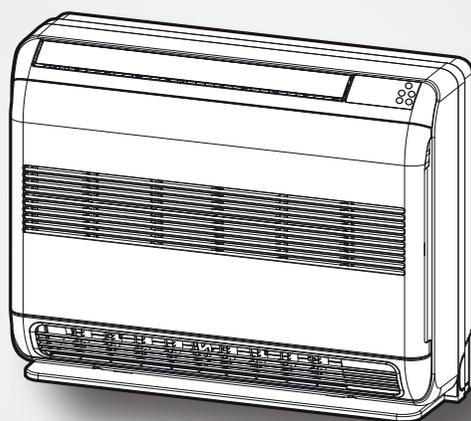


TOSHIBA

INSTALLATION MANUAL
AIR CONDITIONER (SPLIT TYPE)

R32 or R410A
INVERTER



Indoor unit
RAS-B10U2FVG-E1
RAS-B13U2FVG-E1
RAS-B18U2FVG-E1



1112151198

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PRECAUTIONS FOR SAFETY



Read the precautions in this manual carefully before operating the unit.



This appliance is filled with R32.

- Before installation, please read these precautions for safety carefully.
- Be sure to follow the precautions provided here to avoid safety risks. The symbols and their meanings are shown below.

WARNING : It indicates that incorrect use of this unit may cause severe injury or death.

CAUTION : It indicates that incorrect use of this unit may cause personal injury (*1), or property damage (*2).

*1: Personal injury means a slight accident, burn, or electrical shock which does not require admission or repeated hospital treatment.

*2: Property damage means greater damage which affects assets or resources.

For general public use

Power supply cord and connecting cable of appliance use shall be at least polychloroprene sheathed flexible cord (design H07RN-F) or cord designation 60245 IEC66. (Shall be installed in accordance with national wiring regulations.)

ADOPTION OF R32 or R410A REFRIGERANT

This Air Conditioner has adopted a refrigerant HFC (R32 or R410A) which does not destroy the ozone layer.

CAUTION To disconnect the appliance from the main power supply

This appliance must be connected to the main power supply by means of a circuit breaker or a switch with a contact separation of at least 3 mm in all poles.

DANGER

- FOR USE BY QUALIFIED PERSONS ONLY.
- TURN OFF MAIN POWER SUPPLY BEFORE ATTEMPTING ANY ELECTRICAL WORK. MAKE SURE ALL POWER SWITCHES ARE OFF. FAILURE TO DO SO MAY CAUSE ELECTRIC SHOCK.
- CONNECT THE CONNECTING CABLE CORRECTLY. IF THE CONNECTING CABLE IS CONNECTED WRONGLY, ELECTRIC PARTS MAY BE DAMAGED.
- CHECK THE EARTH WIRE THAT IT IS NOT BROKEN OR DISCONNECTED BEFORE INSTALLATION.
- DO NOT INSTALL NEAR CONCENTRATIONS OF COMBUSTIBLE GAS OR GAS VAPORS. FAILURE TO FOLLOW THIS INSTRUCTION CAN RESULT IN FIRE OR EXPLOSION.
- TO PREVENT OVERHEATING THE INDOOR UNIT AND CAUSING A FIRE HAZARD, PLACE THE UNIT WELL AWAY (MORE THAN 2 M) FROM HEAT SOURCES SUCH AS RADIATORS, HEATERS, FURNACE, STOVES, ETC.
- WHEN MOVING THE AIR CONDITIONER FOR INSTALLING IT IN ANOTHER PLACE AGAIN, BE VERY CAREFUL NOT TO GET THE SPECIFIED REFRIGERANT (R32 or R410A) WITH ANY OTHER GASEOUS BODY INTO THE REFRIGERATION CYCLE. IF AIR OR ANY OTHER GAS IS MIXED IN THE REFRIGERANT, THE GAS PRESSURE IN THE REFRIGERATION CYCLE BECOMES ABNORMALLY HIGH AND IT RESULTINGLY CAUSES BURST OF THE PIPE AND INJURIES ON PERSONS.
- IN THE EVENT THAT THE REFRIGERANT GAS LEAKS OUT OF THE PIPE DURING THE INSTALLATION WORK, IMMEDIATELY LET FRESH AIR INTO THE ROOM. IF THE REFRIGERANT GAS IS HEATED BY FIRE OR SOMETHING ELSE, IT CAUSES GENERATION OF POISONOUS GAS.

WARNING

- Never modify this unit by removing any of the safety guards or by passing any of the safety interlock switches.
- Do not install in a place which cannot bear the weight of the unit. Personal injury and property damage can result if the unit falls.
- Before doing the electrical work, attach an approved plug to the power supply cord.
Also, make sure the equipment is properly earthed.
- Appliance shall be installed in accordance with national wiring regulations. If you detect any damage, do not install the unit. Contact your dealer immediately.
- Do not use any refrigerant different from the one specified for complement or replacement.
Otherwise, abnormally high pressure may be generated in the refrigeration cycle, which may result in a failure or explosion of the product or an injury to your body.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Be aware that refrigerants may not contain an odour.
- Do not pierce or burn as the appliance is pressurized. Do not expose the appliance to heat, flame, sparks, or other sources or ignition. Else, it may explode and cause injury or death.
- A special tool for the R32 or R410A refrigerant is required for installation.
- Thickness of copper pipes used R32 must be more than 0.8 mm. Never use copper pipes thinner than 0.8 mm.
- After completion of installation or service, confirm there is no leakage of refrigerant gas. It may generate toxic gas when the refrigerant contacts with fire.
- When the indoor unit is connected with multi-split R32 outdoor unit 3M26, 4M27 and 5M34.
Please see IMS outdoor unit installation manual and consult your dealer about the minimum floor area.
- Comply with national gas regulations.

CAUTION

- Exposure of unit to water or other moisture before installation could result in electric shock.
Do not store it in a wet basement or expose to rain or water.
- After unpacking the unit, examine it carefully for possible damage.
- Do not install the unit at place where leakage of flammable gas may occur. In case gas leaks and accumulates at surrounding of the unit, it may cause of fire.
- Do not install in a place that can increase the vibration of the unit. Do not install in a place that can amplify the noise level of the unit or where noise and discharged air might disturb neighbors.
- To avoid personal injury, be careful when handling parts with sharp edges.
- Please read this installation manual carefully before installing the unit. It contains further important instructions for proper installation.
- The manufacturer shall not assume any liability for the damage caused by not observing the description of this manual.

REQUIREMENT OF REPORT TO THE LOCAL POWER SUPPLIER

Please make absolutely sure that the installation of this appliance is reported to the local power supplier before installation. If you experience any problems or if the installation is not accepted by the supplier, the service agency will take adequate countermeasures.

■ **Important information regarding the refrigerant used**

This product contains fluorinated greenhouse gases.

Do not vent gases into the atmosphere.

Refrigerant type: **R32**

GWP⁽¹⁾ value: **675** * (ex. R32 ref. AR4)

⁽¹⁾GWP = global warming potential

The refrigerant quantity is indicated on the unit name plate.

* This value is based on F gas regulation 517/2014

ACCESSORY PARTS

ACCESSORY AND INSTALLATION PARTS			
No.	Parts name (Q'ty)	No.	Parts name (Q'ty)
①	 Installation plate* × 1	②	 Wireless remote control* × 1
③	 Battery × 2	④	 Remote control holder* × 1
⑤	 Filter**	⑥	 Filter**
⑦	 Mounting screw** Ø4 × 25 ℓ × 8	⑧	 Flat head wood screw Ø3.1 × 16 ℓ × 2
⑨	 Insulation sheet × 1 (for some models only)	⑩	 Drain nipple*** × 1 (for heating model only)
⑪	 Cap water proof*** × 2 (for some models only)	⑫	 Owner's Manual
⑬	 Installation Manual	⑭	 B Label × 2 (for Multi model)

* The part may differ from that shown.

** The number of parts may differ by model.

*** The part is packed with the outdoor unit.

Air filters

Clean every 2 weeks.

1. Open the air inlet grille.
2. Remove the air filters.
3. Vacuum or wash and then dry them.
4. Reinstall the air filters and close the air inlet grille.

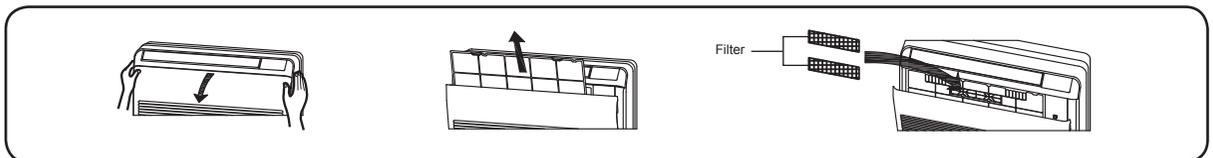
Filter

Maintenance & Shelf-life

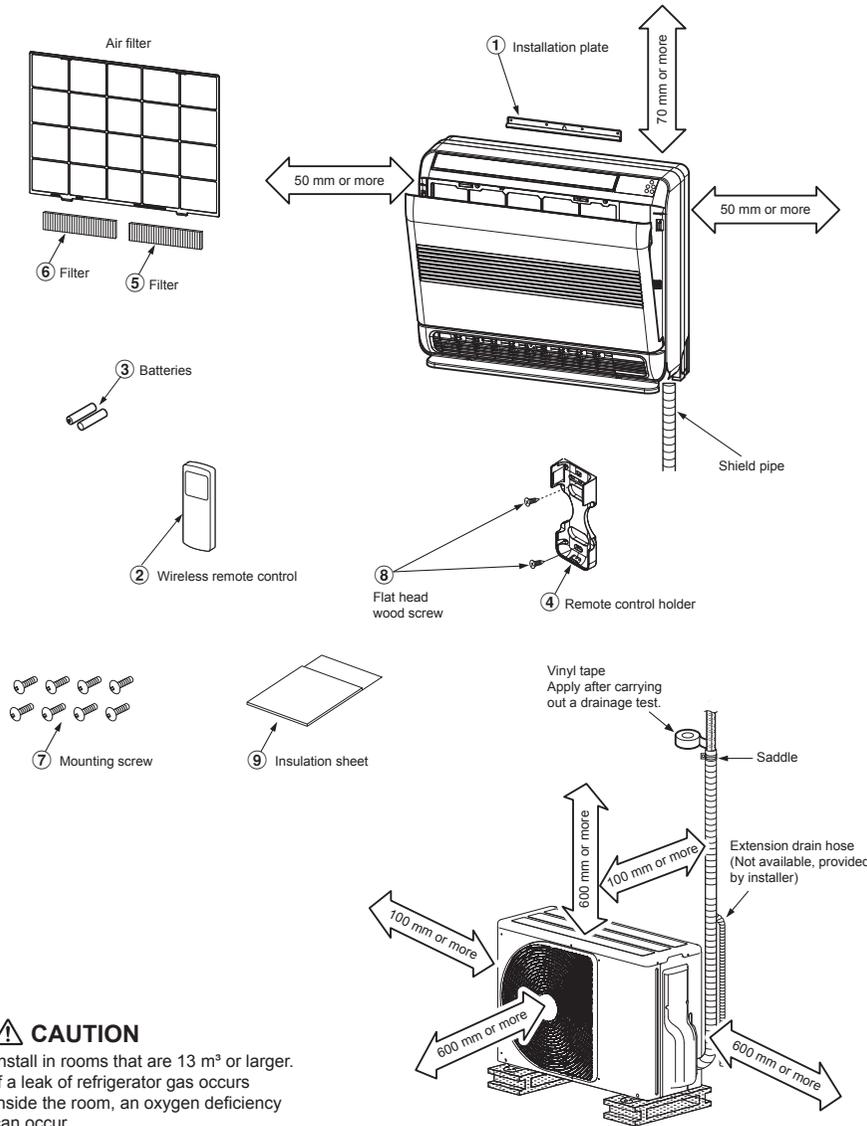
Clean every 3-6 months when dust tuck or covers the filter.

1. Recommend to use vacuum to clean by sucking the dusts which stick or dip inside the filter or use the blower to blow the dust go out through the filter.
2. If necessary to use water to clean, simply use the plain water to wash the filter, dry with the sunlight for 3-4 hours or until it completely dry. Nevertheless, use hair dryer to dry it. However, washing with water, it may reduce the performance of the filter.
3. Replace every 2 years or sooner. (contact your dealer to purchase new filter) (P/N : RB-A620DE)

Note: Filter life depends on the level of impurities in your operating environment. Higher levels of impurities may require more frequent cleaning and replacement. In all cases, we recommend an additional set of filters to improve the purifying and deodorizing performance of your air conditioner.



INSTALLATION DIAGRAM OF INDOOR AND OUTDOOR UNITS



Do not allow the drain hose to get slack.

Cut the piping hole sloped slightly.

Make sure to run the drain hose sloped downward.

The auxiliary piping can be connected to the left, rear left, rear right, right, bottom right or bottom left.

Insulate the refrigerant pipes separately with insulation, not together.

8 mm thick heat resisting polyethylene foam

In case of right or left piping

Cut dot-line area

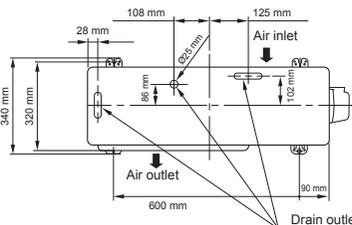
CAUTION
Install in rooms that are 13 m³ or larger. If a leak of refrigerator gas occurs inside the room, an oxygen deficiency can occur.

Optional Installation Parts

Part code	Parts name	Q'ty
(A)	Refrigerant piping Liquid side : Ø6.35 mm Gas side : Ø9.52 mm (RAS-B10, 13U2FVG-E1) : Ø12.7 mm (RAS-B18U2FVG-E1)	One each
(B)	Pipe insulating material (polyethylene foam, 8 mm thick)	1
(C)	Putty, PVC tapes	One each

Fixing bolt arrangement of outdoor unit

- Secure the outdoor unit with fixing bolts and nuts if the unit is likely to be exposed to a strong wind.
- Use Ø8 mm or Ø10 mm anchor bolts and nuts.
- If it is necessary to drain the defrost water, attach drain nipple (10) and cap water proof (11) to the bottom plate of the outdoor unit before installing it.



* Drain nipple and cap water proof are packed in outdoor unit.

* When using a multi-system outdoor unit, refer to the installation manual provided with the model concerned.

INDOOR UNIT

Installation Place

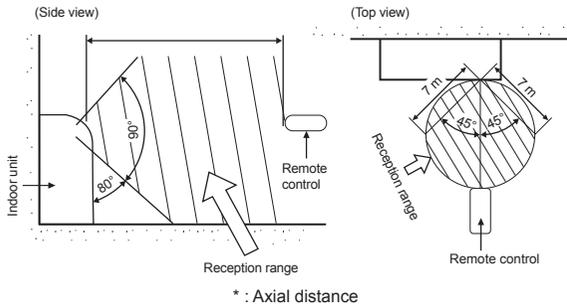
- A place which provides the spaces around the indoor unit as shown in the diagram.
- A place where there are no obstacles near the air inlet and outlet.
- A place which allows easy installation of the piping to the outdoor unit.
- A place which allows the front panel to be opened.

CAUTION

- Direct sunlight to the indoor unit's wireless receiver should be avoided.
- The microprocessor in the indoor unit should not be too close to RF noise sources.
(For details, see the owner's manual.)

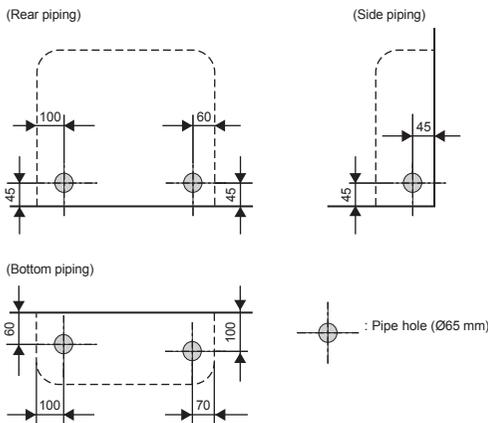
Remote control

- A place where there are no obstacles such as a curtain that may block the signal from the remote control.
- Do not install the remote control in a place exposed to direct sunlight or close to a heating source such as a stove.
- Keep the remote control at least 1 m apart from the nearest TV set or stereo equipment. (This is necessary to prevent image disturbances or noise interference.)
- The location of the remote control should be determined as shown below.



Cutting a Hole and Mounting Installation Plate

Cutting a hole

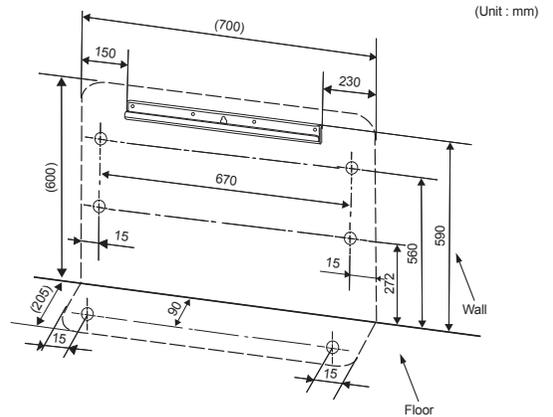


1. After determining the pipe hole position, drill the pipe hole (Ø65 mm) at a slight downward slant to the outdoor side.

NOTE

- When drilling a wall that contains a metal lath, wire lath or metal plate, be sure to use a pipe hole brim ring sold separately.

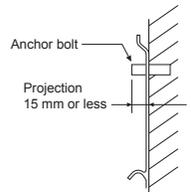
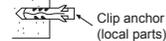
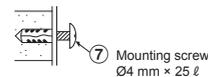
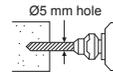
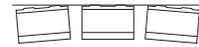
Mounting the installation plate



When the installation plate is directly mounted on the wall

1. Securely fit the installation plate onto the wall by screwing it in the upper and lower parts to hook up the indoor unit.
2. To mount the installation plate on a concrete wall with anchor bolts, use the anchor bolt holes as illustrated in the below figure.
3. Install the installation plate horizontally in the wall.

Installation plate
(Keep horizontal direction)



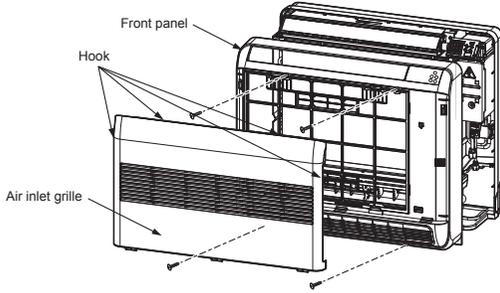
CAUTION

Failure to firmly install the unit may result in personal injury and property damage if the unit falls.

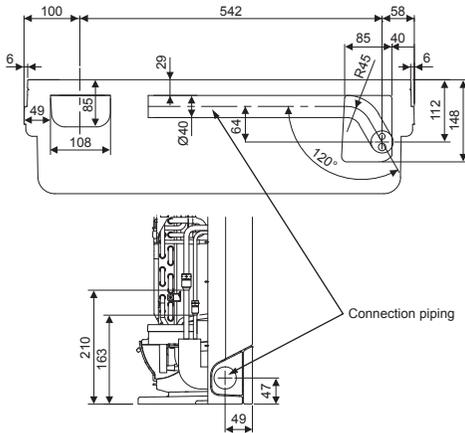
- In case of block, brick, concrete or similar type walls, make Ø5 mm holes in the wall.
- Insert clip anchors for appropriate mounting screws ⑦.

How to Install Indoor Unit

1. Remove the air inlet grille. Open the air inlet grille and remove the strap.
2. Remove the front panel (Remove the 4 screws).

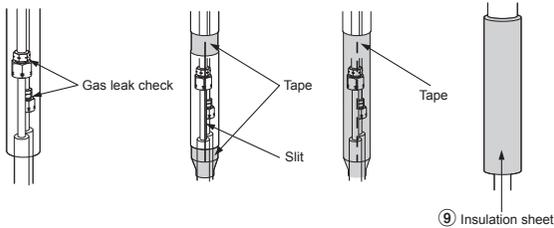


Layout of connection piping



Treatment of piping connection

- 1) Check the flare nut connections for the gas leak with a gas leak detector or soap water.
- 2) To prevent gap in slit, fasten top and bottom with tape.
- 3) Slit is covered with tape.
- 4) Fasten with supplied Insulate sheet to prevent gap on the top of slit.

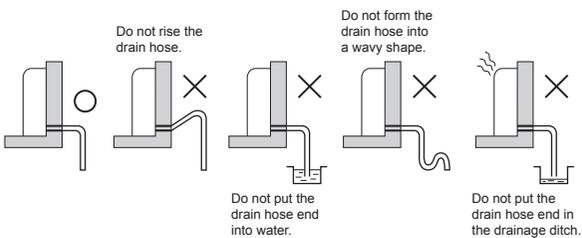


Drainage

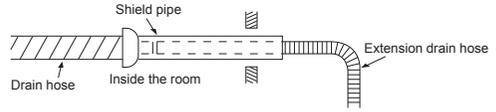
1. Run the drain hose sloped downwards.

NOTE

- The hole should be made at a slight downward slant on the outdoor side.



2. Put water in the drain pan and make sure that the water is drained out of doors.
3. When connecting extension drain hose, insulate the connecting part of extension drain hose with shield pipe.



CAUTION

Arrange the drain pipe for proper drainage from the unit. Improper drainage can result in dew-dropping.

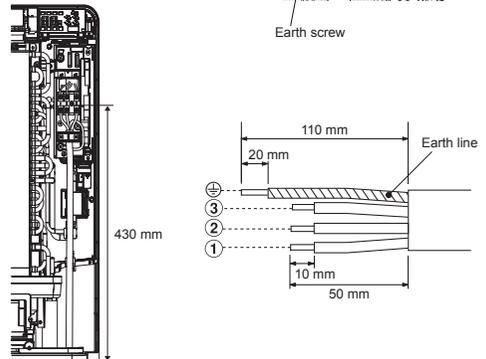
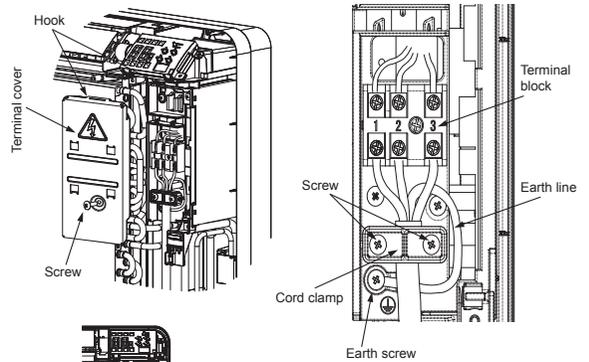
Wiring connection

Wiring of the connection cable is necessary to remove the front panel.

1. Remove the terminal cover and cord clamp.
2. Insert the connecting cable (according to the local cords) into the pipe hole on the wall.
3. Take out the connecting cable through the cable slot on the rear panel so that it protrudes about 50 cm from the front.
4. Insert the connecting cable fully into the terminal block and secure it tightly with screws.
5. Tightening torque : 1.2 N·m (0.12 kgf·m)
6. Secure the connecting cable with the cord clamp.
7. Fix the terminal cover, install the front panel and grille inlet.

CAUTION

- Be sure to refer to the wiring system diagram labeled inside the front panel.
- Check local electrical cords and also any specific wiring instructions or limitations.



Stripping length of the connecting cable

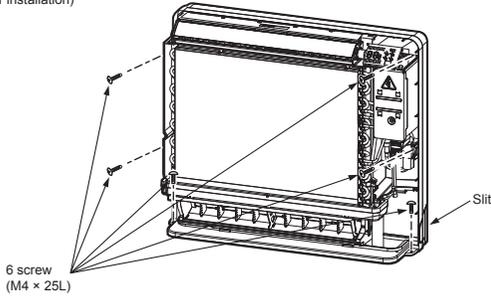
NOTE

- Use stranded wire only.
- Wire type : H07RN-F or 60245 IEC66 (1.0 mm² or more)

Mounting directly on the floor.

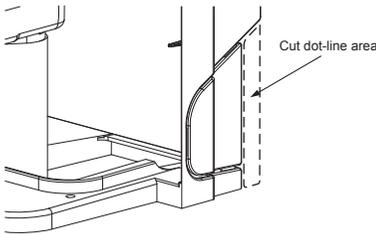
- 1) Fix the leg of indoor unit on the floor with 2 mounting screws.
- 2) Fix the upper part of indoor unit on the wall with 4 mounting screws.

(Floor installation)



NOTE

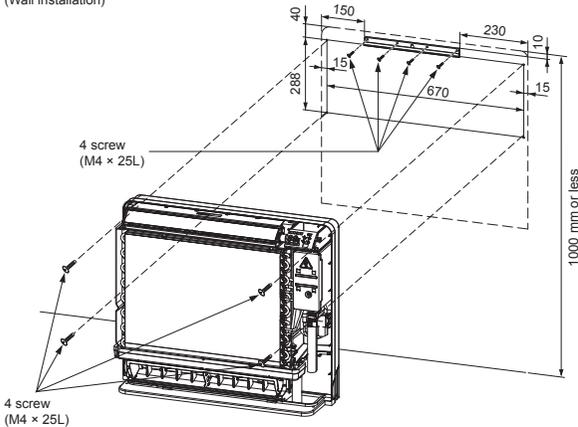
- In case the plinth is fixed to the wall, please make sure to cut out the slit on the left and right side of the main part.



Installation on the wall

- 1) Fix the installation plate on the wall with 4 mounting screws.
- 2) Hook the indoor unit on the installation plate.
- 3) Fix the upper part of indoor unit on the wall with 4 mounting screws.

(Wall installation)



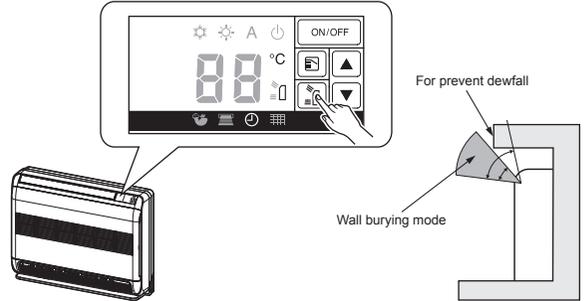
CAUTION

Make sure to fix it at a designated position with the screws.
Failure may result the damage of piping by the turning over of a set.

Concealed Installation

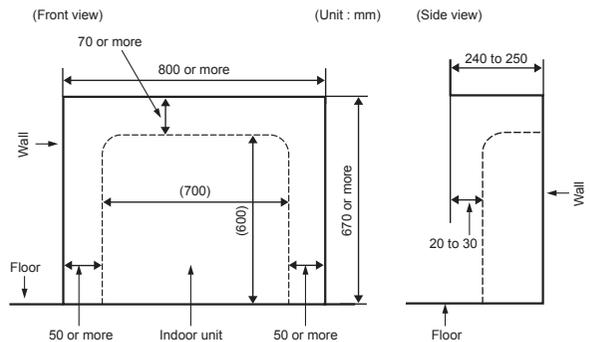
The special method to install the indoor unit bury in the wall is shown here. Please make sure to change to wall burying mode.

1. To switch to the wall burying mode
 - To switch to the wall burying mode, press and hold AIR OUTLET SELECT button for 20 seconds.
 - When the operation set up and 5 beep sounds. Then indication at Temperature indicator will light up for 5 seconds.
 - To cancel, press AIR OUTLET SELECT button for 20 seconds then, 5 beep sounds. Then indication at Temperature indicator will blink for 5 seconds.
 - To prevent dewfall, above plate angle should be narrow.



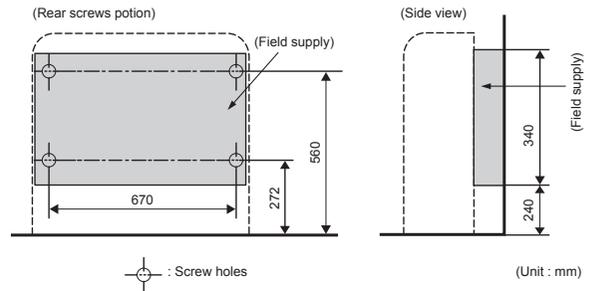
2. Wall hole size

Wall hole size should be enough to keep the distance with indoor unit as shown in the following figure.



3. Installation using the supporting plate

- To install into the existing wall hole, if it is impossible to keep 20-30 mm of depth, use the supporting plate for securing the distance.
- Arrange the screw positions and supporting plate as shown in the figure.
- Be sure to switch to wall burying mode.

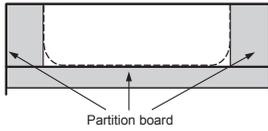


⊙ : Screw holes

4. In case of lattice establishment

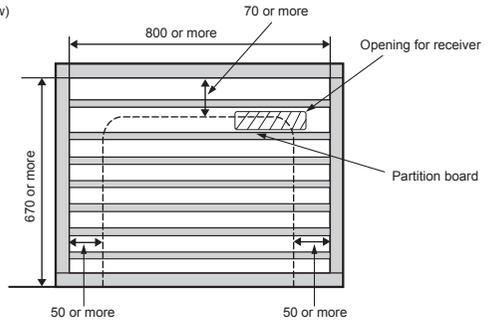
- Follow the following figure, make sure to keep enough distance between lattice, frame and wall.
- Be sure to switch to wall burying mode.
- The lattice should be made of wood.
- Between the air inlet and outlet, should be divided with partition board.
- Be sure to establish the open part for RECEIVER.
- The open part of lattice must be open 70% or more of the wall hole.
- The open part of lattice must be arranged uniformly.

(Top view)

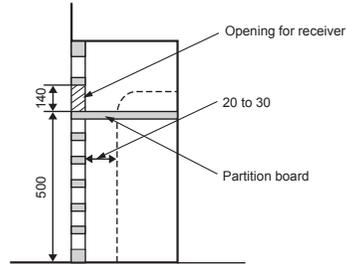


(Unit : mm)

(Front view)



(Side view)



OUTDOOR UNIT

- When using a multi-system outdoor unit, refer to the installation manual provided with the model concerned.

Installation Place

- A place which provides enough spaces around the outdoor unit as shown in the diagram.
- A place which can bear the weight of the outdoor unit and does not allow an increase in noise level and vibration
- A place where the operation noise and discharged air do not disturb your neighbors
- A place which is not exposed to a strong wind
- A place free of a leakage of combustible gases
- A place which does not block a passage
- When the outdoor unit is to be installed in an elevated position, be sure to secure its feet.
- The allowable length of the connecting pipe.

Models	10k	13k	18k
Chargeless	Less than 15 m	Less than 15 m	Less than 15 m
Maximum length	20 m	20 m	20 m
Additional refrigerant charging	16 - 20 m (20g / 1m)	16 - 20 m (20g / 1m)	16 - 20 m (20g / 1m)

- The allowable height of outdoor unit installation site.

Models	10k	13k	18k
Maximum height	10 m	10 m	10 m

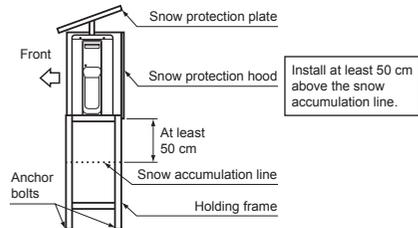
- A place where the drain water does not raise any problems

CAUTION

When the outdoor unit is installed in a place where the drain water might cause any problems, Seal the water leakage point tightly using a silicone adhesive or caulking compound.

Precautions about Installation in Regions with Snowfall and Cold Temperatures

- Do not use the supplied drain nipple for draining water. Drain the water from all the drain holes directly.
- To protect the outdoor unit from snow accumulation, install a holding frame, and attach a snow protection hood and plate.
- * Do not use a double-stacked design.

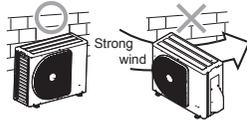


Precautions for adding refrigerant

- Use a scale having a precision with at least 10 g per index line when adding the refrigerant.
Do not use a bathroom scale or similar instrument.
- Use liquid refrigerant when refilling the refrigerant.
Since the refrigerant is in liquid form, it can fill quickly.
Therefore, perform the filling operation carefully and insert the refrigerant gradually.

CAUTION

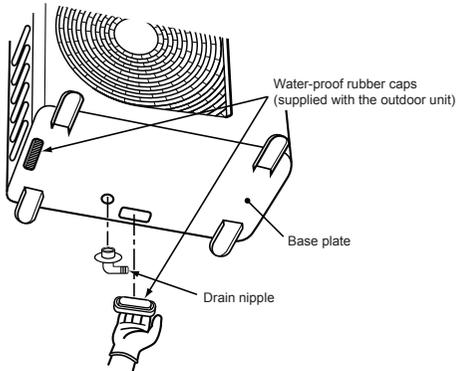
1. Install the outdoor unit in a location where there are no obstructions near its air intake or air outlet.
2. When the outdoor unit is installed in a place that is always exposed to strong winds like on the coast or on a high story of a building, secure the normal fan operation using a duct or a wind shield.
3. Especially in windy areas, install the unit to prevent the admission of wind.
4. Installation in the following places may result in trouble. Do not install the unit in such places.
 - A place full of machine oil
 - A saline-place such as the coast
 - A place full of sulfide gas
 - A place where high-frequency waves are likely to be generated, such as from audio equipment, welders, and medical equipment.



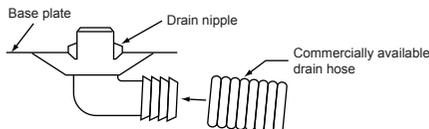
Draining the Water

- Holes are provided on the base plate of the outdoor unit to ensure that the defrost water produced during heating operations is drained off efficiently. If a centralized drain is required when installing the unit on a balcony or wall, follow the steps below to drain off the water.

1. Proceed with water-proofing by installing the water-proof rubber caps in the 2 elongated holes on the base plate of the outdoor unit. [How to install the water-proof rubber caps]
 - 1) Place four fingers into each cap, and insert the caps into the water drain holes by pushing them into place from the underside of the base plate.
 - 2) Press down on the outer circumferences of the caps to ensure that they have been inserted tightly. (Water leaks may result if the caps have not been inserted properly, if their outer circumferences lift up or the caps catch on or wedge against something.)



2. Install the drain nipple and a commercially available drain hose (with 16 mm inside diameter), and drain off the water. (For the position where the drain nipple is installed, refer to the installation diagram of the indoor and outdoor units.)
 - Check that the outdoor unit is horizontal, and route the drain hose at a downward sloped angle while ensuring that it is connected tautly.

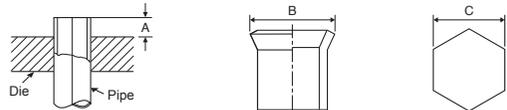
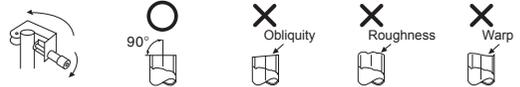


Do not use ordinary garden hose, but one can flatten and prevent water from draining.

Refrigerant Piping Connection

Flaring

1. Cut the pipe with a pipe cutter.
2. Deburr the inside of the pipe at its end. Take steps to ensure that the removed burrs will not enter the pipe.
3. Remove the flare nuts provided with the indoor and outdoor units, and insert them into the pipe.
4. Flare the pipe. The projection margin of the pipe must be checked.
5. Check that the flare has the appropriate shape.



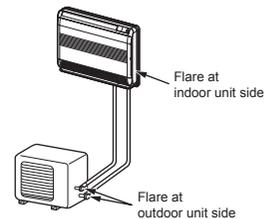
Pipe		A		B		Flare Nut	
Outside diameter	Thickness	RIDGID (clutch type) R32 or R410A tool	IMPERIAL (wing nut type) R32 or R410A tool	C		Tighten torque	
mm	mm	mm	mm	mm	mm	N·m	kgf·m
6.35	0.8	0 to 0.5	1.5 to 2.0	9.1	17	14 to 18	1.4 to 1.8
9.52	0.8	0 to 0.5	1.5 to 2.0	13.2	22	33 to 42	3.3 to 4.2
12.7	0.8	0 to 0.5	2.0 to 2.5	16.6	26	50 to 62	5.0 to 6.2

CAUTION

- Do not scratch the inner surface of the flared part when removing burrs.
- Flare processing under the condition of scratches on the inner surface of flare processing part will cause refrigerant gas leak.

• Tightening torque for connection of flare pipe

The pressure of R32 or R410A is higher than R22 (Approx. 1.6 times). Therefore securely tighten the flare pipes which connect the outdoor unit and the indoor unit with the specified tightening torque using a torque wrench. If any flare pipe is incorrectly connected, it may cause not only a gas leakage but also trouble in the refrigeration cycle.



Evacuating

After the piping has been connected to the indoor unit, you can perform vacuuming together at once.

VACUUMING

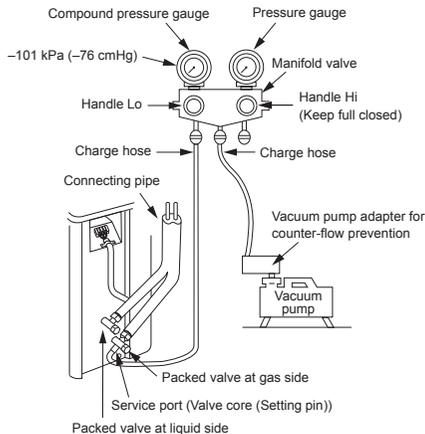
Evacuate the air in the connecting pipes and in the indoor unit using a vacuum pump. Do not use the refrigerant in the outdoor unit. For details, see the manual of the vacuum pump.

Using a vacuum pump

Be sure to use a vacuum pump with counter-flow prevention function so that inside oil of the pump does not flow backward into pipes of the air conditioner when the pump stops.

(If oil inside of the vacuum pump enters the air conditioner, which use R32 or R410A, refrigeration cycle trouble may happen.)

1. Connect the charge hose from the manifold valve to the service port of the packed valve at gas side.
2. Connect the charge hose to the port of the vacuum pump.
3. Open fully the low pressure side handle of the gauge manifold valve.
4. Operate the vacuum pump to start evacuating. Perform evacuating for about 15 minutes if the piping length is 20 meters. (15 minutes for 20 meters) (assuming a pump capacity of 27 liters per minute) Then confirm that the compound pressure gauge reading is -101 kPa (-76 cmHg).
5. Close the low pressure side valve handle of the gauge manifold valve.
6. Open fully the valve stem of the packed valves (both gas and liquid sides).
7. Remove the charging hose from the service port.
8. Securely tighten the caps on the packed valves.



Wiring Connection

1. Remove the valve cover, the electric parts cover and the cord clamp from the outdoor unit.
2. Connect the connecting cable to the terminal as identified by the matching numbers on the terminal block of indoor and outdoor unit.
3. Insert the power cord and the connecting cable fully into the terminal block and secure it tightly with screws.
4. Use vinyl tape, etc. to insulate the cords which are not going to be used. Locate them so that they do not touch any electrical or metal parts.
5. Secure the power cord and the connecting cable with the cord clamp.
6. Attach the electric parts cover and the valve cover on the outdoor unit.

Electrical Work

1. The supply voltage must be the same as the rated voltage of the air conditioner.
2. Prepare the power source for exclusive use with the air conditioner.

Model	10k	13k	18k
Power source	220-240V ~ 50Hz	220-240V ~ 50Hz	220-240V ~ 50Hz
Maximum running current	7.60A	8.25A	10.60A
Plug socket & fuse rating	9.5A	10.5A	13.5A
Power cord	H07RN-F or 60245 IEC66 (1.5 mm ² or more)		H07RN-F or 60245 IEC66 (2.5 mm ² or more)
Connecting cable	H07RN-F or 60245 IEC66 (1.5 mm ² or more)		

* When using a multi-system outdoor unit is used, refer to the installation manual provided with the model concerned.

CAUTION

• KEEP IMPORTANT 6 POINTS FOR PIPING WORK.

- (1) Take away dust and moisture (inside of the connecting pipes).
- (2) Tighten the connections (between pipes and unit).
- (3) Evacuate the air in the connecting pipes using a VACUUM PUMP.
- (4) Check gas leak (connected points).
- (5) Be sure to fully open the packed valves before operation.
- (6) Reusable mechanical connectors and flared joints are not allowed indoors. When mechanical connectors are reused indoors, sealing parts shall be renewed. When flared joints are reused indoors, the flare part shall be refabricated.

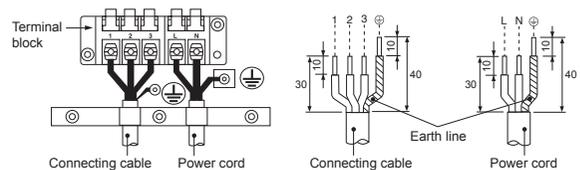
Packed valve handling precautions

- Open the valve stem until it touches the stopper. Once it is in contact with the stopper, refrain from applying any more force than is necessary.
- Securely tighten the valve stem cap with torque in the following table:

Gas side ($\varnothing 12.70 \text{ mm}$)	50 to 62 N·m (5.0 to 6.2 kgf·m)
Gas side ($\varnothing 9.52 \text{ mm}$)	33 to 42 N·m (3.3 to 4.2 kgf·m)
Liquid side ($\varnothing 6.35 \text{ mm}$)	14 to 18 N·m (1.4 to 1.8 kgf·m)
Service port	14 to 18 N·m (1.4 to 1.8 kgf·m)



Stripping length of the connecting cable

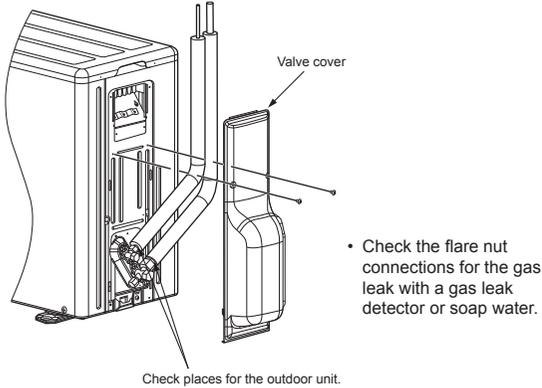
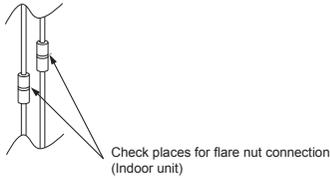


CAUTION

- Wrong wiring connection may cause some electrical parts burn out.
 - Be sure to comply with local rule on running the wire from indoor unit to outdoor unit (size of wire and wiring method, etc.).
 - Every wire must be connected firmly.
 - If incorrect or incomplete wiring is carried out, it will cause an ignition or smoke.
 - Prepare the power supply for exclusive use with the air conditioner.
 - This product can be connected to the mains.
- Connection to fixed wiring : A switch which disconnects all poles and has a contact separation of at least 3 mm must be incorporated in the fixed wiring.

OTHERS

Gas Leak Test



Unit B setup.

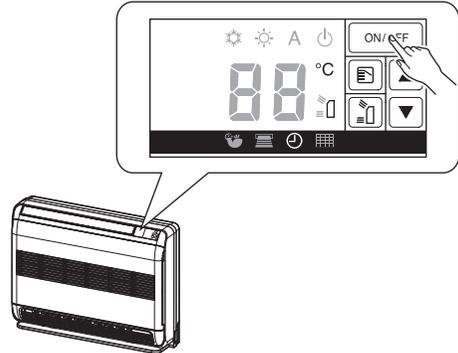
Press and hold MODE button for more than 20 seconds.

When A setup changed to B setup : 5 beeps will sound and operation lamp blinks for 5 seconds.

When B setup changed to A setup : 5 beep will sound.

Test Operation

To switch the TEST RUN (COOL) mode, press OPERATION button for 10 seconds (The beeper will make a short beep).



Setting of Remote Control Selector Switch

When two indoor units are installed in the separated rooms, it is not necessary to change the selector switches.

Remote control selector switch

- When two indoor units are installed in the same room or adjacent two rooms, if operating a unit, two units may receive the remote control signal simultaneously and operate. In this case, the operation can be preserved by setting either one indoor unit or remote control to B setting (Both are set to A setting in factory shipment).
- The remote control signal is not received when the settings of indoor unit and remote control are different.
- There is no relation between A setting/B setting and A room/B room when connecting the piping and cables.

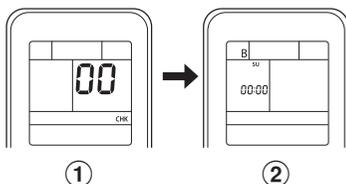
Remote Control A-B Selection

To separate using of remote control for each indoor unit in case of 2 air conditioners are installed near.

Remote Control B Setup.

1. Push and hold **check** button on the Remote Control by the tip of the pencil. "00" will be shown on the display. (Picture ①)
2. Press **MODE** during pushing **check**. "B" will show on the display and "00" will disappear and the air conditioner will turn OFF. The Remote Control B is memorized. (Picture ②)

- Note :
1. Repeat above step to reset Remote Control to be A.
 2. Remote Control A has not "A" display.
 3. Default setting of Remote Control from factory is A.



Auto Restart Setting

This product is designed so that, after a power failure, it can restart automatically in the same operating mode as before the power failure.

Information

The product are shipped with Auto Restart function in the off position. Turn it on as required.

How to set the Auto Restart

1. Press and hold OPERATION button on the indoor unit for 3 seconds to set the operation (3 beep sound and OPERATION lamp blink 5 time/sec for 5 seconds).
2. Press and hold OPERATION button on the indoor unit for 3 seconds to cancel the operation (3 beep sound but OPERATION lamp does not blink).
 - In case of ON timer or OFF timer are set, it dose not activate.

The image features the Toshiba logo in a bold, black, sans-serif font, centered on a white background. The logo is surrounded by several semi-transparent, gray, spherical bubbles of varying sizes, some of which are slightly out of focus, creating a sense of depth. A large, light gray curved shape is visible at the bottom right of the page.

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