



LG

Life's Good

INSTALLATION MANUAL

AIR CONDITIONER

- Please read this installation manual completely before installing the product.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.
- Please retain this installation manual for future reference after reading it thoroughly.

TYPE : Independent Power Kit (for Multi V Product)
MODEL : PRIPO



P/NO : MFL65920002

www.lg.com

IMPORTANT!

Please read this instruction sheet completely before installing the product.

This air conditioning system meets strict safety and operating standards. As the installer or service person, it is an important part of your job to install or service the system so it operates safely and efficiently.



WARNING

- The information contained in the manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.
- Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

CAUTION: Improper installation, adjustment, alteration, service or maintenance can void the warranty. The weight of the condensing unit requires caution and proper handling procedures when lifting or moving to avoid personal injury. Use care to avoid contact with sharp or pointed edges.

Safety Precautions

- Always wear safety eye wear and work gloves when installing equipment.
- Never assume electrical power is disconnected. Check with meter and equipment.
- Keep hands out of fan areas when power is connected to equipment.
- R-410A causes frostbite burns.
- R-410A is toxic when burned.

NOTE TO INSTALLING DEALER: The Owners Instructions and Warranty are to be given to the owner or prominently displayed near the indoor Furnace/Air Handler Unit.



WARNING

When wiring:

Electrical shock can cause severe personal injury or death. Only a qualified, experienced electrician should attempt to wire this system.

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked.
- Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate grounding can cause accidental injury or death.
- Ground the unit following local electrical codes.
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard.

When transporting:

Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your finger.

When installing...

... **in a wall:** Make sure the wall is strong enough to hold the unit's weight.

It may be necessary to construct a strong wood or metal frame to provide added support.

... **in a room:** Properly insulate any tubing run inside a room to prevent "sweating" that can cause dripping and water damage to wall and floors.

... **in moist or uneven locations:** Use a raised concrete pad or concrete blocks provide a solid, level foundation for the outdoor unit. This prevents water damage and abnormal vibration.

... **in an area with high winds:** Securely anchor the outdoor unit down with bolts and a metal frame. Provide a suitable air baffle.

... **in a snowy area(for Heat Pump Model):** Install the outdoor unit on a raised platform that is higher than drifting snow. Provide snow vents.

When connecting refrigerant tubing

- Keep all tubing runs as short as possible.
- Use the flare method for connecting tubing.
- Check carefully for leaks before starting the test run.

When servicing

- Turn the power OFF at the main power box(mains) before opening the unit to check or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the site after you finish, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.

TABLE OF CONTENTS

| | |
|-----------------------------|----|
| 1. Safety Precautions | 4 |
| 2. Included Items..... | 5 |
| 3. Applied model | 6 |
| 4. Piping Installation..... | 7 |
| 5. Assembly Diagram | 8 |
| 6. Electrical Wiring..... | 15 |

1. Safety Precautions

To prevent injury to the user or other people and property damage, the following instructions must be followed.

■ Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

⚠ WARNING This symbol indicates the possibility of death or serious injury.

⚠ CAUTION This symbol indicates the possibility of injury or damage.

■ Meanings of symbols used in this manual are as shown below.

| | |
|---|---|
|  | Be sure not to do. |
|  | Be sure to follow the instruction. |

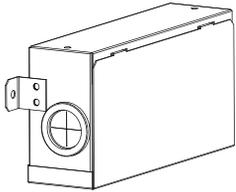
⚠ WARNING

1. Electric works should be carried out according to 'The technology requirement on the electric installation', The wiring standard and this manual by a qualified personnel.
2. If the installation is not complete or the capacity of the power circuit is insufficient, electric shock or fire may occur, or death or injury can be caused.
3. If the installation was done by a user, there may be incompleteness, which may cause electric shock, fire, injury and death.
4. When operating the machine (applying power to the machine), do not carry out any electric work and do not put hand or finger into it. This may cause electric shock, injury and death.

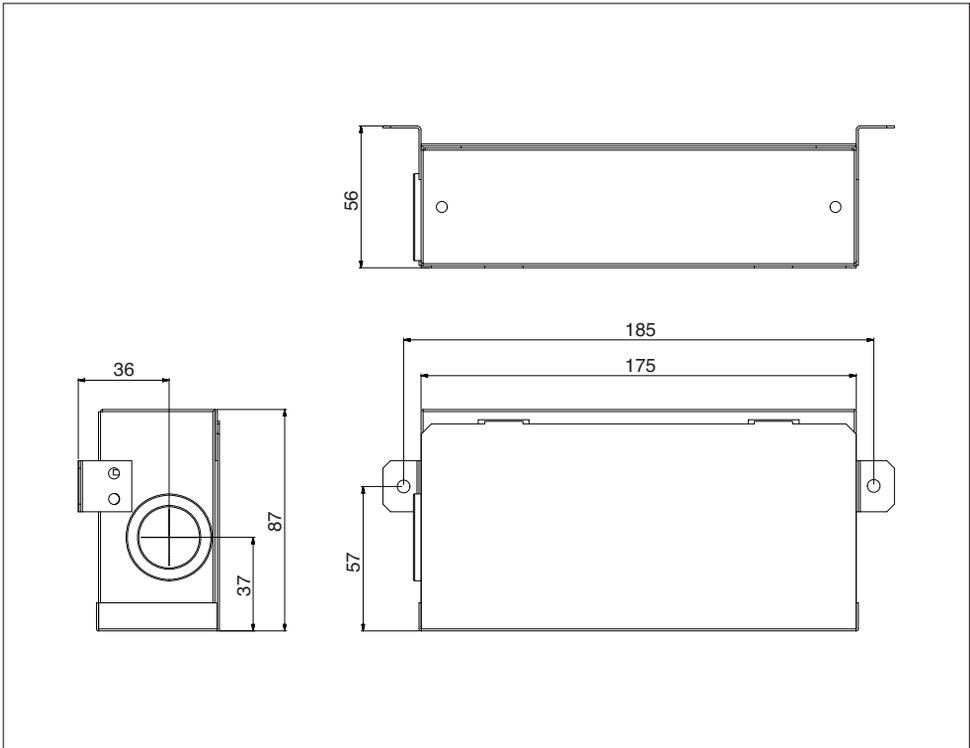
⚠ CAUTION

1. Before installation, read this manual and carry out the works according to it.
2. Before installation, be sure to check all the included items. (However, be sure to use all kinds of certified products when purchasing the items other than those provided by LG at your local store.)

2. Included Items

| Model | PRIPO | | | |
|--------|---|--|---|---|
| Item | Independent Power Kit | Screw | Clamp (Tie Wrap) | (Other) |
| Q'ty | 1 | 2 | 4 | |
| Figure |  |  M4 x 10 |  | <ul style="list-style-type: none"> • Harness 1(1m) • Harness 2(1m) • Harness 3(1m) • Installation manual • Insulation (PE) |

(Unit : mm)



3. Applied model

Ceiling Cassette- 1Way

ARNU07GTU*2
ARNU09GTU*2
ARNU12GTU*2



ARNU18GTT*2
ARNU24GTT*2

* A:Basic, C:Plasma

Ceiling Concealed Duct - High Static

ARNU07GBHA2 ARNU36GBGA2
ARNU09GBHA2 ARNU42GBGA2
ARNU12GBHA2 ARNU48GBRA2
ARNU15GBHA2 URNU76GB8A2
ARNU18GBHA2 URNU96GB8A2
ARNU24GBHA2
ARNU28GBGA2



Ceiling Cassette- 4Way

ARNU05GTR*2 ARNU24GTP*2
ARNU07GTR*2 ARNU28GTP*2
ARNU09GTR*2 ARNU36GTM*2
ARNU12GTR*2 ARNU42GTM*2
ARNU15GTQ*2 ARNU48GTM*2
ARNU18GTQ*2



* A:Basic, C:Plasma

Wall Mounted

ARNU07GSE*2 ARNU15GSE*2
ARNU09GSE*2 ARNU18GS5*2
ARNU12GSE*2 ARNU24GS5*2



* A:Basic, L:Plasma

ART COOL Gallery

ARNU07GSF*2
ARNU09GSF*2
ARNU12GSF*2



* E:Red V:Silver
G:Gold 1: Kiss (Photo changeable)

Ceiling Concealed Duct - Low Static

ARNU07GB1G2 ARNU15GB1G2
ARNU09GB1G2 ARNU18GB2G2
ARNU12GB1G2 ARNU24GB2G2



Ceiling Concealed Duct – Built-in

ARNU07GB3G2 ARNU15GB3G2
ARNU09GB3G2 ARNU18GB4G2
ARNU12GB3G2 ARNU24GB4G2



Floor Standing With case

ARNU07GCEA2 ARNU15GCEA2
ARNU09GCEA2 ARNU18GCF2
ARNU12GCEA2 ARNU24GCF2



Without case

ARNU07GCEU2 ARNU15GCEU2
ARNU09GCEU2 ARNU18GCFU2
ARNU12GCEU2 ARNU24GCFU2



ART COOL Mirror

ARNU07GSE*2 ARNU15GSE*2
ARNU09GSE*2 ARNU18GS8*2
ARNU12GSE*2 ARNU24GS8*2



* R:Mirror, V:Silver, B:Blue

HYDRO KIT

ARNH10GK2A2
ARNH05GK2A2
ARNH08GK3A2
ARNH05GK3A2



Ceiling & Floor

ARNU09GVEA2
ARNU12GVEA2



Ceiling Suspended

URNU18GVJA2 URNU36GVKA2
URNU24GVJA2 URNU48GVLA2

Console

ARNU07GQAA2
ARNU09GQAA2
ARNU12GQAA2
ARNU15GQAA2



Ceiling Cassette -2Way

ARNU18GTL*2
ARNU24GTL*2



* A:Basic, C:Plasma

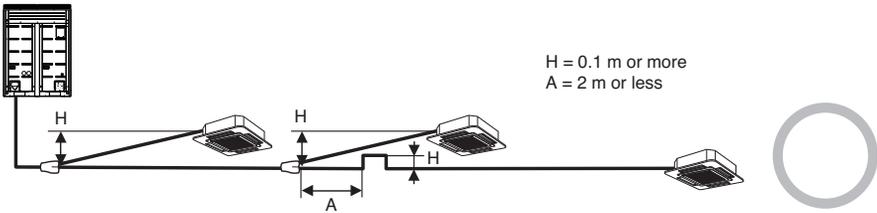
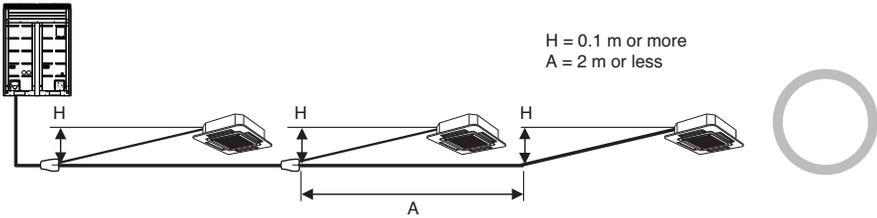
Fresh Air Intake Unit

ARNU48GBR22
ARNU76GB822
ARNU96GB822

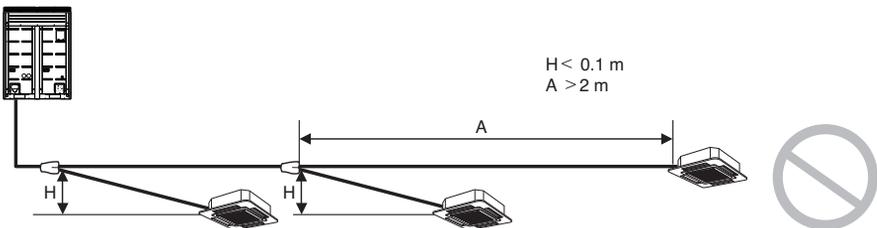
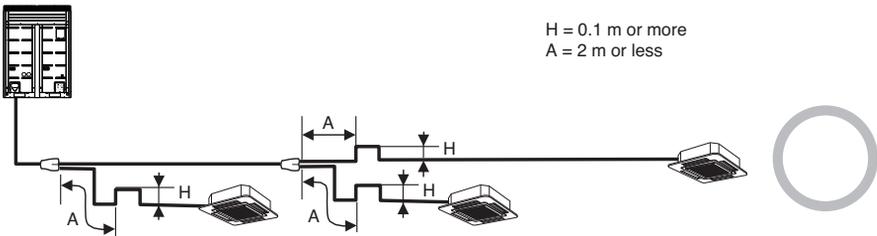


4. Piping Installation

The pipes between a indoor unit connected PRIP0 and its branch must maintain to incline preventing a back flow toward the indoor unit as shown below. Otherwise, the unit may not operate properly.



If the indoor unit is located lower than its branch, apply Oil Trap as shown below. Otherwise, the unit may not operate properly.

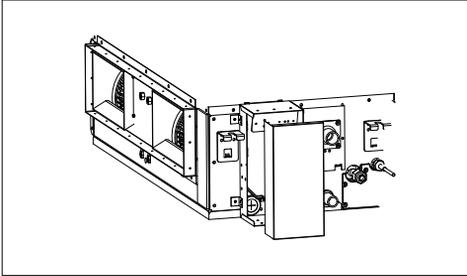


5. Assembly Diagram

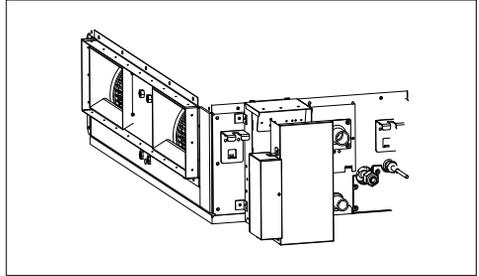
Assembly Diagram - PRIP0

■ High Static Duct/FAU

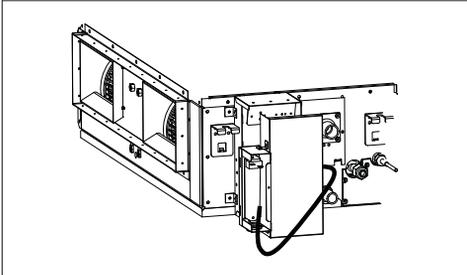
Step1. Open control box cover.



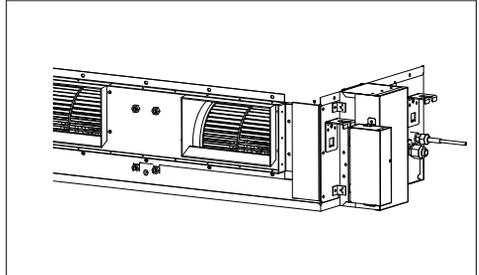
Step2. Assemble PRIP0 with control box cover.



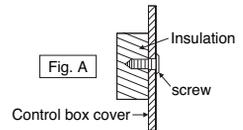
Step3. Open the cover of PRIP0 and connect wires.



Step4. Assemble control box cover.

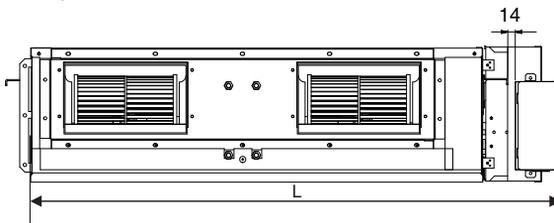


Note: While connecting the PRIP0, attach insulation at the rear of the control box cover where it receives screws as shown in Fig. A.



⚠ CAUTION

Check the distance between PRIP0 and a control box when connecting anchor bolts.

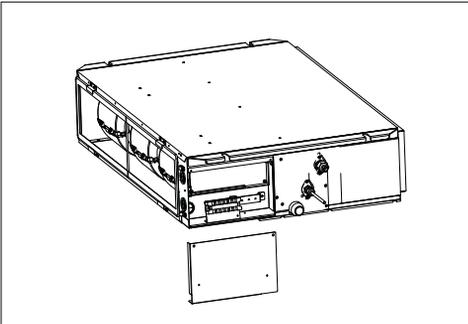


(Unit : mm)

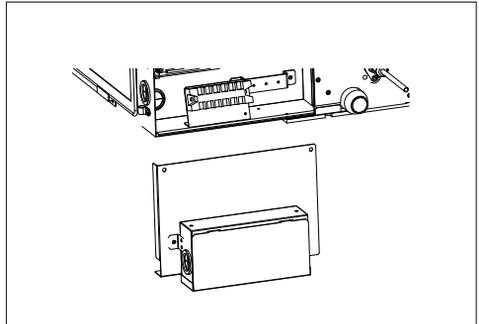
| chassis | L |
|---------|-------|
| BH | 1,090 |
| BG | 1,350 |
| BR | 1,400 |
| B8 | 1,720 |

■ Low Static Duct/Built-in Duct

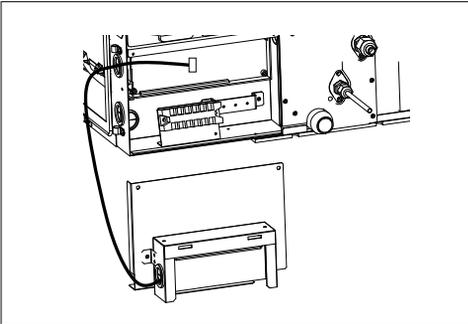
Step1. Open control box cover.



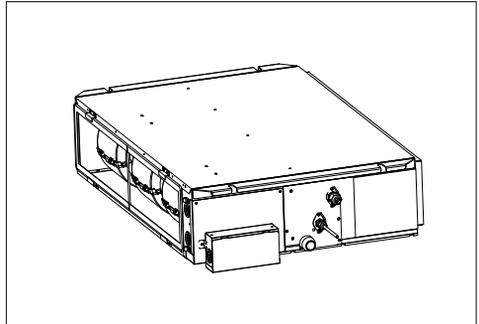
Step2. Assemble PRIPO with control box cover.



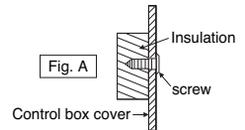
Step3. Open the cover of PRIPO and connect wires.



Step4. Assemble control box cover.

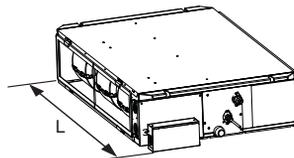
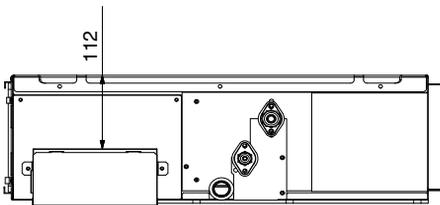


Note: While connecting the PRIPO, attach insulation at the rear of the control box cover where it receives screws as shown in Fig. A.



⚠ CAUTION

Check the distance between PRIPO and the top of model when connecting anchor bolts.

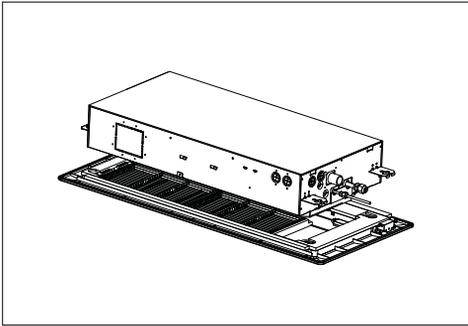


(Unit : mm)

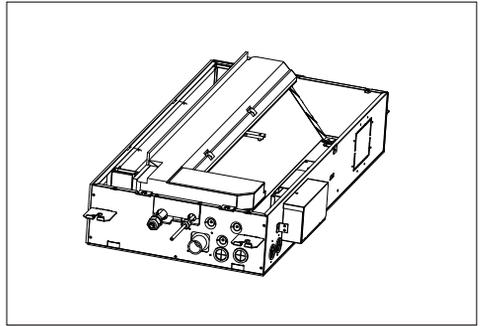
| chassis | L |
|---------|-------|
| B1/B3 | 1,090 |
| B2/B4 | 1,350 |

■ 1 Way CST

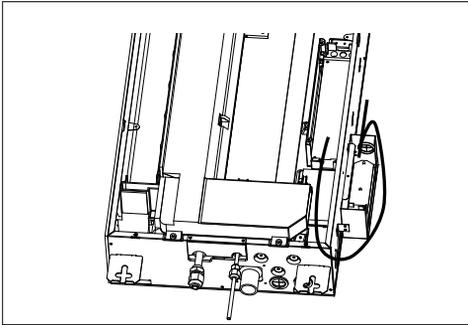
Step1. Open control front panel.



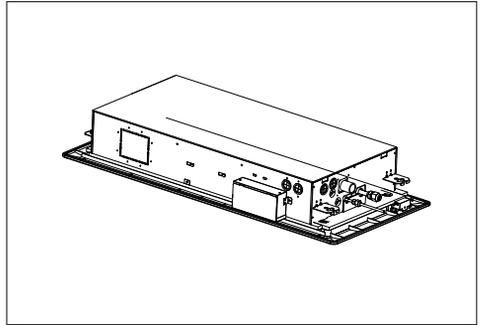
Step2. Assemble PRIPO with cabinet.



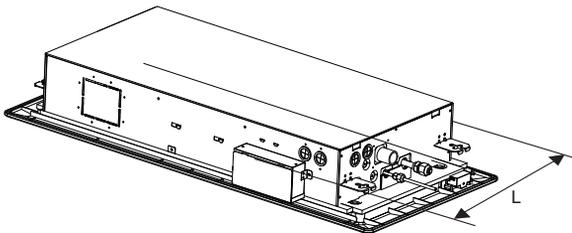
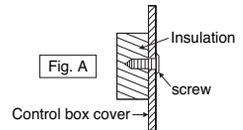
Step3. Open the cover of PRIPO and connect wires.



Step4. Assemble control box cover and front panel.



Note: While connecting the PRIPO, attach insulation at the rear of the control box cover where it receives screws as shown in Fig. A.

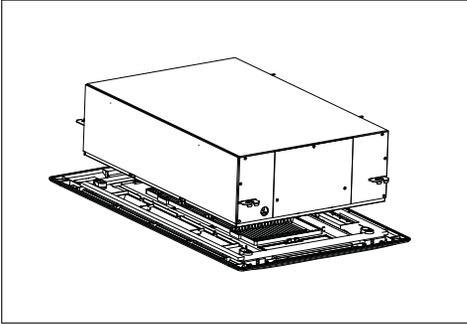


(Unit : mm)

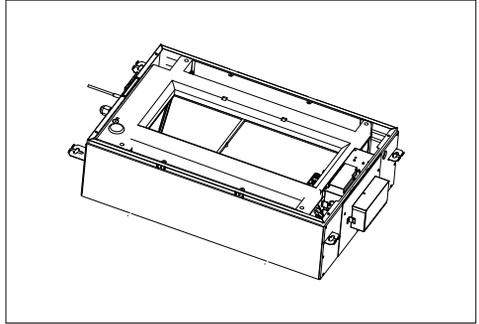
| | |
|---------|-----|
| chassis | L |
| TU/TT | 510 |

■ 2 Way CST

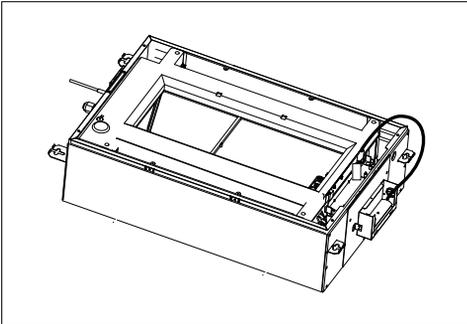
Step1. Open control front panel.



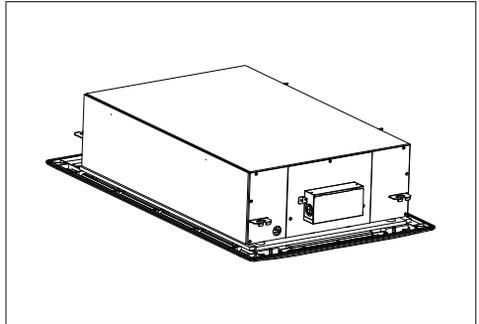
Step2. Assemble PRIP0 with cabinet.



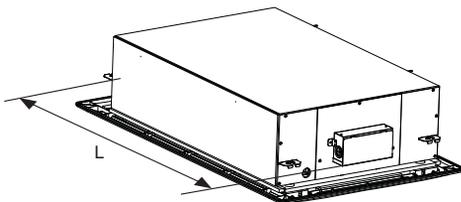
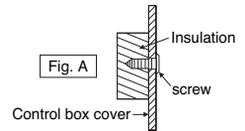
Step3. Open the cover of PRIP0 and connect wires.



Step4. Assemble control box cover and front panel.



Note: While connecting the PRIP0, attach insulation at the rear of the control box cover where it receives screws as shown in Fig. A.

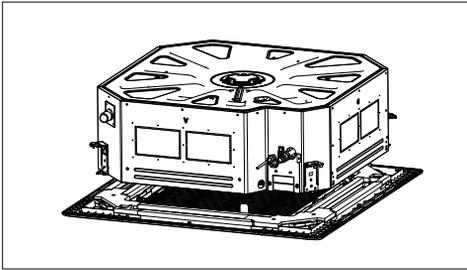


(Unit : mm)

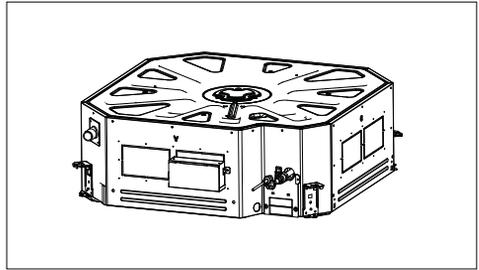
| | |
|---------|-----|
| chassis | L |
| TL | 890 |

■ 4 Way CST

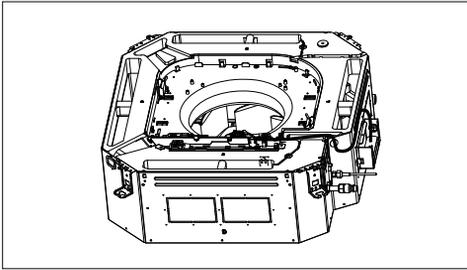
Step1. Open control front panel.



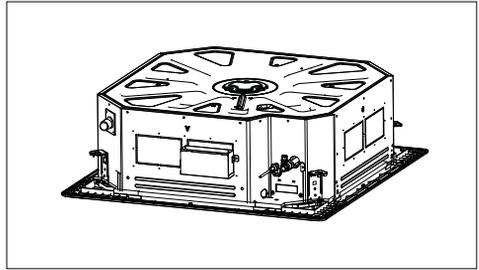
Step2. Assemble PRIPO with cabinet.



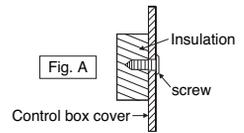
Step3. Open the cover of PRIPO and connect wires.



Step4. Assemble control box cover and front panel.

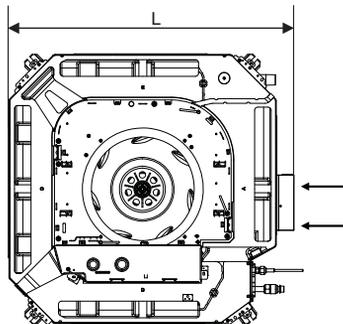


Note: While connecting the PRIPO, attach insulation at the rear of the control box cover where it receives screws as shown in Fig. A.



CAUTION

Check the attached direction to the indoor unit.

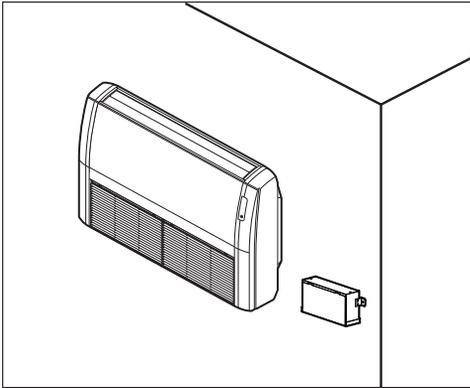


(Unit : mm)

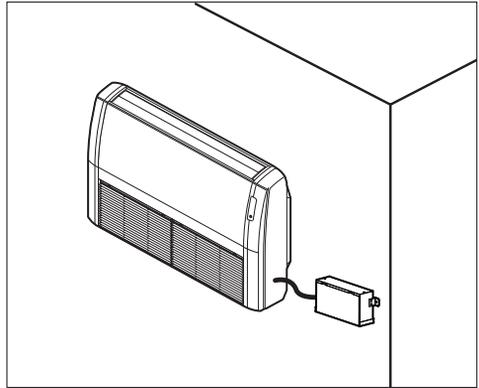
| | |
|----------|-----|
| chassis | L |
| TQ/TR | 630 |
| TP/TN/TM | 900 |

■ Ceiling Suspended/Console

Step1. Mount relay kit on the wall.



Step2. Connect wires (use a piping or wiring hole) and assemble cover.

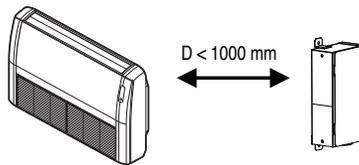


⚠ CAUTION

Do not install PRIP0 at places exposed to rain or any water.
Other wise it may leads to electric shock, fire, injury or sometimes even fatality.

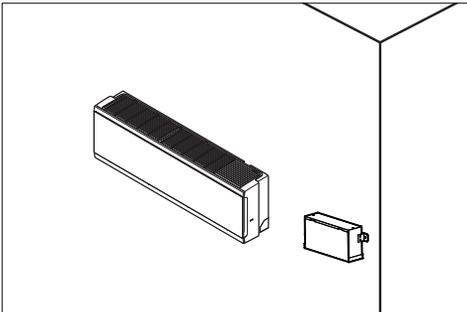
⚠ CAUTION

Independent power kit should be installed within 1000mm which is length of the given wires.
Otherwise Indoor EEV may cause malfunction.

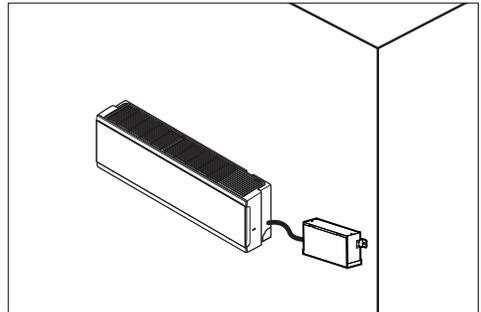


■ Wall mounted & Art cool

Step1. Mount relay kit on the wall.



Step2. Connect wires (use a piping or wiring hole) and assemble cover.

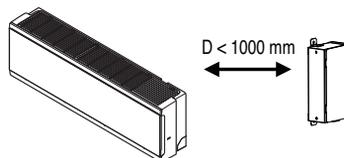


⚠ CAUTION

Do not install PRIP0 at places exposed to rain or any water.
Other wise it may leads to electric shock, fire, injury or sometimes even fatality.

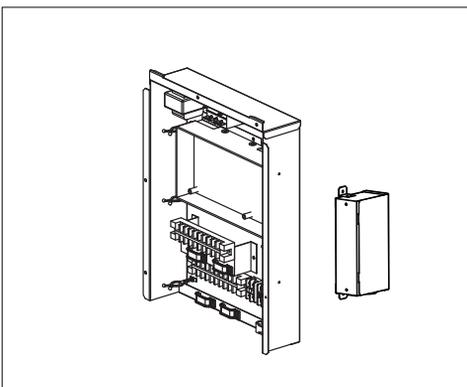
⚠ CAUTION

Independent power kit should be installed within 1000mm which is length of the given wires.
Otherwise Indoor EEV may cause malfunction.

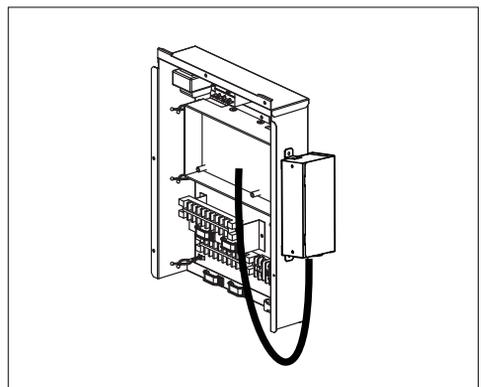


■ Hydro Kit

Step 1. Open the front panel of the control box.

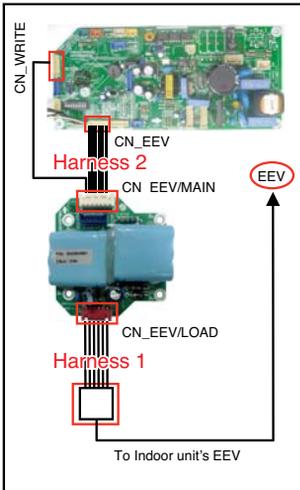


Step 2. Assemble the cover of PRIP0, fix it tightly with bolts and connect wires.

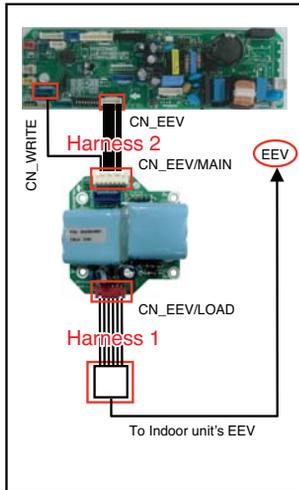


6. Electrical Wiring

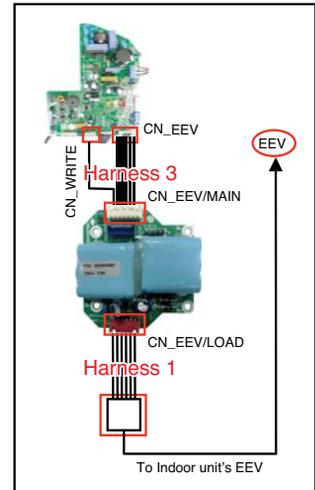
DUCT/FS/CVT/FAU



CST/Console/Hydro Kit



Wall mounted/ ART COOL



*FS : Floor Standing
 *CVT : Convertible
 *FAU : Fresh Air Intake Unit

*CST : Cassette

1. Turn the power off using circuit breaker.
2. Disconnect the EEV cable of the indoor unit's PCB(CN-EEV)
3. Connect the independent power kit(CN-EEV/LOAD) to the indoor unit's EEV, using harness 1.
4. Connect the independent power kit(CN-EEV/MAIN) to the indoor unit's PCB(CN-EEV/CN-WRITE), using harness 2 or 3.
5. Supply the power.

⚠ WARNING

- The wire should not be exposed to the outside otherwise it may leads to the malfunction of the independent power kit due to wire damage.
- Wrong wiring also causes the malfunction of the independent power kit or damage to it.
- Power should be supplied more than 20 minutes continuously in order to operate the independent power kit correctly. Otherwise, the independent power kit can not fully close the EEV due to the lack of the charging power.

