

Models:

LGH-F300RX₃-E

LGH-F470RX3-E

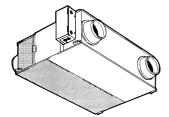
LGH-F600RX3-E

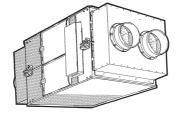
LGH-F1200RX3-E

Installation Instructions

(For use by dealer/contractor)

Models LGH-F300, F470, F600RX3-E Model LGH-F1200RX3-E





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Please take the time to read through these instructions before commencing with the installation work. They will help to install the Lossnay properly and safely.

The separate Operating Instructions are for the user. Make sure that they are handed over to the customer.

Safety precautions

WARNING



This product must not be disassembled under any circumstances. Only authorized repair technicians are qualified to conduct disassembly and repairs.
 (Failure to heed this warning may result in fire, electrical shock or injury.)



- Do not install this product in a refrigerated warehouse, heated swimming pool or other location where the temperature and humidity are significantly different.
 (Failure to heed this warning may result in electrical shock or malfunctioning.)
- Do not install this product where it will be directly exposed to rain, foggy area and briny air. Install Brine Resistant Filter inside outdoor duct against briny air. (Failure to heed this warning may result in electrical shock or malfunctioning.)
- Do not install this product in a location where acid, alkali or organic solvent vapors, paints or other toxic gases, gases containing corrosive components or high concentrations of oily smoke are present.
 (Failure to heed this warning may result not only in malfunctioning but also fire, power leakage and electrical
- shock.)
 Do not use this product outside the range of its rated voltage and control capacity.

Single phase, 208-230V 60Hz (Failure to heed this warning may result in fire or electrical shock.)



- Install this product in an environment where the temperature ranges from 14°F to 104°F and the relative humidity is less than 80%. If condensation is expected to form, heat up the fresh outside air using a duct heater,
- Install this product in an environment where the outside air intake meets the following conditions: temperature range is between 14°F and 104°F and the relative humidity is 80% or less.
- Using Pre-Heat Unit
 - Make sure to install Pre-heat unit where outdoor air temperature is below 14°F, or condensation is expected to form.

- Pre-heat unit must be installed from Lossnay unit as far as possible, because of fire prevention.
- Select and operate Pre-heat unit that Lossnay supply intake air temperature becomes between14°F to 104°F
- Pre-heat unit must be controlled to stop during Lossnay not operating. If no air flow in the pre-heat unit during its operation, it may heat up and fire may occur in the duct.
- Select a position for introducing the outside air where no exhaust or combustion gases will be sucked into the product and where it will not be covered by snow. (Failure to ensure a supply of fresh air can result in producing a state of oxygen deficiency inside the room.)
- Select an adequately sturdy position for installing the product and install it properly and securely. (Injury may result if the product should fall.)
- Use the designated electrical wires for the terminal board connections, and connect the wires securely so that they will not become disconnected.
- (Failure to ensure proper connections may result in fire.)
- When passing metal ducts through wooden buildings clad with metal laths, wire laths or metal, these ducts must be installed in such a way that they will not make electrical contact with the metal laths, wire laths or metal sheets. (Power leakage can cause ignition.)
- Deep hood must be installed for outside air intake and exhaust air outlet to prevent rain water from seeping in. (The entry of rain water may cause power leaks, fire or damage to household property.)
- Gloves should be worn when doing the installation work. (Failure to heed this warning may result in injury.)
- A dedicated circuit breaker must be installed at the origin of mains power supply. This circuit breaker must be provided with a means for locking (lock and key).



 Connect the product properly to ground. (Malfunctioning or power leaks can cause electrical shock.)

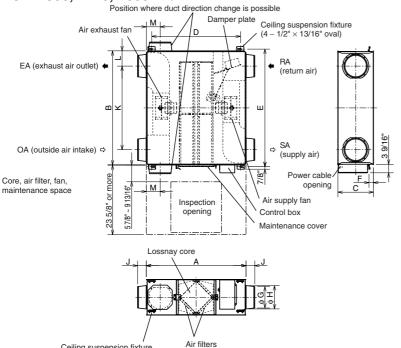


An isolator switch having a minimum contact gap of 1/8" in all poles must be provided as a means of disconnecting the power supply.

Outline drawings

LGH-F300, F470, F600RX3-E

Ceiling suspension fixture



Accessory parts

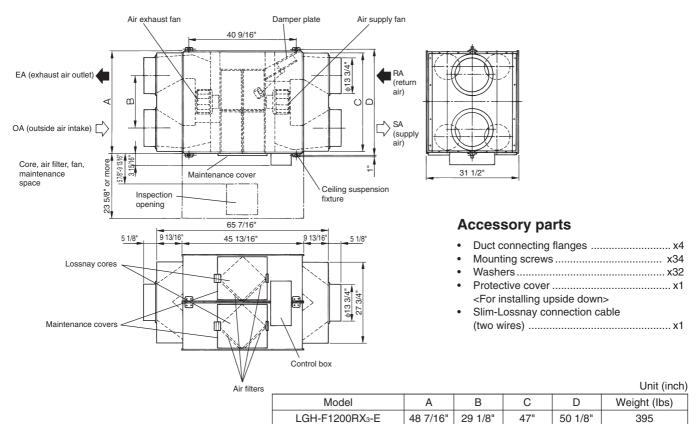
Mounting screwsx18 Duct connecting flangesx4 (double flanges at SA and EA sides) Protective coverx1 <For installing upside down> Slim-Lossnay connection cable (two wires)x1

Unit (inch)

Model	Dimensions		Ceiling suspension fixture pitch		Nominal	Duct co	onnecting	flange	Г	Duct pitch	ı	Weight		
iviodei	Α	В	С	D	Е	F	diameter	G	Н	J	K	L	М	(lbs)
LGH-F300RX₃-E	34 15/16"	40"	12 1/2"	31 1/8"	41 1/4"	1 9/16"	ф 7 7/8"	7 9/16"	8 3/16"	3 1/8"	29 5/16"	5 5/16"	4 7/8"	73
LGH-F470RX₃-E	45 13/16"	39 1/2"	15 11/16"	40 9/16"	40 13/16"	3/8"	ф 9 7/8"	9 1/2"	10 3/16"	3 1/8"	27 3/16"	6 3/16"	5 7/8"	143
LGH-F600RX₃-E	45 13/16"	48 7/16"	15 11/16"	40 9/16"	49 3/4"	3/8"	ф 9 7/8"	9 1/2"	10 3/16"	3 1/8"	36 3/16"	6 1/8"	5 7/8"	159

^{*} Shows the distance from the ceiling.

LGH-F1200RX3-E



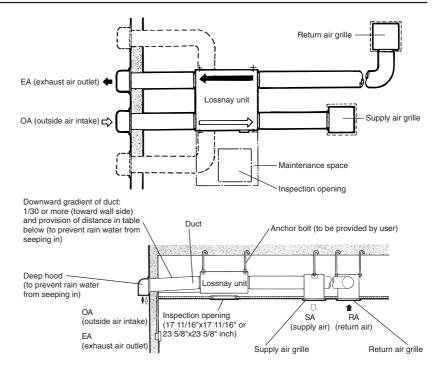
Standard installation examples

Duct length

Model	Distance
LGH-F300RX₃-E	40 inch or more
LGH-F470RX₃-E	100 inch or more
LGH-F600RX₃-E	100 inch or more
LGH-F1200RX₃-E	120 inch or more

The Lossnay unit can also be installed upside down.

Remove the maintenance cover, rotate the Maintenance cover by 180°, and re-install.

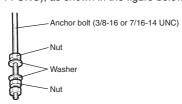


Installation method

Installing the Lossnay unit

1. Preparing the anchor bolts

Mount the washers (outer diameter of >7/8 inch for 3/8-16 UNC, >1 inch for 7/16-14 UNC) and nuts onto the pre-recessed anchor bolts (3/8-16 or 7/16-14 UNC), as shown in the figure below.

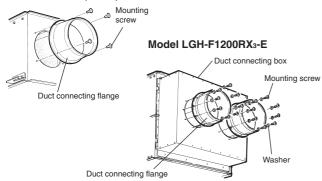


2. Attaching the duct connecting flanges

Use the screws supplied to secure the duct connecting flanges to the Lossnay unit.

For the model LGH-F1200RX₃-E, use screws and washers provided as well to secure the flanges.

Models LGH-F300, F470, F600RX3-E

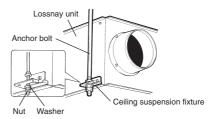


CAUTION

- Before attaching the duct connecting flanges, check that no foreign matter (scraps of paper, vinyl, etc.) has found its way inside to Lossnay unit.
- Attach the duct connecting flanges with the packing at the SA and RA sides.

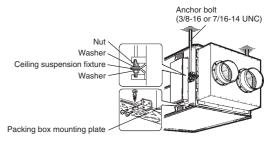
3. Mounting Lossnay unit

- (1) Hang the ceiling suspension fixtures on the anchor bolts and adjust in such a way that Lossnay unit is level.
- (2) Tighten up securely using double nuts.



For the model LGH-F1200RX₃-E

Remove the packing box mounting plate if it should interfere with the installation work. Make sure that the screws which were removed are screwed back in their original positions in order to prevent air leaks.



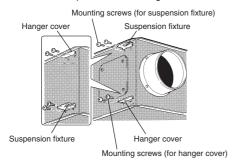
ACAUTION

 When suspending Lossnay unit from the ceiling, do not handle it in such a way that force will be applied to the control box.

If the suspension bolts are short, change the mounting hardware.

For the model LGH-F300RX₃-E

- (1) Remove the hanger cover that is in the upper mounting position.
- (2) Remove the suspension fixture and retainer fixture and mount at the upper mounting position.
- (3) Mount the hanger cover to the holes of the suspension fixture that has been removed to prevent air leakage.



Model LGH-F300RX₃-E

ACAUTION

 The screws for mounting the hanger cover and the suspension fixture are different. Take care not to use the wrong ones.

For the model LGH-F470, F600RX₃-E

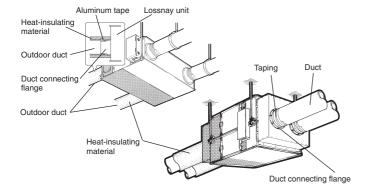
- (1) Remove the suspension fixture and mount it to the upper mounting position.
- (2) Replace screws in the holes for the suspension fixture that has been removed to prevent air leakage.



Model LGH-F470, F600RX₃-E

4. Connecting the ducts

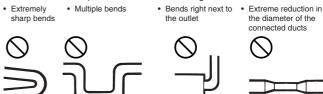
- (1) Fasten the duct securely to the duct connecting flange, and wrap aluminum tape (available commercially) around the joints so that there is no air leakage.
- (2) Suspend the ducts from the ceiling so that their weight will not be applied to the Lossnay unit.
- (3) The two outdoor ducts must be covered with heat-insulating material in order to prevent condensation from forming.



ACAUTION

- Before connecting the ducts, check that no debeis or any other foreign matter (scraps of paper, vinyl, etc.) has found its way inside the ducts
- Do not touch the damper plate inside Lossnay unit when connecting the ducts.

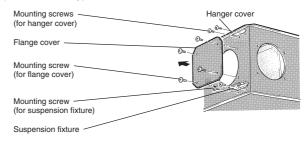
Do not carry out the following types of duct construction. (Doing so could cause a drop in the air volume and generate abnormal noises.)



5. When changing the direction of the out door side duct (EA/OA).....Except on LGH-F1200RX3-E

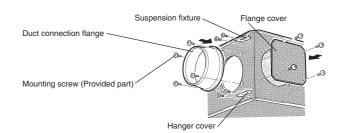
Remove the flange cover, hanger cover and suspension fixture.

- (1) Remove the four mounting screws for the flange cover and remove the flange cover.
- (2) On the LGH-F300, F470, F600RX₃-E, remove the two mounting screws for the hanger cover (F300RX₃-E only), suspension fixture and remove the hanger cover, suspension fixture and retainer (F300RX₃-E only).



Mounting the duct connection flange

- (1) Use the mounting screws provided to mount the duct connection flange to the main body.
- (2) Use the four mounting screws that were removed to attach the flange
- (3) On the LGH-F300, F470, F600RX₃-E, change the suspension fixture and retainer (F300RX₃-E only) to the top position and the hanger cover (F300RX₃-E only) to the lower position.



CAUTION

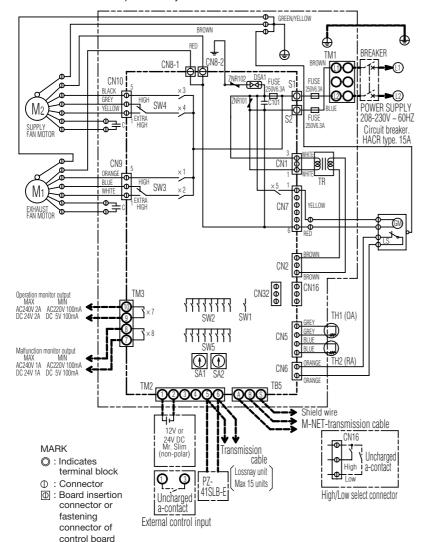
 The screws for mounting the hanger cover and the suspension fixture are different. Take care not to use the wrong ones.

Electrical installation

With this product, the wiring installation method will vary according to the design of the system. Perform electrical installation for each of the required sections.

Names of components in control box LGH-F300, F470, F600RX3-E LGH-F1200RX3-E Earth pole LED4 SW4 SW₁ SW5 SW3 LED1 SW2 SW4 LED2 SW1 SW3 SA1 SW₂ SW1 SW5 LED6 SW5 ТМЗ LED6 LED4 Bush If connecting an AC power cable to the SA2 TM3, remove this - I FD2 TB5 bush and use a PG ТМЗ SA2 connector to fix the power cable. SA1 Cord Clip LED1 Bush TB5

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



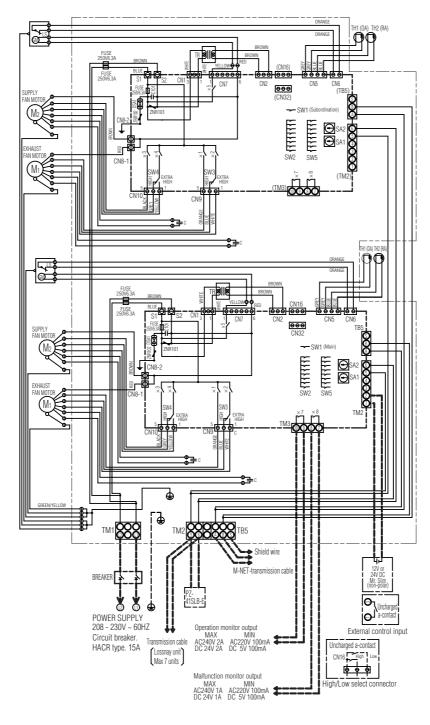
Wire connection diagram ---- Models LGH-F300, F470, F600RX3-E

M1: Motor for exhaust fan M2: Motor for supply fan C: Capacitor GM: Motor for Bypass movement LS: Microswitch TH: 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 (Supply fan) TM1: Terminal block (Power supply) TM2: Terminal block (Transmission cable and external control input) TM3: Terminal block (Monitor output) TB5: Terminal block (Monitor output) TB7: Connector (Power supply) TR: Control circuit transformer X7: Relay contact (For malfunction monitor output) TR: Connector (Microswitch) CN9: Connector (Motor for bypass operation) CN8-1: Tab connector (Fan motor) CN9: Connector (Fan motor) CN9: Connector (Fan motor) CN10: Connector (Fan motor) CN10: Connector (High/Low switch) CN32: Connector (Fan motor) CN16: Connector (Fan motor) CN16: Connector (Fan motor) CN16: Connector (Fan motor) CN16: Connector (Fan motor) CN8-2: Tab connector (Fan motor) CN9: Connector (Fan motor) CN16: Connector (Fan motor) CN16: Connector (Fan motor) CN8-2: Tab connector (Fan motor) CN9: Connector (Fan motor) CN9: Connector (Fan motor) CN16: Connector (Fan motor) CN16: Connector (Fan motor) CN8-2: Tab connector (Fan motor) CN9-2: Tab connector (Fan motor) CN9-2: Tab co		Symbol ex	xplanatio	n
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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) LED1: Inspection indicator lamp LED4: Power supply indicator lamp			CN10:	,
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) LED1: Inspection indicator lamp LED2: Low switch) CN32: Connector (Remote control selection) SA1: Address setting rotary switch (1 digit) LED1: Inspection indicator lamp LED2: Inspection indicator lamp LED4: Power supply indicator lamp		and external control		motor)
*1 (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) ED2: Inspection indicator lamp LED4: Power supply indicator lamp		input)	CN16:	Connector (High/
TB5: Terminal block (M-NET Transmission cable) S1,S2: Connector (Power supply) TR: Control circuit transformer X7: Relay contact (For operation monitor output) LED1: Inspection indicator lamp LED2: Power supply indicator lamp	TM3:	Terminal block		Low switch)
(M-NET Transmission cable) S1,S2: Connector (Power supply) TR: Control circuit transformer X7: Relay contact (For operation monitor output) LED1: Inspection indicator lamp LED2: Inspection indicator lamp LED4: Power supply indicator lamp		(Monitor output)	CN32:	
Transmission cable) S1,S2: Connector (Power supply) TR: Control circuit transformer X7: Relay contact (For operation monitor output) LED1: Inspection indicator lamp LED2: Inspection indicator lamp LED4: Power supply indicator lamp	TB5:			control selection)
S1,S2: Connector (Power supply) TR: Control circuit transformer X7: Relay contact (For operation monitor output) LED1: Inspection indicator lamp LED2: Inspection indicator lamp LED4: Power supply indicator lamp		,	SA1:	•
supply) TR: Control circuit transformer X7: Relay contact (For operation monitor output) LED1: Inspection indicator lamp LED2: Inspection indicator lamp LED4: Power supply indicator lamp		,		•
TR: Control circuit transformer X7: Relay contact (For operation monitor output) LED1: Inspection indicator lamp LED2: Inspection indicator lamp LED4: Power supply indicator lamp	S1,S2:	,	*1	, ,
transformer X7: Relay contact (For operation monitor output) LED1: Inspection indicator lamp LED2: Inspection indicator lamp LED4: Power supply indicator lamp			SA2:	•
X7: Relay contact (For operation monitor output) LED1: Inspection indicator lamp LED2: Inspection indicator lamp LED4: Power supply indicator lamp	IR:			•
operation monitor output) LED2: Inspection indicator lamp LED4: Power supply indicator lamp	V7.		LED4.	
output) LED2: Inspection indicator lamp LED4: Power supply indicator lamp	X/:	,	LEDI:	•
lamp LED4: Power supply indicator lamp			I EDa.	'
LED4: Power supply indicator lamp		ουιρυι)	LEDZ:	•
indicator lamp			I ED4.	'
1			LLD4.	
			LED6:	•

Earth pole

Wire connection diagram ----- Model LGH-F1200RX3-E

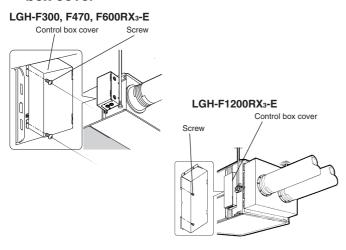
- * Connect the wires shown as dotted lines.
- * Be sure to connect the grounding wire.
- * Breaker should be provided by the customer.



			Symbol e	xplanatio	n		
M1: M2: C: GM: LS: TH1: TH2: SW1: SW2,5: SW3:	Motor for exhaust fan Motor for supply fan Capacitor Motor for Bypass movement Microswitch Thermistor for outside air Thermistor for return air Switch(Main/sub change) Switch (Function selection) High/E.High select switch (Exhaust fan) High/E.High select switch (Supply fan)	TM1: TM2: TM3: *1TB5: S1,S2: TR: X7:	Terminal block (Power supply) Terminal block (Transmission cable and external control input) Terminal block (Monitor output) Terminal block (M-NET Transmission cable) Connector (Power supply) Control circuit transformer Relay contact (For operation monitor output)	X8: CN1: CN2: CN5: CN6: CN7: CN8-1: CN8-2: CN9:	Relay contact (For malfunction monitor output) Connector (Transformer primary) Connector (Transformer secondary) Connector (Thermistor) Connector (Microswitch) Connector (Motor for bypass operation) Tab connector (Fan motor) Tab connector (Fan motor) Connector (Fan motor)	CN10: CN16: CN32: *1 SA1: *1 SA2: MARK	Connector (Fan motor) Connector (High/Low switch) Connector (Remote control selection) Address setting rotary switch (10 digit) Address setting rotary switch (1 digit) ③: Indicates terminal block ①: Connector ⑤: Board insertion connector or fastening connector of control board

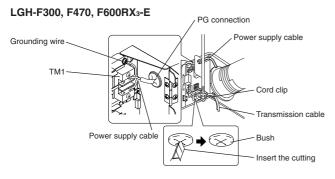
Connecting the power supply cable

1. Remove the screws and open the control box cover

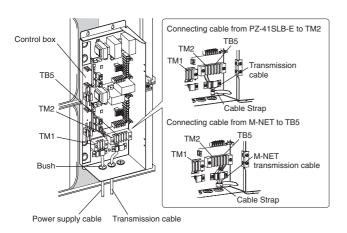


2. Connecting the power supply cable and transmission cable

Pass the power cable through the bush* and connect to the TM1 terminal block using the round terminals. Connect the grounding wire to the grounding terminal and secure tightening the bush. (*: for PG connection or the like)



LGH-F1200RX₃-E



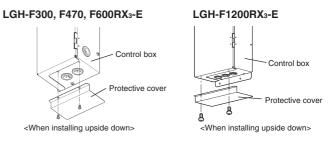
ACAUTION

- Always separate the power supply cable and transmission cable by 2 inch or more to prevent malfunctioning of the unit.
- If the length of the stripped power cables wires is too long, the conductors may touch and cause shorting.
- · Should cut off power supply during opening control box cover.

- (1) Refer to the wiring diagram and screw down the grounding wire and transmission cables to the terminal block.
- (2) Secure the power supply cable and transmission cables using the cord clamp and cable strap.

Upon completion of the wiring connections, replace the control box cover.

3. When installing upside down



ACAUTION

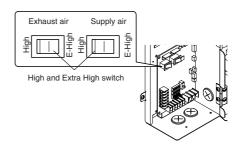
 If installing and using this product upside down, the power supply cable outlet will be at the top. Be sure to attach the protective cover so that no drops of water can get inside the control box.

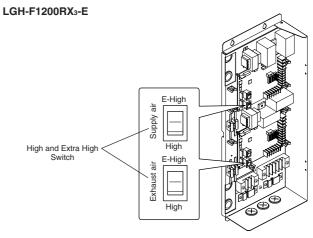
4. Changing the switch for High and Extra High

To increase the air volume, change the switch from "high" to "extra high".

- The factory setting is "High".
- Can be switched for each supply and exhaust separately.

LGH-F300, F470, F600RX₃-E





The following system configuration can be created. Connect the necessary parts.

- 1. When connecting with remote controller (PZ-41SLB-E).
- 2. When interlocking with air conditioner or other external device.
- 3. When interlocking with a pulse output device.
- 4. When operating multiple Lossnay units.
- 5. When connecting to CO₂ sensor when switching the high-low switch externally.
- When connecting to City Multi, Lossnay remote controller (PZ-52SF-E) or Mitsubishi Electric Air-Conditioner Network System (MELANS).

1. When connecting to remote controller (PZ-41SLB-E)

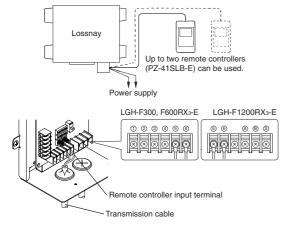
* The PZ-41SLB-E cannot be used when centralized control of the Lossnay is used. Then follow the procedure for connecting the wire shown in 6. and use the Lossnay remote controller (PZ-52SF-E).

Securely connect the transmission cable (PVC insulated PVC jacketed and either between ϕ 1/32" and ϕ 3/64", or between AWG22 and AWG17 in cross section) from the remote controller to 5 and 6 of the input terminal block (TM2). (No polarity)

 If there are two remote controllers, connect them in the same way.

Note

- Up to four AWG22 stranded wires or φ 3/64" PVC wires can be connected to one input terminal.
- · For other types of wire up to two can be connected.

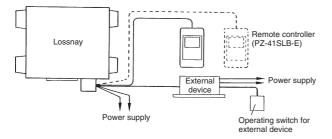


2. When interlocked with air conditioner or other external device

- (1) Connect the output signal cable from the external device to the input terminal block (TM2) of the external controller.
- LGH-F1200RX₃-E are conected to the lower circuit board. (Main circuit board)

ACAUTION

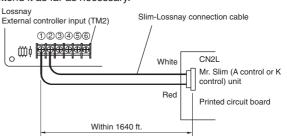
- The connection may vary according to the output signal type of the external unit.
 - (2) Confirm that the pulse input switch (SW2-2) is set to "OFF". (Set to "OFF" at time of shipment.)



When using Mitsubishi Mr. Slim air conditioner and (A control or K control) Interlock operation of except Mr. Slim (A control or K control) unit is not possible.

Connect the interlocking cable connector side to CN2L on the circuit board for the indoor Mr. Slim unit and connect the lead wire side to the ① and ② of the input terminal block (TM2) for the Lossnay external controller input. (No polarity)

- Always separate the power supply cable and the Slim-Lossnay connection cable for the Lossnay by 5 cm or more to prevent malfunctioning of the unit.
- The Slim-Lossnay connection cable is 0.25 m long. When wiring, extend it as far as necessary.



Note

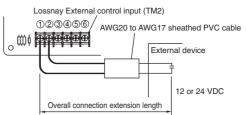
- The Lossnay remote controller (PZ-41SLB-E) cannot be used with this system.
- The ventilation mode is "automatic ventilation".
- The Slim-Lossnay connection cable may be extended to a maximum length of 1640 ft. (Extension cable specifications are as detailed below).

Ensure that all connections are secure and that the appropriate insulation is provided.

Extension cable sheathed PVC cable or cable-AWG20 to AWG17.

When the external device has a charged operating signal of 12V DC or 24 VDC

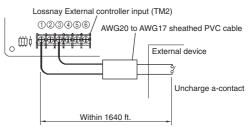
 Connect the operating signal (wire) from the external device via the remote output retrieval component (sold separately) to ① and ② on the external control input terminal block (TM2). (No polarity)



(Follow the operation manual for the external equipment.)

When the external device has an uncharged a-contact signal

 Connect the operating signal (wire) from the external device via the remote output retrieval component (sold separately) to ① and ③ on the external control input terminal block (TM2).



ACAUTION

 If an optocoupler or any other type of polar coupler is used at the uncharged a-contact, connect the positive side to ③ and the negative side to ①.

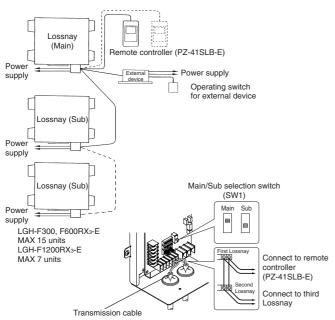
3. When interlocking with a pulse output device

- (1) Move the pulse input switch [SW2-2] to the ON position. On the LGH-F1200RX₃-E, set both the upper and lower circuit boards the same.
- (2) Connect the pulse output device (i.e., building management system) to the external control input terminal block [TM2]. The LGH-F1200RX₃-E connected to the lower circuit board. (Main circuit board)
 - · A pulse width of at least 200 msec will be needed.
- (3) Wiring is to be performed in the same way as for item 2 above.



4. When operating multiple Lossnay units

- (1) Connect from Lossnay Unit 1 to Lossnay Unit 2, and from Unit 2 to Unit 3 and so on up to a maximum of 15 units (7 units for types F1200) using a transmission cable (PVC insulated PVC jacketed and either between φ 1/32" and φ 3/64", or between AWG22 and AWG17 in cross section).
- (2) Change the setting on the main/sub switch (SW1) on the second and subsequent Lossnay units to "sub".



(The upper control circuit for LGH-F1200RX₃-E is normally set to "Sub".)

NOTE

- · For other types of wire up to two can be connected.
- The operation signal and pulse signal can be connected to the external device of the main Lossnay only.
- · Connect the power to each respective Lossnay unit.

5. When switching high/low speed externally (when CO₂ sensor or other device is connected)

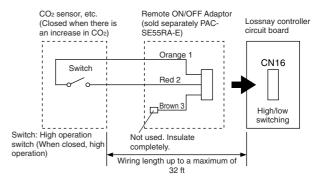
If a commercially available CO₂ sensor or other such device is used as shown in the drawing, connect by inserting Remote ON/OFF Adaptor (PAC-SE55RA-E) (sold separately) to the CN16 connector (for switching between high/low).

- The LGH-F1200RX₃-E is connected to the lower circuit board. (Main circuit board)
- * Note that if the remote controller is connected to a CO₂ sensor, the actual high and low fan speeds may not match on the remote controller.

■ To force high speed externally

When external switch is "on" fan speed of the Lossnay will be set to "high".

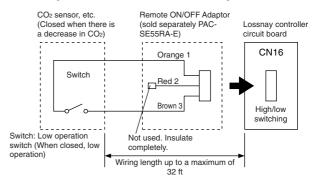
Regardless of the remote control setting.



■ To force low speed externally

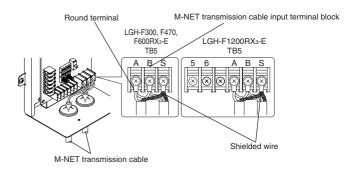
When external switch is "on" fan speed of the Lossnay will be set to "low".

Regardless of the remote control setting



6. When connecting to the City Multi or Mitsubishi Electric Air-Conditioner Network System (MELANS)

* If centralized control is performed according the wire connection shown in this section, the remote controller (PZ-41SLB-E) cannot be used.



One shieled wire is connected to the other shieled wire.
(Terminal connection)

Address setting is required. (Refer to function setting section.)

M-NET transmission cable: Connect any of the following -- City

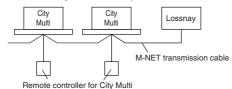
Multi indoor unit or Mitsubishi Electric

Air-Conditioner Network System

(MELANS) - to the Lossnay.

Type: (Shielded wire, CVVS/CPEVS) Wire diameter: AWG16 to AWG14

When interlocking with the City Multi



* Keep the overall length of the transmission cable within 19685 inch. Note that the wiring length between the Lossnay and power supply unit (sold separately) or outdoor unit should be 7874 inch or less.

Function settings

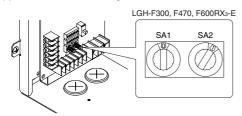
You must set the address when connecting to the City Multi and MELANS.

Setting the address

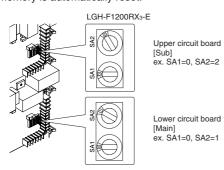
Use the following procedure when performing the address setting for dedicated Lossnay.

(The method to be employed in the determination of addresses will be dependent on the existing system. Refer to the appropriate technical documents for details.)

- (1) Remove the control box cover.
- (2) Use a straight-blade screwdriver to turn the address setting switch on the circuit board.
- SA1 indicates the 10 digit and SA2 indicates the 1 digit.
- The factory setting is "00"
- On the LGH-F1200RX₃-E, each upper and lower circuit board has an address. The lower circuit board takes the smaller number and the upper board takes the larger number.



* When the address number has been changed, the data in the memory is automatically reset.



Switching function selection switches (SW-2 and 5)

Perform the necessary function settings using the function selection switches (SW-2 and 5).

- The setting can be changed at any time.
- On the LGH-F1200RX₃-E, set both the upper and lower circuit boards the same.

1. Settings for pulse input

Set as shown when connecting the pulse signal equipment from a building maintenance system to an external input.

	OFF	ON	Mode
SW2	2		No pulse input (factory setting)
	2		Pulse input

2. Setting for selection of fan speed method

Set when operation is fixed at high speed or low speed operation. There are three modes that can be set.

	OFF ON	Mode	Operation
	5	Normal (Factory setting)	Switches high/low by operation of the fan speed from remote control.
SW2	5	Fixed at high mode	Normally operated at high speed.
	4 5	Fixed at low mode	Normally operated at low speed.

Power supply start/stop function (cannot be set when PZ-41SLB-E is used)

Set can be switch when operation and stopping is performed by turning the power supply (208-230 V) for the Lossnay on and off.

	OFF	ON	Mode	Operation		
SW2	6		Off (factory setting)	Stopping and operation is performed according to settings of SW5-4 when the power is on.		
	6		On	Operation possible by turning power on and off.		

Function settings (continued)

4. Settings for delay (of operation at start-up of heating or cooling)

This is the mode for delaying the operation of the Lossnay for 30 minutes when the City Multi or Mr. Slim is started and when a external device is started. (If the PZ-41SLB-E is used, set it at the remote control.)

	OFF	ON	Mode
SW5	1		No operation delay (factory setting)
OWS	1		Operation delay of 30 minutes * This function is invalid with in 2 hours' restart

5. Supply air fan monitor

	OFF	ON	Mode
	2		Corresponds to operation mode output (TM3 ⑨ ⑩) exhaust fan (factory setting)
SW5	2		Corresponds to operation mode output (TM3 (9) (10) supply fan (The operation monitor output is off when the supply fan is stopped for operation in cold regions or during the City Multi or Mr. Slim defrosting.)

6. Stopping exhaust fan when defrosting air conditioner

Sets the operation of the exhaust fan (when the air supply fan is stopped) during defrosting of the air conditioner when Mr. Slim or City Multi indoor unit is connected to a duct.

	OFF	ON	Operation
SW5	3		Exhaust fan operation (factory setting)
	3		Exhaust fan stopped

7. Settings for automatic recovery following power supply interruption (cannot be set when PZ-41SLB-E is used)

Sets for automatic recovery following power supply interruption.

	OFF	ON	Mode	Operation
SW5	4		No automatic recovery (factory setting)	Stop after recovery
	4		Automatic recovery	Recover to operate in mode used before power outage

8. Settings for filter cleaning

Set the time for filter cleaning based on the estimated concentration of dust in the air. The factory setting is unlimited. (If the PZ-41SLB-E is used, set it at the remote control.)

The four combinations of settings shown in the drawing to the bottom are available settings for filter cleaning.

	OFF ON		Maintenance time
SW5	5 6		3000 hours
	5 6		1500 hours
	5 6		4500 hours
	5 6		Unlimited (No "FILTER" display on remote controller) (factory setting)

ACAUTION

 When the setting for the cumulative operation time of the Lossnay is exceeded, the filter cleaning display will appear on the air conditioner remote controller or the remote controller for the Lossnay. After cleaning the filter, the filter cleaning display can be reset by following the procedure for canceling the cumulative operation time as shown in the manual.

9. Settings for interlock mode

These settings will indicate how the Lossnay should operate when external devices are started or stopped. (If the PZ-41SLB-E is used, set it at the remote control.)

	oot it at the femote controlly						
	OFF ON	Mode	Operation				
	7 8	On/Off interlock (Factory setting)	The Lossnay will start and stop in accordance with starting and stopping of the eternal devices. Subsequent operation will be possible using the remote controller for the Lossnay or MELANS.				
SW5	7 8	On interlock	The Lossnay will operate whenever the external devices are operated. Stopping of the Lossnay will be possible using its remote controller or MELANS.				
SWS	7 8	Off operation	The Lossnay will stop whenever the external devices are stopped. Starting of the Lossnay will be possible using its remote controller or MELANS.				
	7 8	External input given priority	The Lossnay will start and stop in accordance with starting and stopping of the external devices. Control using the remote controller for the Lossnay or MELANS will only be possible when the external devices are stopped.				

Trial operation

After the overall system has been installed, before the ceiling panel is installed, make sure that no wires are wrongly connected, then carry out trial operation, referring to the user's manual for the remote controller.

1. Trial operation with the remote controllers (PZ-41SLB-E)

Follow the procedure shown in the operator's manual for the remote controller for confirming the following items.

- (1) Starting operation.
- (2) Fan speed selection.
- (3) Function selection.
- (4) Stopping operation.

2. Lossnay independent trial operation

- (1) Remove the control box cover.
- (2) Turn the trial operation switch (SW2-1and SW2-3) "On."
 - Operation will start with the "High" setting and with Bypass ventilation operating. (This will take approximately 45 seconds after the power is turned on.)
 - On the LGH-F1200RX₃-E, set both the upper and lower circuit boards the same.
- (3) Turn the trial operation switch (SW2-1and SW2-3) "Off."
- (4) Install the cover in its original position on the control box.

	OFF	ON	Operation
SW2	1		Power will be supplied to the motor for the Lossnay fan and operation will be performed at the "High" setting.
5002	3		Power will be supplied to the motor for the Lossnay by- pass and operation of the damper plate will be performed.

Trial operation (continued)

3. Trial operation within the complete system

■ Interlock system containing an air conditioner and/or external device

- Use the remote controller for the air conditioner or the operating switches for the external device and confirm that the air conditioner and Lossnay are interlocked.
- If delay time has been set, check that the Lossnay operates after the delay time has passed.

■ If MELANS System

Use MELANS to confirm the operation of the Lossnay.

4. If trouble occurs during trial operation

transmission cables is 9 to 15 VDC for the PZ-41SLB-E.) • Check that the there is 2 inch or more separating the transmission cable from the power supply cable at transmission cables. • Run the Lossnay independently using the trial operation switch (SW2-1) and check if it runs. Lossnay runs — Check the signal lines Lossnay doesn't run — Check the power supply • Check if there are three or more remote controller connected (PZ-41SLB-E). (The maximum is two.) Does not operate even when the operation switch for MELANS is pressed. Air conditioner or external device does not interlock. • Check whether or not there is a power supply unit and that the power has been turned on. (On system Lossnay, a power supply unit is required.) • Check if the pulse input switch (SW2-2) is off. • Check the overall length between the air conditioner or external device and Lossnay. (Refer to technical other such documents.) • Check the connections at the external control input terminals block (TM2). In the case of voltage charged 12 or 24 VDC output device: Connect to external control input terminals in the case of uncharged a-contact output device: Connect to external control input terminals in the case of woltage charged 12 or 24 VDC output device: Connect to external control input terminals in the case of woltage charged 12 or 24 VDC output device: Connect to external control input terminals in the case of woltage charged 12 or 24 VDC output device: Connect to external control input terminals in the case of woltage charged 12 or 24 VDC output device: Connect to external control input terminals in the case of woltage charged 12 or 24 VDC output device: Connect to external control input terminals in the case of woltage charged 12 or 24 VDC output device: Connect to external control input terminals in the case of woltage charged 12 or 24 VDC output device: Connect to external control input terminals in the case of woltage charged 12 or 24 VDC output device: Connect to external control input terminals in the case of woltage cha								
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0. 170	Check the overall length of the transmission cable between the external device and Lossnay. (Refer to technical publications or other such documents.)							
Check if the transmission cable from the external device has come off of the external control input term								
	signal							
Charged 12 or 24 VDC output device 12 or 24 VDC 0 VDC								
Uncharged a-contact output device Resistance: 0 Ω Unlimited resistance	stance Ω							
Mr. Slim (A control or K control) 2 to 6 VDC 2 to 6 VDC								
	 Check, in the case of multiple units, whether the Main/Sub selection switch on the Lossnay unit which is connected to the external control input terminal is set on the Master setting, and check whether the Main/Sub selection switch on other Lossnay units are set to Sub. 							
Lossnay does not stop. • Check that the trial operation switch (SW2-1) is set to off.								
The inspection indicator lamp (LED 1 Green) in the control box flashes. 2 flashes Failure of Lossnay circuit Turn off the power and immediately								
3 flashes Failure of damper motor system dealer.	y contact your							
4 flashes Failure of Lossnay (OA side) motor system	y contact your							
5 flashes Failure of Lossnay (RA side) motor system	y contact your							
On In delay period If there is no remote controller (PZ-lamp will go out after 30 minutes (o has passed.	y contact your							
The inspection indicator lamp (LED 2 Red) in the control box flashes. 1 to 8 flashes Error in M-NET communication Turn off the power and immediately dealer.	-41SLB-E), the							
On Registration operation has not been performed. Use the controller to perform the re	-41SLB-E), the of operation)							

- When an inspection number blinks on the remote controller, follow the procedures shown in the installation and operating manuals provided with the switch.
- If the remote controller is not used, operate approximately 45 seconds after turning on the power for the Lossnay.

