

OA Processing unit

GUF-RD3
GUF-RDH3

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R410A
OA Processing unit

1. Specifications

Item	Model		GUF-50RDH3	GUF-100RDH3	GUF-50RD3	GUF-100RD3
Power supply	Single phase 220-240V ~50Hz					
Current	A		1.15	2.20	1.15	2.20
Input	W		235-265	480-505	235-265	480-505
Cooling capacity	kW		5.29<1.66>	10.81<3.49>	5.29<1.66>	10.81<3.49>
Heating capacity	kW		6.42<2.25>	13.00<4.70>	6.42<2.25>	13.00<4.70>
Fan	Type × No.		SA : Centrifugal fan [Sirocco fan] ×1 EA : Centrifugal fan [Sirocco fan] ×1			
	Air volume	m ³ /h	500	1000	500	1000
		L/S	139	278	139	278
External static pressure	Pa	125	135	140	140	
Noise level	※	dB(A)	33.5-34.5	38-39	33.5-34.5	38-39
Humidifying capacity		kg/h	2.7	5.4	-	-
Cladding	Galvanized steel plate					
Dimensions	Height	mm	317	398	317	398
	Width	mm	1016	1231	1016	1231
	Depth	mm	1288	1580	1288	1580
Weight (drying)		kg	57	98	54	92
Motor	Totally enclosed capacitor permanent split-phase induction motor, 4 poles, 2 units					
Air filter	Supply air		Non-woven fabrics filter : Gravitational method 82% +High efficiency filter : Colorimetric method 65% (optional parts)			
	Exhaust air		Non-woven fabrics filter : Gravitational method 82%			
Total heat exchanger (Lossnay element)	Partition, spacing plate-special treated paper					
Direct expansion heat exchanger coil	Aluminum plate fins and copper tubes					
Humidifying	Permeable film humidifier			- 15.88		
Refrigerant pipe dimension	Gas	φ mm	12.7	15.88	12.7	9.52
	Liquid	φ mm	6.35	9.52	6.35	
Drain pipe dimension	VP25					
Capacity equivalent to the indoor unit			P32	P63	P32	P63

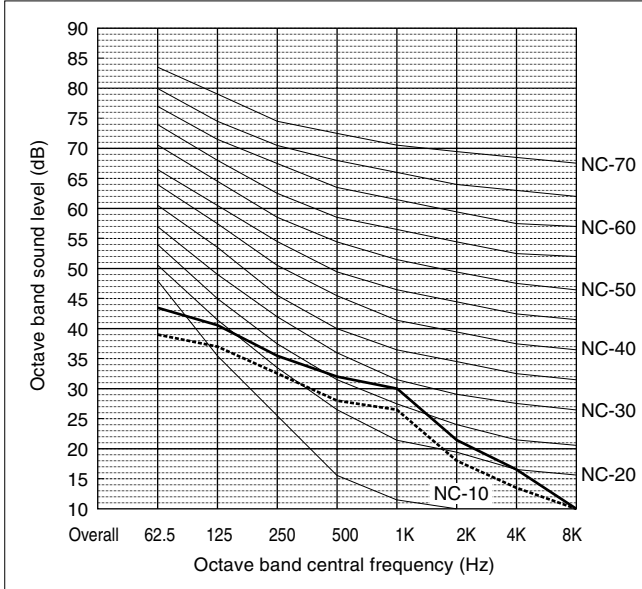
- Note: 1 The figures in < > indicates the heat recovery at Lossnay element.
 2 Cooling/Heating capacity indicates the maximum value at operation under the following condition.
 Cooling : Indoor : 27°C DB/19.5°C WB Outdoor : 35°C DB/24°C WB
 Heating : Indoor : 21°C DB/14.6°C WB Outdoor : 7°C DB/6°C WB
 3 The values given in the table for the noise level reflect the levels measured at a position 1.5 meters immediately below the unit in anechoic chamber.
 4 The noise at the air outlets (at a 45° angle, 1.5 meters in front) is about 5-6 dB(A) higher than the values given in the table.
 5 The above values apply during Lossnay ventilation when the fan speed is set to high speed.
 6 Specification may be subject to change without notice.
 ※ It is measured in anechoic room.

2. Sound Levels

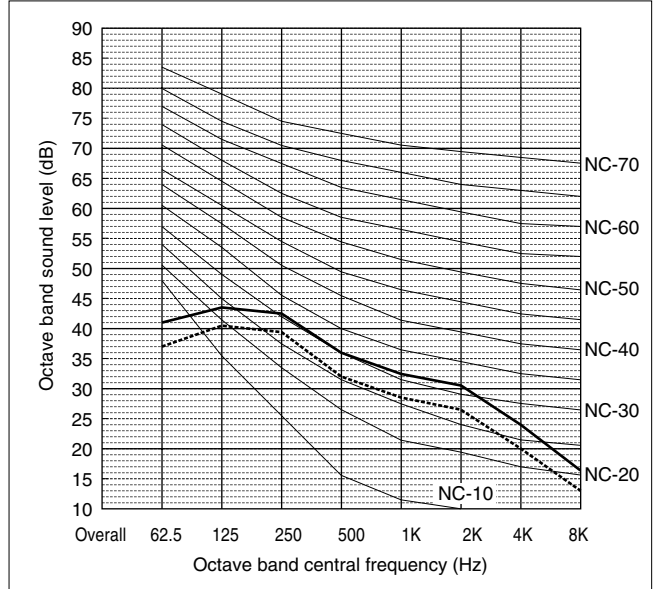
2.1 NC curves

GUF-50RDH3/50RD3

Directly below (Measurement point A)

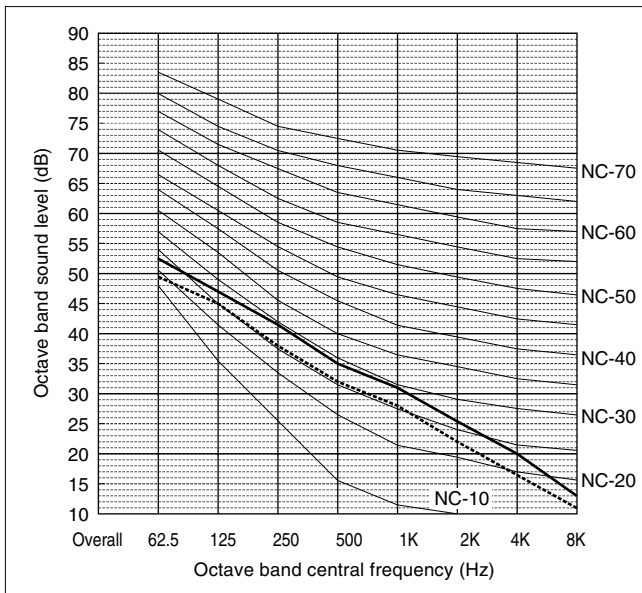


Outlet (Measurement point B)

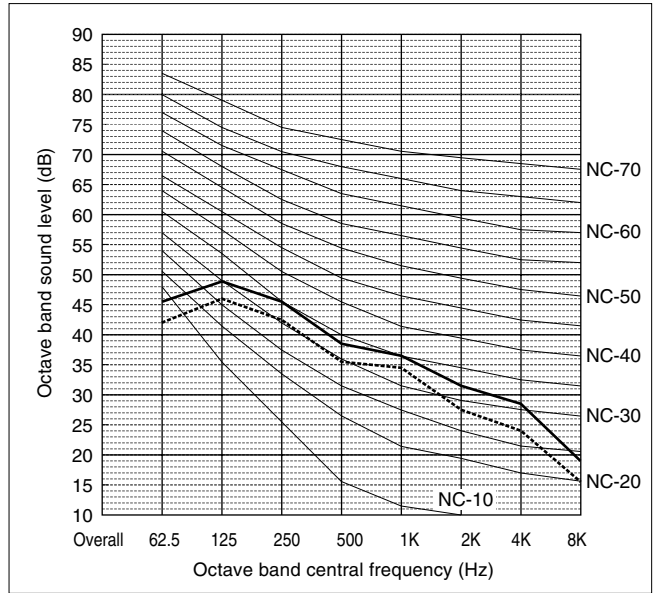


GUF-100RDH3/100RD3

Directly below (Measurement point A)



Outlet (Measurement point B)



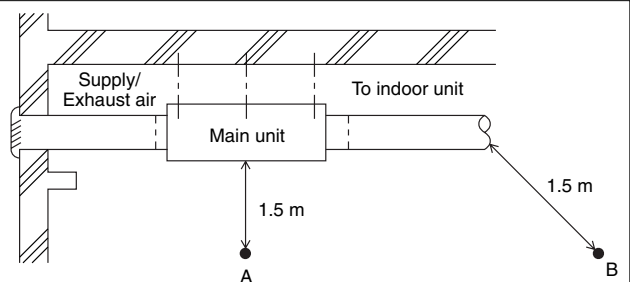
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● Measurement Condition

Measurement site:

Mitsubishi Electric Co.,
Nakatsugawa Works
Anechoic chamber

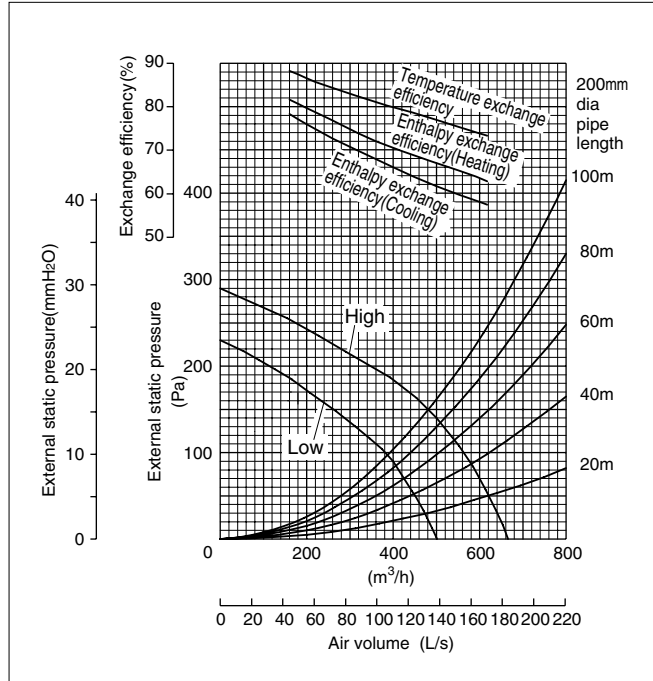
<Ceiling recessed type>



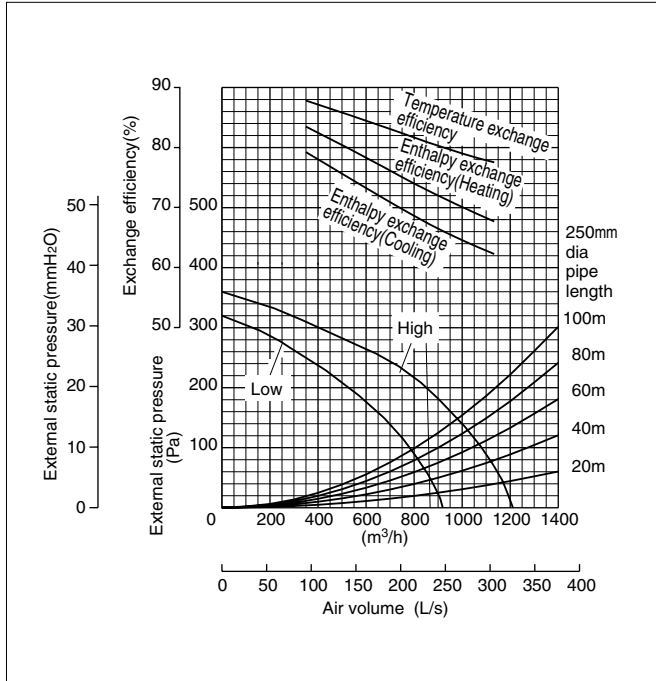
2.2 Fan characteristics curves

■ Humidifying Type

GUF-50RDH3

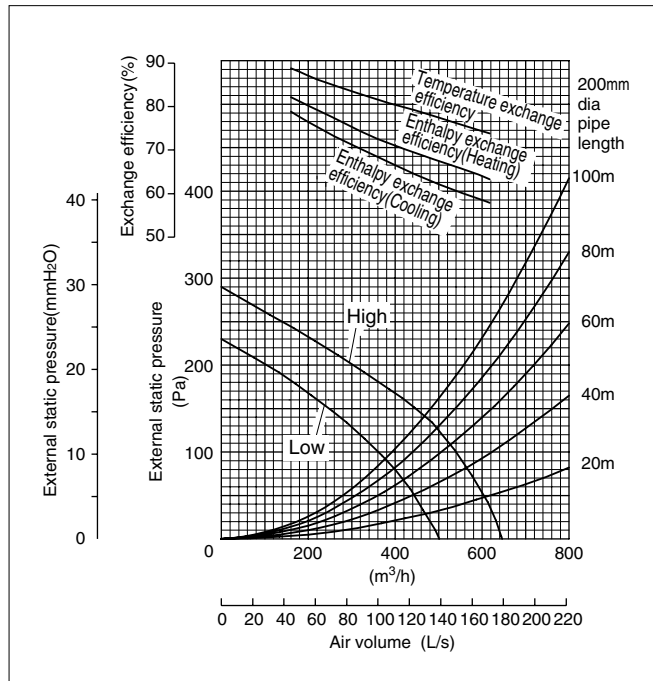


GUF-100RDH3

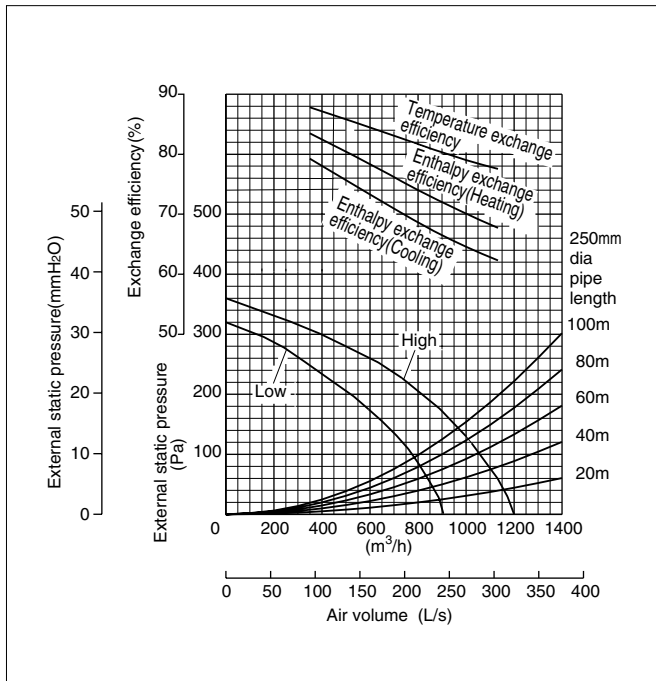


■ Non-Humidifying Type

GUF-50RD3



GUF-100RD3

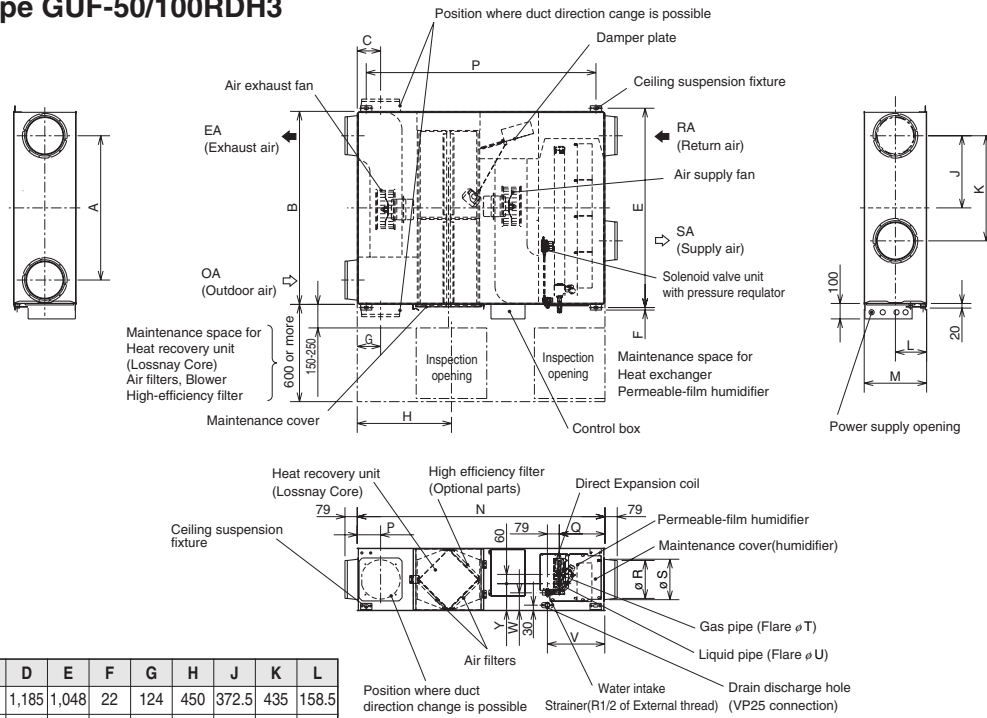


3. External Dimension

GUF-50, 100RD(H)3

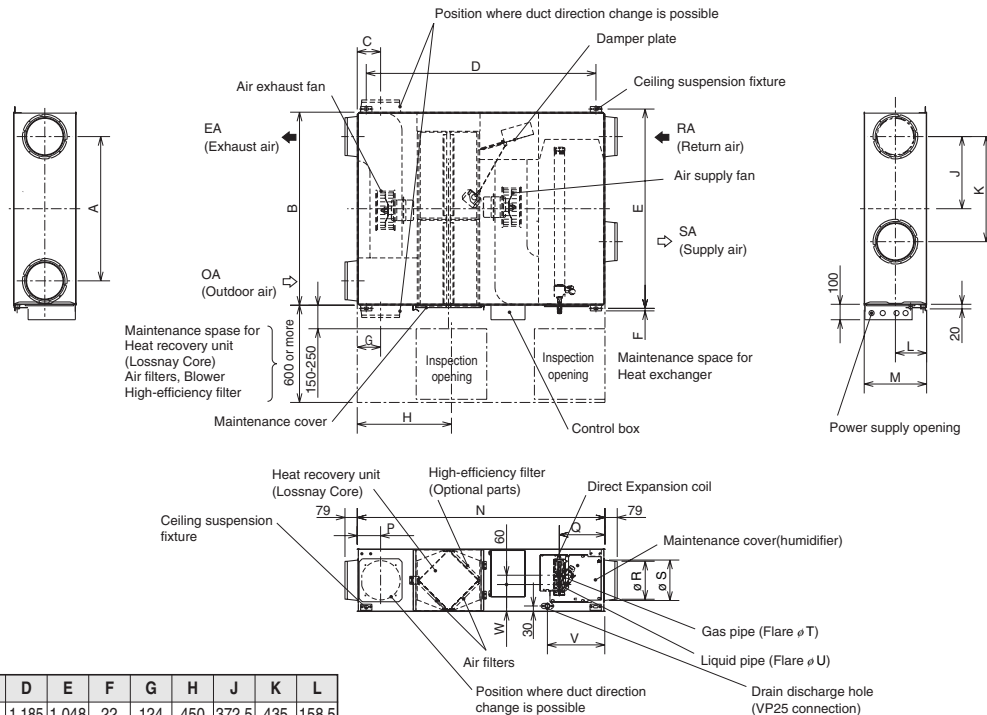
Unit : mm

Humidifying Type GUF-50/100RDH3



Model	A	B	C	D	E	F	G	H	J	K	L
GUF-50RDH3	745	1,016	124	1,185	1,048	22	124	450	372.5	435	158.5
GUF-100RDH3	920	1,231	149	1,465	1,271	16	149	600	460	670	199
Model	M	N	P	Q	R	S	T	U	V	W	Y
GUF-50RDH3	317	1,288	124	266	192	208	12.7	6.35	347	99	135
GUF-100RDH3	398	1,580	149	280	242	258	15.88	9.52	361	110	169

Non-Humidifying Type GUF-50/100RD3



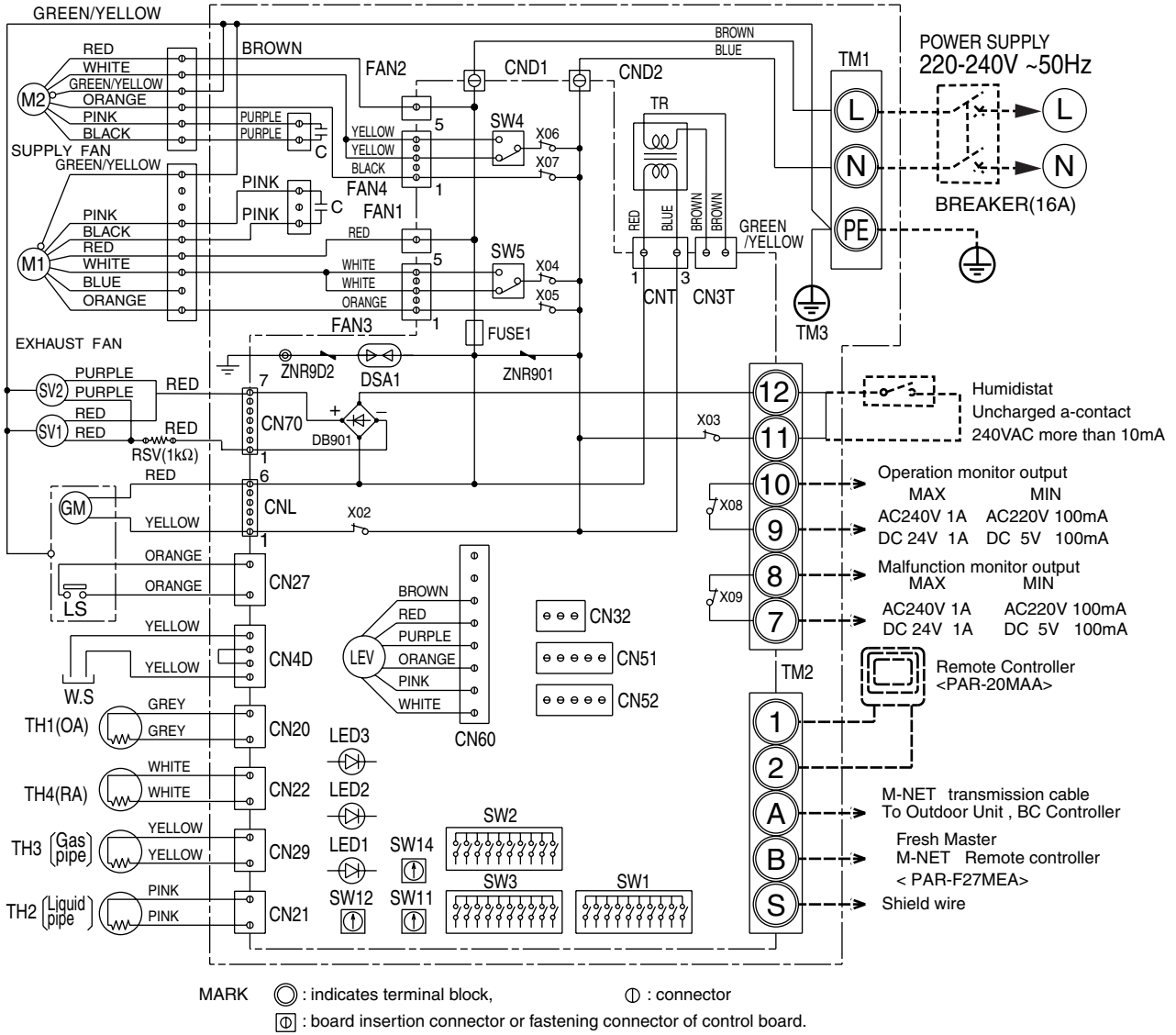
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4. Wiring Diagrams

Humidifying Type GUF-50/100RDH3

- TM1, TM2 shown in dotted lines are field work.
- Be sure to connect the grounding wire.
- Breakers and controller switches should be provided by the customer.

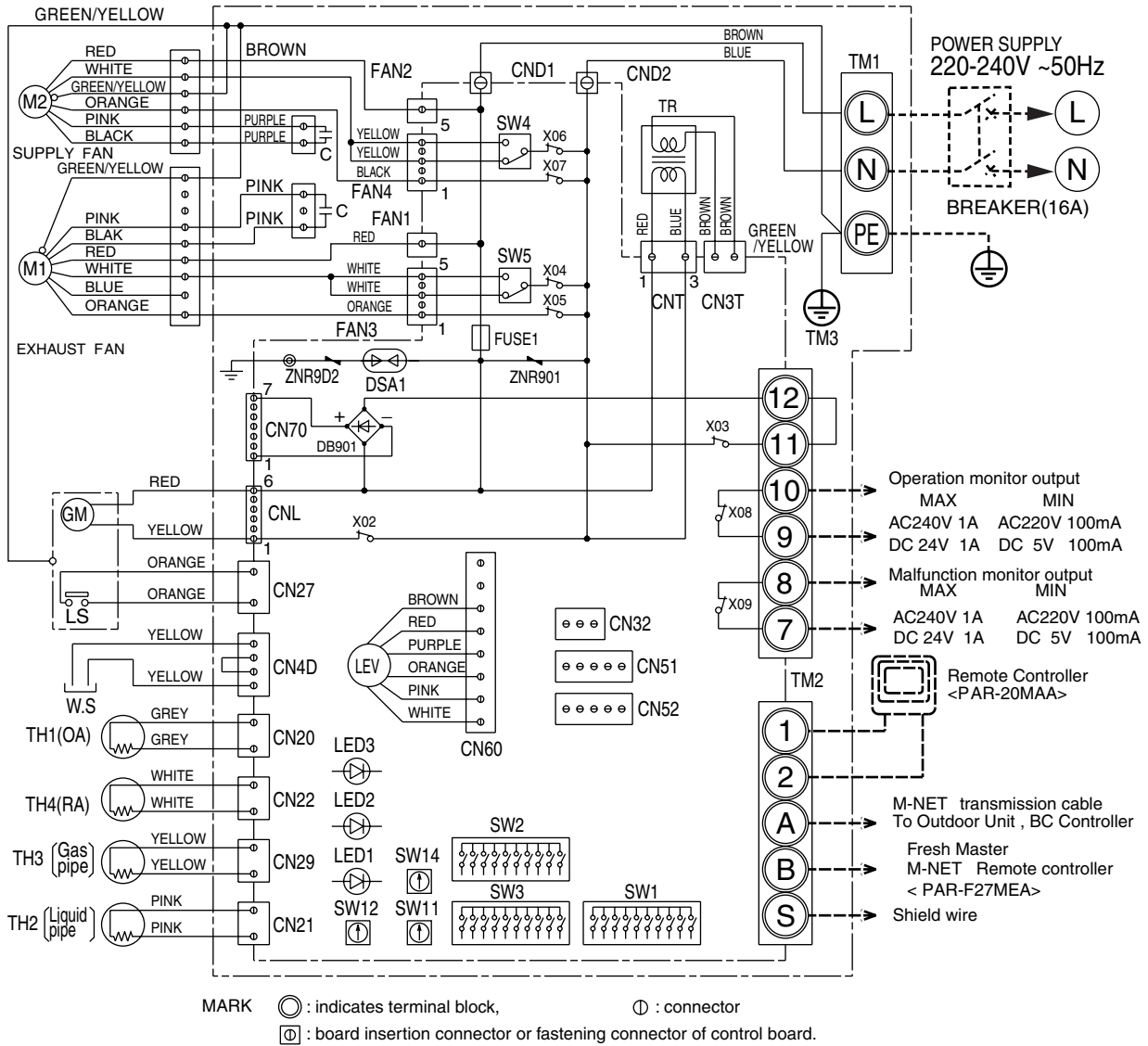


Symbol Explanation

Symbol	Name	Symbol	Name	Symbol	Name
M1	Fan motor (exhaust)	TM1	Terminal block (power supply)	1, 2	Remote control terminal
M2	Fan motor (supply)	TM2	Terminal block (transmission)	A, B	M-NET transmission terminal
C	Capacitor	TM3	Terminal block (humidistat, monitor)	S	Shield
W.S	Water sensor	SW1	Switch (function selection)	CND1, CND2	Connector (power supply)
SV1	Solenoid valve (pressure regulator)	SW2	Switch (capacity code setting)	X02-X09	Relay
SV2	Solenoid valve (exhaust)	SW3	Switch (function selection)	TR	Transformer
TH1	Thermistor (outdoor air temp. detection)	SW4, SW5	Switch	GM	Damper motor
TH2	Thermistor (pipe temp. detection/liquid)	SW11	Switch (1st digit address set)	LS	Limit switch
TH3	Thermistor (pipe temp. detection/gas)	SW12	Switch (2nd digit address set)	LED1	Power supply monitor
TH4	Thermistor (room air temp. detection)	SW14	Switch (branch NO. set)	LED2	MA Remote contolle
LEV	Electronic linear expansion valve	CN32	Connector (Remote input)		Power supply monitor
RSV	Resistance (solenoid valve)	CN51, CN52	Connector (Remote input/output)	LED3	M-NET Power supply monitor

Non-Humidifying Type GUF-50/100RD3

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Symbol Explanation

Symbol	Name	Symbol	Name	Symbol	Name
M1	Fan motor (exhaust)	TM1	Terminal block (power supply)	1, 2	Remote control terminal
M2	Fan motor (supply)	TM2	Terminal block (transmission)	A, B	M-NET transmission terminal
C	Capacitor	TM3	Terminal block (humidistat, monitor)	s	Shield
W.S	Water sensor	SW1	Switch (function selection)	CND1, CND2	Connector (power supply)
TH1	Thermistor (outdoor air temp. detection)	SW2	Switch (capacity code setting)	X02-X09	Relay
TH2	Thermistor (pipe temp. detection/liquid)	SW3	Switch (function selection)	TR	Transformer
TH3	Thermistor (pipe temp. detection/gas)	SW4, SW5	Switch	GM	Damper motor
TH4	Thermistor (room air temp. detection)	SW11	Switch (1st digit address set)	LS	Limit switch
LEV	Electronic linear expansion valve	SW12	Switch (2nd digit address set)	LED1	Power supply monitor
		SW14	Switch (branch NO. set)	LED2	MA Remote controller
		CN32	Connector (Remote input)		Power supply monitor
		CN51, CN52	Connector (Remote input/output)	LED3	M-NET Power supply monitor

