

LGH-F-RX3-E

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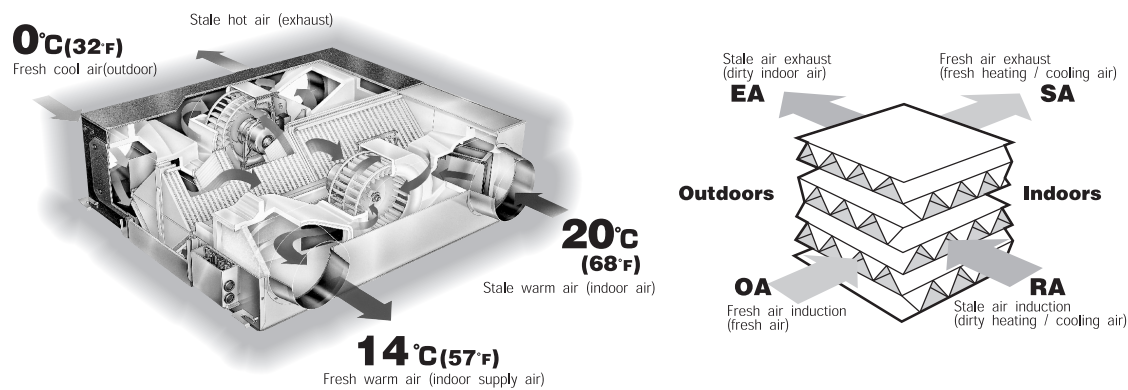
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LOSSNAY

LGH-F-RX3-E

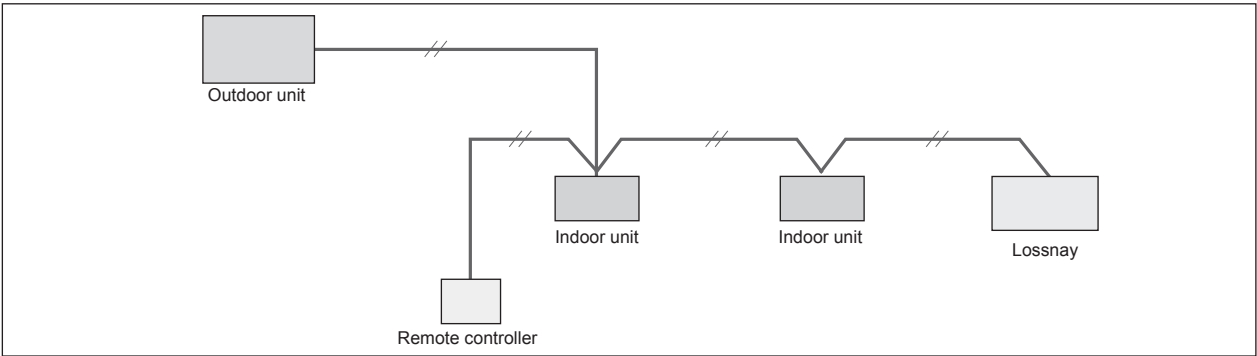
LOSSNAY is a perfect combination of heat recovery and ventilation, which is a leading edge product in the ventilation and air-conditioning field.

The LOSSNAY core is a special preserved paper made cross-flow and plate-fin structure, which is referable below.

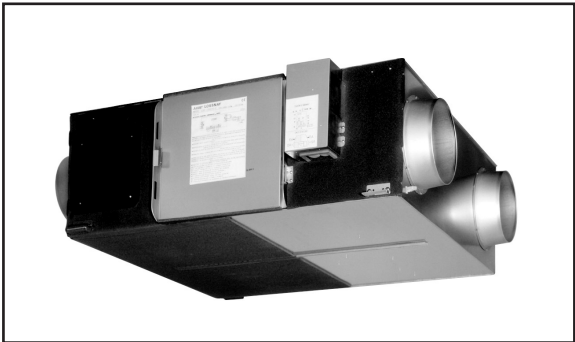


* LGH-F300RX3-E (High fan speed)

CITY MULTI can combine LOSSNAY into the air conditioning system, performing the best solution to ventilation and air-conditioning.

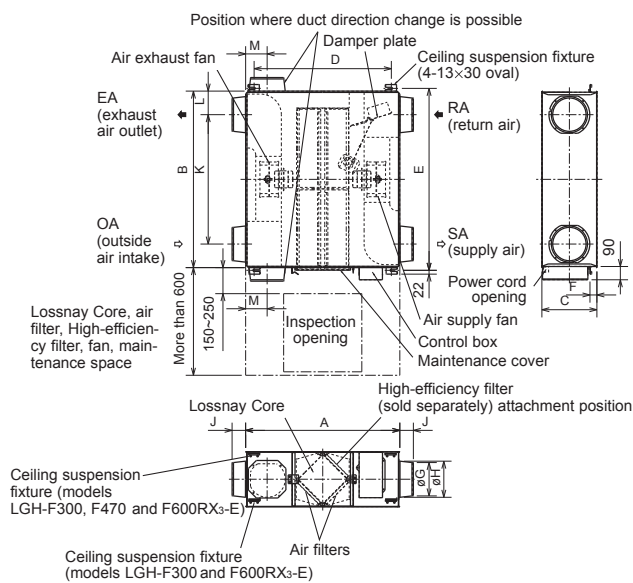


Line up of LOSSNAY units



LGH-F300RX3-E	300cfm	1-phase 208-230V, 60Hz
LGH-F470RX3-E	470cfm	1-phase 208-230V, 60Hz
LGH-F600RX3-E	600cfm	1-phase 208-230V, 60Hz
LGH-F1200RX3-E	1200cfm	1-phase 208-230V, 60Hz

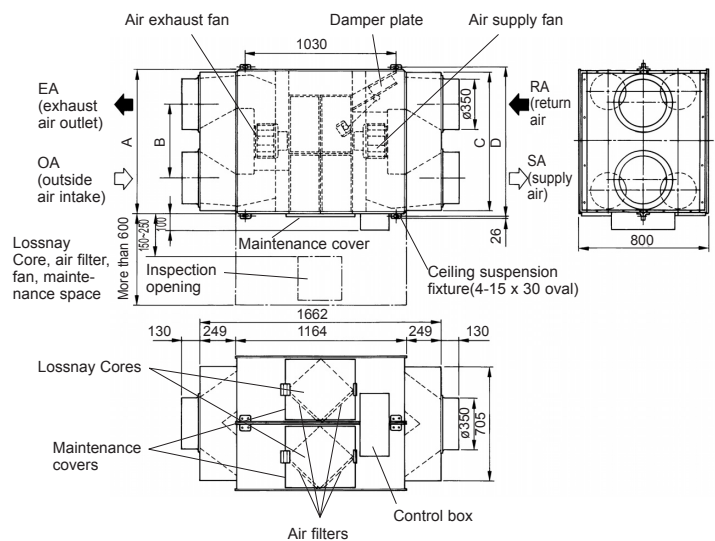
LGH-F300RX₃-E LGH-F470RX₃-E LGH-F600RX₃-E



Accessory parts

- Mounting screws.....×18
- Duct connecting flanges.....×4
(double flanges at SA and EA sides)
- Protective cover.....×1
<for installing upside down>
- Slim-Lossnay connection cable (gray: two wires)....×1

LGH-F1200RX₃-E



Accessory parts

- Duct connecting flanges.....×4
- Mounting screws.....×34
- Washers.....×32
- Protective cover.....×1
<for installing upside down>
- Slim-Lossnay connection cable (gray: two wires)....×1

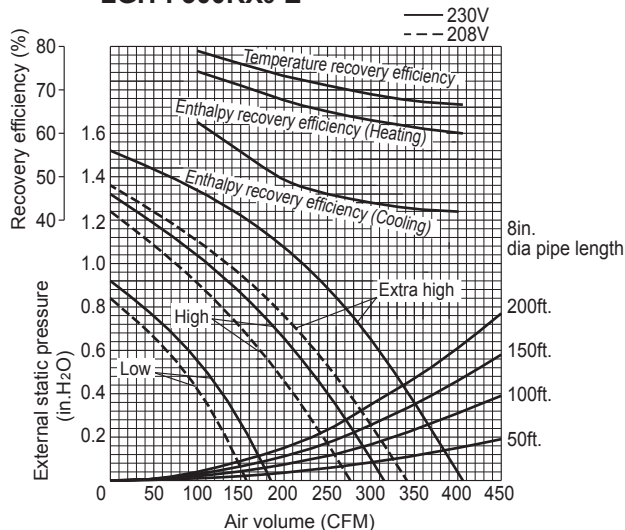
LGH-F300RX₃-E to LGH-F1200RX₃-E

Model	Dimensions			Ceiling suspension fixture pitch			Nominal diameter	Duct connecting flange			Duct pitch			Weight (lbs)
	A	B	C	D	E	F		G	H	J	K	L	M	
LGH-F300RX ₃ -E	34-15/16"	40"	12-1/2"	31-1/8"	41-1/4"	1-9/16"	ø 7-7/8"	7-9/16"	8-3/16"	3-1/8"	29-5/16"	5-5/16"	4-7/8"	73
LGH-F470RX ₃ -E	45-13/16"	39-1/2"	15-11/16"	40-9/16"	40-13/16"	3/8"	ø 9-7/8"	9-1/2"	10-3/16"	3-1/8"	27-3/16"	6-1/8"	5-7/8"	143
LGH-F600RX ₃ -E	45-13/16"	48-7/16"	15-11/16"	40-9/16"	49-3/4"	3/8"	ø 9-7/8"	9-1/2"	10-3/16"	3-1/8"	36-3/16"	6-1/8"	5-7/8"	159
LGH-F1200RX ₃ -E	48-7/16"	29-1/8"	47"	50-1/8"	-	-	ø 13-3/4"	-	-	-	-	-	-	395

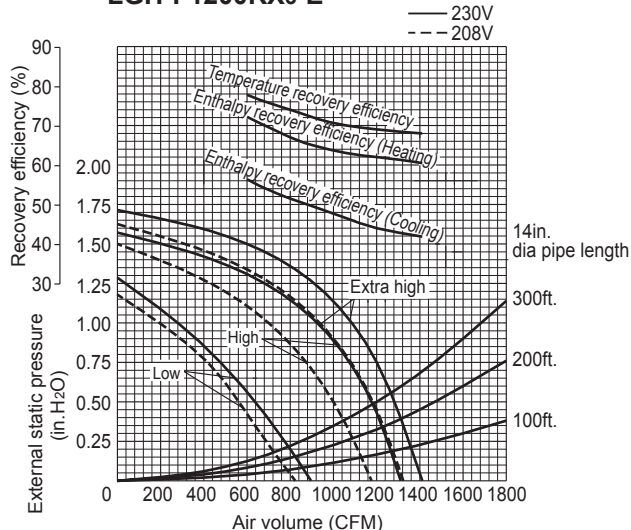
Unit (in)

Lossnay

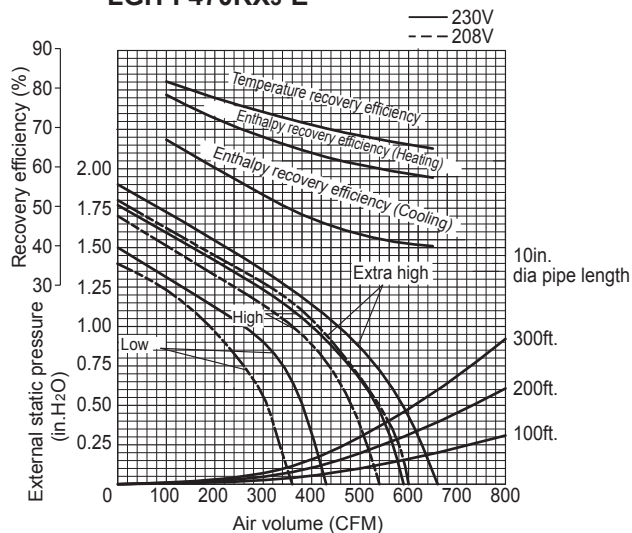
LGH-F300RX3-E



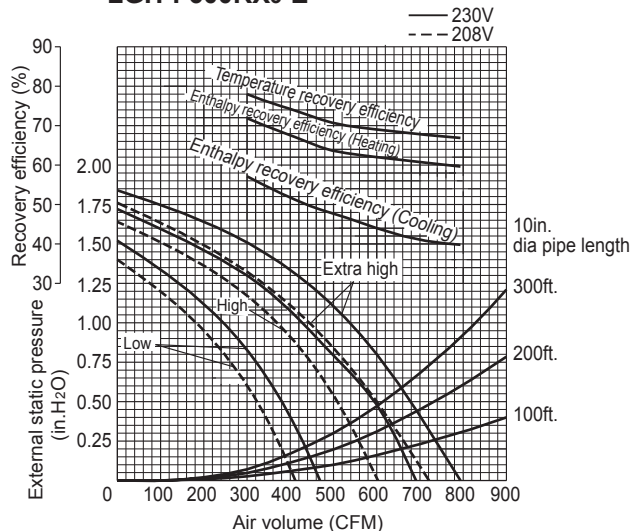
LGH-F1200RX3-E



LGH-F470RX3-E



LGH-F600RX3-E



LGH-F300RX3-E

Model	LGH-F300RX3-E					
Power source	Single phase 208-230V/60Hz					
Ventilation mode	Lossnay ventilation			Bypass ventilation		
Speed	Extra high	High	Low	Extra high	High	Low
Current (A)	1.23/1.3	1.0/1.1	0.56/0.6	1.28/1.4	1.02/1.1	0.57/0.6
Input (W)	253/278	207/266	116/146	254/280	207/262	116/146
Air volume	(CFM)	300/300	300/300	300/300	260/300	155/180
External static pressure	(in H ₂ O)	0.25/0.65	0.1/0.1	0.02/0.02	0.25/0.65	0.1/0.1
Temperature recovery efficiency (%)	69/69	70/69	77/76	—	—	—
Enthalpy recovery efficiency (%)	Heating	62/62	64/62	71/69	—	—
	Cooling	44/44	46/44	55/52	—	—
Sound pressure (Measured at 1.5m under level (dB) the center of the unit)	33/36	30/32	24/25	33/36	30/32	24/25
Weight (lbs)	73					
Starting current	Under (2.5A) or less					

LGH-F470RX3-E

Model	LGH-F470RX3-E					
Power source	Single phase 208-230V/60Hz					
Ventilation mode	Lossnay ventilation			Bypass ventilation		
Speed	Extra high	High	Low	Extra high	High	Low
Current (A)	2.5/2.5	2.4/2.4	1.6/1.7	2.5/2.5	2.3/2.3	1.6/1.7
Input (W)	515/560	485/525	325/375	505/545	473/510	326/370
Air volume	(CFM)	470/470	470/470	470/470	470/470	330/380
External static pressure	(in H ₂ O)	0.80/0.96	0.58/0.78	0.29/0.51	0.80/0.96	0.58/0.78
Temperature recovery efficiency (%)	69/69	69/69	73/72	—	—	—
Enthalpy recovery efficiency (%)	Heating	62/62	62/62	66/65	—	—
	Cooling	44/44	44/44	50/48	—	—
Sound pressure (Measured at 1.5m under level (dB) the center of the unit)	37/39	35.5/37	29.5/31.5	38.5/40.5	37/39	30.5/32.5
Weight (lbs)	143					
Starting current	Under (5.0A) or less					

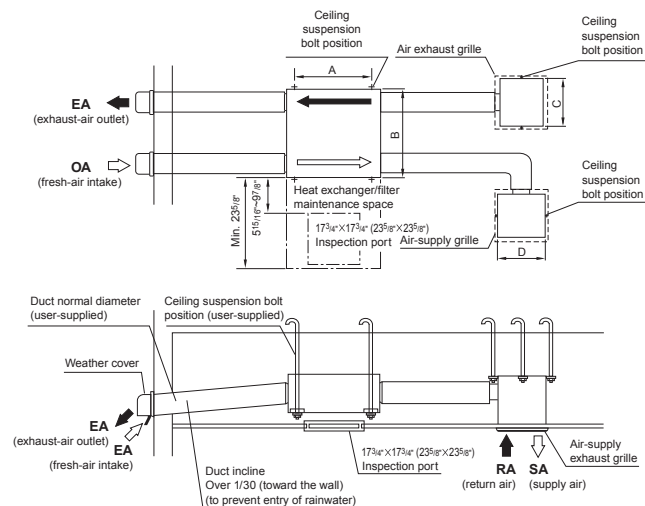
LGH-F600RX3-E

Model	LGH-F600RX3-E					
Power source	Single phase 208-230V/60Hz					
Ventilation mode	Lossnay ventilation			Bypass ventilation		
Speed	Extra high	High	Low	Extra high	High	Low
Current (A)	2.9/2.9	2.5/2.6	1.6/1.7	2.8/2.9	2.5/2.6	1.6/1.7
Input (W)	596/654	526/600	336/390	590/648	521/600	334/396
Air volume	(CFM)	600/600	520/600	370/430	600/600	520/600
External static pressure	(in H ₂ O)	0.60/0.80	0.48/0.48	0.24/0.24	0.60/0.80	0.48/0.48
Temperature recovery efficiency (%)	69/69	70/69	75/73	—	—	—
Enthalpy recovery efficiency (%)	Heating	62/62	63/62	69/66	—	—
	Cooling	44/44	47/44	53/50	—	—
Sound pressure (Measured at 1.5m under level (dB) the center of the unit)	37/39	35/37	28/30	38/40	36/39	29/31
Weight (lbs)	159					
Starting current	Under (5.0A) or less					

LGH-F1200RX3-E

Model	LGH-F1200RX3-E					
Power source	Single phase 208-230V/60Hz					
Ventilation mode	Lossnay ventilation			Bypass ventilation		
Speed	Extra high	High	Low	Extra high	High	Low
Current (A)	5.7/5.7	5.1/5.6	3.3/3.6	5.6/5.6	5.0/5.5	3.3/3.6
Input (W)	1200/1290	1058/1200	682/810	1173/1265	1040/1196	676/800
Air volume	(CFM)	1200/1200	1012/1200	695/800	1200/1200	695/800
External static pressure	(in H ₂ O)	0.43/0.75	0.43/0.43	0.20/0.20	0.43/0.75	0.43/0.43
Temperature recovery efficiency (%)	69/69	70/69	76/74	—	—	—
Enthalpy recovery efficiency (%)	Heating	62/62	63/62	69/67	—	—
	Cooling	44/44	47/44	53/51	—	—
Sound pressure (Measured at 1.5m under level (dB) the center of the unit)	39/41	37/39	30/32	40/42	38/40	31/33
Weight (lbs)	395					
Starting current	Under (9.5A) or less					

LGH-F300RX3-E, F470RX3-E and F600RX3-E



- An inspection port (17³/₄" × 17³/₄" (23⁵/₈" × 23⁵/₈")) must be installed on the filter and Lossnay Core removing side.
- Provide heat insulation to prevent moisture condensation along the two outside ducts (fresh-air intake and exhaust-air outlet).
- Ceiling installation hardware can be attached to the top of the unit. (models LGH-F300, F470 and F600RX3-E)
- Do not use vent caps or round hoods in places directly exposed to rain.

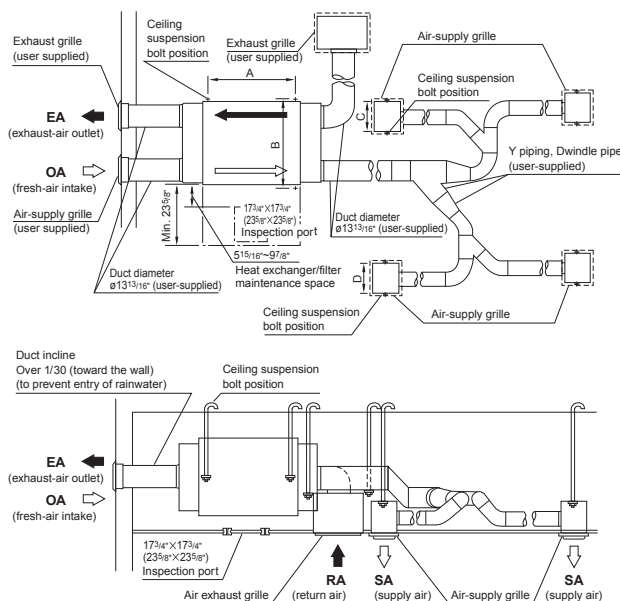
(Unit: in)

	A	B	C	D
LGH-F300RX3-E	31 1/8"	41 1/4"	16 5/16"	16 5/16"
LGH-F470RX3-E	40 9/16"	40 13/16"	16 5/16"	16 5/16"
LGH-F600RX3-E	40 9/16"	49 3/4"	16 5/16"	16 5/16"

Installation conditions:

- Main unit installation condition: Temperature 14°F(-10°C) to + 104°F(40°C), relative humidity less than 80%.
- Outdoor air condition: Temperature 5°F(-15°C) to + 104°F(40°C), relative humidity less than 80%. When condensation is expected to form, heat up the outside air using a duct heater, etc.

LGH-F1200RX3-E

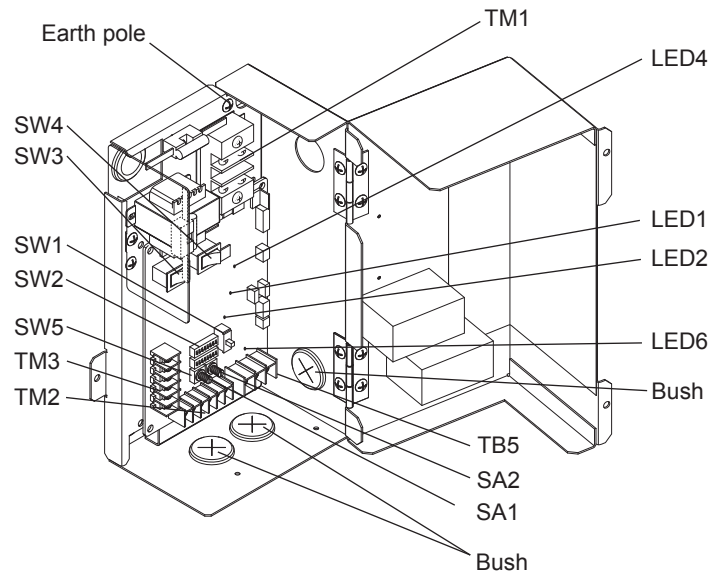


- An inspection port (17³/₄" × 17³/₄" (23⁵/₈" × 23⁵/₈")) must be installed on the filter and Lossnay Core removing side.
- Provide heat insulation to prevent moisture condensation along the two outside ducts (fresh-air intake and exhaust-air outlet).
- Where rain falls directly on the machinery, use the weather cover to prevent entry of rainwater.

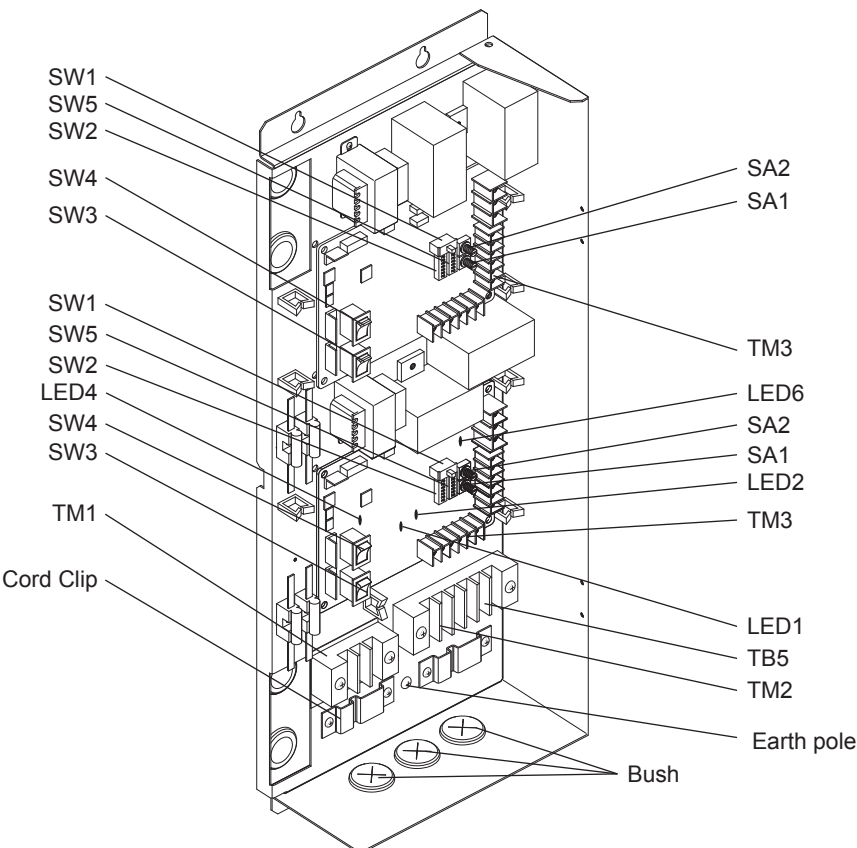
(Unit: in)

	A	B	C	D
LGH-F1200RX3-E	40 9/16"	50 1/8"	16 5/16"	16 5/16"

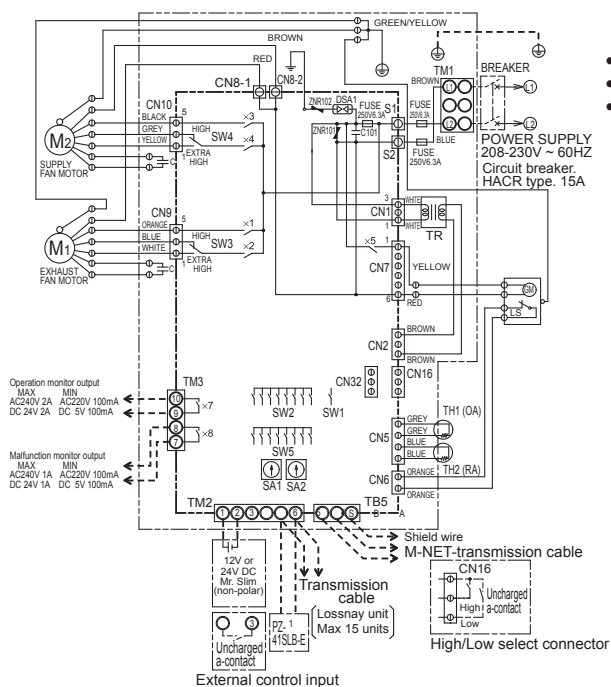
LGH-F300RX3-E ,F470RX3-E and F600RX3-E



LGH-F1200RX3-E



LGH-F300RX3-E, F470RX3-E and F600RX3-E

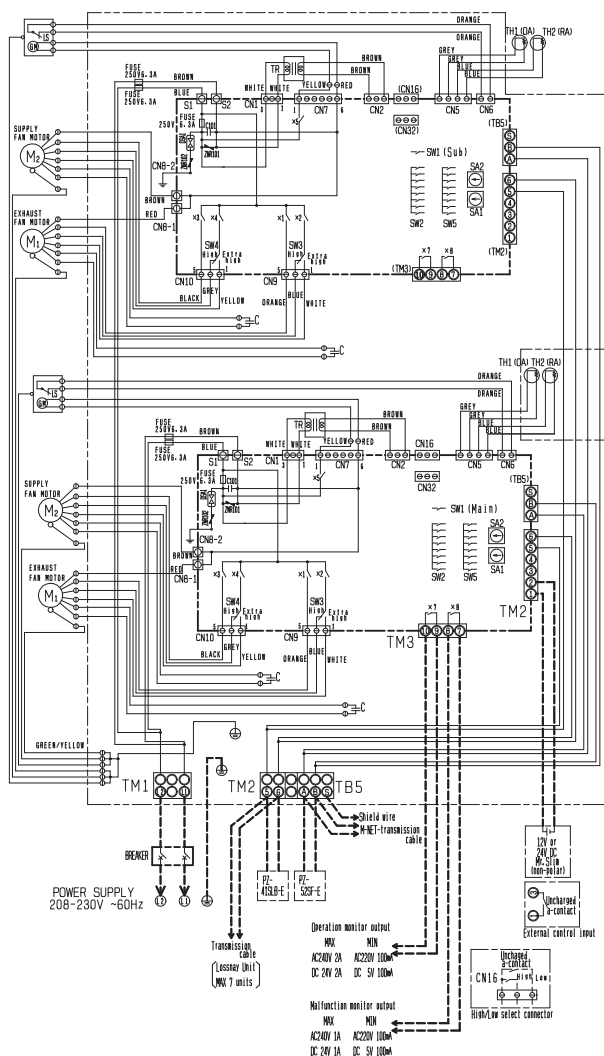


- Connect the wires shown as dotted lines.
- Be sure to connect the grounding wire.
- Breaker should be provided by the customer.

Symbol explanation

M1:	Motor for exhaust fan
M2:	Motor for supply fan
C:	Capacitor
GM:	Motor for Bypass movement
LS:	Microswitch
TH1:	Thermistor for outside air
TH2:	Thermistor for return air
SW1:	Switch (Main/Sub change)
SW2, 5:	Switch (Function selection)
SW3:	High/E. High select switch (Exhaust fan)
SW4:	High/E. High select switch (Supply fan)
TM1:	Terminal block (Power supply)
TM2:	Terminal block
	(Transmission cable and external control input)
TM3:	Terminal block (Monitor output)
TB5:	Terminal block (M-NET Transmission cable)
S1, S2:	Connector (Power supply)
TR:	Control circuit transformer
X7:	Relay contact (for operation monitor output)
X8:	Relay contact (for malfunction monitor output)
CN1:	Connector (Transformer primary)
CN2:	Connector (Transformer secondary)
CN5:	Connector (Thermistor)
CN6:	Connector (Microswitch)
CN7:	Connector (Motor for bypass operation)
CN8-1:	Tab connector (Fan motor)
CN8-2:	Tab connector (Fan motor)
CN9:	Connector (Fan motor)
CN10:	Connector (Fan motor)
CN16:	Connector (High/Low switch)
CN32:	Connector (Remote control selection)
SA1:	Address setting rotary switch (10 digit)
SA2:	Address setting rotary switch (1 digit)
LED1:	Inspection indicator lamp
LED2:	Inspection indicator lamp
LED4:	Power supply indicator lamp
LED6:	M-NET indicator lamp
MARK	⊙ : Indicates terminal block
	⊕ : Connector
	Ⓜ : Board insertion connector or fastening

LGH-F1200RX3-E



- PZ-41SLB-E and PZ-52SF-E cannot be used simultaneously.