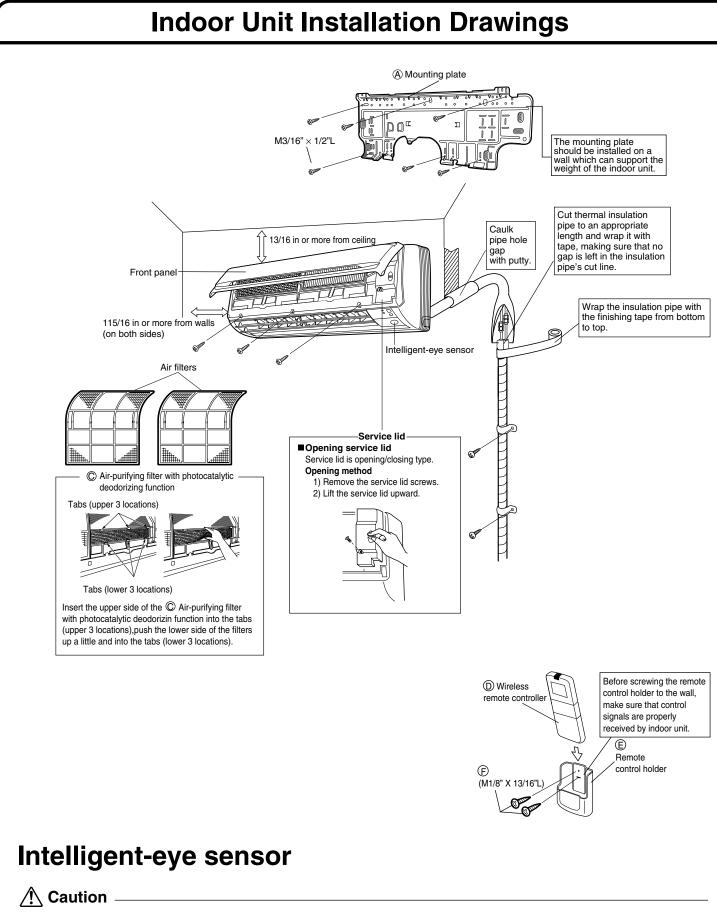


DAIKIN AIR CONDITIONER INSTALLATION MANUAL

Safety Precautions

	0	uicty	Ticcaulio	115			
	afety Precautions carefues the precautions into WARNINGS				they are	all important for ens	uring safety.
	Failure to follow any of W	ARNING i	s likely to result in such g	grave conseque	ences as	s death or seriou	ıs injury.
	Failure to follow any of C		I may in some cases re	esult in grave o	consequ	uences.	
• The following s	safety symbols are used	d throug	nout this manual:				
Be sure	e to observe this instruction.		Be sure to establish a earth grounding conn		\bigcirc	Never attempt.	
• After completing installation	ion, test the unit to check for installation e	rrors. Give the	user adequate instructions concern	ing the use and cleanir	ng of the uni	it according to the Oper	ation Manual.
M WA	RNINGS						
Installation should b	be left to the authorized dealer or ar	nother traine	d professional. Improper installation	on may cause water lea	kage, electri	cal shock, fire, or equipm	ient damage.
	itioner according to the instructior	-					
Be sure to use the s	supplied or exact specified installat	ion parts. U	se of other parts may cause the unit to	come to lose, water lea	akage, electi	rical shock, fire or equip	ment damage.
	conditioner on a solid base						
	se or incomplete installation may	-					
	hould be carried out in accorda or incomplete electrical work may cause				te and io	ical electrical wirl	ng codes.
	dedicated power circuit. Never						
	wire or cable long enough to cove or supply.Use a only a separate c						
	I types of wires for electrical con connecting wires so their terminals receiv						
After connecting	all wiring be sure to shape the r the wires. Incomplete cover ins	cables so	that they do not put undue	stress on the ele	ectrical co	overs, panels or te	erminals.
	elocating the system, be sure to keep ir or other foreign substance in the						
	nt has leaked out during the roduces a toxic gas if exposed to		ation work, ventilate the	e room.			0
	ation is complete, check to roduces a toxic gas if exposed to		ure that no refrigerant is	s leaking.			0
	wn, stop the compressor before be sucked in when the refrigerant piping						
If the compressor	tion, attach the refrigerant is not attached and the shut-off v ressure whichcould lead to equ	/alve is ope	n during pump-down, air will			mpressor is run, ca	ausing
Install an leak	circuit breaker, as required	d. If an lea	circuit breaker is not install	ed, electric shock	may resu	ult.	
	ablish a ground. Do not gro grounding may cause equipment damage, or elec						
Be sure to install a	a ground fault circuit interrupter b	reaker. Fail	ure to install a ground fault circuit in	terrupter breaker may	result in ele	ectrically shocks or pers	sonal injury.
	UTIONS						
	he air conditioner where g			o open flames			\bigcirc
Establish drain	n piping according to the in	struction	s of this manual. Inadeq	uate piping may c	ause wat	er damage.	
	ing the outdoor unit. (For h point, the drain may freeze. If so						
• Tighten the flare nut a	according to the specified torque. A tor	que wrench	should be used. If the flare nut is tighter	ened too much, the flare n	ut may crack	over time and cause refrige	erant leakage.
	he heat exchanger fins. 9 may result in injury.						\bigcirc

• Be very careful about product transportation. Some products use PP bands for packaging. Do not use any PP bands for a means of transportation. It is dangerous.



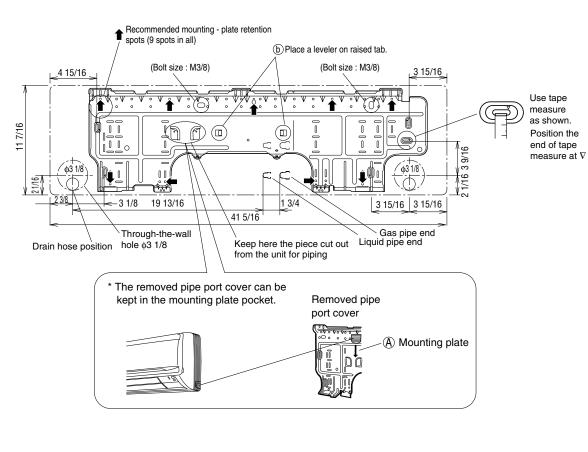
1) Do not hit or violently push the Intelligent-eye sensor. This can lead to damage and malfunction. 2) Do not place large objects near the sensor. Also keep heating units or humidifiers outside the sensor's detection area.

(B) Mounting plate fixing screws M3/16" × 1"L	10	F Fixing screws for re controller holder M1
C Air-purifying filter with photocatalytic deodorizing function	2	G AAA dry-cell batte
D Wireless remote controller	1	 ℍ Indoor unit fixing s M3/16" × 1/2"L
		Choosing
• Before choosing the installation site 1. Indoor unit.	e, obta	ain user approval.
 the restrictions on installatio both air intake and exhaust the unit is not in the path of the unit is away from the sou there is no source of machin cool air is circulated through the unit is away from electron remote control range, the unit is at least 3.5 ft away Wireless remote control Turn on all the fluorescent is 	have of direct urce of no oil th onic ign from a ler.	clear paths met, sunlight, f heat or steam, vapour (this may shorte e room, hition type fluorescent la
	within	23 ft)
received by the indoor unit (within	23 ft).
	within	^{23 ft).}
 received by the indoor unit (1. Removing and installing front p Removal method Hook fingers on the panel protrusions on the left and open until the panel stops. Slide the front p the rotating shaft. Then pull the front panel toward you to remove it. Installation method 	panel ft and righ wanel side	Installatio
 received by the indoor unit (1. Removing and installing front p Removal method Hook fingers on the panel protrusions on the left and open until the panel stops. Slide the front p the rotating shaft. Then pull the front panel toward you to remove it. 	panel ft and righ anel side close face	Installatio

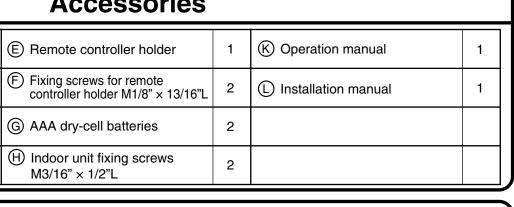
A Mounting plate

Indoor Unit Installation

- Installing the mounting plate.
- The mounting plate should be installed on a wall which can support the weight of the indoor unit. 1) Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, ar
- the boring points on the wall. 2) Secure the mounting plate to the wall with screws.
- **Recommended mounting-plate retention spots and Dimensions**



Accessories



a Site

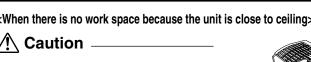
installation drawings are met,

en indoor unit life),

- lamps (inverter or rapid start type) as they may sho
- et (unit may cause interference with the picture or sou

I find the site where remote control signals are prop

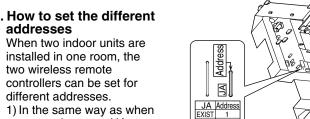
on Tips

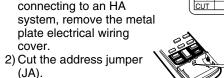


Be sure to wear protection gloves. lace both hands under the center of the front 2) Pull toward you rille, and while pushing up, pull it toward you.

Installation method

) Install the front grille and firmly engage the upper hooks (3 lo) Install 2screws(18class)or 3screws(20, 24class)of the front g) Install the air filter and then mount the front panel.





3) Cut the address jumper

1	 For walls containing metal frame or metal board, be sure to use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire. Be sure to caulk the gaps around the pipes with caulking material to prevent water leakage. Bore a feed-through hole of 3 1/8in in the wall so it has a down slope toward the outside. 2) Insert a wall pipe into the hole. 	mounting plate. 4) Pass drain hose and refrigeration then set the indoor unit on markings at the top of indoor Drain Caulk this hole with putty or caulking material.
orten the	 3) Insert a wall cover into wall pipe. 4) After completing refrigerant piping, wiring, and drain piping, caulk pipe hole gap with putty. 3. Installing indoor unit. 3-1. Right-Side, Right-Back, or Right-Bottom Piping 1) Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape. 2) Wrap the refrigerant pipes and drain hose together with insulation tape. 	 5) Pull in the interconnecting wi 6) Connect the inter-unit piping. 7) Wrap the refrigerant pipes and c tape as right figure, in case of se of the indoor unit. 8) While exercising care so that the interconnecting wires do not catc unit, press the bottom edge of ine with both hands until it is firmly c the mounting plate hooks. Secur indoor unit to the mounting plate
nd). berly	 3) Pass the drain hose and refrigerant pipes through the wall hole, then set the indoor unit on the mounting plate hooks by using the △ markings at the top of the indoor unit as a guide. 	screws (M3/16" × 1/2"L). 3-3. Wall Embedded Piping Follow the instructions given un Left-Side, Left-Back, or Left Botto 1) Insert the drain hose to this depth so it wont be pulled ou of the drain pipe.
ng>	 4) Open the front grille, then open the service lid. (Rifer to Installation tips) 5) Pass the interconnecting wires from the outdoor unit through the feed-through wall hole and then through the back of the indoor unit. Pull them through the front side. Bend the ends of tie wires upward in advance for easier work. (If the interconnecting wire ends are to be stripped first, bundle wire ends with adhesive tape.) 	 4. Wiring. 1) Strip wire ends (9/16in). 2) Match wire colours with terminal numbers on indoor and outdoor unit's terminal blocks and firmly screw wires to the corresponding terminals. 3) Connect the earth wires to the corresponding terminals. 3) Connect the earth wires to the corresponding terminals. 3) Connect the earth wires to the corresponding terminals. 5) In case of connecting to an adapter system. Run cable and attach the S21 connector as the illustrational of the service line of the service
	 6) Press the indoor unit's bottom panel with both hands to set it on the mounting plate hooks. Make sure the wires do not catch on the edge of the indoor unit. 3-2. Left-Side, Left-Back, or Left Bottom Piping Attach the drain hose to the underside of the refrigerant 	When wire length exceeds 10 m, use 2.0-mm wires. Indoor 12 unit 12 Warning
J4	 pipes with adhesive vinyl tape. 2) Be sure to connect the drain hose to the drain port in place of a drain plug. How to set drain plug Do not apply lubricating oil (refrigerant machine oil) when inserting oil (refrigerant machine oil (refrigera	 Do not use spliced wires, stand wires, extra connections, as they may cause overhear all Local, and State electrical codes. Do not use locally purchased electrical particular overload the circuit by adding drain pump terminals.) Doing so may cause electric sets When carrying out wiring connection, take
	Refrigerant piping wo	rk
nd mark	 1. Flaring the Pipe End Cut exactly at the pipe on with a pipe cutter. Remove burrs with the cut surface facing downward so that the chips do not enter the pipe. Put the flare nut on the pipe. Flare the pipe. 	Remove burrs
	 Do not use mineral oil on flared part. Prevent mineral oil from getting into the system as this would reduce the system as the sys	the unit life.

2. Boring a wall hole and installing wall embedded pipe.

- mineral oil from getting into the system as this would reduce the unit life. 3) Never use piping which has been used for previous installations. Only use parts which are provided with the
- unit.
- 4) Do never install a refrigerant drier to this unit.
- 5) The drying material may dissolve and damage the system.
- 6) Incomplete or improper flaring may cause refrigerant gas leakage.

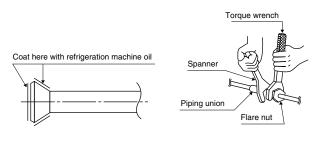
2. Refrigerant Piping

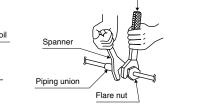
O.D. 1/2in

O.D. 5/8in

Thickness 0.031in Thickness 0.039in

- 1) Align the centers of both flares and tighten the flare nuts 3 or 4 turns by hand. Then tighten them fully with the torque wrenches. Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and escaping gas.
- 2) To prevent gas leakage, apply refrigeration machine oil on both inner and outer surfaces of the flare. (Use refrigeration oil for R410A)





Flare nut tightening torque Gas side Liquid side 1/4 inch 1/2 inch 5/8 inch 36.5~44.5ft • lbf 45.6~55.6ft • lbf 10.4~12.7ft • lbf Valve cap tightening torque Gas side Liquid side 1/2 inch 5/8 inch 1/4 inch 35.5~44.0ft • lbf 32.5~39.7ft • lbf 15.9~20.2ft • lbf 7.9~10.8ft • lbf Service port cap tightening torque

I.D. 0.315-0.393in

					oup lighterning to	
1)	All pipe bend bender for b	open end of th ds should be ending.	g ne pipe against dust and i as gentle as possible. Us e 1 3/16 to 1 9/16in or lat	e a pipe	Rain	Be sure to place a cap. If no flare cap is available, cover the flare mouth with tape to keep
2-2. Se	election of C	opper and H	eat Insulation materials	5	\` `	dirt or water out.
1)	Insulation ma Heat transfe Btu/fth°F) Refrigerant (Choose heat temperature Be sure to in	aterial: Polye r rate: 0.041 gas pipe's sui t insulation m	copper pipes and fittings, ethylene foam to 0.052 kW/mK (0.024-0 fface temperature reache aterials that will withstand he gas and liquid piping a below).030 s 230°F max. d this	Gas pipe Gas pipe insulation	Inter-unit wiring Liquid pipe Liquid pipe insulation Drain hose
	Gas	side	Liquid side	Gas pipe ther	mal insulation	Liquid pipe thermal insulation
	15/18 class	24 class	15/18/24 class	15/18 class	24 class	15/18/24 class

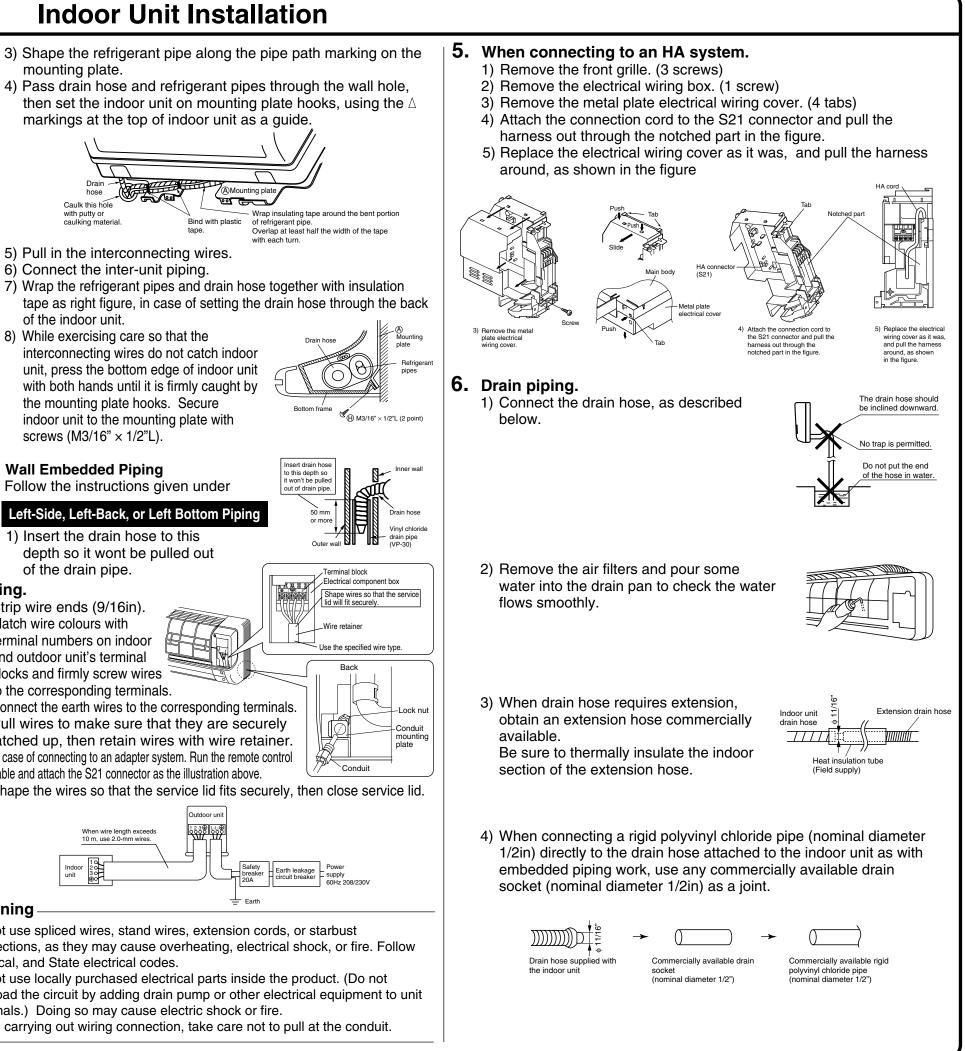
I.D. 0.551-0.630in I.D. 0.630-0.709in

Thickness 0.393in Min.

3) Use separate thermal insulation pipes for gas and liquid refrigerant pipes.

O.D. 1/4in

Thickness 0.031in



Run Test and Final Check

1. Trial Operation and Testing.

- 1-1 Measure the supply voltage and make sure that it falls in the specified range.
- 1-2 Trial operation should be carried out in either cooling or heating mode.
- In cooling mode, select the lowest programmable temperature; in heating mode, select the highest programmable temperature.
- 1) Trial operation may be disabled in either mode depending on the room temperature.
- Use the remote control for trial operation as described below. 2) After trial operation is complete, set the temperature to a normal level (78°F to 82°F in cooling mode, 68°F to
- 75°F in heating mode). 3) For protection, the unit disables restart operation for 3 minutes after it is turned off.
- 1-3 Carry out the test operation in accordance with the Operation Manual to ensure that all functions and parts, are working properly.
- The air conditioner requires a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption.
- If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

Trial Operation from Remote Controller.

- 1) Press ON/OFF button to turn on the system.
- 2) Simultaneously press centor of TEMP button and MODE button.
- 3) Press MODE button twice.
- (" 7^{-} " will appear on the display to indicate that Trial Operation mode is selected.) 4) Trial run mode terminates in approx. 30 minutes and switches into normal mode. To quit a trial operation, press ON/OFF button.

2. Test Items.

Test Items	Symptom	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling/heating function	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Drain line is properly installed.	Water leakage	
System is properly ground to earth.	Electrical leakage	
The specified wires are used for interconnecting wire connections.	Inoperative or burn damage	
Indoor or outdoor unit's air intake or exhaust has clear path of air. Shut-off valves are opened.	Incomplete cooling/heating function	
Indoor unit properly receives remote control commands.	Inoperative	