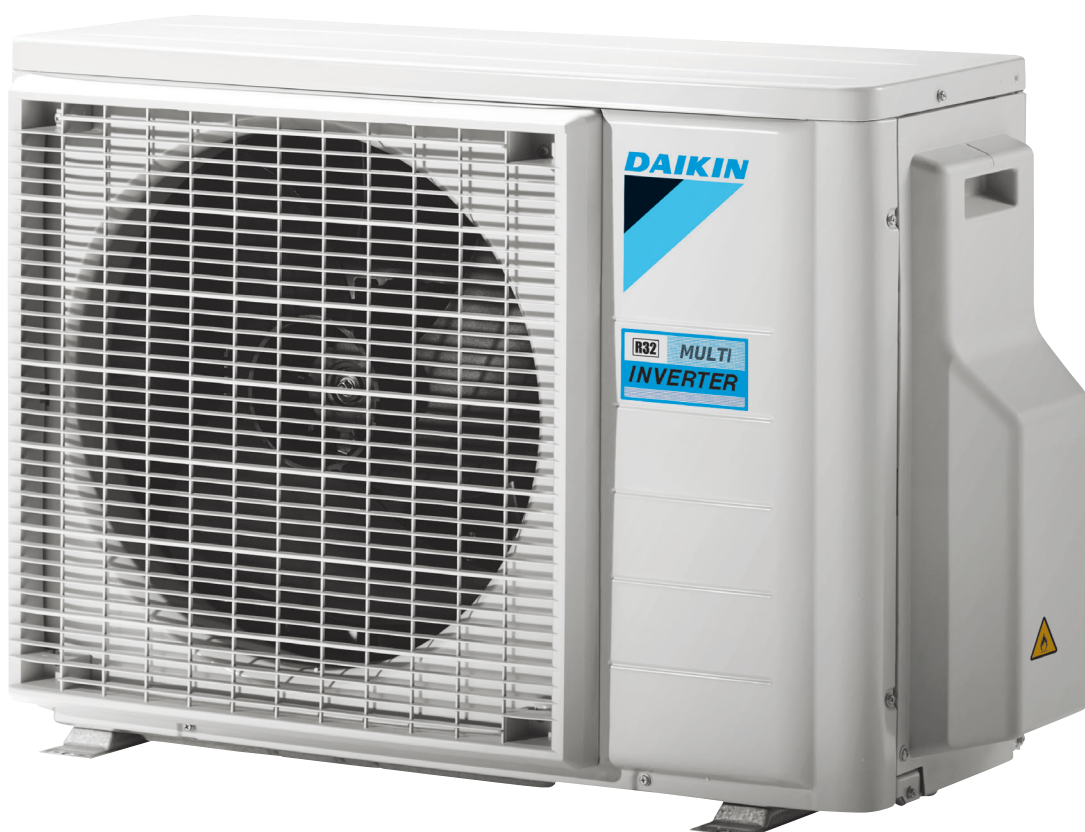


Multi model
application
Air Conditioning
Technical Data
2MXM-N9



2MXM40N2V1B9
2MXM50N2V1B9

TABLE OF CONTENTS

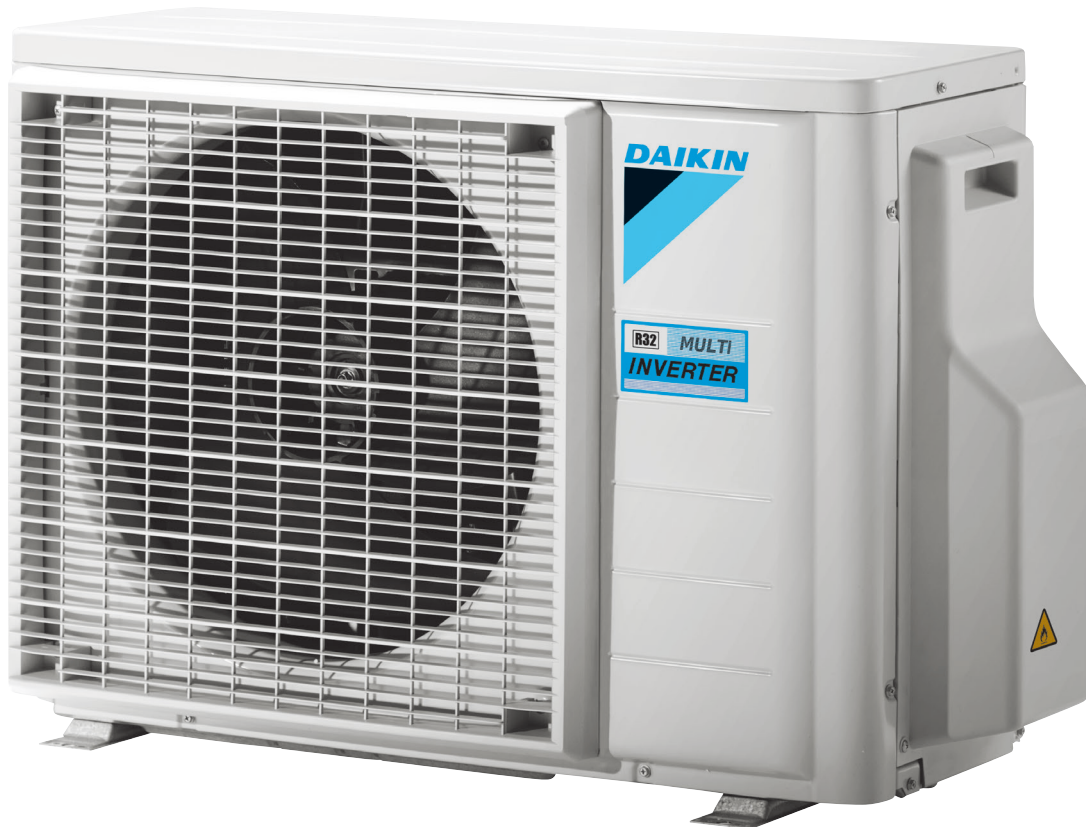
2MXM-N9

1	Features	4
	2MXM-N9	4
2	Specifications	5
3	Electrical data	7
4	Combination table	8
5	Capacity tables	10
	Capacity Table Legend	10
6	Dimensional drawings	11
7	Centre of gravity	12
8	Piping diagrams	13
9	Wiring diagrams	14
	Wiring Diagrams - Single Phase	14
10	Sound data	15
	Sound Pressure Spectrum	15
11	Installation	16
	Installation Method	16
12	Operation range	17

1 Features

1 - 1 2MXM-N9

- › Seasonal efficiency values up to A+++ in cooling and A++ in heating thanks to its up-to-date technology and built-in intelligence
- › Up to 2 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. They operate simultaneously within the same heating or cooling mode.
- › Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- › Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit
- › Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency



Inverter

2 Specifications

1 - 1 2MXM-N9

Technical specifications					2MXM40N9		2MXM50N9		
Casing	Colour				Ivory white				
Dimensions	Unit	Height	mm		552				
		Width	mm		852				
		Depth	mm		350				
	Packed unit	Height	mm		614				
		Width	mm		900				
		Depth	mm		357				
Weight	Unit	kg		36		41			
	Packed unit	kg		38		43			
Heat exchanger	Length		mm		805		810		
	Rows	Quantity		2					
	Fin pitch		mm		1.50				
	Stages	Quantity		24					
	Passes	Quantity		3.20					
	Tube type				7.0 Hi-XD		8.1 Hi-XA		
	Tube diameter		mm		7.0		8.1		
	Fin	Type			WF fin				
		Treatment		Anti-corrosion treatment					
Fan	Type		Propeller fan						
	Discharge direction		Horizontal						
	Quantity		1						
	Air flow rate	Cooling	High	m³/min	36		37		
				cfm	1,271		1,306		
			Medium	m³/min	33		34		
				cfm	1,165		1,200		
		Silent operation	m³/min	20					
			cfm	706					
			Heating	High	m³/min	32		34	
					cfm	1,130		1,200	
	Medium	m³/min		32		34			
		cfm		1,130		1,200			
	Silent operation	m³/min	18		22				
		cfm	636		777				
	Fan motor	Quantity		1					
Model		LFD-280-23-8F							
Output		W		50					
Fan motor	Speed	Cooling	High	rpm	900		950		
			Medium	rpm	840		890		
			Super low	rpm	500				
	Heating	High	rpm	820		890			
		Super low	rpm	320		500			
Compressor	Quantity		1						
	Model		1YC25GXD#C		2YC40JXD#C				
	Oil Amount		cm³		375		650		
	Type		Hermetically sealed swing compressor						
	Output		W		800		1,300		
	Oil Type		FW68DA						
	Power input	Cooling	Nom.	W	970		1,246		
		Heating	Nom.	W	981		1,372		
Sound power level	Cooling	Max		dBA	62				
		Night quiet mode		dBA	57		58		
	Heating	Max		dBA	62				
		Nom.		dBA	62				
	Night quiet mode			dBA	57		58		
Sound power level - Low sound mode (Stb. 2020, 189)	Cooling	Max.		dBA	60				
		Night quiet mode		dBA	55				
	Heating	Max.		dBA	60				
		Night quiet mode		dBA	55				
Sound pressure level	Cooling	High	dBA		46		48		
	Heating	High	dBA		48		50		
Refrigerant	Type		R-32						
	Charge		kg		0.88		1.15		
	Charge		TCO2Eq		0.60		0.78		
	Control		Expansion valve						
	GWP		675						

2 Specifications

1 - 1 2MXM-N9

2

Technical specifications				2MXM40N9	2MXM50N9
Piping connections	Liquid	Quantity		2	
		Type		Flare connection	
		OD	mm	6.4	
	Gas	Quantity		2	1
		Type		Flare connection	
		OD	mm	9.5	
Drain	Quantity	Type		1	
		Type		Drain Joint	
Piping connections	Drain	OD	mm	16 (inner diameter of connecting hose)	
		Quantity		-	1
	Gas 2	Type		-	Flare connection
		OD	mm	-	12.7
	Piping length	OU - IU	Max. m	20 (1)	
		Additional refrigerant charge	kg/m	0.02 (for piping length exceeding 20m)	
	Level difference	IU - OU	Max. m	15	
		IU - IU	m	7.5	
	Heat insulation			Both liquid and gas pipes	
	Total piping length	System	Actual m	30	
Capacity control	Method			Variable (inverter)	

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Screw bag; Quantity: 1;

Standard accessories: Drain plug; Quantity: 1;

Standard accessories: Reducer assembly; Quantity: 1;

Electrical specifications				2MXM40N9	2MXM50N9
Power supply	Phase			1~	
	Frequency		Hz	50	
	Voltage		V	220-230-240	
Wiring connections	For power supply	Quantity		3	
		Remark		Earth wire included	
	For connection with indoor	Quantity		4	
		Remark		Earth wire included	

(1)For one room |

See separate drawing for operation range |

See separate drawing for electrical data |

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

2MXM-N9

2AMXM-M9

Outdoor unit	Power supply			·RA· indoor units (·10·% safety factor)		Other indoor units (·10·% safety factor)		COMP		OFM	
				See note ·5·							
Model name	Hz	Voltage	Voltage range	MCA	MFA	MCA	MFA	RHz	RLA	kW	FLA
2MXM40N2V1B9	50	220	Maximum ·50·Hz ·264·V	9,80	16	9,80	16	-	5,1	0,040	0,17
	50	230							5,3		
	50	240	Minimum ·50·Hz ·198·V						5,6		
2MXM50N2V1B9	50	220	Maximum ·50·Hz ·264·V	12,94	16	13,27	16	-	5,9	0,042	0,18
	50	230							6,2		
	50	240	Minimum ·50·Hz ·198·V						6,5		
2AMXM40M4V1B9	50	220	Maximum ·50·Hz ·264·V	9,80	16	9,80	16	-	5,1	0,040	0,17
	50	230							5,3		
	50	240	Minimum ·50·Hz ·198·V						5,6		
2AMXM50M4V1B9	50	220	Maximum ·50·Hz ·264·V	12,94	16	13,27	16	-	5,9	0,042	0,18
	50	230							6,2		
	50	240	Minimum ·50·Hz ·198·V						6,5		

Notes

- 1) The ·RLA· is based on the following conditions.
Outdoor temperature ·35·°C DB
Indoor temperature ·27·°C DB / ·19·°C WB
- 2) Select the wire size according to the MCA.
- 3) The maximum allowable voltage that is unbalanced between phases is ·2·%.
- 4) Use a circuit breaker instead of a fuse.
- 5) Only for wall-mounted ·FVXM· units

Symbols

MCA: Minimum Circuit Ampere [A]
MFA: Maximum Fuse Ampere [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
RHz: Rated operating frequency [Hz]
FLA: Full Load Ampere [A]
kW: Fan motor rated output [kW]

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4 Combination table

4 - 1 Combination Table

2MXM40N9

Cooling · (50Hz 230V)·

Outdoor unit	Indoor unit	Cooling capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room A	Room B	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	
2MXM40M2V1B 2MXM40M3V1B 2MXM40M4V1B 2MXM40N2V1B 2MXM40N2V1B9	1.5	1.50	---	1.30	1.50	2.00	0.33	0.31	0.40	1.78	1.70	2.17	79
	2.0	2.00	---	1.30	2.00	2.40	0.33	0.44	0.57	1.78	2.38	3.09	79
	2.5	2.50	---	1.30	2.50	3.00	0.33	0.61	0.80	1.78	3.33	4.40	79
	3.5	3.50	---	1.30	3.50	4.00	0.33	1.04	1.35	1.78	5.71	7.38	79
	1.5+1.5	1.50	1.50	1.50	3.00	3.60	0.31	0.60	0.73	1.67	3.33	4.00	79
	1.5+2.0	1.50	2.00	1.50	3.50	4.00	0.31	0.79	0.91	1.67	4.35	4.98	79
	1.5+2.5	1.50	2.50	1.50	4.00	4.20	0.31	0.98	1.03	1.67	5.37	5.64	79
	1.5+3.5	1.20	2.80	1.50	4.00	4.40	0.31	0.96	1.06	1.67	5.30	5.83	79
	2.0+2.0	2.00	2.00	1.50	4.00	4.20	0.31	0.97	1.02	1.67	5.34	5.61	79
	2.0+2.5	1.78	2.22	1.50	4.00	4.30	0.31	0.96	1.04	1.67	5.30	5.70	79
	2.0+3.5	1.45	2.55	1.50	4.00	4.50	0.31	0.95	1.08	1.67	5.25	5.91	79
	2.5+2.5	2.00	2.00	1.50	4.00	4.40	0.31	0.96	1.06	1.67	5.27	5.80	79
	2.5+3.5	1.67	2.33	1.50	4.00	4.60	0.31	0.94	1.09	1.67	5.20	5.98	79

Heating · (50Hz 230V)·

Outdoor unit	Indoor unit	Heating capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room A	Room B	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	
2MXM40M2V1B 2MXM40M3V1B 2MXM40M4V1B 2MXM40N2V1B 2MXM40N2V1B9	1.5	2.00	---	1.00	2.00	3.30	0.26	0.68	1.04	1.43	3.66	5.69	79
	2.0	3.00	---	1.00	3.00	3.70	0.26	0.83	1.24	1.43	4.52	6.78	79
	2.5	3.40	---	1.00	3.40	4.10	0.26	1.02	1.48	1.43	5.59	8.09	79
	3.5	3.80	---	1.00	3.80	4.40	0.26	1.28	1.71	1.43	7.02	9.40	79
	1.5+1.5	1.75	1.75	1.20	3.50	4.30	0.24	0.80	0.99	1.31	4.43	5.45	79
	1.5+2.0	1.63	2.17	1.20	3.80	4.50	0.24	0.88	1.04	1.31	4.85	5.75	79
	1.5+2.5	1.58	2.63	1.20	4.20	4.60	0.24	1.00	1.10	1.31	5.53	6.06	79
	1.5+3.5	1.26	2.94	1.20	4.20	4.70	0.24	0.96	1.12	1.31	5.29	5.92	79
	2.0+2.0	2.10	2.10	1.30	4.20	4.60	0.24	0.98	1.08	1.31	5.41	5.93	79
	2.0+2.5	1.87	2.33	1.30	4.20	4.70	0.24	0.97	1.09	1.31	5.36	6.00	79
	2.0+3.5	1.53	2.67	1.30	4.20	4.80	0.24	0.95	1.09	1.31	5.25	6.00	79
	2.5+2.5	2.10	2.10	1.30	4.20	4.70	0.24	0.96	1.08	1.31	5.29	5.92	79
	2.5+3.5	1.75	2.45	1.30	4.20	4.80	0.24	0.94	1.08	1.31	5.19	5.94	79

Notes

- The total capacity of each connected indoor unit is up to ·6.0·kW.
- The values above are for connecting with the following indoor unit types:
·1.5, 2.0, 2.5, 3.5· kW class
Wall-mounted ·CTXM-M,FTXM-M· series
- These indoor units can only be used in a multi-unit setup.
- Heating capacity conditions
Indoor temperature ·20·°C DB
Outdoor temperature ·7·°C DB / ·6·°C WB
- Cooling capacity conditions
Indoor temperature ·27·°C DB / ·19·°C WB
Outdoor temperature ·35·°C DB

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4 Combination table

4 - 1 Combination Table

2MXM50N9

Outdoor unit	Indoor unit	Cooling capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room A	Room B	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	
2MXM50M2V1B 2MXM50M2V1B9 2MXM50M3V1B9 2MXM50N2V1B 2MXM50N2V1B9	1,5	1,50	---	1,40	1,50	2,20	0,31	0,32	0,52	1,53	1,55	2,53	89
	2,0	2,00	---	1,40	2,00	2,60	0,31	0,47	0,69	1,53	2,25	3,37	89
	2,5	2,50	---	1,40	2,50	3,10	0,31	0,67	0,92	1,53	3,27	4,50	89
	3,5	3,50	---	1,40	3,50	4,00	0,31	1,09	1,42	1,53	5,32	6,95	89
	4,2	4,20	---	1,40	4,20	4,70	0,31	1,59	1,75	1,53	7,73	8,57	89
	5,0	5,00	---	1,60	5,00	5,30	0,33	1,30	1,44	1,64	6,33	7,01	89
	1.5+1.5	1,50	1,50	1,60	3,00	3,20	0,33	0,62	0,66	1,64	3,03	3,24	89
	1.5+2.0	1,50	2,00	1,60	3,50	3,70	0,33	0,76	0,80	1,64	3,71	3,93	89
	1.5+2.5	1,50	2,50	1,60	4,00	4,20	0,33	0,94	0,99	1,64	4,60	4,83	89
	1.5+3.5	1,50	3,50	1,60	5,00	5,00	0,33	1,25	1,25	1,64	6,10	6,10	89
	1.5+4.2	1,32	3,68	1,60	5,00	5,40	0,33	1,23	1,54	1,64	6,04	6,53	89
	1.5+5.0	1,15	3,85	1,80	5,00	5,50	0,33	1,23	1,68	1,64	5,99	6,59	89
	2.0+2.0	2,00	2,00	1,80	4,00	5,00	0,33	0,94	1,28	1,64	4,60	5,75	89
	2.0+2.5	2,00	2,50	1,80	4,50	5,10	0,33	1,07	1,31	1,64	5,23	5,93	89
	2.0+3.5	1,82	3,18	1,80	5,00	5,40	0,33	1,24	1,49	1,64	6,05	6,54	89
	2.0+4.2	1,61	3,39	1,80	5,00	5,50	0,33	1,23	1,51	1,64	6,01	6,62	89
	2.0+5.0	1,43	3,57	1,80	5,00	5,50	0,33	1,22	1,44	1,64	5,95	6,55	89
	2.5+2.5	2,50	2,50	1,80	5,00	5,30	0,33	1,25	1,42	1,64	6,10	6,47	89
	2.5+3.5	2,08	2,92	1,80	5,00	5,40	0,33	1,23	1,43	1,64	6,02	6,51	89
	2.5+4.2	1,87	3,13	1,80	5,00	5,50	0,33	1,22	1,45	1,64	5,98	6,58	89
	2.5+5.0	1,67	3,33	1,80	5,00	5,50	0,33	1,21	1,38	1,64	5,92	6,52	89
	3.5+3.5	2,50	2,50	1,80	5,00	5,40	0,33	1,22	1,42	1,64	5,95	6,43	89
	3.5+4.2	2,27	2,73	1,80	5,00	5,50	0,33	1,21	1,40	1,64	5,90	6,49	89
	3.5+5.0	2,06	2,94	1,80	5,00	5,50	0,33	1,20	1,34	1,64	5,85	6,44	89
	4.2+4.2	2,50	2,50	1,80	5,00	5,50	0,33	1,20	1,38	1,64	5,88	6,47	89

Outdoor unit	Indoor unit	Heating capacity [kW]		Total capacity [kW]			Power input [kW]			Total current [A]			Power factor [%]
		Room A	Room B	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	Minimum	Nominal	Maximum	
2MXM50M2V1B 2MXM50M2V1B9 2MXM50M3V1B9 2MXM50N2V1B 2MXM50N2V1B9	1,5	2,00	---	1,10	2,00	3,30	0,29	0,68	0,95	1,44	3,31	4,66	89
	2,0	3,00	---	1,10	3,00	3,70	0,27	0,82	1,13	1,33	3,99	5,52	89
	2,5	3,40	---	1,10	3,40	4,10	0,25	0,99	1,34	1,23	4,81	6,54	89
	3,5	4,00	---	1,10	4,00	4,60	0,25	1,24	1,53	1,23	6,03	7,46	89
	4,2	4,60	---	1,10	4,60	5,00	0,23	1,49	1,81	1,12	7,27	8,85	89
	5,0	5,50	---	1,20	5,50	5,60	0,23	1,35	1,51	1,12	6,56	9,01	89
	1.5+1.5	2,00	2,00	1,20	4,00	4,54	0,23	0,87	0,99	1,12	4,27	4,85	89
	1.5+2.0	1,89	2,51	1,20	4,40	4,89	0,23	1,02	1,13	1,12	4,97	5,53	89
	1.5+2.5	1,80	3,00	1,20	4,80	5,19	0,23	1,18	1,27	1,12	5,75	6,22	89
	1.5+3.5	1,56	3,64	1,20	5,20	5,70	0,25	1,28	1,40	1,23	6,25	6,86	89
	1.5+4.2	1,47	4,13	1,20	5,60	5,96	0,25	1,37	1,46	1,23	6,71	7,15	89
	1.5+5.0	1,29	4,31	1,20	5,60	6,16	0,25	1,37	1,50	1,23	6,68	7,35	89
	2.0+2.0	2,60	2,60	1,20	5,20	5,70	0,23	1,27	1,40	1,12	6,22	6,82	89
	2.0+2.5	2,49	3,11	1,20	5,60	5,80	0,23	1,37	1,42	1,12	6,68	6,92	89
	2.0+3.5	2,04	3,56	1,20	5,60	5,90	0,25	1,36	1,43	1,23	6,65	7,01	89
	2.0+4.2	1,81	3,79	1,20	5,60	6,00	0,25	1,36	1,46	1,23	6,63	7,11	89
	2.0+5.0	1,60	4,00	1,20	5,60	6,20	0,25	1,35	1,50	1,23	6,60	7,31	89
	2.5+2.5	2,80	2,80	1,20	5,60	5,80	0,23	1,37	1,42	1,12	6,71	6,95	89
	2.5+3.5	2,33	3,27	1,20	5,60	6,00	0,25	1,38	1,48	1,23	6,76	7,25	89
	2.5+4.2	2,09	3,51	1,20	5,60	6,10	0,25	1,39	1,51	1,23	6,79	7,40	89
	2.5+5.0	1,87	3,73	1,30	5,60	6,30	0,25	1,41	1,58	1,23	6,88	7,74	89
	3.5+3.5	2,80	2,80	1,30	5,60	6,10	0,25	1,40	1,52	1,23	6,83	7,44	89
	3.5+4.2	2,55	3,05	1,30	5,60	6,20	0,25	1,40	1,55	1,23	6,84	7,58	89
	3.5+5.0	2,31	3,29	1,30	5,60	6,40	0,25	1,42	1,63	1,23	6,95	7,95	89
	4.2+4.2	2,80	2,80	1,30	5,60	6,30	0,25	1,41	1,58	1,23	6,88	7,74	89

Notes

- The total capacity of each connected indoor unit is up to ·8.5·kW.
- The values above are for connecting with the following indoor unit types:
·1.5, 2.0, 3.5, 4.2, 5.0· kW class
Wall-mounted ·CTXM-M,FTXM-M· series
- These indoor units can only be used in a multi-unit setup.
- Heating capacity conditions
Indoor temperature ·20·°C DB
Outdoor temperature ·7·°C DB / ·6·°C WB
- Cooling capacity conditions
Indoor temperature ·27·°C DB / ·19·°C WB
Outdoor temperature ·35·°C DB

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5 Capacity tables

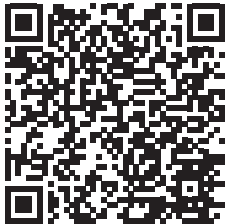
5 - 1 Capacity Table Legend

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In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

- **Capacity table database:** lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
- You can access the capacity table viewer here:
https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html



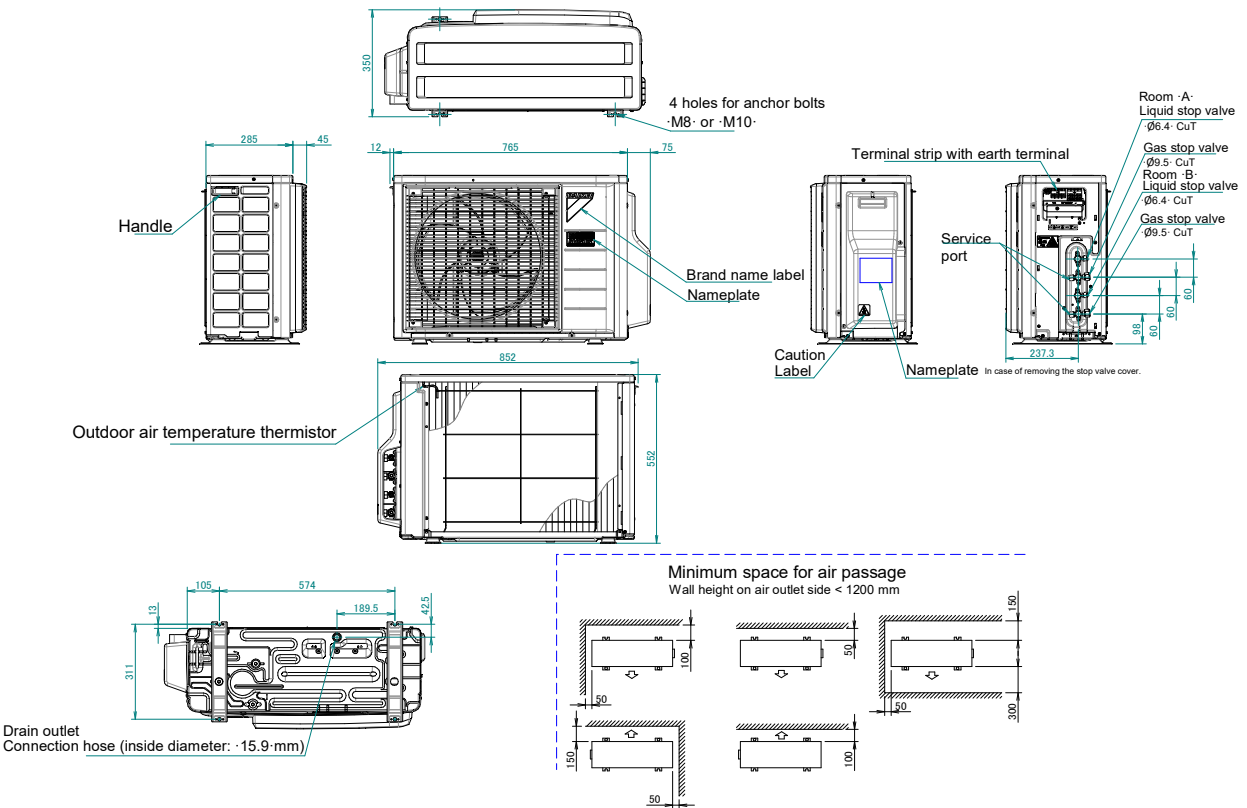
- An overview of **all software tools** that we offer can be found here:
https://my.daikin.eu/denv/en_US/home/applications/software-finder.html



6 Dimensional drawings

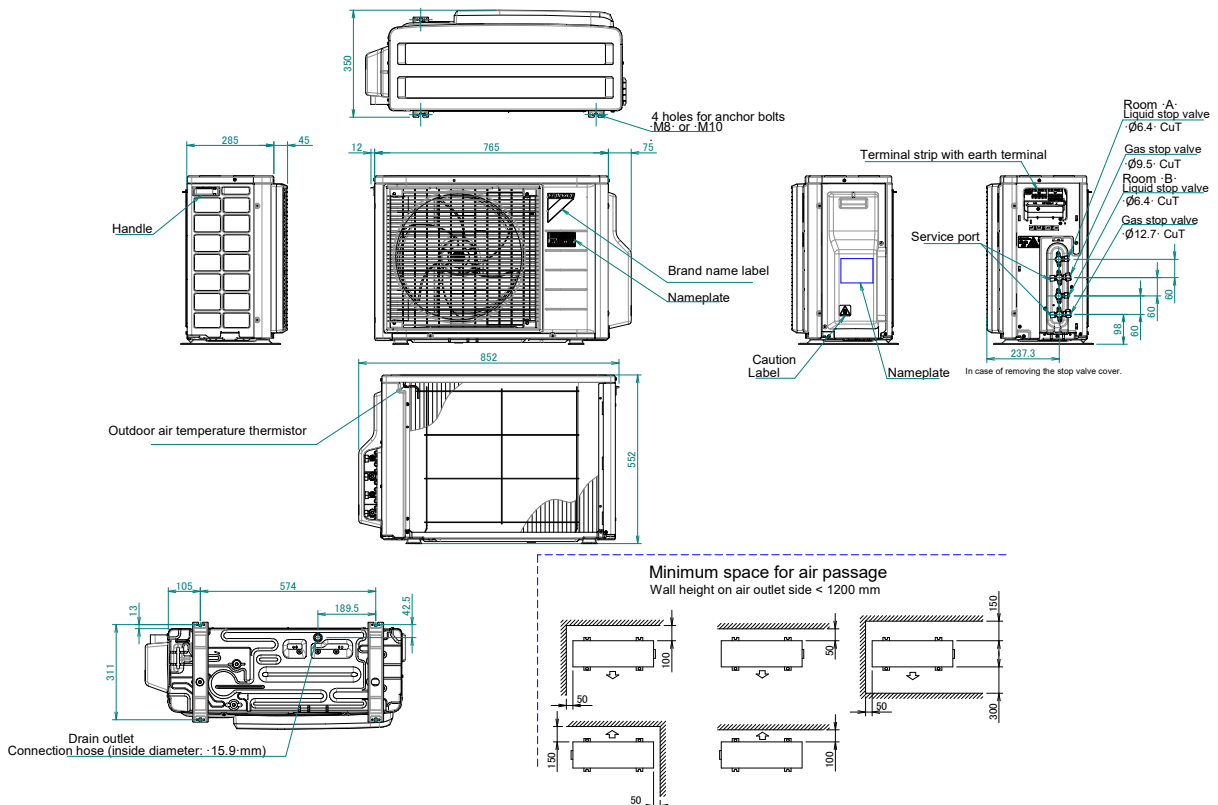
6 - 1 Dimensional Drawings

2MXM40N9
2AMXM40M9



3D101252B

2MXM50N9
2AMXM50M9



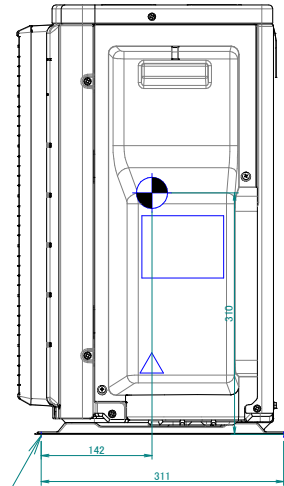
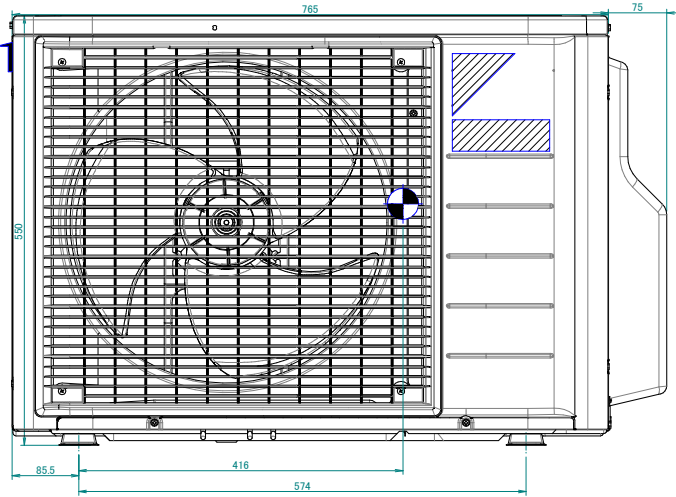
3D101375C

7 Centre of gravity

7 - 1 Centre of Gravity

2MXM-N9
2AMXM-M9

7



Foundation bolt hole

4D101315A

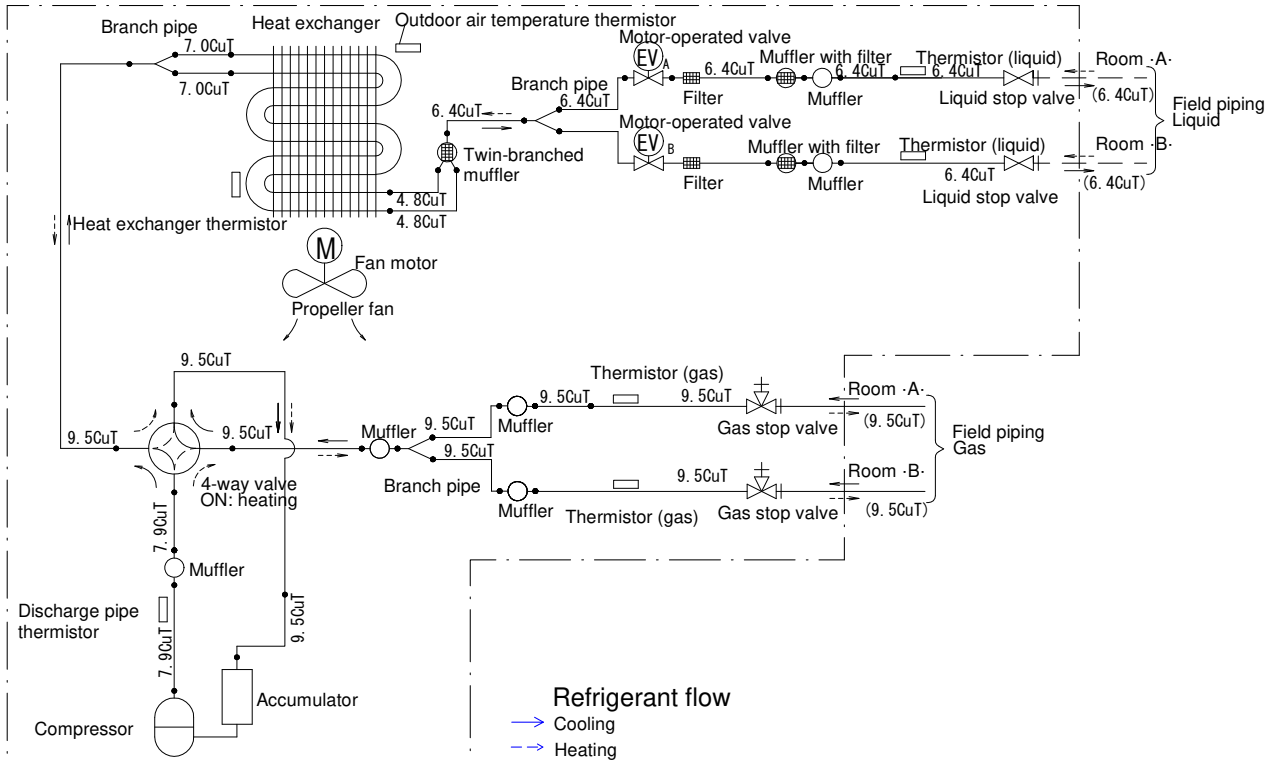
8 Piping diagrams

8 - 1 Piping Diagrams

2MXM40N9

2AMXM40M9

Outdoor unit

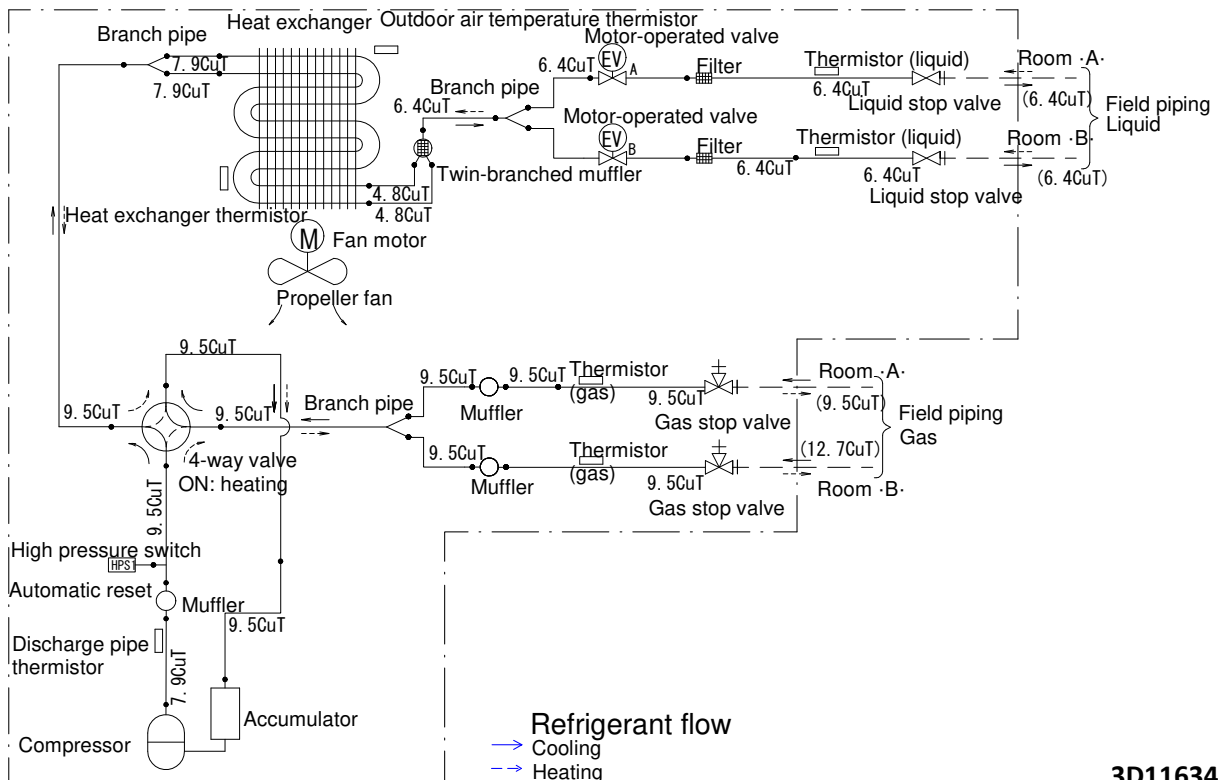


3D097255B

2MXM50N9

2AMXM50M9

Outdoor unit



3D116345

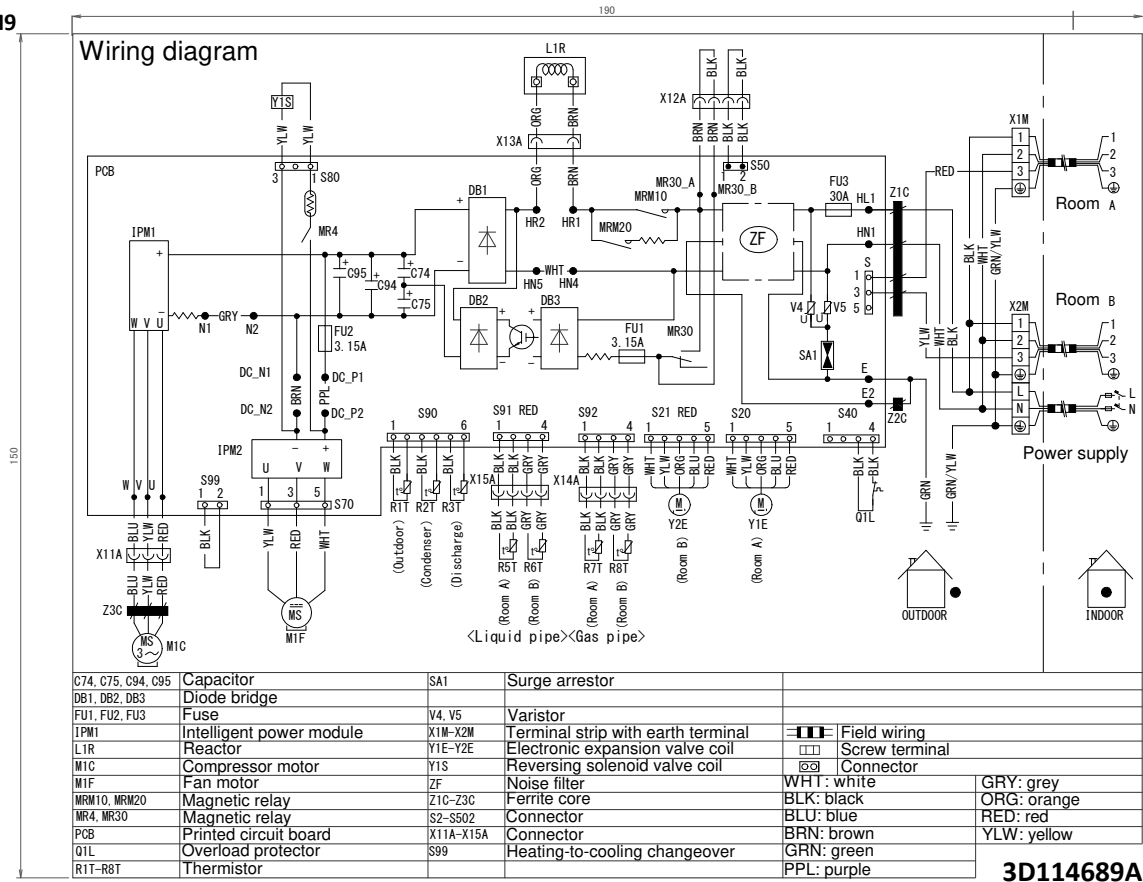
9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

9

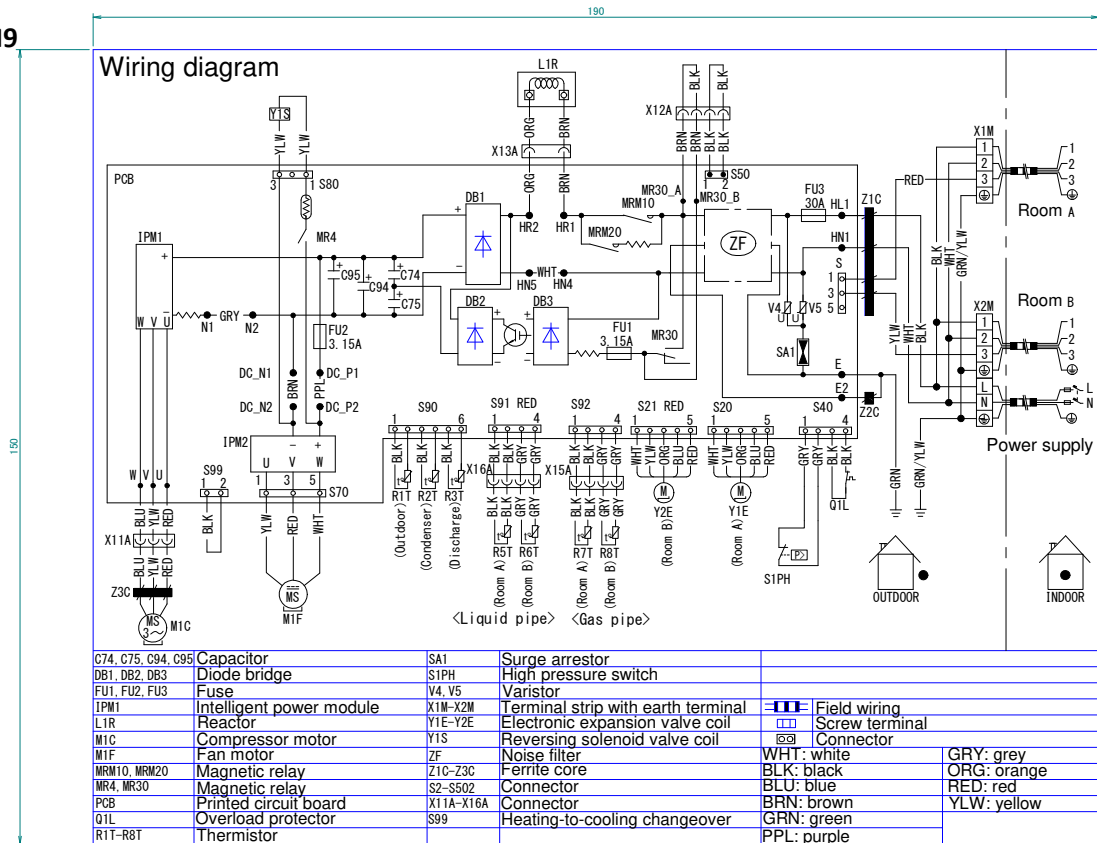
2MXM40N9
2AMXM40M9

Wiring diagram



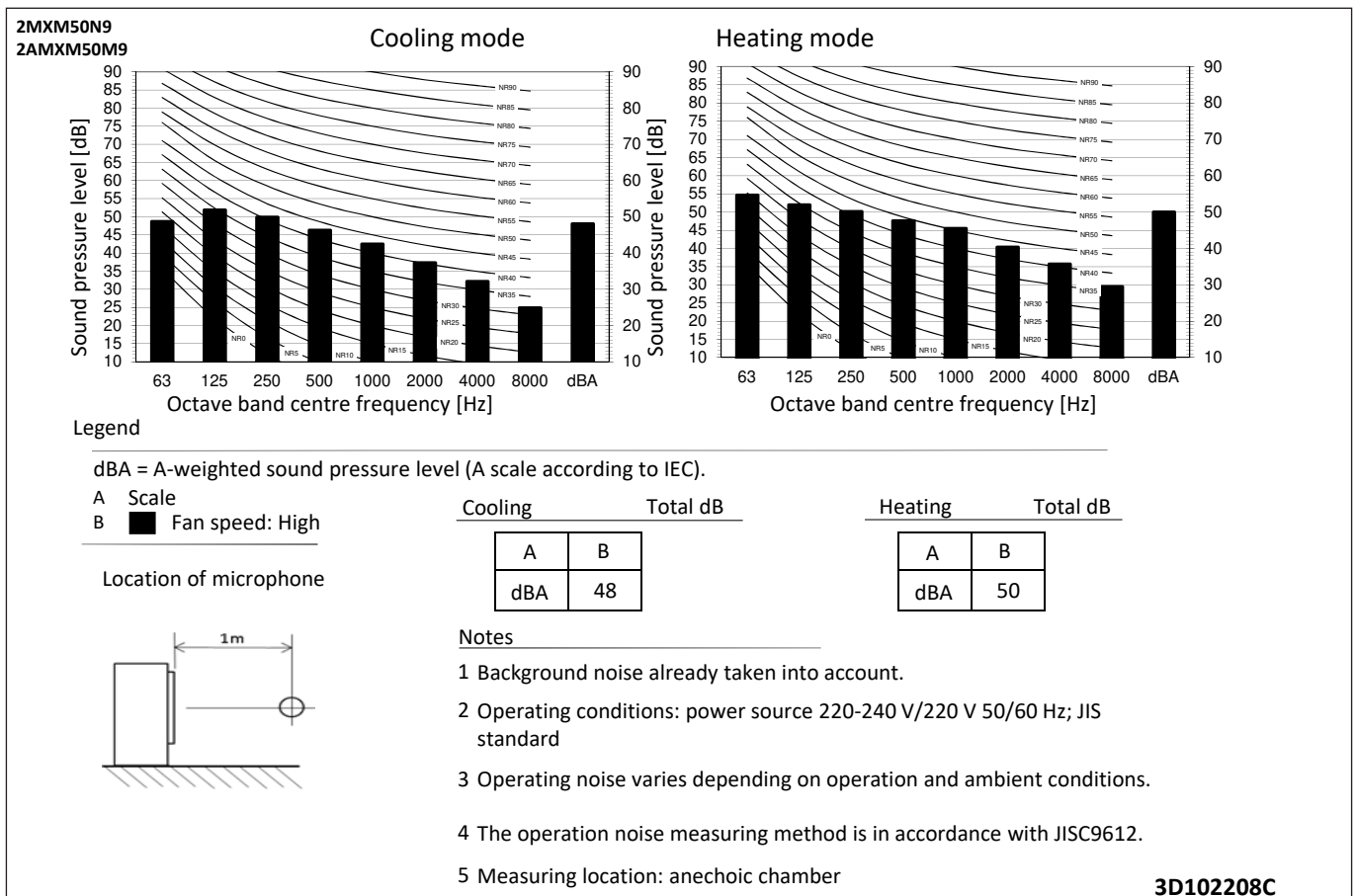
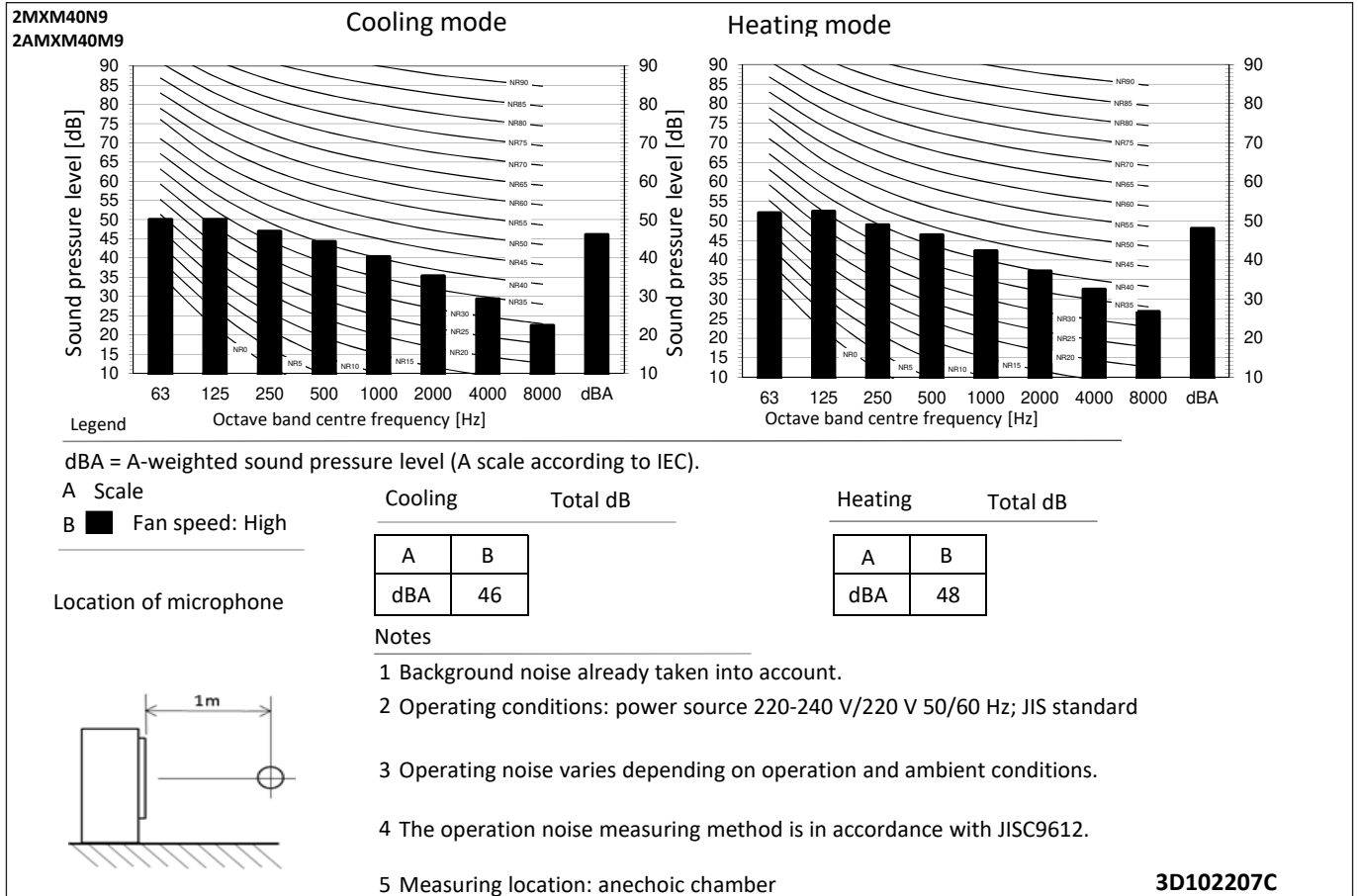
2MXM50N9
2AMXM50M9

Wiring diagram



10 Sound data

10 - 1 Sound Pressure Spectrum

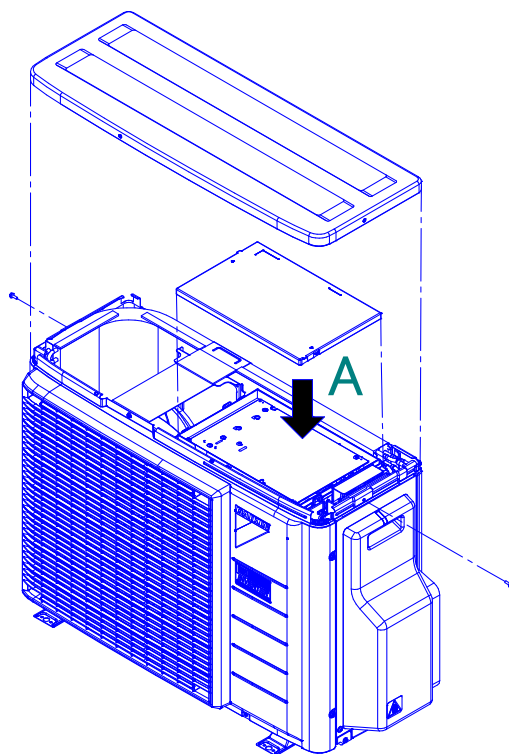


11 Installation

11 - 1 Installation Method

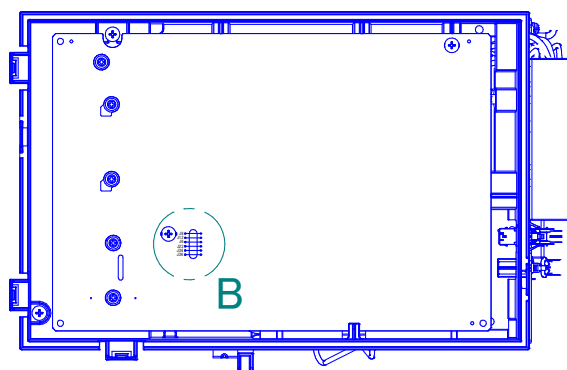
11

2MXM-N9 2AMXM-M9

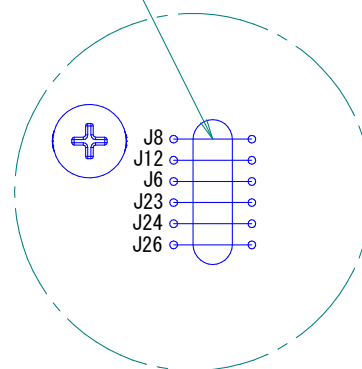


DISASSEMBLY OF UNIT

CUT JUMPER J8 WITH PLIERS
(CUT PARTS SHALL NOT TOUCH EACH OTHER)
(DO NOT DAMAGE OTHER JUMPERS)



ARROW VIEW A EL. COMPO. ASSY



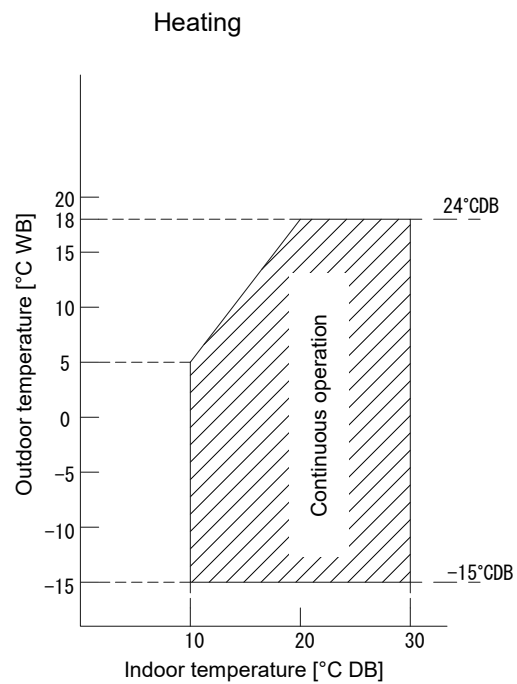
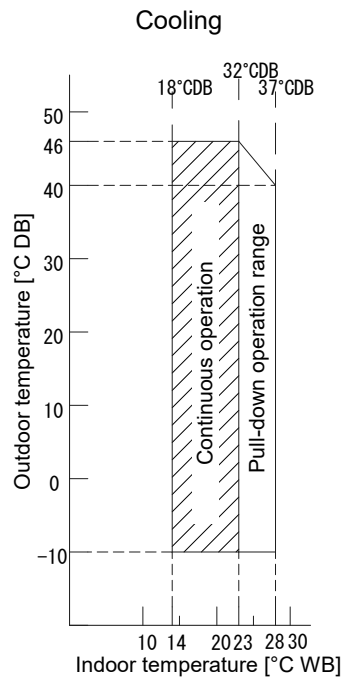
DETAIL B

4D133751

12 Operation range

12 - 1 Operation Range

2MXM-N9
2AMXM-M9
3MXM-N7

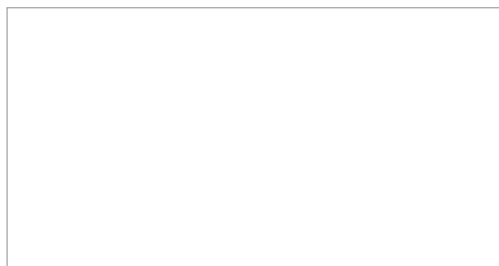


Notes

- The graph is based on the following conditions.
Corresponding refrigerant piping length: 5 m
Level difference: 0 m
Air flow rate High

3D101376D

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04/2021



Daikin Europe N.V. participates in the Eurovent Certified Performance programme for Fan Coil Units and Variable Refrigerant Flow systems. Check ongoing validity of certificate: www.eurovent-certification.com

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