity PI : Power Input
Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
Dry-Bulb (°C)	Wet-Bulb (°C)		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
15.0	13.7	94.5	94.5	18.0	85.1	15.3	75.6	12.9	66.2	10.7	56.7	8.72	47.3	7.03	37.8	5.58	28.4	4.39
13.0	11.8	94.5	94.5	18.7	85.1	15.9	75.6	13.3	66.2	11.0	56.7	8.99	47.3	7.22	37.8	5.71	28.4	4.46
11.0	9.8	94.5	94.5	19.5	85.1	16.5	75.6	13.8	66.2	11.4	56.7	9.29	47.3	7.43	37.8	5.85	28.4	4.54
9.0	7.9	94.5	94.5	20.3	85.1	17.2	75.6	14.4	66.2	11.9	56.7	9.61	47.3	7.66	37.8	6.00	28.4	4.63
7.0	6.0	94.5	94.5	21.2	85.1	18.0	75.6	15.0	66.2	12.3	56.7	10.0	47.3	7.90	37.8	6.16	28.4	4.72
5.0	4.1	91.5	91.5	21.1	82.3	17.8	73.2	14.9	64.0	12.2	54.9	9.89	45.7	7.85	36.6	6.12	27.4	4.70
3.0	2.2	88.4	88.4	21.0	79.6	17.7	70.7	14.8	61.9	12.2	53.1	9.84	44.2	7.81	35.4	6.09	26.5	4.67
0.0	-0.7	83.8	83.8	20.8	75.4	17.6	67.0	14.7	58.6	12.1	50.3	9.75	41.9	7.74	33.5	6.03	25.1	4.63
-3.0	-3.7	79.0	79.0	20.6	71.1	17.4	63.2	14.5	55.3	12.0	47.4	9.66	39.5	7.67	31.6	5.98	23.7	4.59
-5.0	-5.6	75.9	75.9	20.5	68.3	17.3	60.8	14.5	53.2	11.9	45.6	9.60	38.0	7.62	30.4	5.94	22.8	4.56
-7.0	-7.6	72.7	72.7	20.4	65.5	17.2	58.2	14.4	50.9	11.8	43.6	9.54	36.4	7.58	29.1	5.91	21.8	4.53
-10	-10.5	68.1	68.1	20.2	61.3	17.1	54.5	14.2	47.7	11.7	40.9	9.46	34.1	7.51	27.2	5.85	20.4	4.49
-14.5	-15.0	60.9	60.9	19.9	54.8	16.8	48.7	14.0	42.6	11.5	36.5	9.32	30.5	7.40	24.4	5.77	18.3	4.43

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

MMY-AP3226HT8P-ME (32HP, 89.5kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	40.4	40.4	16.2	36.4	13.4	32.3	10.8	28.3	8.55	24.2	6.62	20.2	5.00	-	-	-	-
48 °C	61.2	61.2	18.7	55.1	15.3	49.0	12.4	42.8	9.82	36.7	7.61	30.6	5.76	24.5	4.27	-	-
46 °C	77.2	77.2	26.5	69.5	21.8	61.8	17.6	54.0	13.9	46.3	10.8	38.6	8.15	30.9	6.05	23.2	4.46
44 °C	79.7	79.7	25.4	71.8	20.9	63.8	16.9	55.8	13.4	47.8	10.4	39.9	7.90	31.9	5.86	23.9	4.31
42 °C	82.1	82.1	24.4	73.9	20.1	65.7	16.4	57.5	13.1	49.3	10.2	41.1	7.76	32.9	5.78	24.6	4.25
40 °C	84.4	84.4	23.3	76.0	19.4	67.5	15.8	59.1	12.7	50.6	9.92	42.2	7.58	33.8	5.66	25.3	4.15
39 °C	85.5	85.5	22.8	76.9	18.9	68.4	15.5	59.8	12.4	51.3	9.70	42.7	7.42	34.2	5.54	25.6	4.06
37 °C	87.6	87.6	21.8	78.8	18.1	70.0	14.8	61.3	11.9	52.5	9.38	43.8	7.19	35.0	5.38	26.3	3.94
35 °C	89.5	89.5	20.8	80.5	17.3	71.6	14.2	62.6	11.4	53.7	8.95	44.7	6.86	35.8	5.13	26.8	3.75
33 °C	89.5	89.5	19.0	80.6	15.9	71.6	13.0	62.7	10.5	53.7	8.24	44.8	6.34	35.8	4.76	26.9	3.51
31 °C	89.5	89.5	18.1	80.6	15.1	71.6	12.4	62.7	10.0	53.7	7.88	44.8	6.07	35.8	4.57	26.9	3.38
30 °C	89.5	89.5	17.5	80.6	14.6	71.6	12.0	62.7	9.68	53.7	7.64	44.8	5.89	35.8	4.44	26.9	3.29
29 °C	89.5	89.5	17.0	80.6	14.2	71.6	11.6	62.7	9.37	53.7	7.40	44.8	5.72	35.8	4.32	26.9	3.20
27 °C	89.5	89.5	15.9	80.6	13.3	71.6	10.9	62.7	8.80	53.7	6.96	44.8	5.39	35.8	4.08	26.9	3.04
25 °C	89.5	89.5	14.9	80.6	12.4	71.6	10.2	62.7	8.27	53.7	6.55	44.8	5.08	35.8	3.85	26.9	2.88
23 °C	89.5	89.5	14.3	80.6	11.9	71.6	9.81	62.7	7.93	53.7	6.29	44.8	4.89	35.8	3.72	26.9	2.79
21 °C	89.5	89.5	14.0	80.6	11.7	71.6	9.63	62.7	7.79	53.7	6.19	44.8	4.81	35.8	3.67	26.9	2.76
20 °C	89.5	89.5	13.9	80.6	11.6	71.6	9.54	62.7	7.73	53.7	6.14	44.8	4.78	35.8	3.65	26.9	2.75
19 °C	89.5	89.5	13.7	80.6	11.5	71.6	9.46	62.7	7.67	53.7	6.09	44.8	4.75	35.8	3.63	26.9	2.74
17 °C	89.5	89.5	13.5	80.6	11.3	71.6	9.32	62.7	7.56	53.7	6.01	44.8	4.69	35.8	3.59	26.9	2.78
15 °C	89.5	89.5	13.3	80.6	11.1	71.6	9.19	62.7	7.46	53.7	5.94	44.8	4.64	35.8	3.56	26.9	2.77

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	36.4	36.4	15.7	32.8	13.9	29.2	11.2	25.5	8.87	21.9	6.84	18.2	5.15	-	-	-	-
48 °C	55.2	55.2	18.0	49.7	15.8	44.2	12.8	38.6	10.10	33.1	7.80	27.6	5.88	22.08	4.34	-	-
46 °C	69.6	69.6	25.6	62.7	22.5	55.7	18.2	48.7	14.3	41.8	11.1	34.8	8.34	27.9	6.15	20.9	4.48
44 °C	71.9	71.9	24.5	64.7	21.6	57.5	17.5	50.3	13.9	43.1	10.7	36.0	8.09	28.8	5.97	21.6	4.34
42 °C	74.1	74.1	23.5	66.7	20.8	59.3	16.9	51.9	13.5	44.4	10.5	37.0	7.96	29.6	5.89	22.2	4.29
40 °C	76.1	76.1	22.5	68.5	20.0	60.9	16.3	53.3	13.1	45.7	10.2	38.1	7.78	30.5	5.78	22.8	4.20
39 °C	77.1	77.1	22.0	69.4	19.6	61.7	16.0	54.0	12.8	46.3	10.0	38.6	7.62	30.8	5.65	23.1	4.11
37 °C	79.0	79.0	21.0	71.1	18.8	63.2	15.4	55.3	12.3	47.4	9.67	39.5	7.39	31.6	5.50	23.7	3.99
35 °C	80.7	80.7	20.1	72.6	18.0	64.6	14.7	56.5	11.8	48.4	9.25	40.4	7.07	32.3	5.25	24.2	3.81
33 °C	82.8	82.8	19.2	74.5	17.2	66.2	14.1	57.9	11.3	49.7	8.86	41.4	6.76	33.1	5.03	24.8	3.64
31 °C	83.9	83.9	18.7	75.5	16.8	67.1	13.7	58.7	11.0	50.3	8.63	41.9	6.60	33.6	4.90	25.2	3.55
30 °C	84.6	84.6	18.4	76.1	16.5	67.7	13.5	59.2	10.8	50.8	8.48	42.3	6.48	33.8	4.81	25.4	3.49
29 °C	85.3	85.3	18.1	76.8	16.2	68.2	13.2	59.7	10.6	51.2	8.32	42.7	6.36	34.1	4.72	25.6	3.42
27 °C	86.6	86.6	17.4	78.0	15.6	69.3	12.7	60.6	10.2	52.0	8.00	43.3	6.11	34.6	4.54	26.0	3.29
25 °C	87.8	87.8	16.7	79.1	14.9	70.3	12.2	61.5	9.80	52.7	7.68	43.9	5.87	35.1	4.36	26.4	3.16
23 °C	88.6	88.6	16.2	79.8	14.5	70.9	11.9	62.1	9.53	53.2	7.47	44.3	5.71	35.5	4.25	26.6	3.08
21 °C	89.3	89.3	16.1	80.4	14.4	71.4	11.8	62.5	9.45	53.6	7.41	44.7	5.67	35.7	4.22	26.8	3.06
20 °C	89.5	89.5	16.0	80.6	14.3	71.6	11.7	62.7	9.40	53.7	7.38	44.8	5.64	35.8	4.20	26.9	3.05
19 °C	89.5	89.5	15.9	80.6	14.2	71.6	11.6	62.7	9.32	53.7	7.32	44.8	5.60	35.8	4.17	26.9	3.04
17 °C	89.5	89.5	15.6	80.6	14.0	71.6	11.4	62.7	9.18	53.7	7.22	44.8	5.53	35.8	4.13	26.9	2.86
15 °C	89.5	89.5	15.4	80.6	13.8	71.6	11.3	62.7	9.06	53.7	7.12	44.8	5.46	35.8	4.09	26.9	2.84

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit		Outdoor Unit 100% Heating Capacity (kW)	100%		90%		80%		70%		60%		50%		40%		30%	
Dry-Bulb (°C)	Wet-Bulb (°C)		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity		Capacity	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
			(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
15.0	13.7	100.5	100.5	19.9	90.5	16.9	80.4	14.2	70.4	11.8	60.3	9.64	50.3	7.73	40.2	6.07	30.2	4.67
13.0	11.8	100.5	100.5	20.6	90.5	17.6	80.4	14.8	70.4	12.2	60.3	9.95	50.3	7.95	40.2	6.22	30.2	4.76
11.0	9.8	100.5	100.5	21.5	90.5	18.3	80.4	15.3	70.4	12.7	60.3	10.3	50.3	8.20	40.2	6.39	30.2	4.86
9.0	7.9	100.5	100.5	22.4	90.5	19.0	80.4	15.9	70.4	13.1	60.3	10.6	50.3	8.45	40.2	6.56	30.2	4.97
7.0	6.0	100.5	100.5	23.4	90.5	19.8	80.4	16.6	70.4	13.6	60.3	11.0	50.3	8.73	40.2	6.74	30.2	5.08
5.0	4.1	97.1	97.1	23.2	87.4	19.7	77.7	16.5	68.0	13.6	58.3	11.0	48.6	8.67	38.9	6.70	29.1	5.05
3.0	2.2	93.8	93.8	23.1	84.4	19.6	75.0	16.4	65.6	13.5	56.3	10.9	46.9	8.61	37.5	6.66	28.1	5.01
0.0	-0.7	88.6	88.6	22.9	79.8	19.4	70.9	16.2	62.0	13.3	53.2	10.8	44.3	8.53	35.4	6.59	26.6	4.96
-3.0	-3.7	83.3	83.3	22.6	75.0	19.2	66.6	16.0	58.3	13.2	50.0	10.7	41.6	8.44	33.3	6.52	25.0	4.91
-5.0	-5.6	79.9	79.9	22.5	71.9	19.0	63.9	15.9	56.0	13.1	48.0	10.6	40.0	8.38	32.0	6.48	24.0	4.88
-7.0	-7.6	76.4	76.4	22.3	68.7	18.9	61.1	15.8	53.5	13.0	45.8	10.5	38.2	8.32	30.6	6.43	22.9	4.84
-10	-10.5	71.2	71.2	22.1	64.1	18.7	57.0	15.6	49.9	12.9	42.7	10.4	35.6	8.24	28.5	6.37	21.4	4.79
-14.5	-15.0	63.3	63.3	21.7	56.9	18.4	50.6	15.4	44.3	12.7	38.0	10.2	31.6	8.10	25.3	6.26	19.0	4.72

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

MMY-AP3426HT8P-ME (34HP, 95.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	41.2	41.2	17.3	37.1	14.2	33.0	11.5	28.8	9.13	24.7	7.05	20.6	5.28	-	-	-	-
48 °C	61.8	61.8	18.5	55.6	15.2	49.4	12.4	43.3	9.79	37.1	7.56	30.9	5.68	24.7	4.15	-	-
46 °C	78.8	78.8	26.7	70.9	22.0	63.0	17.8	55.2	14.1	47.3	10.9	39.4	8.17	31.5	5.95	23.6	4.22
44 °C	82.3	82.3	26.0	74.1	21.5	65.8	17.4	57.6	13.9	49.4	10.7	41.1	8.09	32.9	5.91	24.7	4.18
42 °C	85.5	85.5	25.3	77.0	21.0	68.4	17.1	59.9	13.7	51.3	10.6	42.8	8.04	34.2	5.89	25.7	4.17
40 °C	88.5	88.5	24.6	79.7	20.5	70.8	16.7	62.0	13.4	53.1	10.5	44.3	7.98	35.4	5.86	26.6	4.14
39 °C	89.9	89.9	24.2	80.9	20.2	71.9	16.5	62.9	13.2	53.9	10.4	45.0	7.87	36.0	5.77	27.0	4.08
37 °C	92.6	92.6	23.5	83.3	19.6	74.1	16.0	64.8	12.9	55.5	10.1	46.3	7.68	37.0	5.64	27.8	3.98
35 °C	95.0	95.0	22.8	85.5	19.0	76.0	15.6	66.5	12.5	57.0	9.78	47.5	7.44	38.0	5.47	28.5	3.85
33 °C	95.0	95.0	20.9	85.5	17.5	76.0	14.3	66.5	11.5	57.0	9.05	47.5	6.90	38.0	5.09	28.5	3.60
31 °C	95.0	95.0	19.7	85.5	16.4	76.0	13.5	66.5	10.9	57.0	8.53	47.5	6.52	38.0	4.82	28.5	3.43
30 °C	95.0	95.0	19.0	85.5	15.9	76.0	13.0	66.5	10.5	57.0	8.26	47.5	6.32	38.0	4.67	28.5	3.33
29 °C	95.0	95.0	18.4	85.5	15.4	76.0	12.6	66.5	10.2	57.0	8.00	47.5	6.12	38.0	4.53	28.5	3.24
27 °C	95.0	95.0	17.2	85.5	14.4	76.0	11.8	66.5	9.53	57.0	7.50	47.5	5.75	38.0	4.27	28.5	3.06
25 °C	95.0	95.0	16.1	85.5	13.5	76.0	11.1	66.5	8.94	57.0	7.05	47.5	5.41	38.0	4.02	28.5	2.89
23 °C	95.0	95.0	15.4	85.5	12.9	76.0	10.6	66.5	8.57	57.0	6.77	47.5	5.20	38.0	3.88	28.5	2.79
21 °C	95.0	95.0	15.1	85.5	12.7	76.0	10.4	66.5	8.42	57.0	6.66	47.5	5.12	38.0	3.82	28.5	2.76
20 °C	95.0	95.0	15.0	85.5	12.5	76.0	10.3	66.5	8.36	57.0	6.61	47.5	5.09	38.0	3.80	28.5	2.75
19 °C	95.0	95.0	14.9	85.5	12.4	76.0	10.3	66.5	8.29	57.0	6.56	47.5	5.05	38.0	3.78	28.5	2.73
17 °C	95.0	95.0	14.6	85.5	12.3	76.0	10.1	66.5	8.18	57.0	6.48	47.5	4.99	38.0	3.74	28.5	2.85
15 °C	95.0	95.0	14.5	85.5	12.1	76.0	10.0	66.5	8.09	57.0	6.40	47.5	4.94	38.0	3.70	28.5	2.84

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	37.2	37.2	16.7	33.4	15.8	29.7	12.7	26.0	10.0	22.3	7.72	18.6	5.74	-	-	-	-
48 °C	55.7	55.7	17.9	50.2	16.7	44.6	13.5	39.0	10.7	33.4	8.22	27.9	6.13	22.30	4.42	-	-
46 °C	71.1	71.1	25.8	64.0	24.2	56.9	19.5	49.8	15.4	42.6	11.9	35.5	8.83	28.4	6.36	21.3	4.43
44 °C	74.2	74.2	25.1	66.8	23.6	59.4	19.1	51.9	15.2	44.5	11.7	37.1	8.75	29.7	6.32	22.3	4.41
42 °C	77.1	77.1	24.4	69.4	23.0	61.7	18.7	54.0	14.9	46.3	11.6	38.6	8.69	30.9	6.30	23.1	4.39
40 °C	79.8	79.8	23.7	71.8	22.4	63.9	18.3	55.9	14.7	47.9	11.4	39.9	8.63	31.9	6.28	23.9	4.38
39 °C	81.1	81.1	23.4	73.0	22.1	64.9	18.1	56.8	14.4	48.7	11.3	40.5	8.51	32.4	6.19	24.3	4.31
37 °C	83.5	83.5	22.7	75.1	21.5	66.8	17.6	58.4	14.1	50.1	11.0	41.7	8.31	33.4	6.05	25.0	4.21
35 °C	85.7	85.7	22.0	77.1	20.9	68.5	17.1	60.0	13.7	51.4	10.7	42.8	8.07	34.3	5.87	25.7	4.08
33 °C	87.9	87.9	21.1	79.1	20.1	70.3	16.4	61.5	13.2	52.7	10.3	43.9	7.77	35.2	5.65	26.4	3.93
31 °C	89.5	89.5	20.5	80.6	19.5	71.6	15.9	62.7	12.8	53.7	9.96	44.8	7.53	35.8	5.48	26.9	3.81
30 °C	90.4	90.4	20.1	81.3	19.1	72.3	15.7	63.3	12.5	54.2	9.78	45.2	7.39	36.1	5.38	27.1	3.74
29 °C	91.2	91.2	19.8	82.1	18.8	72.9	15.4	63.8	12.3	54.7	9.60	45.6	7.26	36.5	5.28	27.4	3.67
27 °C	92.7	92.7	19.0	83.4	18.1	74.1	14.8	64.9	11.8	55.6	9.23	46.3	6.98	37.1	5.08	27.8	3.53
25 °C	94.0	94.0	18.2	84.6	17.3	75.2	14.2	65.8	11.4	56.4	8.86	47.0	6.70	37.6	4.88	28.2	3.39
23 °C	94.6	94.6	17.6	85.1	16.8	75.7	13.7	66.2	11.0	56.7	8.57	47.3	6.49	37.8	4.72	28.4	3.29
21 °C	94.9	94.9	17.4	85.4	16.5	75.9	13.5	66.4	10.8	56.9	8.46	47.5	6.40	38.0	4.67	28.5	3.26
20 °C	95.0	95.0	17.3	85.5	16.4	76.0	13.4	66.5	10.8	57.0	8.40	47.5	6.36	38.0	4.64	28.5	3.24
19 °C	95.0	95.0	17.1	85.5	16.3	76.0	13.3	66.5	10.7	57.0	8.34	47.5	6.32	38.0	4.61	28.5	3.22
17 °C	95.0	95.0	16.9	85.5	16.0	76.0	13.1	66.5	10.5	57.0	8.23	47.5	6.24	38.0	4.56	28.5	2.88
15 °C	95.0	95.0	16.7	85.5	15.8	76.0	13.0	66.5	10.4	57.0	8.13	47.5	6.17	38.0	4.52	28.5	2.88

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	106.5	106.5	21.7	95.9	18.6	85.2	15.6	74.6	13.0	63.9	10.6	53.3	8.44	42.6	6.56	32.0	4.96
13.0	11.8	106.5	106.5	22.6	95.9	19.2	85.2	16.2	74.6	13.4	63.9	10.9	53.3	8.68	42.6	6.73	32.0	5.06
11.0	9.8	106.5	106.5	23.5	95.9	20.0	85.2	16.8	74.6	13.9	63.9	11.3	53.3	8.96	42.6	6.92	32.0	5.18
9.0	7.9	106.5	106.5	24.5	95.9	20.8	85.2	17.5	74.6	14.4	63.9	11.7	53.3	9.24	42.6	7.12	32.0	5.30
7.0	6.0	106.5	106.5	25.6	95.9	21.7	85.2	18.2	74.6	15.0	63.9	12.1	53.3	9.55	42.6	7.33	32.0	5.43
5.0	4.1	102.8	102.8	25.4	92.5	21.5	82.2	18.0	72.0	14.9	61.7	12.0	51.4	9.48	41.1	7.28	30.8	5.39
3.0	2.2	99.1	99.1	25.2	89.2	21.4	79.3	17.9	69.4	14.8	59.5	11.9	49.5	9.42	39.6	7.22	29.7	5.35
0.0	-0.7	93.5	93.5	24.9	84.1	21.2	74.8	17.7	65.4	14.6	56.1	11.8	46.7	9.31	37.4	7.15	28.0	5.30
-3.0	-3.7	87.6	87.6	24.6	78.9	20.9	70.1	17.5	61.3	14.4	52.6	11.7	43.8	9.21	35.0	7.06	26.3	5.24
-5.0	-5.6	83.9	83.9	24.5	75.5	20.8	67.1	17.4	58.7	14.3	50.3	11.6	42.0	9.14	33.6	7.01	25.2	5.20
-7.0	-7.6	80.0	80.0	24.3	72.0	20.6	64.0	17.3	56.0	14.2	48.0	11.5	40.0	9.07	32.0	6.96	24.0	5.16
-10	-10.5	74.4	74.4	24.0	66.9	20.4	59.5	17.1	52.1	14.1	44.6	11.4	37.2	8.96	29.8	6.88	22.3	5.10
-14.5	-15.0	65.6	65.6	23.6	59.1	20.0	52.5	16.8	45.9	13.8	39.4	11.2	32.8	8.80	26.2	6.76	19.7	5.01

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

MMY-AP3826HT8P-ME (38HP, 107.0kW system)
Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	43.8	43.8	19.0	39.4	15.7	35.0	12.7	30.7	10.1	26.3	7.77	21.9	5.79	-	-	-	-
48 °C	66.5	66.5	20.2	59.9	16.7	53.2	13.5	46.6	10.7	39.9	8.28	33.3	6.17	26.6	4.43	-	-
46 °C	86.1	86.1	29.6	77.5	24.4	68.9	19.8	60.3	15.7	51.7	12.1	43.1	9.00	34.4	6.44	25.8	4.40
44 °C	91.8	91.8	29.0	82.6	24.0	73.5	19.6	64.3	15.6	55.1	12.1	45.9	9.03	36.7	6.49	27.5	4.44
42 °C	95.7	95.7	28.5	86.1	23.7	76.6	19.3	67.0	15.4	57.4	12.0	47.9	9.01	38.3	6.49	28.7	4.44
40 °C	99.3	99.3	27.9	89.4	23.3	79.4	19.0	69.5	15.3	59.6	11.9	49.6	8.97	39.7	6.49	29.8	4.43
39 °C	101.0	101.0	27.6	90.9	23.0	80.8	18.8	70.7	15.1	60.6	11.8	50.5	8.88	40.4	6.42	30.3	4.39
37 °C	104.1	104.1	27.0	93.7	22.5	83.3	18.5	72.9	14.8	62.5	11.6	52.1	8.73	41.7	6.31	31.2	4.31
35 °C	107.0	107.0	26.3	96.3	22.0	85.6	18.1	74.9	14.5	64.2	11.4	53.5	8.61	42.8	6.23	32.1	4.26
33 °C	107.0	107.0	24.5	96.3	20.5	85.6	16.8	74.9	13.5	64.2	10.6	53.5	8.03	42.8	5.83	32.1	4.00
31 °C	107.0	107.0	22.8	96.3	19.1	85.6	15.7	74.9	12.6	64.2	9.89	53.5	7.51	42.8	5.46	32.1	3.76
30 °C	107.0	107.0	22.0	96.3	18.4	85.6	15.1	74.9	12.2	64.2	9.57	53.5	7.27	42.8	5.29	32.1	3.65
29 °C	107.0	107.0	21.3	96.3	17.8	85.6	14.6	74.9	11.8	64.2	9.26	53.5	7.04	42.8	5.13	32.1	3.54
27 °C	107.0	107.0	19.9	96.3	16.6	85.6	13.7	74.9	11.0	64.2	8.68	53.5	6.61	42.8	4.83	32.1	3.34
25 °C	107.0	107.0	18.6	96.3	15.6	85.6	12.8	74.9	10.4	64.2	8.15	53.5	6.21	42.8	4.54	32.1	3.15
23 °C	107.0	107.0	17.8	96.3	14.9	85.6	12.3	74.9	9.94	64.2	7.82	53.5	5.97	42.8	4.37	32.1	3.04
21 °C	107.0	107.0	17.5	96.3	14.7	85.6	12.1	74.9	9.77	64.2	7.69	53.5	5.87	42.8	4.31	32.1	3.00
20 °C	107.0	107.0	17.3	96.3	14.5	85.6	12.0	74.9	9.69	64.2	7.63	53.5	5.83	42.8	4.28	32.1	2.98
19 °C	107.0	107.0	17.2	96.3	14.4	85.6	11.9	74.9	9.62	64.2	7.58	53.5	5.79	42.8	4.25	32.1	2.96
17 °C	107.0	107.0	17.0	96.3	14.2	85.6	11.7	74.9	9.49	64.2	7.48	53.5	5.72	42.8	4.20	32.1	3.07
15 °C	107.0	107.0	16.8	96.3	14.1	85.6	11.6	74.9	9.38	64.2	7.40	53.5	5.66	42.8	4.16	32.1	3.06

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling

Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	Compressor + Outdoor Fan Power consumption (kW)															
		100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	39.5	39.5	18.4	35.6	18.3	31.6	14.8	27.7	11.7	23.7	8.92	19.8	6.59	-	-	-	-
48 °C	60.0	60.0	19.5	54.0	19.4	48.0	15.7	42.0	12.4	36.0	9.50	30.0	7.02	23.99	4.97	-	-
46 °C	77.7	77.7	28.5	69.9	28.4	62.1	23.0	54.4	18.1	46.6	13.9	38.8	10.2	31.1	7.23	23.3	4.84
44 °C	82.8	82.8	28.0	74.5	27.9	66.2	22.6	58.0	17.9	49.7	13.8	41.4	10.2	33.1	7.27	24.8	4.88
42 °C	86.3	86.3	27.5	77.7	27.4	69.1	22.3	60.4	17.7	51.8	13.7	43.2	10.2	34.5	7.27	25.9	4.88
40 °C	89.6	89.6	26.9	80.6	26.8	71.6	21.9	62.7	17.5	53.7	13.6	44.8	10.1	35.8	7.25	26.9	4.88
39 °C	91.1	91.1	26.6	82.0	26.5	72.9	21.7	63.8	17.3	54.6	13.4	45.5	10.0	36.4	7.18	27.3	4.83
37 °C	93.9	93.9	26.1	84.5	26.0	75.1	21.2	65.7	16.9	56.3	13.2	47.0	9.86	37.6	7.06	28.2	4.75
35 °C	96.5	96.5	25.4	86.9	25.4	77.2	20.8	67.6	16.6	57.9	12.9	48.3	9.71	38.6	6.97	29.0	4.69
33 °C	98.9	98.9	24.6	89.0	24.5	79.1	20.1	69.2	16.1	59.3	12.5	49.4	9.39	39.5	6.74	29.7	4.54
31 °C	101.0	101.0	23.8	90.9	23.7	80.8	19.4	70.7	15.5	60.6	12.1	50.5	9.07	40.4	6.50	30.3	4.38
30 °C	102.0	102.0	23.3	91.8	23.3	81.6	19.0	71.4	15.2	61.2	11.9	51.0	8.90	40.8	6.39	30.6	4.30
29 °C	102.9	102.9	22.9	92.6	22.8	82.3	18.7	72.0	14.9	61.8	11.6	51.5	8.74	41.2	6.27	30.9	4.22
27 °C	104.6	104.6	22.0	94.2	22.0	83.7	18.0	73.3	14.4	62.8	11.2	52.3	8.41	41.9	6.03	31.4	4.06
25 °C	106.2	106.2	21.2	95.6	21.1	85.0	17.2	74.3	13.8	63.7	10.7	53.1	8.07	42.5	5.79	31.9	3.90
23 °C	106.9	106.9	20.5	96.2	20.4	85.5	16.7	74.8	13.4	64.1	10.4	53.4	7.83	42.8	5.62	32.1	3.79
21 °C	107.0	107.0	20.1	96.3	20.1	85.6	16.4	74.9	13.2	64.2	10.2	53.5	7.70	42.8	5.53	32.1	3.74
20 °C	107.0	107.0	20.0	96.3	19.9	85.6	16.3	74.9	13.0	64.2	10.2	53.5	7.65	42.8	5.49	32.1	3.71
19 °C	107.0	107.0	19.8	96.3	19.7	85.6	16.2	74.9	12.9	64.2	10.1	53.5	7.59	42.8	5.46	32.1	3.69
17 °C	107.0	107.0	19.5	96.3	19.4	85.6	15.9	74.9	12.8	64.2	9.95	53.5	7.49	42.8	5.39	32.1	3.34
15 °C	107.0	107.0	19.3	96.3	19.2	85.6	15.7	74.9	12.6	64.2	9.84	53.5	7.41	42.8	5.34	32.1	3.33

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	24.7	108.0	21.0	96.0	17.7	84.0	14.6	72.0	12.0	60.0	9.59	48.0	7.55	36.0	5.85
13.0	11.8	120.0	120.0	25.6	108.0	21.8	96.0	18.3	84.0	15.1	72.0	12.3	60.0	9.86	48.0	7.73	36.0	5.95
11.0	9.8	120.0	120.0	26.7	108.0	22.7	96.0	19.0	84.0	15.7	72.0	12.7	60.0	10.2	48.0	7.94	36.0	6.08
9.0	7.9	120.0	120.0	27.9	108.0	23.6	96.0	19.8	84.0	16.3	72.0	13.2	60.0	10.5	48.0	8.15	36.0	6.20
7.0	6.0	120.0	120.0	29.1	108.0	24.6	96.0	20.6	84.0	16.9	72.0	13.7	60.0	10.8	48.0	8.37	36.0	6.34
5.0	4.1	115.9	115.9	28.9	104.3	24.4	92.7	20.4	81.1	16.8	69.5	13.6	57.9	10.7	46.3	8.32	34.8	6.29
3.0	2.2	111.7	111.7	28.7	100.6	24.3	89.4	20.3	78.2	16.7	67.0	13.5	55.9	10.7	44.7	8.26	33.5	6.25
0.0	-0.7	105.4	105.4	28.4	94.9	24.0	84.3	20.1	73.8	16.5	63.3	13.3	52.7	10.6	42.2	8.17	31.6	6.18
-3.0	-3.7	98.9	98.9	28.0	89.0	23.7	79.1	19.8	69.2	16.3	59.3	13.2	49.4	10.4	39.6	8.08	29.7	6.11
-5.0	-5.6	94.8	94.8	27.8	85.3	23.6	75.8	19.7	66.3	16.2	56.9	13.1	47.4	10.4	37.9	8.02	28.4	6.07
-7.0	-7.6	90.4	90.4	27.6	81.4	23.4	72.3	19.5	63.3	16.1	54.2	13.0	45.2	10.3	36.2	7.96	27.1	6.03
-10	-10.5	84.1	84.1	27.3	75.7	23.1	67.3	19.3	58.9	15.9	50.5	12.8	42.1	10.2	33.6	7.87	25.2	5.96
-14.5	-15.0	74.3	74.3	26.9	66.9	22.7	59.5	19.0	52.0	15.6	44.6	12.6	37.2	10.0	29.7	7.74	22.3	5.86

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

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

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	45.6	45.6	19.7	41.0	16.3	36.5	13.2	31.9	10.5	27.4	8.06	22.8	6.01	-	-	-	-
48 °C	70.6	70.6	22.1	63.5	18.2	56.5	14.8	49.4	11.7	42.4	9.03	35.3	6.74	28.2	4.84	-	-
46 °C	91.8	91.8	32.2	82.6	26.6	73.4	21.5	64.3	17.1	55.1	13.2	45.9	9.81	36.7	7.03	27.5	4.82
44 °C	98.8	98.8	31.4	88.9	26.0	79.0	21.2	69.2	16.8	59.3	13.0	49.4	9.76	39.5	7.02	29.6	4.81
42 °C	102.5	102.5	30.7	92.3	25.5	82.0	20.8	71.8	16.6	61.5	12.9	51.3	9.69	41.0	6.99	30.8	4.79
40 °C	106.0	106.0	30.0	95.4	24.9	84.8	20.4	74.2	16.3	63.6	12.7	53.0	9.57	42.4	6.91	31.8	4.73
39 °C	107.6	107.6	29.6	96.8	24.6	86.1	20.1	75.3	16.1	64.6	12.5	53.8	9.44	43.0	6.82	32.3	4.67
37 °C	110.7	110.7	28.8	99.6	24.0	88.5	19.7	77.5	15.8	66.4	12.3	55.3	9.28	44.3	6.71	33.2	4.60
35 °C	113.5	113.5	28.0	102.1	23.4	90.8	19.3	79.4	15.5	68.1	12.1	56.7	9.19	45.4	6.67	34.0	4.57
33 °C	113.5	113.5	26.1	102.2	21.8	90.8	17.9	79.5	14.4	68.1	11.3	56.8	8.59	45.4	6.25	34.1	4.30
31 °C	113.5	113.5	24.3	102.2	20.4	90.8	16.7	79.5	13.5	68.1	10.6	56.8	8.05	45.4	5.87	34.1	4.05
30 °C	113.5	113.5	23.5	102.2	19.7	90.8	16.2	79.5	13.1	68.1	10.3	56.8	7.80	45.4	5.69	34.1	3.93
29 °C	113.5	113.5	22.7	102.2	19.0	90.8	15.7	79.5	12.6	68.1	9.93	56.8	7.56	45.4	5.52	34.1	3.81
27 °C	113.5	113.5	21.3	102.2	17.8	90.8	14.7	79.5	11.8	68.1	9.32	56.8	7.10	45.4	5.19	34.1	3.60
25 °C	113.5	113.5	19.9	102.2	16.7	90.8	13.8	79.5	11.1	68.1	8.75	56.8	6.67	45.4	4.89	34.1	3.40
23 °C	113.5	113.5	19.1	102.2	16.0	90.8	13.2	79.5	10.7	68.1	8.40	56.8	6.41	45.4	4.70	34.1	3.27
21 °C	113.5	113.5	18.7	102.2	15.7	90.8	13.0	79.5	10.5	68.1	8.26	56.8	6.31	45.4	4.63	34.1	3.23
20 °C	113.5	113.5	18.6	102.2	15.6	90.8	12.9	79.5	10.4	68.1	8.19	56.8	6.26	45.4	4.60	34.1	3.21
19 °C	113.5	113.5	18.4	102.2	15.5	90.8	12.8	79.5	10.3	68.1	8.13	56.8	6.22	45.4	4.57	34.1	3.19
17 °C	113.5	113.5	18.1	102.2	15.2	90.8	12.6	79.5	10.2	68.1	8.03	56.8	6.14	45.4	4.52	34.1	3.23
15 °C	113.5	113.5	17.9	102.2	15.0	90.8	12.4	79.5	10.0	68.1	7.93	56.8	6.07	45.4	4.47	34.1	3.21

TC : Total Capacity

PI : Power Input

Indoor air temperature conditions : 27.0°C dry-bulb / 19.0°C wet bulb

Cooling		Compressor + Outdoor Fan Power consumption (kW)															
Outdoor Unit Dry-Bulb (°C)	Outdoor Unit 100% Cooling Capacity (kW)	100% Capacity		90% Capacity		80% Capacity		70% Capacity		60% Capacity		50% Capacity		40% Capacity		30% Capacity	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)	(kW)
52 °C	41.1	41.1	19.0	37.0	19.0	32.9	15.3	28.8	12.1	24.7	9.26	20.6	6.84	-	-	-	-
48 °C	63.7	63.7	21.31	57.3	21.2	50.9	17.2	44.6	13.5	38.2	10.4	31.8	7.67	25.47	5.42	-	-
46 °C	82.8	82.8	31.1	74.5	30.9	66.2	25.0	58.0	19.7	49.7	15.1	41.4	11.2	33.1	7.89	24.8	5.29
44 °C	89.1	89.1	30.4	80.2	30.2	71.3	24.5	62.4	19.4	53.5	14.9	44.6	11.1	35.6	7.87	26.7	5.28
42 °C	92.5	92.5	29.7	83.2	29.5	74.0	24.0	64.7	19.1	55.5	14.7	46.2	11.0	37.0	7.82	27.7	5.26
40 °C	95.6	95.6	28.9	86.0	28.8	76.5	23.5	66.9	18.7	57.4	14.5	47.8	10.8	38.2	7.73	28.7	5.21
39 °C	97.1	97.1	28.6	87.3	28.5	77.6	23.2	67.9	18.5	58.2	14.3	48.5	10.7	38.8	7.63	29.1	5.14
37 °C	99.8	99.8	27.8	89.8	27.7	79.9	22.6	69.9	18.0	59.9	14.0	49.9	10.5	39.9	7.50	29.9	5.06
35 °C	102.4	102.4	27.1	92.1	27.0	81.9	22.1	71.7	17.7	61.4	13.8	51.2	10.4	40.9	7.44	30.7	5.03
33 °C	104.7	104.7	26.2	94.2	26.1	83.8	21.3	73.3	17.1	62.8	13.3	52.4	10.0	41.9	7.20	31.4	4.86
31 °C	106.9	106.9	25.3	96.2	25.2	85.5	20.6	74.8	16.5	64.1	12.9	53.4	9.67	42.7	6.95	32.1	4.69
30 °C	107.8	107.8	24.8	97.1	24.7	86.3	20.2	75.5	16.2	64.7	12.6	53.9	9.50	43.1	6.82	32.4	4.61
29 °C	108.8	108.8	24.3	97.9	24.3	87.0	19.9	76.2	15.9	65.3	12.4	54.4	9.32	43.5	6.70	32.6	4.52
27 °C	110.6	110.6	23.4	99.5	23.3	88.5	19.1	77.4	15.3	66.3	11.9	55.3	8.97	44.2	6.44	33.2	4.35
25 °C	112.2	112.2	22.5	101.0	22.4	89.7	18.3	78.5	14.7	67.3	11.4	56.1	8.61	44.9	6.18	33.7	4.18
23 °C	113.3	113.3	21.9	102.0	21.8	90.6	17.9	79.3	14.3	68.0	11.2	56.6	8.39	45.3	6.03	34.0	4.07
21 °C	113.5	113.5	21.5	102.2	21.5	90.8	17.6	79.5	14.1	68.1	11.0	56.8	8.27	45.4	5.95	34.1	4.02
20 °C	113.5	113.5	21.4	102.2	21.3	90.8	17.4	79.5	14.0	68.1	10.9	56.8	8.20	45.4	5.90	34.1	4.00
19 °C	113.5	113.5	21.2	102.2	21.1	90.8	17.3	79.5	13.9	68.1	10.8	56.8	8.14	45.4	5.86	34.1	3.97
17 °C	113.5	113.5	20.9	102.2	20.8	90.8	17.0	79.5	13.7	68.1	10.7	56.8	8.04	45.4	5.79	34.1	3.77
15 °C	113.5	113.5	20.6	102.2	20.5	90.8	16.8	79.5	13.5	68.1	10.5	56.8	7.94	45.4	5.73	34.1	3.74

TC : Total Capacity

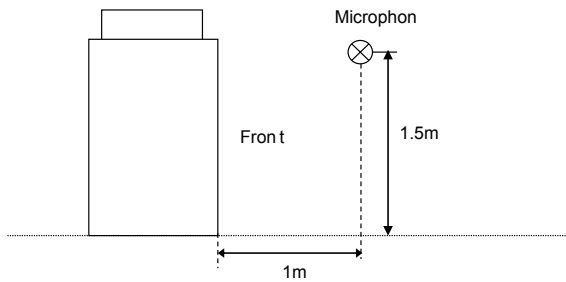
PI : Power Input

Indoor air temperature conditions : 23.0°C dry-bulb / 16.0°C wet bulb

Heating			Compressor + Outdoor 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 (°C)	Wet-Bulb (°C)		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	25.7	114.8	21.8	102.0	18.3	89.3	15.2	76.5	12.4	63.8	10.0	51.0	8.05	38.3	6.45
13.0	11.8	127.5	127.5	26.7	114.8	22.6	102.0	19.0	89.3	15.7	76.5	12.8	63.8	10.3	51.0	8.22	38.3	6.54
11.0	9.8	127.5	127.5	27.9	114.8	23.6	102.0	19.7	89.3	16.3	76.5	13.2	63.8	10.6	51.0	8.42	38.3	6.65
9.0	7.9	127.5	127.5	29.1	114.8	24.6	102.0	20.5	89.3	16.9	76.5	13.7	63.8	10.9	51.0	8.62	38.3	6.77
7.0	6.0	127.5	127.5	30.4	114.8	25.7	102.0	21.3	89.3	17.5	76.5	14.1	63.8	11.3	51.0	8.83	38.3	6.89
5.0	4.1	123.3	123.3	30.2	110.9	25.5	98.6	21.2	86.3	17.4	74.0	14.1	61.6	11.2	49.3	8.78	37.0	6.85
3.0	2.2	119.0	119.0	30.1	107.1	25.3	95.2	21.1	83.3	17.3	71.4	14.0	59.5	11.1	47.6	8.72	35.7	6.80
0.0	-0.7	112.6	112.6	29.8	101.3	25.1	90.0	20.9	78.8	17.1	67.5	13.8	56.3	11.0	45.0	8.64	33.8	6.74
-3.0	-3.7	105.9	105.9	29.5	95.3	24.8	84.7	20.7	74.1	16.9	63.5	13.7	52.9	10.9	42.3	8.55	31.8	6.67
-5.0	-5.6	101.6	101.6	29.3	91.5	24.7	81.3	20.5	71.1	16.8	61.0	13.6	50.8	10.8	40.7	8.50	30.5	6.63
-7.0	-7.6	97.2	97.2	29.1	87.5	24.5	77.7	20.4	68.0	16.7	58.3	13.5	48.6	10.7	38.9	8.44	29.2	6.58
-10	-10.5	90.7	90.7	28.8	81.6	24.3	72.6	20.2	63.5	16.6	54.4	13.4	45.4	10.6	36.3	8.35	27.2	6.52
-14.5	-15.0	80.7	80.7	28.3	72.6	23.9	64.5	19.9	56.5	16.3	48.4	13.2	40.3	10.5	32.3	8.22	24.2	6.41

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

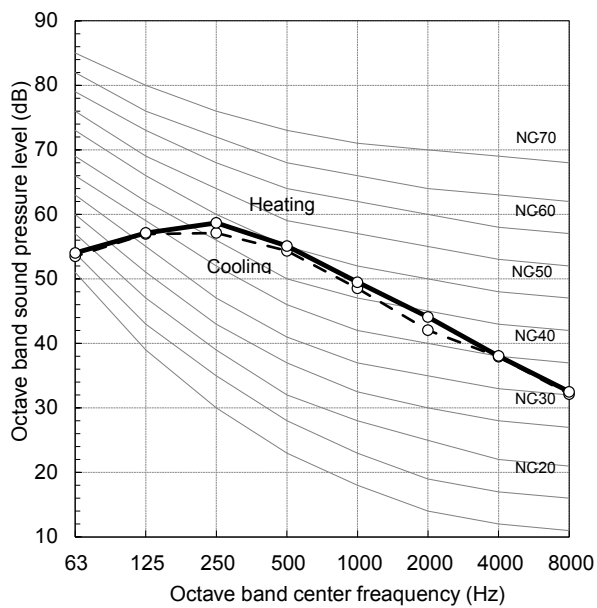
5-11. Sound pressure level



Standard model

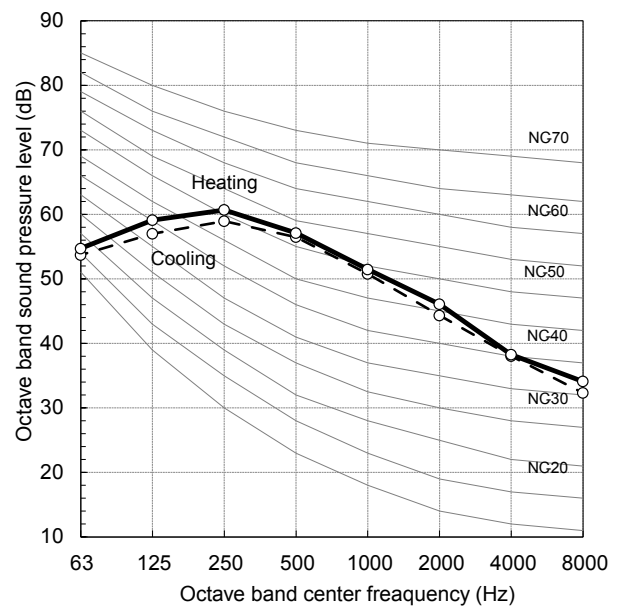
MMY-MAP0806HT8P-ME

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



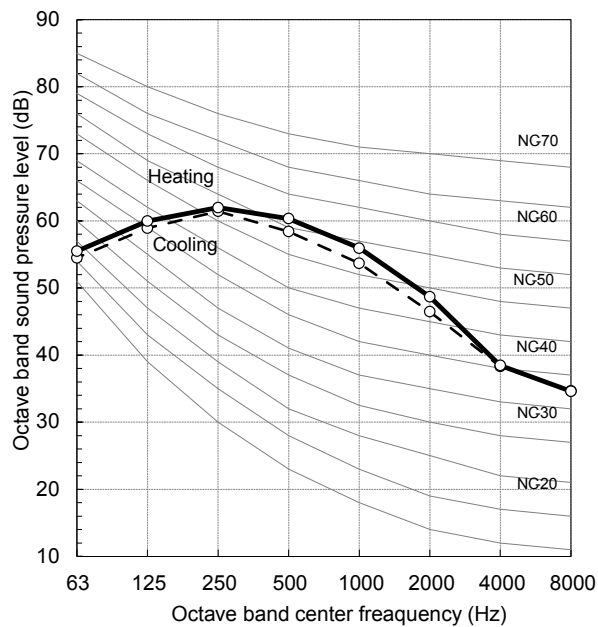
MMY-MAP1006HT8P-ME

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



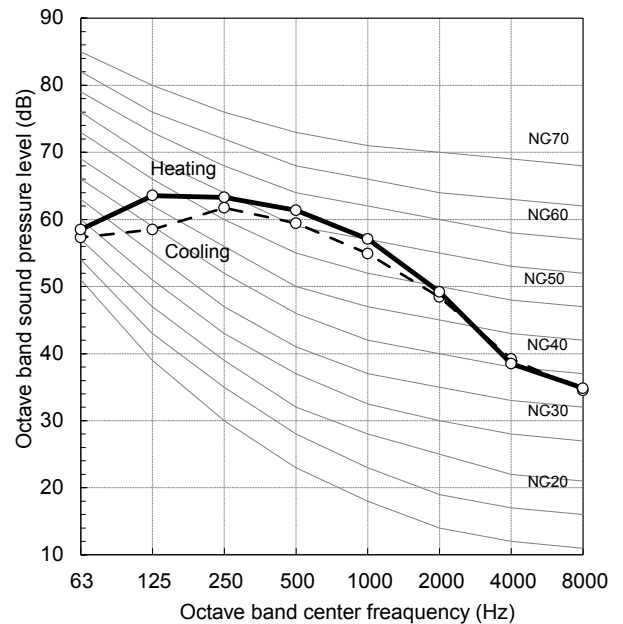
MMY-MAP1206HT8P-ME

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



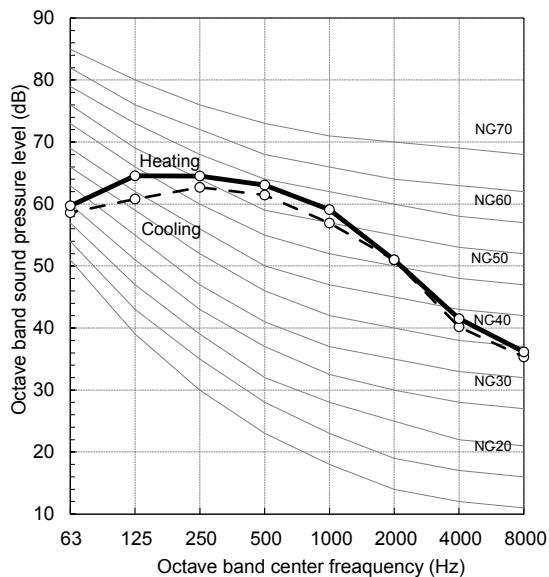
MMY-MAP1406HT8P-ME

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



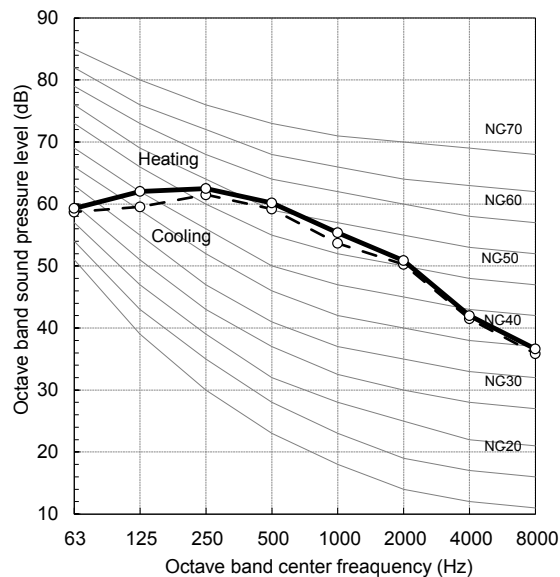
MMY-MAP1606HT8P-ME

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



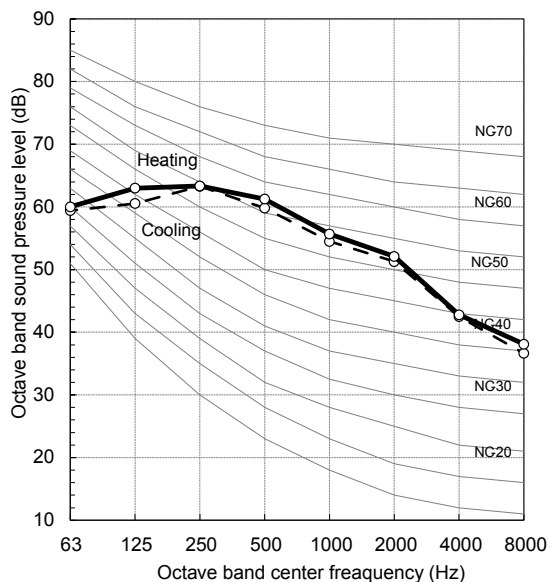
MMY-MAP1806HT8P-ME

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



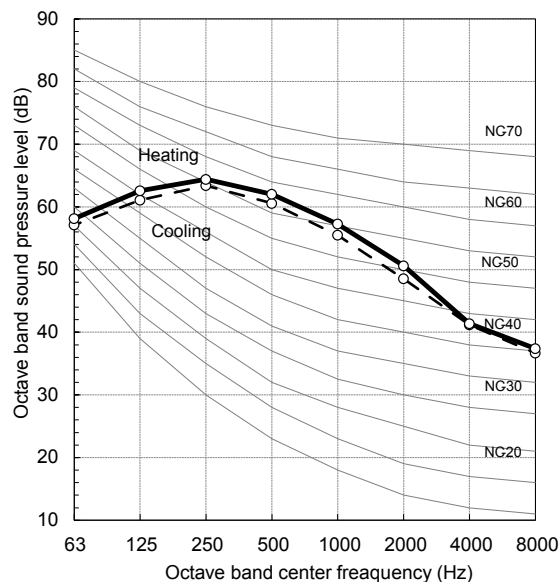
MMY-MAP2006HT8P-ME

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



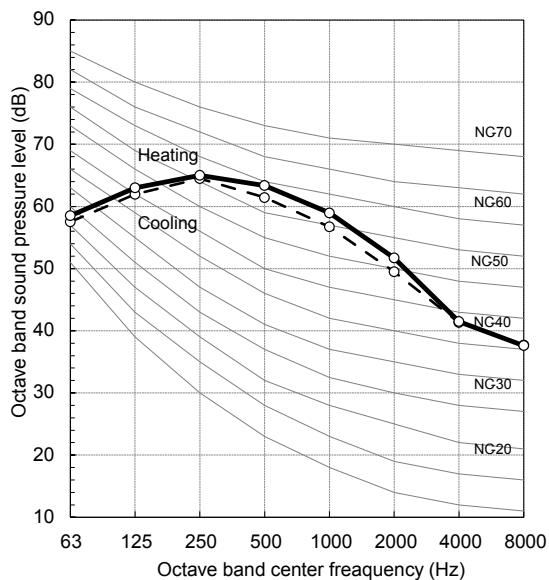
MMY-AP2206HT8P-ME

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



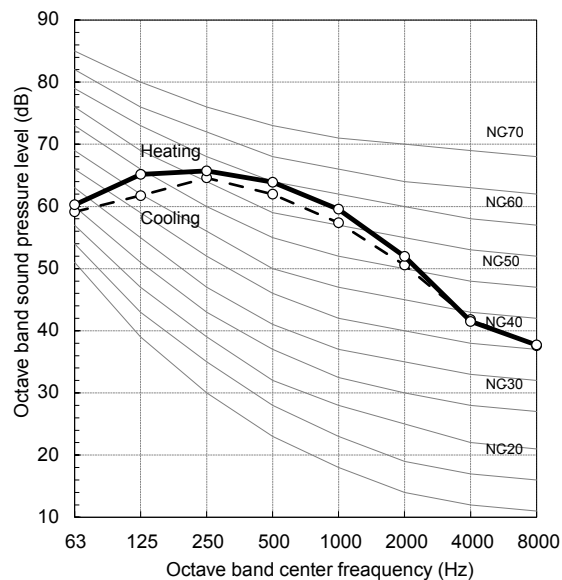
MMY-MAP2416HT8P-ME

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



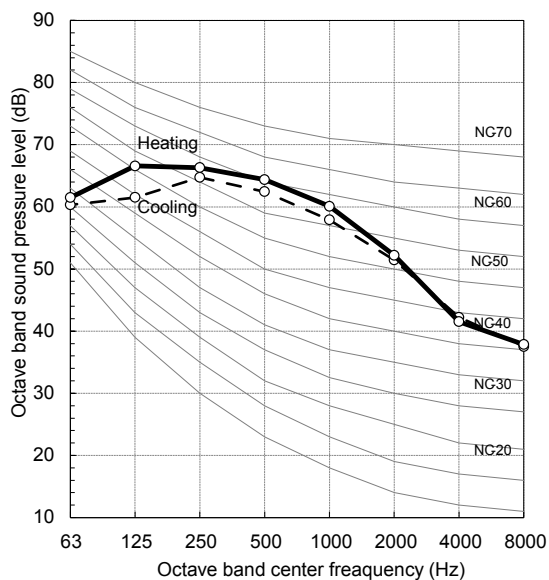
MMY-AP2616HT8P-ME

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



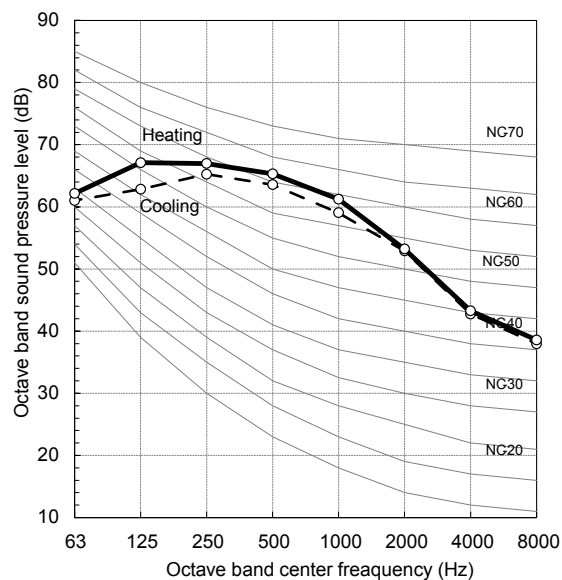
MMY-AP2816HT8P-ME

Sound pressure Level (dB(A))	Cooling	Heating
	63.0	65.0



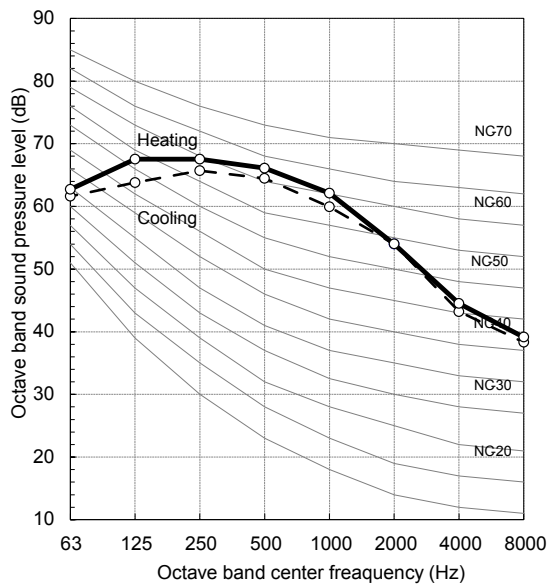
MMY-AP3016HT8P-ME

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



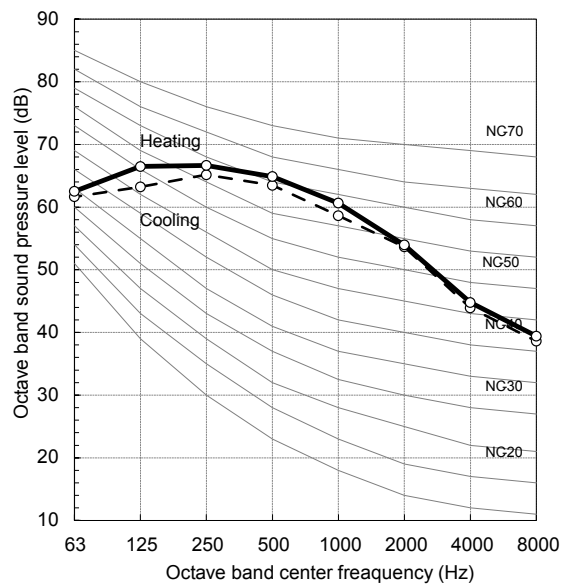
MMY-AP3216HT8P-ME

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



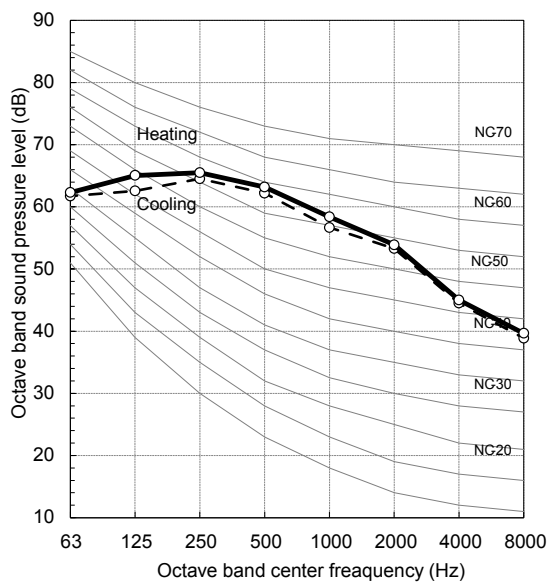
MMY-AP3416HT8P-ME

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



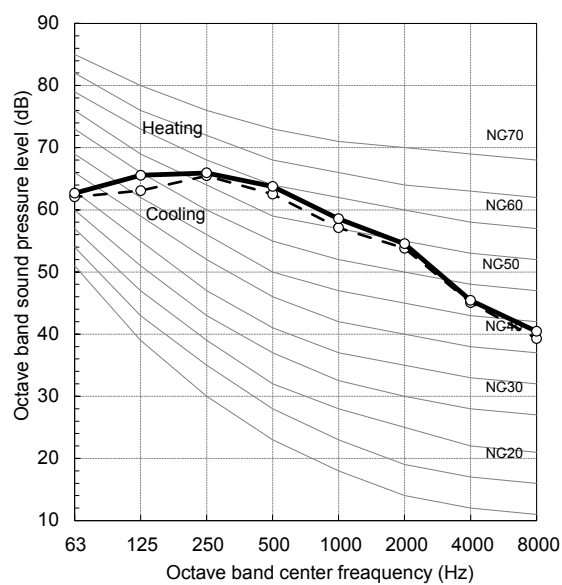
MMY-AP3616HT8P-ME

Sound pressure Level (dB(A))	Cooling	Heating
	63.0	64.0



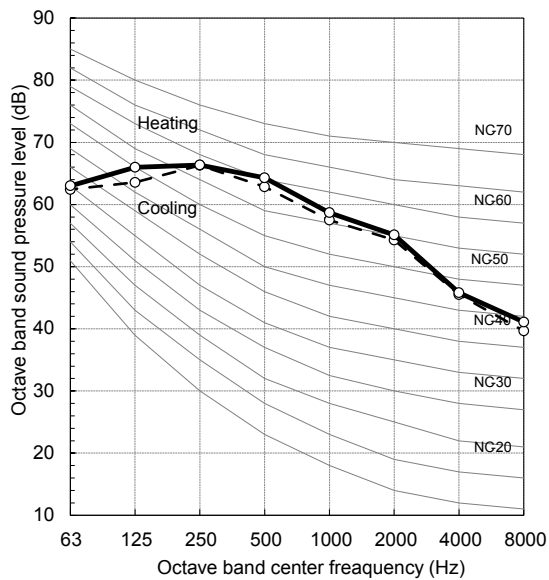
MMY-AP3816HT8P-ME

Sound pressure Level (dB(A))	Cooling	Heating
	63.5	64.5



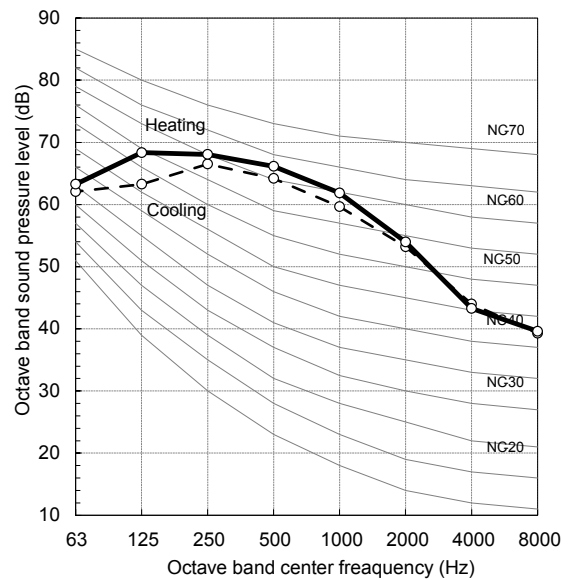
MMY-AP4016HT8P-ME

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



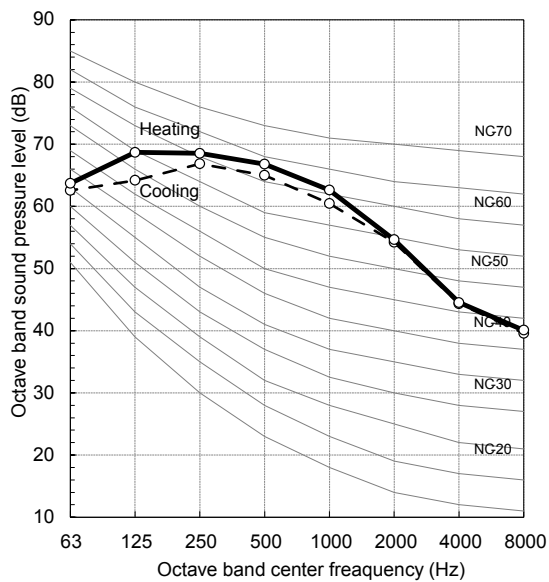
MMY-AP4216HT8P-ME

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



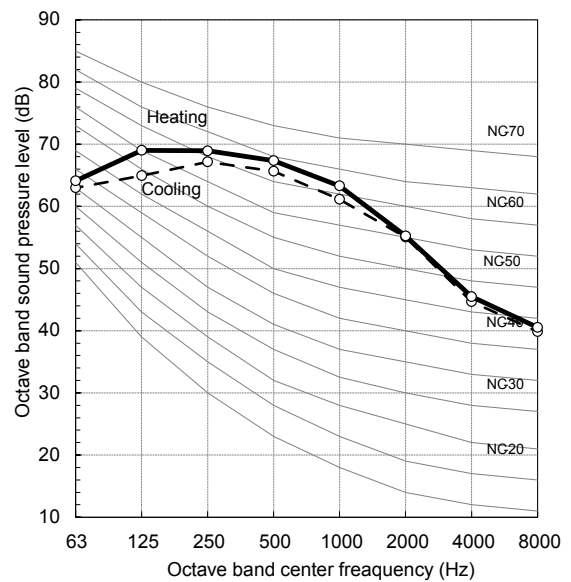
MMY-AP4416HT8P-ME

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



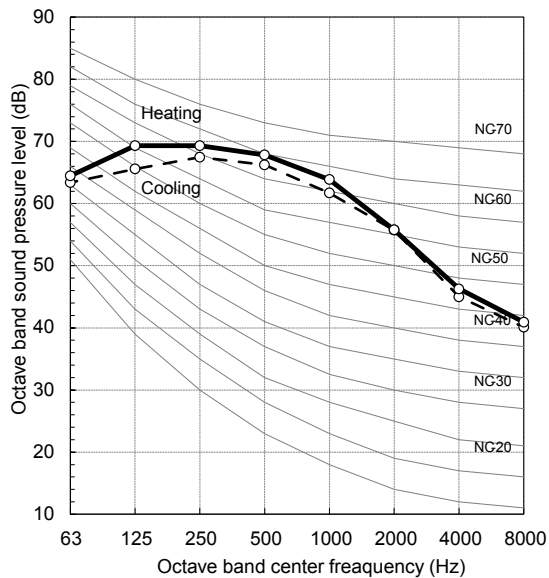
MMY-AP4616HT8P-ME

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



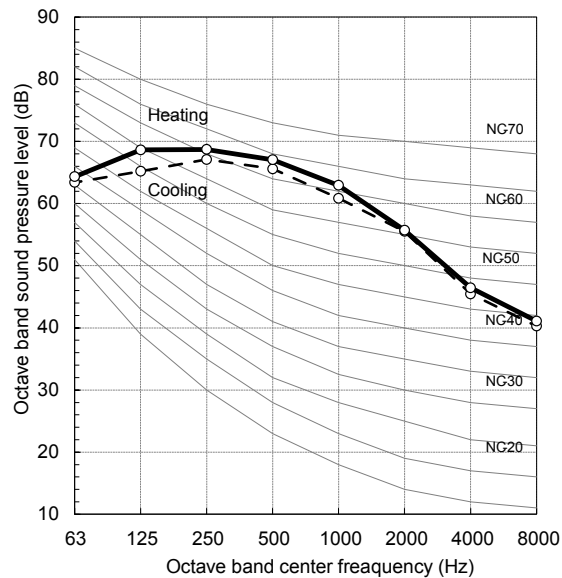
MMY-AP4816HT8P-ME

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



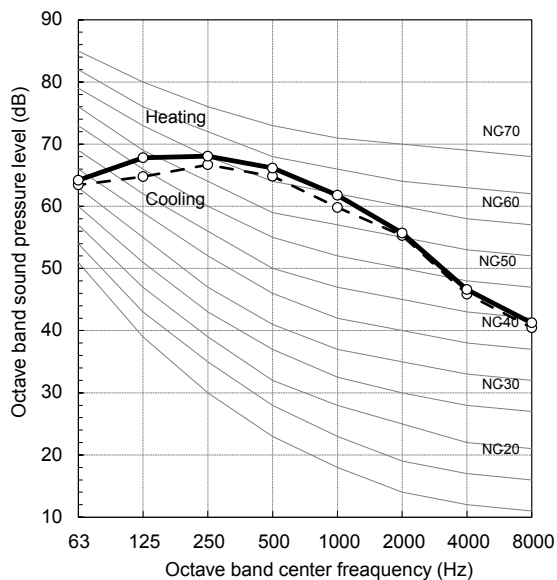
MMY-AP5016HT8P-ME

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



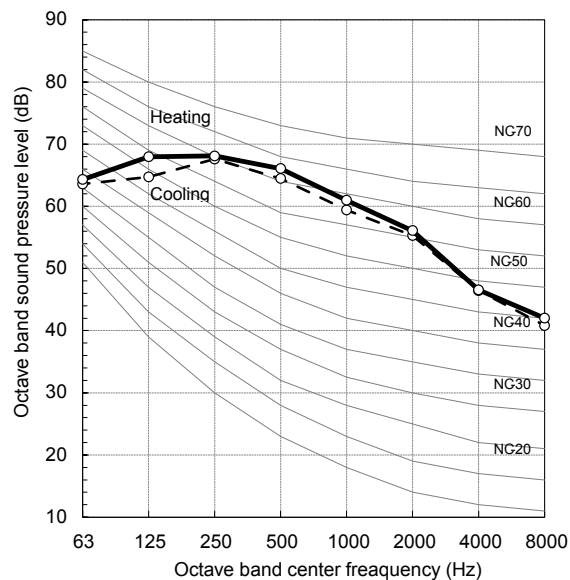
MMY-AP5216HT8P-ME

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



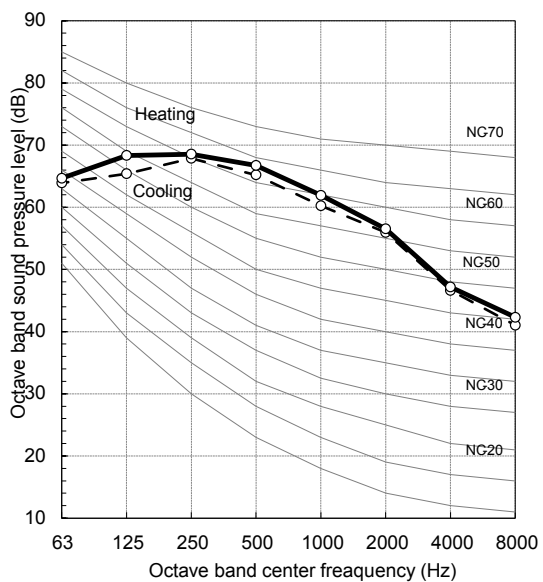
MMY-AP5416HT8P-ME

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



MMY-AP5616HT8P-ME

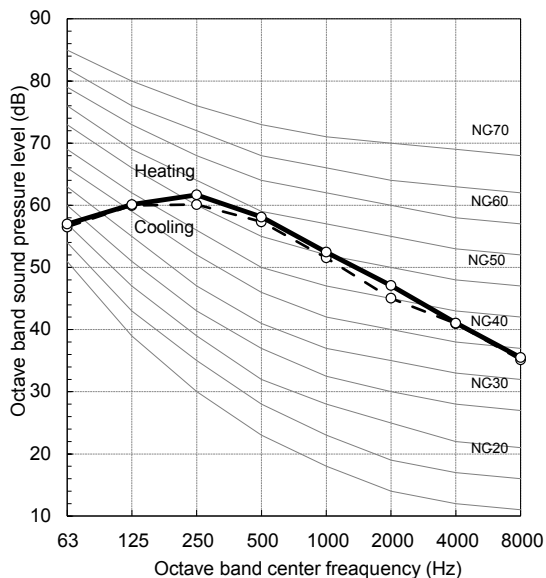
Sound pressure Level (dB(A))	Cooling	Heating
	66.5	67.5



High efficiency model

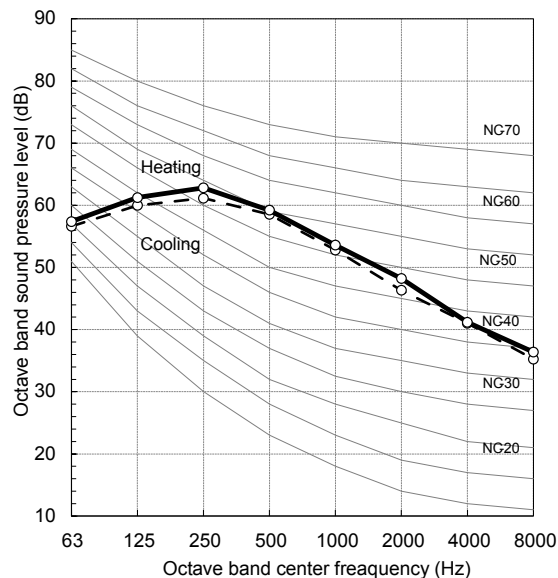
MMY-AP1626HT8P-ME

Sound pressure Level (dB(A))	Cooling	Heating
	58.0	59.0



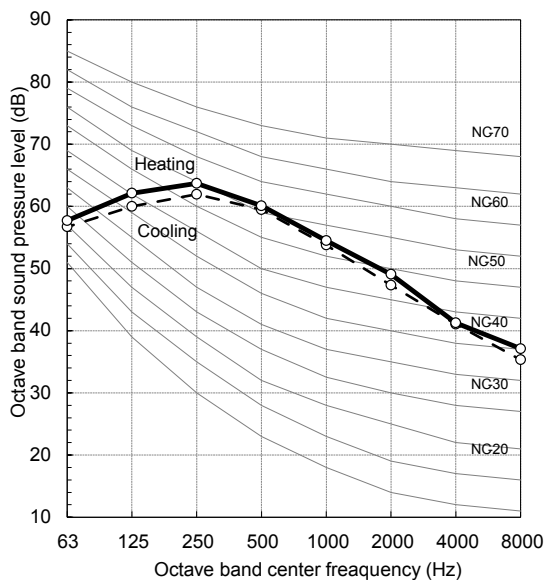
MMY-AP1826HT8P-ME

Sound pressure Level (dB(A))	Cooling	Heating
	59.5	60.5



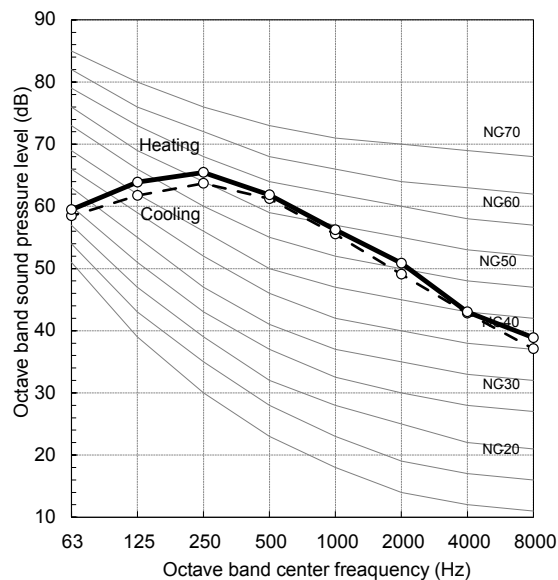
MMY-AP2026HT8P-ME

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



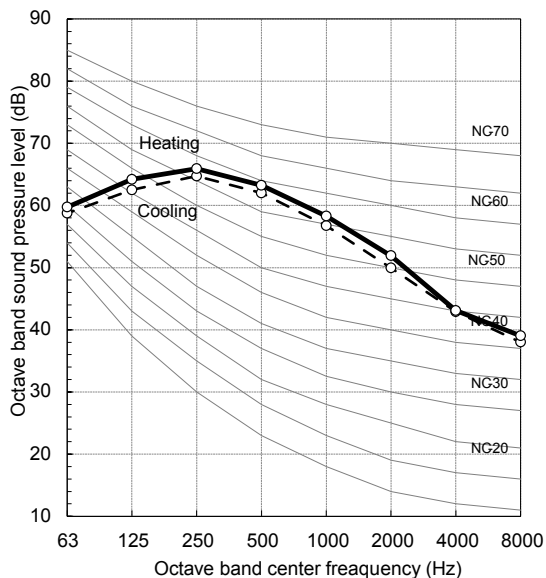
MMY-AP3026HT8P-ME

Sound pressure Level (dB(A))	Cooling	Heating
	62.0	63.0



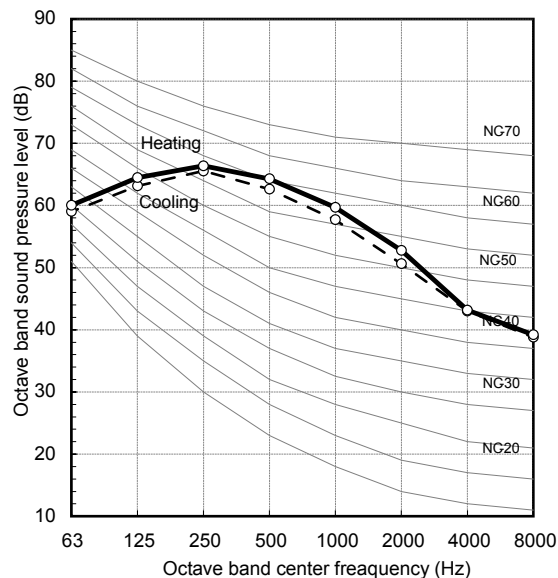
MMY-AP3226HT8P-ME

Sound pressure Level (dB(A))	Cooling	Heating
	62.5	64.0



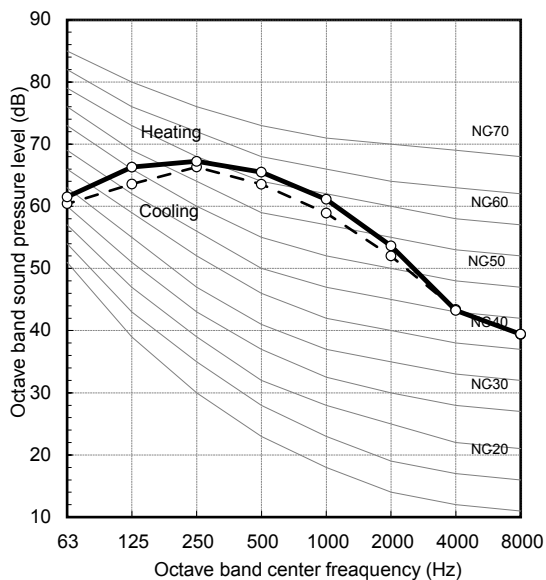
MMY-AP3426HT8P-ME

Sound pressure Level (dB(A))	Cooling	Heating
	63.5	65.0



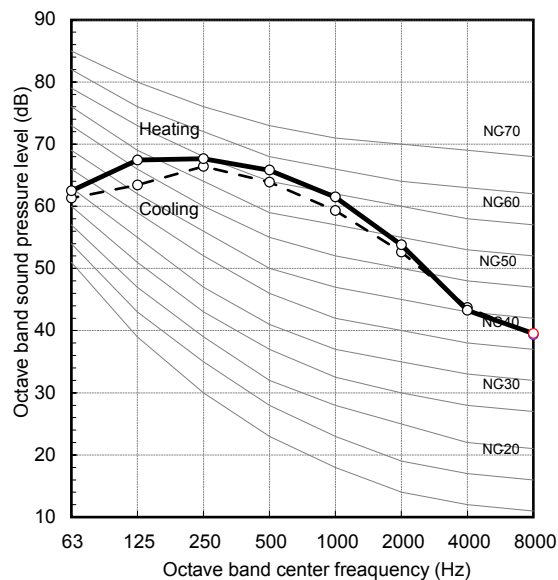
MMY-AP3826HT8P-ME

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



MMY-AP4026HT8P-ME

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



SMMS-e Engineering Data Book

Model name:

MMY-MAP_6HT8P-ME

December, 2017 Full version