

GUF-RD4, GUF-RDH4

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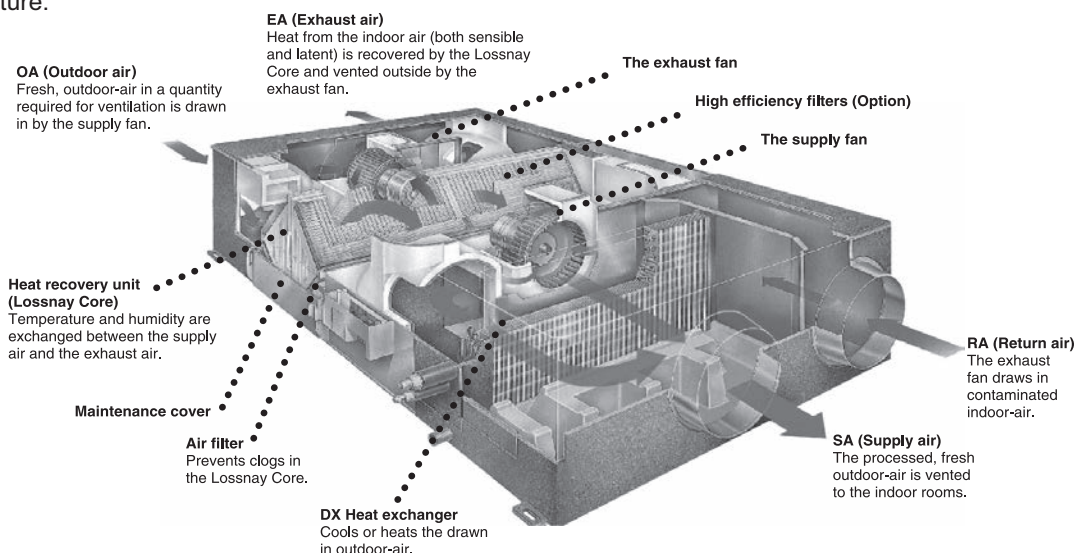
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OA Processing unit

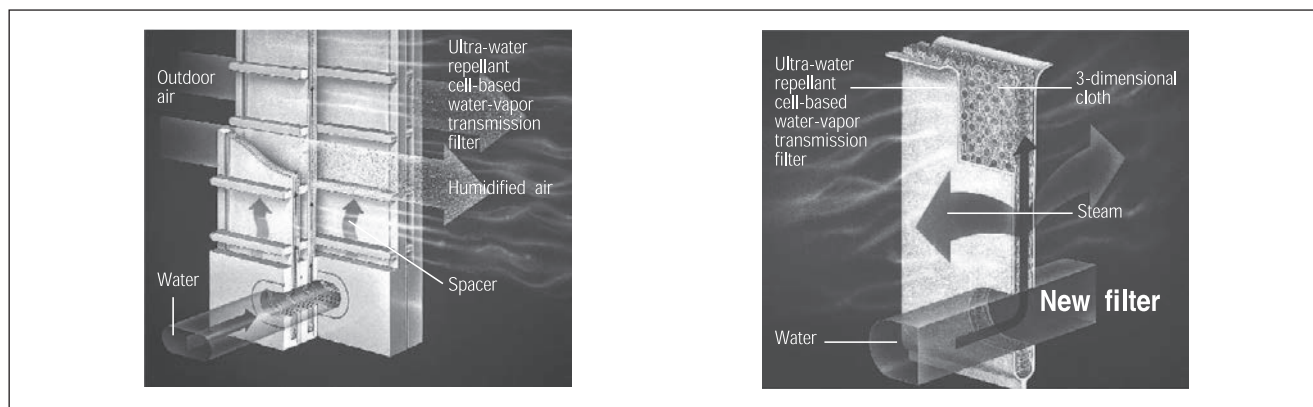
OA Processing unit GUF-RD(H)₄ combines the characteristics of LOSSNAY and air conditioning function of indoor unit, offers perfect air conditioning in which fresh outdoor air, humidity, temperature adjustment are all considered.

Moreover, GUF-RD(H)₄ realizes the air conditioning solution at the most energy saving method.

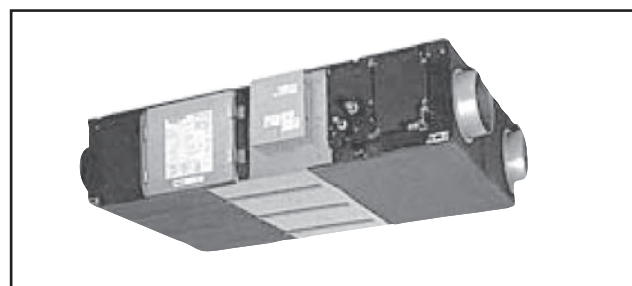
GUF Structure:



Permeable Film Humidifier (GUF-RDH Model)



Line up of OA Processing units



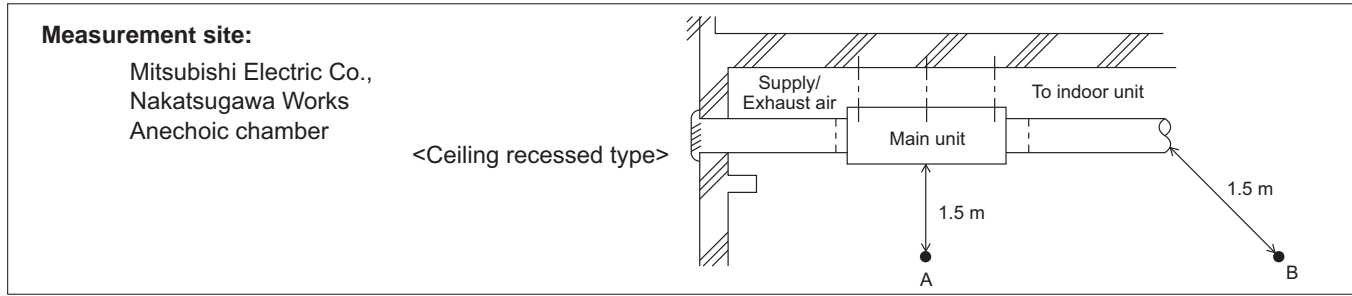
GUF-50RD ₄	500m ³ /h	1-phase 220-240V 50Hz
GUF-100RD ₄	1000m ³ /h	1-phase 220-240V 50Hz
GUF-50RDH ₄	500m ³ /h	1-phase 220-240V 50Hz
GUF-100RDH ₄	1000m ³ /h	1-phase 220-240V 50Hz

1. SPECIFICATIONS

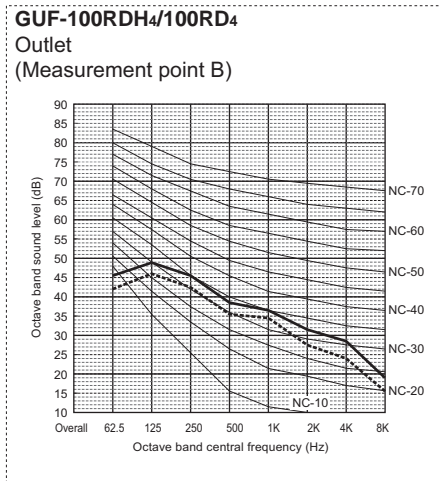
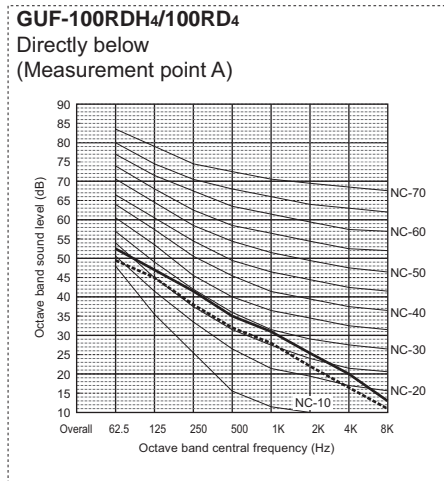
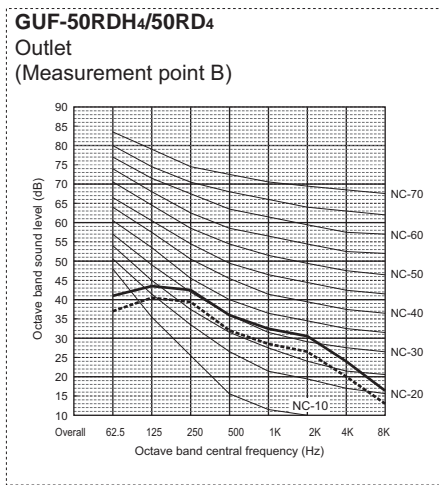
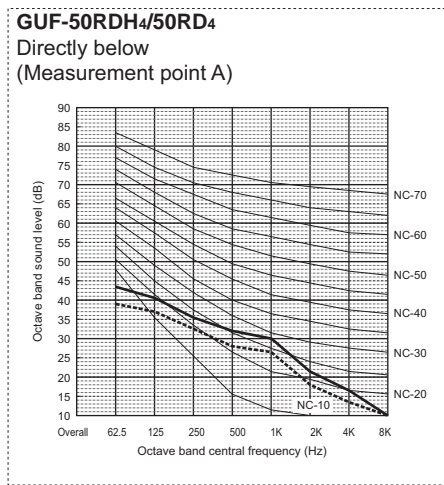
Model			GUF-50RDH ₄	GUF-100RDH ₄	GUF-50RD ₄	GUF-100RD ₄
Power source			1-phase 220-240V 50Hz			
Cooling capacity Figure in < > is the recovery capacity by LOSSNAY core.	*1	kW	5.57 <1.94>	11.44 <4.12>	5.57 <1.94>	11.44 <4.12>
	*1	kcal / h	4,800 <1,650>	9,800 <3,500>	4,800 <1,650>	9,800 <3,500>
	*1	BTU / h	19,000 <6,600>	39,000 <14,000>	19,000 <6,600>	39,000 <14,000>
	*3	Power input	W	235-265	480-505	235-265
	*3	Current input	A	1.15 2.20	1.15 2.20	1.15 2.20
Heating capacity Figure in < > is the recovery capacity by LOSSNAY core.	*2	kW	6.21 <2.04>	12.56 <4.26>	6.21 <2.04>	12.56 <4.26>
	*2	kcal / h	5,340 <1,750>	10,800 <3,650>	5,340 <1,750>	10,800 <3,650>
	*2	BTU / h	21,200 <7,000>	42,850 <14,450>	21,200 <7,000>	42,850 <14,450>
	*3	Power input	W	235-265	480-505	235-265
	*3	Current input	A	1.15 2.20	1.15 2.20	1.15 2.20
Capacity equivalent to indoor unit			P32	P63	P32	P63
Humidifying capacity	kg / h		2.7	5.4	-	-
	lbs / h		6.0	12.0	-	-
Humidifier			Permeable film humidifier			-
External finish			Galvanized, with grey insulation sheet			
External dimension H x W x D	mm		317 x 1,016 x 1,288	398 x 1,231 x 1,580	317 x 1,016 x 1,288	398 x 1,231 x 1,580
	in.		12-1/2 x 40 x 50-3/4	15-11/16 x 48-1/2 x 62-1/4	12-1/2 x 40 x 50-3/4	15-11/16 x 48-1/2 x 62-1/4
Net weight	kg (lbs)		51 (112)	88 (194)	48 (106)	82 (181)
Heat exchanger	LOSSNAY core		Partition, Cross-flow structure, Special preserved paper-plate.			
	Refrigerant coil		Cross fin (Aluminium fin and copper tube)			
FAN	Type x Quantity		SA: Centrifugal fan (Sirocco fan) x 1 EA: Centrifugal fan (Sirocco fan) x 1			
	External static press. *4	Pa	125	135	140	140
		mmH ₂ O	12.7	13.8	14.3	14.3
	Motor type		Totally enclosed capacitor permanent split-phase induction motor, 4 poles, 2units			
	Motor output		kW			
	Driving mechanism		Direct-driven by motor			
(High value)	Airflow rate		m ³ / h			
	L / s		139 278 139 278			
	cfm		294 589 294 589			
Sound pressure level (Low-High) (measured in anechoic room) *3	dB <A>		33.5-34.5	38-39	33.5-34.5	38-39
Insulation material			Polyester sheet			
Air filter	Supplying air		Non-woven fabrics filter (Gravitational method 82%) & Optional part: High efficiency filter (Colorimetric method 65%)			
	Exhausting air		Non-woven fabrics filter (Gravitational method 82%)			
Protection device			Fuse			
Refrigerant control device			LEV			
Connectable outdoor unit			R410A CITY MULTI			
Diameter of refrigerant pipe	Liquid	mm (in.)	ø6.35 (ø1/4) Flare	ø9.52 (ø3/8) Flare	ø6.35 (ø1/4) Flare	ø9.52 (ø3/8) Flare
	Gas	mm (in.)	ø12.7 (ø1/2) Flare	ø15.88 (ø5/8) Flare	ø12.7 (ø1/2) Flare	ø15.88 (ø5/8) Flare
Field drain pipe size		mm (in.)	Socket(L.D. 32mm (1-1/4))+O.D. 32mm (1-1/4)			
Drawing	External		-			
	Wiring		-			
	Refrigerant cycle		-			
Standard attachment	Document		Installation Manual, Instruction Book			
	Accessory					
Remark	Optional parts		High efficiency filter: PZ-50RFM-E (for GUF-50RDH ₄ , GUF-50RD ₄) PZ-100RFM-E (for GUF-100RDH ₄ , GUF-100RD ₄)			
	Installation		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
Note :			*1 Nominal cooling conditions			*2 Nominal heating conditions
Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)			20°CDB (68°FDB)			Unit converter
Outdoor : 35°CDB (95°FDB)			7°CDB/6°CWB (45°FDB/43°FWB)			kcal/h = kW x 860
Pipe length : 7.5 m (24-9/16 ft)						BTU/h = kW x 3,412
Level difference : 0 m (0 ft)						cfm = m ³ /min x 35.31
						lbs = kg / 0.4536
* Nominal conditions *1, *2 are subject to JIS B8615-1.						*Above specification data is subject to rounding variation.
* Due to continuing improvement, above specification may be subject to change without notice.						
*3 The values are measured at the rated external static pressure.						
*4 The figure in < > indicates the value when external static pressure is changed.						

OA

2-1. Measurement Condition

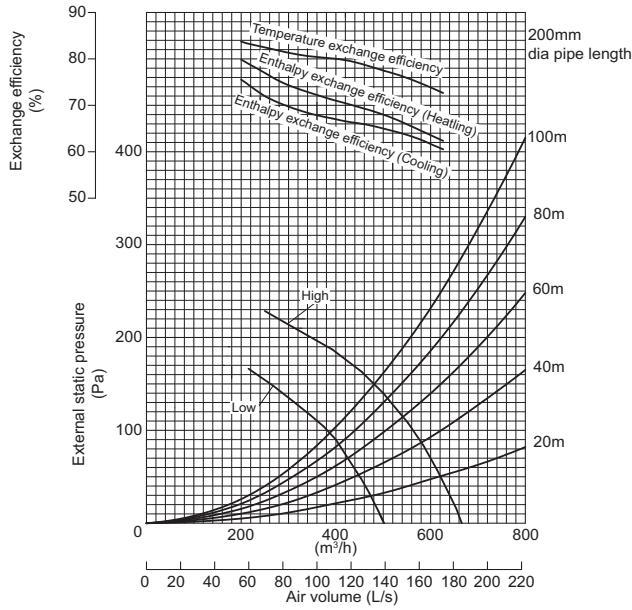


2-2. NC curves

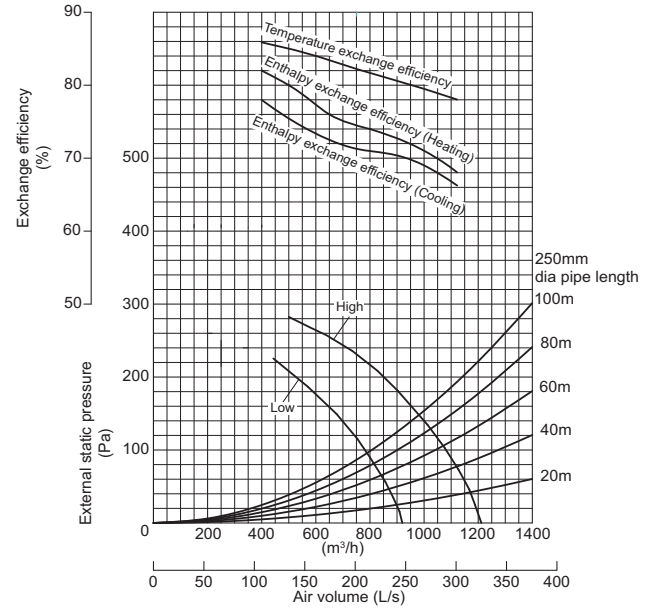


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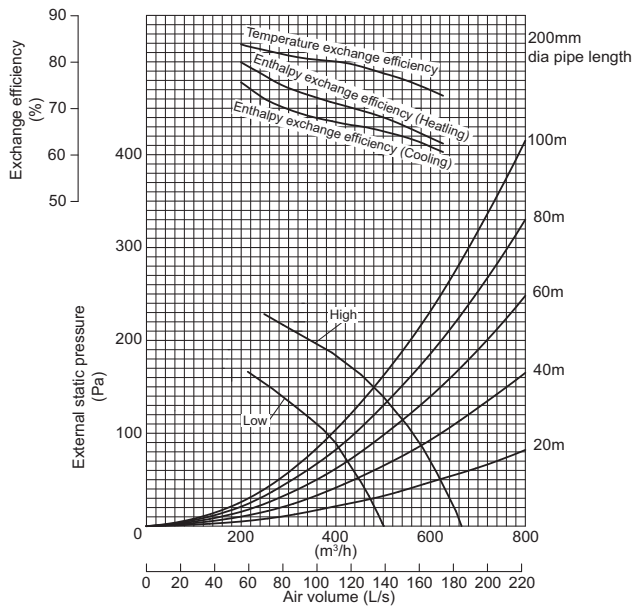
GUF-50RD4
Non-Humidifying Type



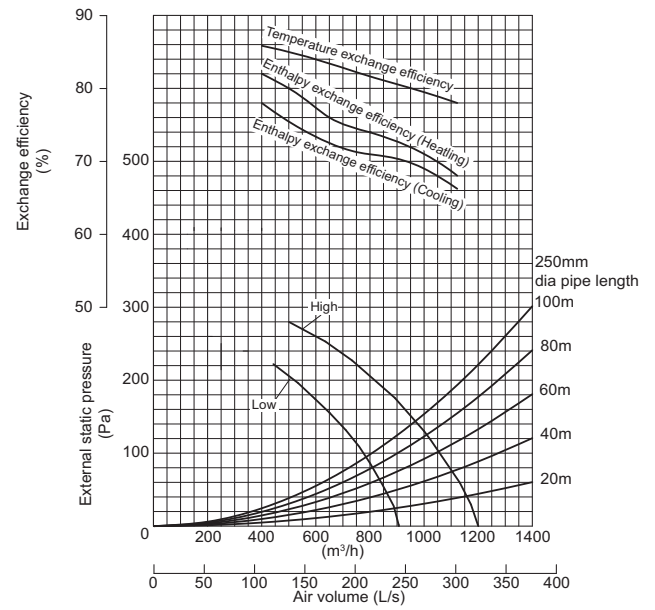
GUF-100RD4
Non-Humidifying Type



GUF-50RDH4
Humidifying Type



GUF-100RDH4
Humidifying Type

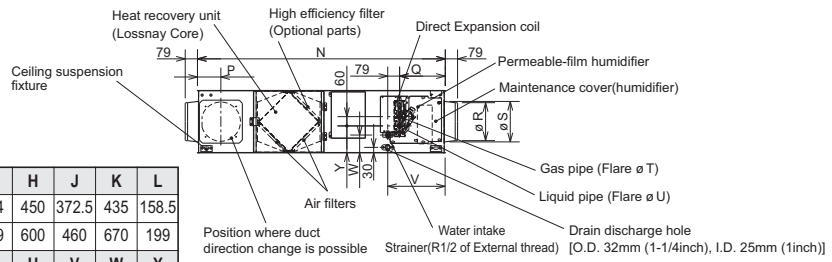
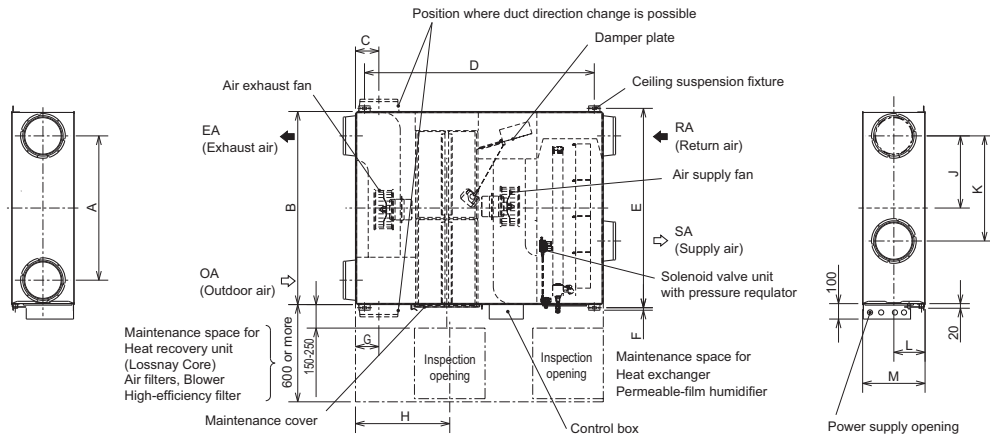


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GUF-50,100RD(H)₄

Humidifying Type GUF-50/100RDH₄

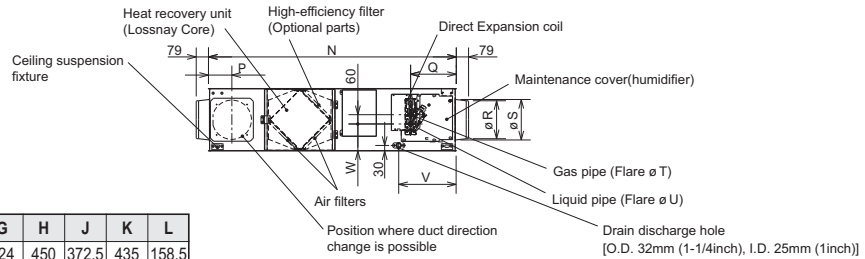
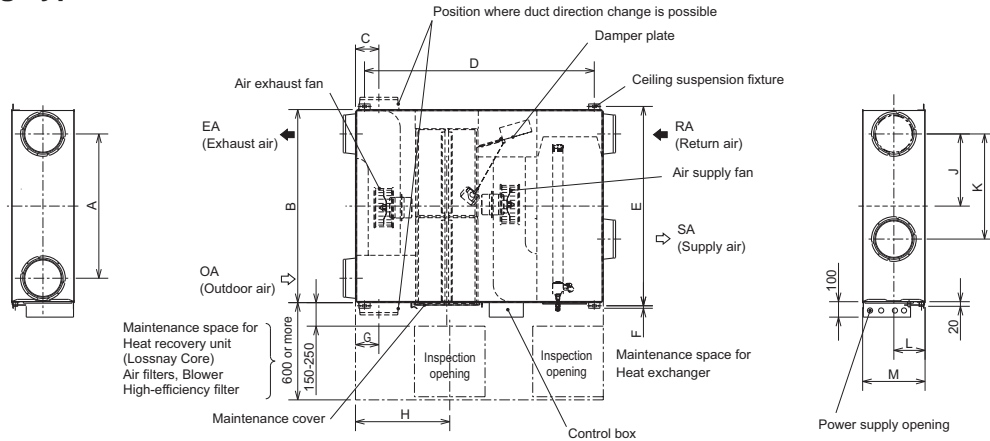
Unit : mm



Model	A	B	C	D	E	F	G	H	J	K	L
GUF-50RDH ₄	745	1,016	124	1,185	1,048	22	124	450	372.5	435	158.5
GUF-100RDH ₄	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-50RDH ₄	317	1,288	124	266	192	208	12.7	6.35	347	99	135
GUF-100RDH ₄	398	1,580	149	280	242	258	15.88	9.52	361	110	169

Non-Humidifying Type GUF-50/100RD₄

Unit : mm



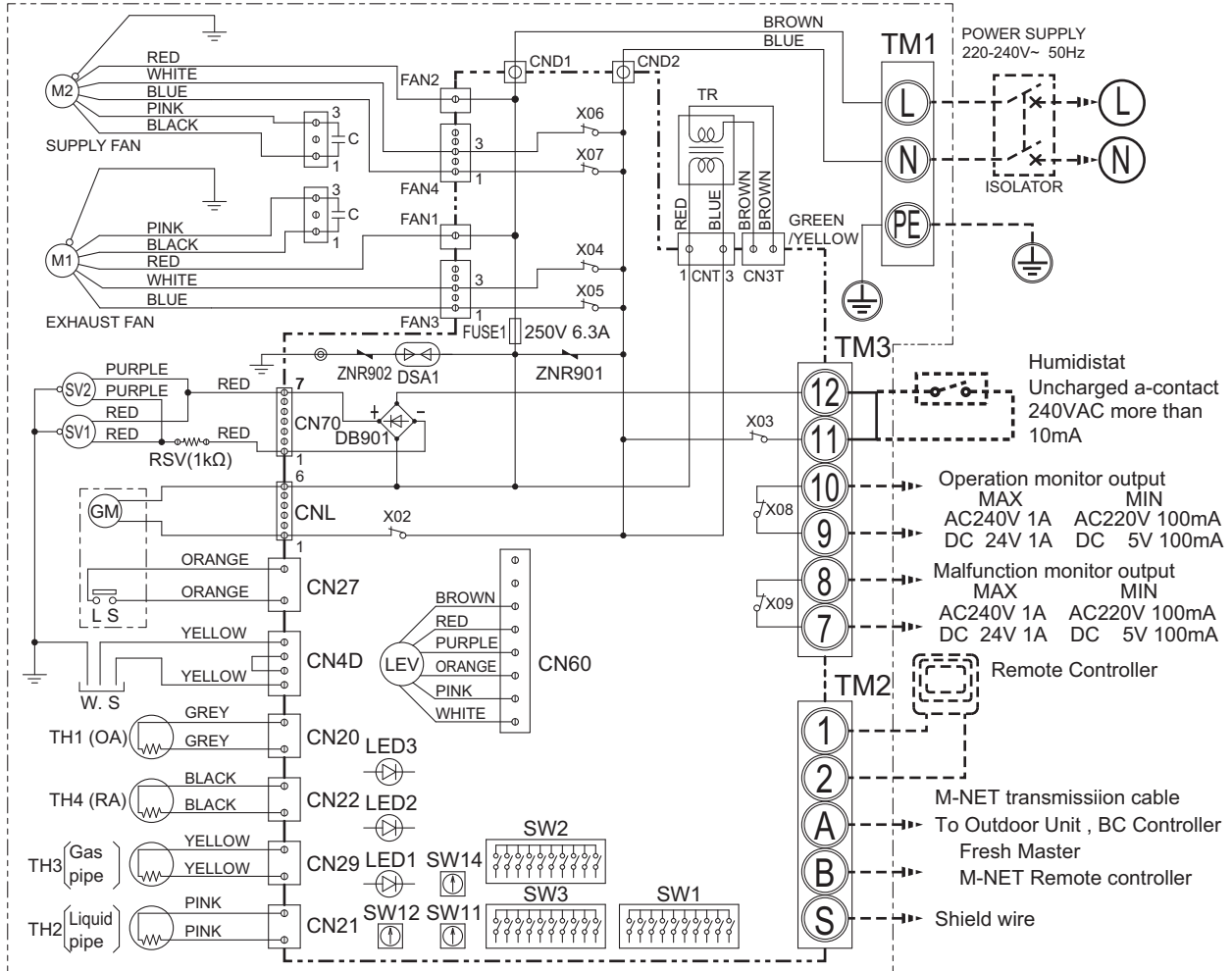
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Humidifying Type GUF-50/100RDH4

- TM1, TM2, TM3 shown in dotted lines are field work.
- Be sure to connect the grounding wire.
- Isolators should be supplied by the field.

Warning
Before obtaining access to terminals, all supply circuits must be disconnected.



MARK ○ indicates terminal block, ⊙ :connector
Ⓜ :board insertion connector or fastening connector of control board.

Symbol Explanation

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

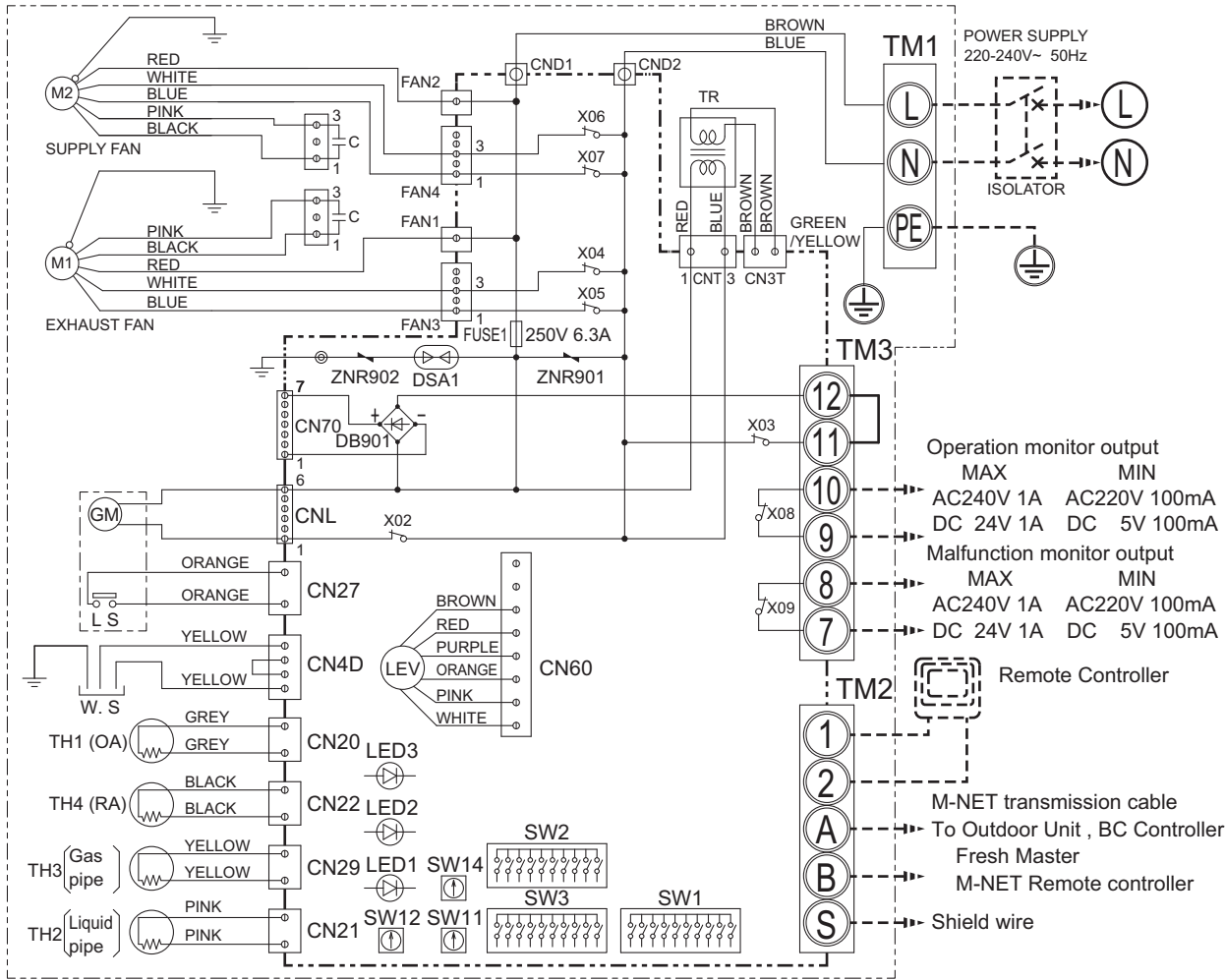
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TH3	Thermistor (pipe temp. detection/gas)	SW11	Switch (ones digit address set)	LED1	Power supply monitor
TH4	Thermistor (room air temp. detection)	SW12	Switch (tens digit address set)	LED2	MA remote controller
LEV	Electronic linear expansion valve	SW14	Switch (branch NO. set)	LED3	Power supply monitor
		1, 2	Remote controller terminal		M-NET Power supply monitor
		A, B	M-NET transmission terminal		

*Specifications may be subject to change without notice.