

R410A Cassette Type LIT Type AIR CONDITIONER INSTALLATION INSTRUCTION HEET

RT NO. 9363217056)
This air conditioner uses new refrigerant R410A.
This mark indicates procedures which, if properly performed, might lead to the death or serious injury of the user or damage to property.
This mark indicates procedures which, if properly performed, might possibly result in personal harm to the user or damage to property.

This air conditioner uses new refrigerant R410A.
This air conditioner uses the same as conventional models.
The working pressure is 1.6 times higher than that of conventional refrigerant models, some of the piping and accessories are different. (See the table below.)
When replacing a conventional refrigerant model with a new refrigerant R410A model, always replace the conventional piping and accessories with the R410A piping and accessories.
Note that use refrigerant R410A has a different charging port thread diameter than conventional charging with refrigerant R22. (See the table below.)
Be careful that foreign matter (oil, water, etc.) does not enter the piping than with refrigerant. Also, when the piping, always use the approved by joining, heating, etc.
When charging the refrigerant, take into account the slight change in the composition of the gas and liquid phases, and the change from the liquid phase during pump down, close the valve immediately. (45, 54 Type only)

Tools for R410A	Contents of change
Charge manifold	Pressure is high and cannot be measured with a conventional gauge. To prevent erroneous reading of the refrigerant, the diameter of each port has been changed.
Charge hose	It is recommended the gauge with scale: 0 to 5 MPa (75 spring to 50 MPa) for high pressure. 0 to 1 kg/cm ² (10 MPa) for low pressure. Do not use conventional gauge.
Refrigerant	When replacing a conventional model with a new refrigerant R410A model, always replace the conventional piping and accessories with the R410A piping and accessories.

Thickness of Annealed Copper Pipes (R410A)	Thickness
6.35 mm (1/4 in.)	0.80 mm
9.52 mm (3/8 in.)	1.00 mm
12.70 mm (1/2 in.)	1.20 mm
15.88 mm (5/8 in.)	1.50 mm
19.05 mm (3/4 in.)	1.80 mm

STANDARD PARTS

The following installation parts are standard. Use these items.

Name and Shape	Qty	Application
Copper Tee	2	For indoor side pipe joint
Screw	2	For installing the remote controller
Special nut A (large torque)	2	For installing indoor unit
Special nut B (small torque)	4	For installing indoor unit
Remote control	1	For calling back calling
Blender	1	For remote controlled and remote controller cord wiring
Remote control installation	2	For attaching a remote control
Remote control cable	2	For installing remote control
Remote controller	1	For connecting the remote controller
Remote controller cord	1	For connecting the remote controller

INDOOR UNIT ACCESSORIES

Name and Shape	Qty	Application
Disinfectant	1	For indoor unit disinfectant
Disinfectant cap	1	For indoor unit disinfectant
Insulation (foam)	1	For filling in a gap at the entrance of connection duct

CONNECTION PIPE REQUIREMENT

The maximum lengths of this product are shown in the following table. If the units are further apart than this, correct operation can not be guaranteed.

Item	Length
Indoor side	11.0 m (36 ft)
Outdoor side	11.0 m (36 ft)

ELECTRICAL REQUIREMENT

Electric wire and breaker capacity

Item	Capacity
Power supply cord (power)	4.0
Power supply cord (power)	2.5
Connection and (power)	2.5
Power supply cord (power)	2.5
Power supply cord (power)	2.5

OPTION

The following options are available.

- OPTIONAL, CABLE GAUGE: 170-AGA (PH 9002300)
- Simple remote controller: 170-PP (PH 9077500)

INSTALLATION PROCEDURE

1. INDOOR UNIT INSTALLATION

WARNING
Install the air conditioner in a location which can withstand a load of at least five times the weight of the unit and which will not vibrate or vibrate. If the installation location is not strong enough, the indoor unit may fall and cause injury.

CAUTION
If the job is done with the panel frame only, there is a risk that the unit will come loose. Please take care.

REMOVING THE PANEL FRAME
(1) Push the indoor grille pushbutton (see pages).

REMOVING THE STRAKE GRILLE
(1) Push the indoor grille pushbutton (see pages).

CAUTION
Install heat insulation around the gas and liquid pipes. Failure to do so may cause water leaks.

ELECTRICAL REQUIREMENT
Electric wire and breaker capacity

2. HANGING PREPARATIONS

Part A detail view

Part B detail view

CAUTION
Always remove the panel frame after removing the intake grille.

1. POSITION THE CEILING HOLE AND HANGING BOLTS

Part A detail view

Part B detail view

3. BODY INSTALLATION

Part A detail view

Part B detail view

WARNING
Perform final tightening by tightening the double nut firmly.

CAUTION
Install the drain pipe in accordance with the instructions in the installation instruction sheet and keep the area tight enough to prevent condensation. Problems with the piping may cause water leakage.

2. INSTALLING DRAIN PIPE

CAUTION
Install the drain pipe in accordance with the instructions in the installation instruction sheet and keep the area tight enough to prevent condensation. Problems with the piping may cause water leakage.

CAUTION
When the pipe is longer than 20 m, additional charging is necessary for the additional amount, see the table below.

SELECTING THE MOUNTING POSITION

WARNING
Do not install the unit where it will not be filled by more than 30°.

CAUTION
Do not install the unit near heat sources of heat, steam, inflammable gas.

CAUTION
Do not install the unit where there is a danger of combustible leakage.

CAUTION
Do not install the unit where there is a danger of fire.

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OUTDOOR UNIT

WARNING
Do not install the unit where it will not be filled by more than 30°.

CAUTION
Do not install the unit where there is a danger of fire.

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3. OUTDOOR UNIT INSTALLATION

1. OUTDOOR UNIT PROCESSING

(1) Cut the connection pipe to the necessary length with a pipe cutter.

(2) Remove the flare nut and the flare nut from the pipe and remove the flare nut.

(3) Install the flare nut on the pipe and perform the flare processing with a flare tool.

(4) Use the special R410A flare tool, or the conventional flare tool.

CAUTION
Do not use a pipe cutter to cut the pipe.

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2. BENDING PIPES

(1) Do not bend the pipe in an angle more than 30°.

(2) Do not bend the pipe in an angle more than 30°.

(3) Do not bend the pipe in an angle more than 30°.

(4) Do not bend the pipe in an angle more than 30°.

CAUTION
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3. CONNECTION PIPES

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4. VACUUM

(1) Remove the cap and connect the gauge manifold and the vacuum pump to the charging valve by the service hoses.

(2) Connect the vacuum pump and the cap to the charging valve by the service hoses.

(3) Turn the vacuum pump on and start the vacuum pump.

(4) Disconnect the vacuum pump and the cap to the charging valve by the service hoses.

(5) Turn the vacuum pump on and start the vacuum pump.

(6) Turn the vacuum pump on and start the vacuum pump.

CAUTION
Do not use a vacuum pump to vacuum the system.

5. ADDITIONAL CHARGE

(1) When the pipe is longer than 20 m, additional charging is necessary for the additional amount, see the table below.

CAUTION
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4. CONNECTING THE PIPE

CAUTION
Do not use mineral oil on flare nut. Prevent mineral oil from getting into the system as this would reduce the lifetime of the system.

CAUTION
When welding the pipes, be sure to blow dry nitrogen gas through them.

CAUTION
The maximum lengths of this product are shown in the table. If the units are further apart than this, correct operation can not be guaranteed.

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