

INSTALLATION INSTRUCTIONS INDOOR UNIT

Model No.: S-180ME** S-224ME** S-24	80ME**
	Required tools for Installation W
	2 Flatriead screw driver 8 Reamer 10 Numi (1.4
R410A REFRIGERANT	3     Level gauge     9     Knife     42     Vem (4. 55       4     Electric drill, hole core     10     Gas leak detector     55     Nem (5. 67)       10     I/mm)     11     Measuring tape     65     Nem (6. 65       5     Hexagonal wrench     12     Thermometer     100     Nem (1. 100       6     Spanner     13     Megohmmeter     17     Gauge mail
This Air Conditioner contains and operates with refrigerant R410A.	Explanation of symbols displayed on the indoor unit or out
THIS PRODUCT MUST ONLY BE INSTALLED OR SERVIC QUALIFIED PERSONNEL. Refer to Commonwealth, State, Territory and local legisl	lation, CAUTION This symbol shows that the Instructions should be read
regulations, codes, installation & operating instructions, the installation, maintenance and/or service of this prod	This symbol shows that a se personnel should be handlin equipment with reference to
outdoor unit installation.	

regulati the inst Refer to Note: Ensure to hand over this installation instruction manual to the person performing the installation and inform the customer to keep it properly stored. SAFETY PRECAUTIONS Read the following "SAFETY PRECAUTIONS" carefully before installation Head the following SAFET PRECACITIONS Carefully before installation.
 Electrical work must be installed by a licensed electrician. Be sure to use the correct rating of the power plug and main circuit for the model to t
 The caution items stated here must be followed because these important contents are related to safety. The meaning of each indication used is Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is classified by the following indications. MARNING This indication shows the possibility of causing death or serious injury. A CAUTION This indication shows the possibility of causing injury or damage to properties only. The items to be followed are classified by the symbols:  $\bigcirc$ Symbol with white background denotes item that is PROHIBITED.  $\bullet$ Symbol with dark background denotes item that must be carried out. Carry out test running to confirm that no abnormality occurs after the installation. Then, explain to user the operation, care and maintenan in instructions. Please remind the customer to keep the operating instructions for future reference. Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. Any unfit method or using material may cause product damage burst and serious injury material may cause product damage, burst and serious injury. Do not install outdoor unit near handrail of veranda. When installing air-conditioner unit on veranda of a high rise building, child may climb up to outc  $\bigcirc$ cross over the handrail causing an accident. Do not use unspecified cord, modified cord, joint cord or extension cord for power supply cord. Do not share the single outlet with other electrical appli contact, poor insulation or over current will cause electrical shock or fire. Do not tie up the power supply cord into a bundle by band. Abnormal temperature rise on power supply cord may happen. Do not insert your fingers or other objects into the unit, high speed rotating fan may cause injury. Do not sit or step on the unit, you may fall down accidentally. Keep plastic bag (packaging material) away from small children, it may cling to nose and mouth and prevent breathing. When installing or relocating air conditioner, do not let any substance other than the specified refrigerant, eg. air etc mix into refrigeration cycle (pi of air etc. will cause abnormal high pressure in refrigeration cycle and result in explosion, injury etc. Do not pierce or burn as the appliance is pressurized. Do not expose the appliance to heat, flame, sparks, or other sources of ignition. Else, it may cause injury or death cause injury or death Do not add or replace refrigerant other than specified type. It may cause product damage, burst and injury etc. For R410A model, use new piping, flare nut and tools which is specified for R410A refrigerant. Using of existing (R22) piping, flare nut and tools
abnormally high pressure in the refrigerant cycle (piping), and possibly result in explosion and injury. For R32 and R410A, the same flare nut on
unit side and pipe can be use. Imit side and pipe can be use.
 Since the working pressure for R32/R410A is higher than that of refrigerant R22 models, replacing conventional piping and flare nuts on the outd Thickness for copper pipes used with R410A must meet the requirement. Refer to ① GENERAL piping thickness table in outdoor unit installation
 It is desirable that the amount of residual oil less than 40 mg/10 m. Engage authorized dealer or specialist for installation. If installation done by the user is incorrect, it will cause water leakage, electrical shock or fire For refrigeration system work, install according to this installation instructions strictly. If installation is defective, it will cause water leakage, electrical Use the attached accessories parts and specified parts for installation. Otherwise, it will cause the set to fall, water leakage, fire or electrical shock. Install at a strong and firm location which is able to withstand weight of the set. If the strength is not enough or installation is not properly done, the and cause injur For electrical work, follow the national regulation, legislation and this installation instruction. An independent circuit and single outlet must be use circuit capacity is not enough or defect found in electrical work, it will cause electrical shock or fire. 0 Do not use joint cable for indoor / outdoor connection cable. Use the specified indoor/outdoor connection cable, refer to instruction ③ ELECTRIC, and connect tightly for indoor/outdoor connection. Clamp the cable so that no external force will have impact on the terminal. If connection or fixing is it will cause heat up or fire at the connection. 0 Wire routing must be properly arranged so that control board cover is fixed properly. If control board cover is not fixed perfectly, it will cause fire or elev This equipment is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD). Otherwise, 0 electrical shock and fire in case of equipment breakdown or insulation breakdown During installation, install the refrigerant piping properly before running the compressor. Operation of compressor without fixing refrigeration piping a 0 pened position will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc. During pump down operation, stop the compressor before removing the refrigeration piping. Removal of refrigeration piping while compressor is o valves are opened will cause suck-in of air, abnormal high pressure in refrigeration cycle and result in explosion, injury etc. 0 Tighten the flare nut with torque wrench according to specified method. If the flare nut is over-tightened, after a long period, the flare may brea 0 efrigerant gas leakage After completion of installation, confirm there is no leakage of refrigerant gas. It may generate toxic gas when the refrigerant contacts with fire. Ventilate if there is refrigerant gas leakage during operation. It may cause toxic gas when the refrigerant contacts with fire. Be aware that refrigerants may not contain an odour. This equipment must be properly earthed. Earth line must not be connected to gas pipe, water pipe, earth of lightning rod and telephone. Otherwise, electrical shock in case of equipment breakdown or insulation breakdown. 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 Prevent liquid or vapor from entering sumps or sewers since vapor is heavier than air and may form suffocating atmospheres. Do not overcharge the unit, refer to gas charge specification in Outdoor Installation manual. Overcharge will cause over current and damage to a Do not release refrigerant during piping work for installation, re-installation and during repairing a refrigeration parts. Take care of the liquid refrigerant, it may cause frostbite.  $\bigcirc$ Do not install this appliance in a laundry room or other location where water may drip from the ceiling, etc. Do not touch the sharp aluminium fin, sharp parts may cause injury. Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water may enter the room and damage the furniture. Select an installation location which is easy for maintenance. Incorrect installation, service or repair of this air conditioner may increase the risk of rupture and this may result in loss damage or injury and/or pr Power supply connection to the room air conditioner. Use power supply cord type designation 60245 IEC 57 or heavier cord.

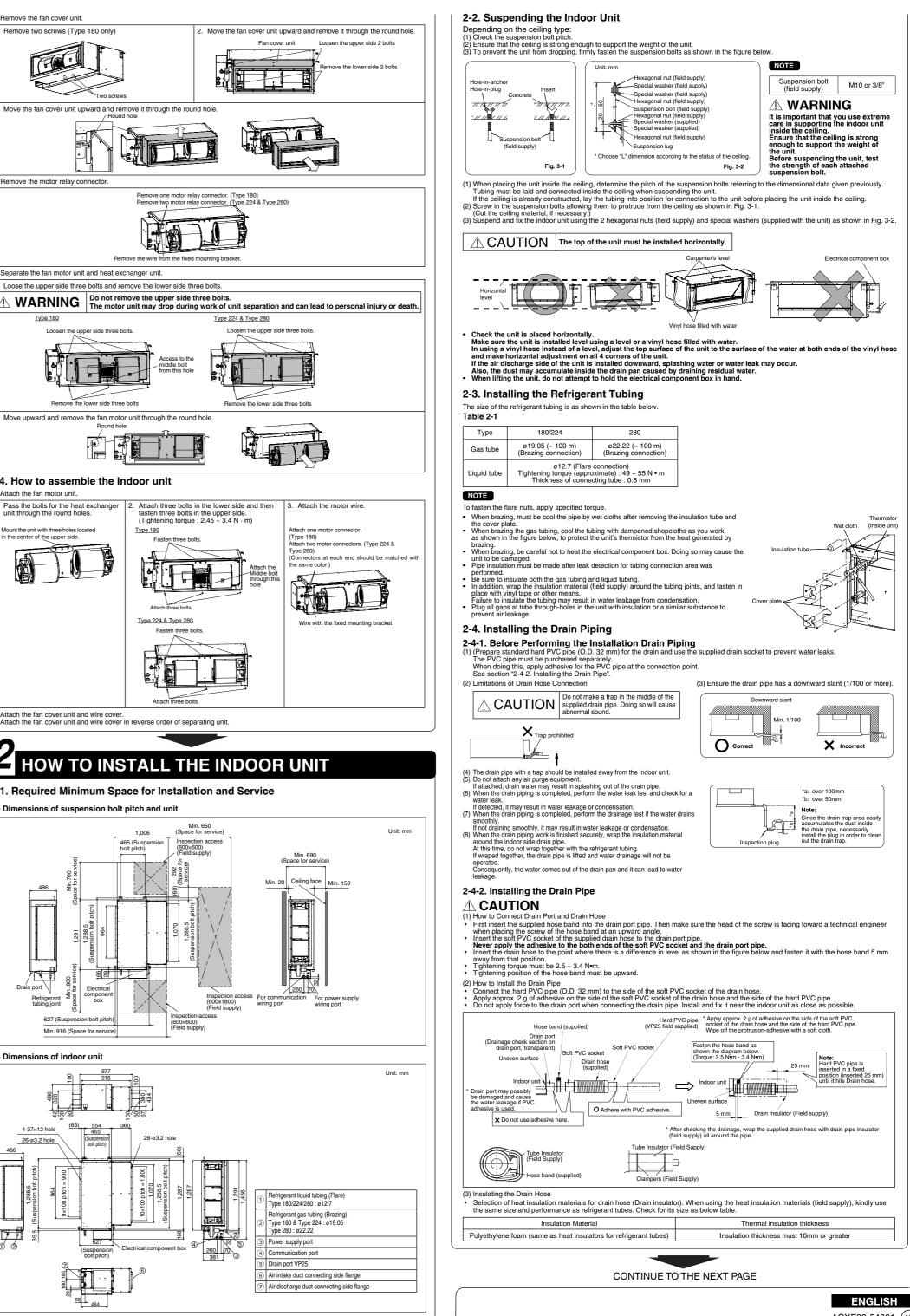
## Ω Connect the power supply cord of the air conditioner to a circuit breaker for the permanent connection It must be a double pole writch with a minimum 30mm contact gap. Power supply point should be in easily accessible place for power disconnection in case of emergency. nstallation work

0 It may need two people to carry out the installation work. Keep any required ventilation openings clear of obstruction.

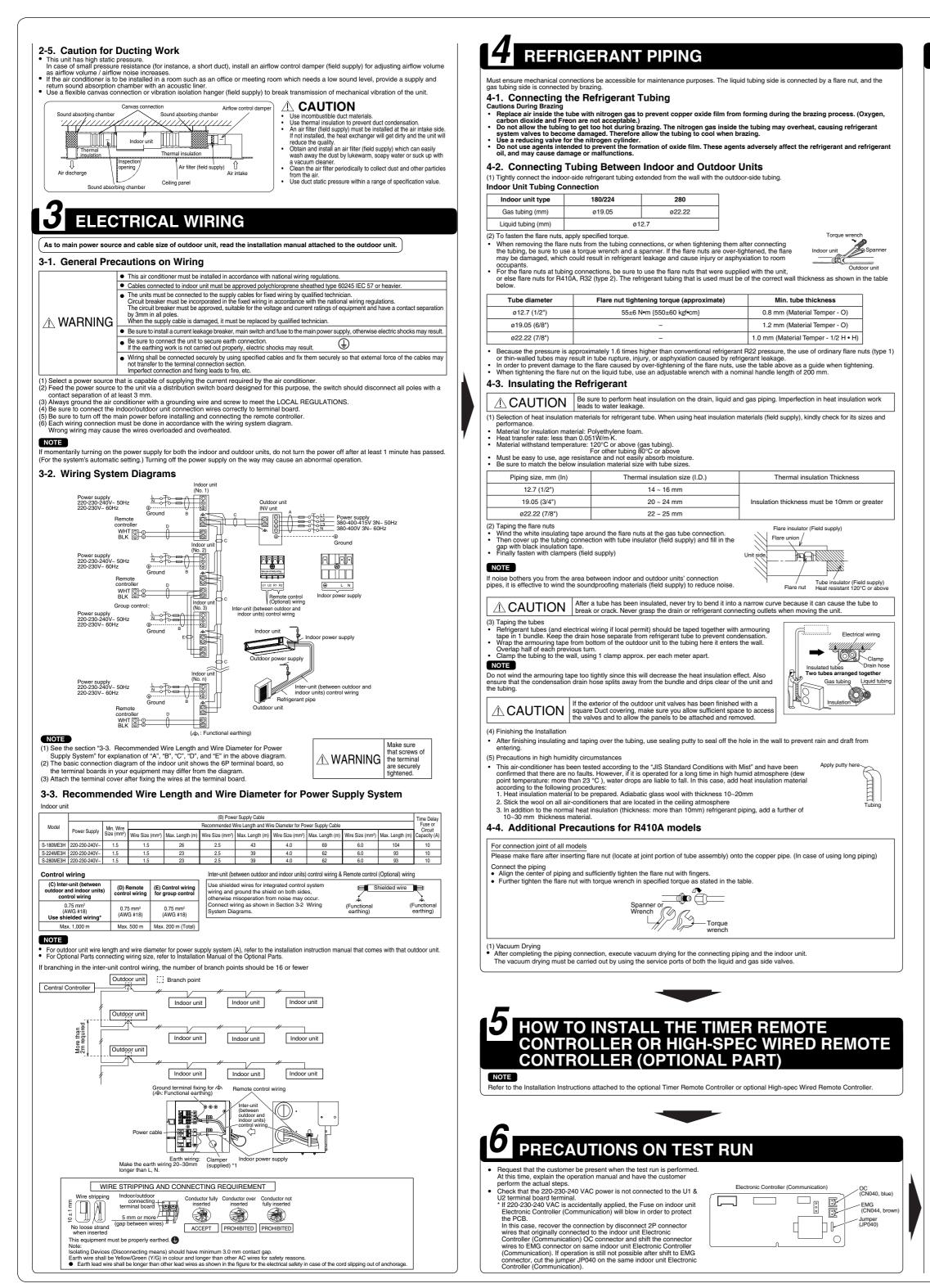
## (PRECAUTION FOR USING R410A REFRIGERANT)

	basic installation work procedures are the same as conventional refrigerant (R32, R22) models. vever, pay careful attention to the following points:
$\left( \bigcirc \right)$	Do not perform flare connection inside a building or dwelling or room, when joining the heat exchanger of indoor unit with interconnecting piping. Refrigerant connection inside a building or dwelling or room must be made by brazing or welding. Joint connection of indoor unit by flaring method can only be made at outdoor or at outside of a building or dwelling or room. Flare connection may cause gas leak and flammable atmosfere.
0	The appliance shall be stored, installed and operated in a well ventilated room with indoor floor area larger than Amin (m <sup>2</sup> ) [Refer to Check of Density Limit] and without any continuously operating ignition source. Keep away from open flames, any operating gas appliances or any operating electric heater. Else, it may explode and cause injury or death.
0	Refer to "PRECAUTION FOR USING R410A REFRIGERANT" in outdoor unit installation manual for other precautions that need to pay attention to.

		-	eck the gas density limit for a structure of the second structure of the secon					in
		umulate	e, since refrigerant gas is it is necessary to ensure that	heavier than air.				
exceed the limit level	I for that room. exceed the limit	level, it i	s necessary to provide an op		•			
	ILEHOCKEU WILH		(Total refrigerant c	-				
				ity 0.44 (kg/m³)				
The shipped outdoor (For the refrigerant c Minimum indoor volu Checking of limit de	r unit comes ch harge amount ime & floor are <b>ensity</b>	arged wi at shipm a as agai	is used in this unit is 0.44 kg th the amount of refrigerant f ent, refer to the unit's namep inst the amount of refrigeran	ixed for each type late.) t is roughly as give	en in the following		at is charged in	the field.
For instance, when ar	n indoor unit is u	used in a	size of a room using an indoo room (floor area 15 m <sup>2</sup> × ceilin f limit density (0.44 kg/m <sup>3</sup> ) that	ng height 2.7 m = r	oom volume 40.5 n			
Due to the room volur Maximum overall re = (room volume)	efrigerant cha		unt	m <sup>2</sup> m <sup>3</sup> 85 229				
= 40.5 (m³) × 0.44 = 17.82 kg	4 (kg/m <sup>3</sup> )	.,		80 - 210 75 - 203				$\square$
Required minimun	inimum room vo n <b>room volum</b>	olume sho e	ould be determined as follows	65 - 17	5.5 Rang	e below th	e	
= (overall refrige = 72.709 (kg) ÷ 0 = 165.25 (m <sup>3</sup> )	.44 (kg/m <sup>3</sup> )	mount) ÷	÷ (limit density)	(60 - 16 	2.0 0.44 8.5 0.44 not n	kg/m <sup>3</sup> ntermeasu eeded)	res	
Required minimum = (minimum roor = 165.25 (m <sup>3</sup> ) ÷ 2	m volume) ÷ (	ceiling h	eight)	20 - 0 13 20 - 0 10 20 - 0	1.5		/	
= 61.2 (m <sup>2</sup> ) Therefore an opening		s required	d.	8 e -	4.5		Range above the density limit of 0.44 kg/m <sup>3</sup>	
-			air conditioner: kg		7.5		(Countermeasure - needed)	is
= 72.709 (kg)			for unit. In )	15 - 40	4.0			
40.5 (m <sup>3</sup> ) = 1.80 (kg/m <sup>3</sup> ) > 0.44				5 - 10	7.0			
Accordingly, it is nece	essary to insta	ll a ventil	ation fan for this room.	0 1 0	0.0 2 10 20 30 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	40 50 mount of re		90 100 kg
ACCESSO	ORIES S	SUPP		DOOR UN				
Part Name Special washer	Figure	Q'ty 8	Remarks For indoor unit suspension	Part Name Hose band	Figure	Q'ty	Rem For securing of	
Drain hose		1	For drain hose connection	Clamper		2	For power sup	
							control wiring	
• 7 📩			INDOOR UN					
1-1. Indoor U					ALLAII		LUCA	
Provide a check po	ort on the pipin		iling for repair and maintena conditions are satisfied and		austomar approv	al		
<ol> <li>The indoor u</li> </ol>	unit must be wit	thin a ma	ny obstacles in path of the ai	•			r throughout the	e room.
<ul> <li>If the height from</li> </ul>	n the floor to ce	iling exce	eeds three meters, air flow dis	stribution deteriorat	tes and the effect is	decreas	ed.	
			e to support a load four times leat and sources of steam, bu	the indoor unit we				
<ol><li>The indoor u</li></ol>	unit must allow			it avolulity illistallati	on near an entrand			
			nection to the outdoor unit.					
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ACXF60-54861 (1/2) PRINTED IN MALAYSIA



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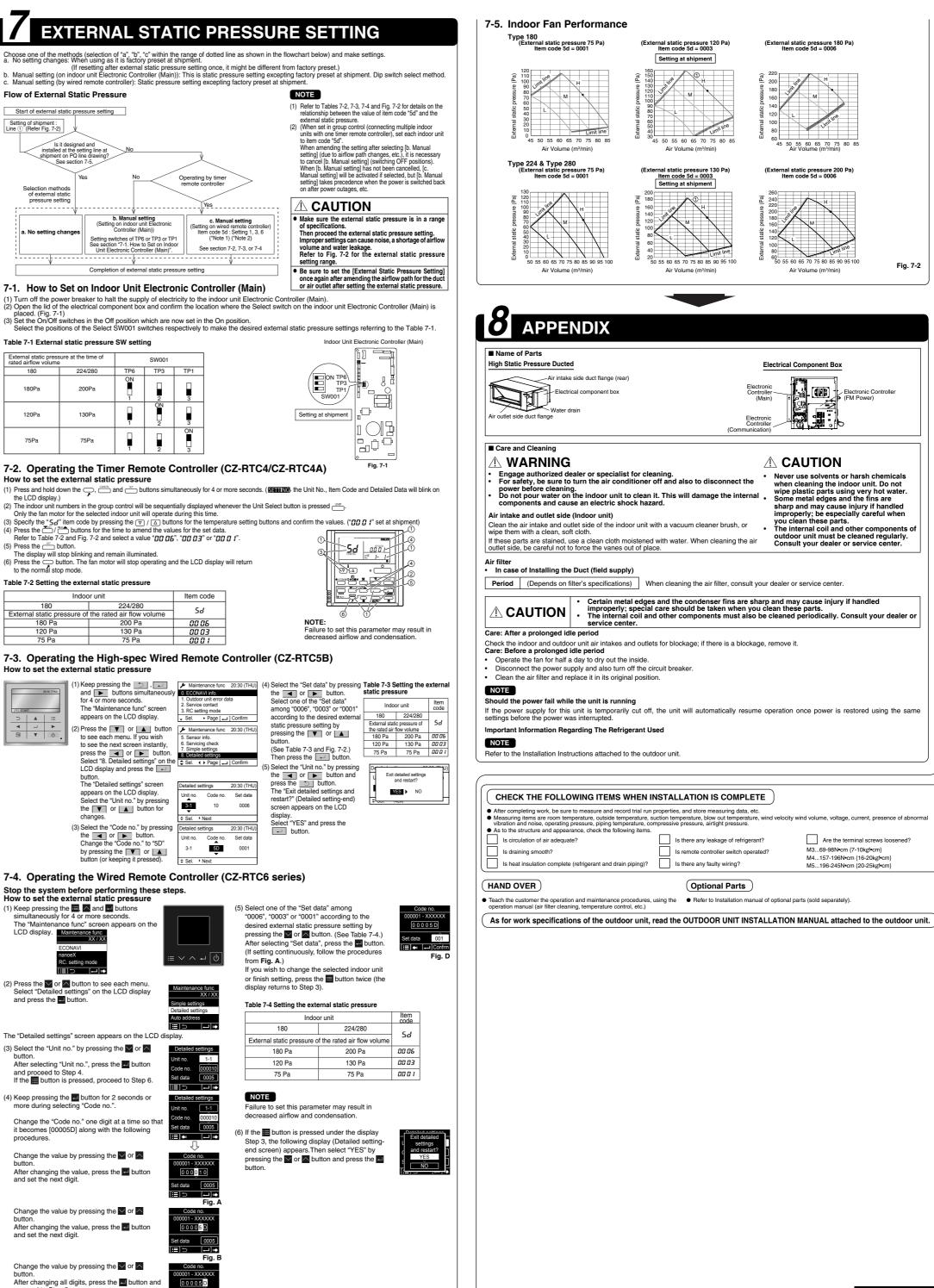
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proceed to Step 5.



ENGLISH The English text is the original instructions. Other languages are translation of original instructions

