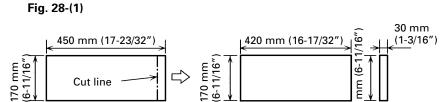


- Cut the drain hose insulation at a position approximately 30 mm from the end with cutters, etc. (Fig. 28-(1))
- Stick the large drain hose insulation at the drain hose installation
- Stick the small drain hose insulation at the drain cap side (Fig. 28-(3))



30 mm (1-3/16")

Fig. 28-(2)

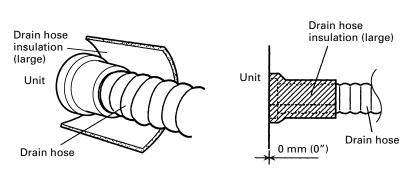
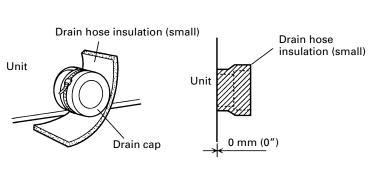


Fig. 28-(3)



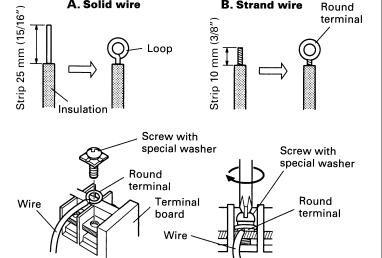
ELECTRICAL WIRING

HOW TO CONNECT WIRING TO THE TERMINALS

- A. For solid core wiring (or F-cable)
- (1) Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 25 mm (15/16") of expose the solid wire.
- (2) Using a screwdriver, remove the terminal screw(s) on the
- (3) Using pliers, bend the solid wire to form a loop suitable for the terminal screw.
- (4) Shape the loop wire properly, place it on the terminal board and tighten securely with the terminal screw using a screwdriver.

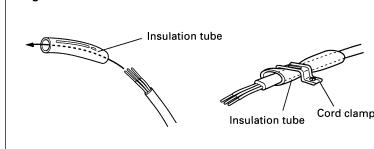
B. For strand wiring

- (1) Cut the wire end with a wire cutter or wire-cutting pliers. then strip the insulation to about 10 mm (3/8") of expose the strand wiring. (2) Using a screwdriver, remove the terminal screw(s) on the
- (3) Using a round terminal fastener or pliers, securely clamp
- a round terminal to each stripped wire end. (4) Position the round terminal wire, and replace and tighten
- the terminal screw with a screwdriver.



HOW TO FIXED CONNECTION CORD AND POWER CORD AT THE CORD CLANP

After passing the connection cord and power cord through the insulation tube, fasten it with the cord clamp.



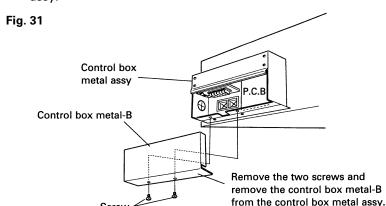
Use VW-1, 0.5 to 1.0 mm thick, PVC tube as the insulation tube.

WARNING

- Before starting work, check that power is not being supplied to the indoor unit and outdoor unit.
-) Match the terminal block numbers and connection cord colors with those of the indoor unit side. Erroneous wiring may cause burning of the electric
- 3 Connect the connection cords firmly to the terminal block. Imperfect installation may cause a fire.
- Always fasten the outside covering of the connection cord with cord clamps. (If the insulator is clamped,
- electric leakage may occur.) ⑤ Always connect the ground wire.

CAUTION

- 1) Select power cable matched to the fuse capacity. (Install in accordance with standard.)
- ② Use VW-1, 12 mm diameter, 0.5 to 1.0 mm thick, PVC tube as the insulation tube.
- 1. INDOOR UNIT SIDE
- (1) Remove the control box metal-B from the control box metal

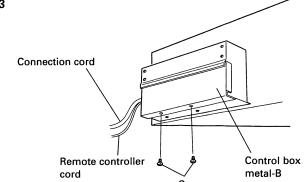


- (2) Connection cord and remote controller cord connections.
- Clamp the connection cord with the cable clamp and the remote controller cord with the nylon clamp.
- Connect the connection cord to the terminals with the white characters on the terminal nameplate.
- Connect the remote controller cord to the terminals with the black characters on the terminal nameplate.

Connection

! CAUTION

- 1) Tighten the indoor unit connection cord (to the outdoor unit) and power supply indoor and outdoor unit terminal board connections firmly with the terminal board screws. Faulty connection may cause a fire.
- 2) If the indoor unit connection cord (to the outdoor unit) and power supply are wired incorrectly, the air conditioner may be damaged.
- Wire the indoor unit connection cord (to the outdoor unit) by matching the numbers of the outdoor and indoor units terminal board numbers as shown in
- (4) Ground both the indoor and outdoor units by attaching a ground wire.
- **(5)** Unit shall be grounded in compliance with the applicable local and national codes.
- (3) Control box matel-B installation Fasten control box metal-B with the two screws. For the connection cord outlet port see Fig. 33.



2. OUTDOOR UNIT SIDE

- (1) Remove the terminal cover of the outdoor unit, and insert the end of the connection cord and the power cable into the terminal
- (2) Fasten the connection cord with the cord clamps, and install the terminal cover. L N 3 悉 1

Insulation tube (Use VW-1, 0.5 to 1.0 mm thick, PVC tube as the insulation tube) Connection cord After passing the connection cord through the insulation tube, fasten it with the cord

Indoor unit

Black White Control line

Outdoor unit

POWER

WARNING The rated voltage of this product is 1ø 220-240 V 50Hz.

- ② Before turning on verify that the voltage is within the 198 to 264V range.
- 3 Always use a special branch circuit and install a special receptacle to supply power to the air conditioner.
- 4) Use a special branch circuit breaker and receptacle matched to the capacity of the air conditioner. (Fuse/Breaker capacity : 30A)
- 5 The special branch circuit breaker is installed in the permanent wiring. Always use a circuit that can trip all the poles of the wiring and has an isolation distance of at least 3mm between the contacts of each pole.
- that the air conditioner can be operated safely and positively. 7 Install a leakage special branch circuit breaker in ac-

Perform wiring work in accordance with standards so

cordance with the related laws and regulations and

CAUTION

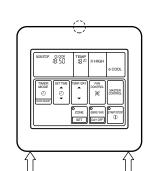
electric company standards.

- ① The power source capacity must be the sum of the air conditioner current and the current of other electrical appliances. When the current contracted capacity is insufficient, change the contracted capacity.
- 2) When the voltage is low and the air conditioner is difficult to start, contact the power company the vol-

REMOTE CONTROLLER INSTALLATION

When mounting the remote controller, refer to the enclosed REMOTE CONTROLLER INSTALLATION INSTRUC-TION SHEET. Then, make the necessary settings on both the remote controller and the main unit.

- Insert the end of a flat blade screwdriver at the arrow parts of the groove at the side of the remote controller case and remove the remote controller case top by turning the screwdriver.
- Disconnect the remote controller cord from the remote controller terminal board.



- (1) When remote controller exposed 1) Make a notch in the thin part (©part of Fig. 35) at the remote
- controller case top and bottom with nippers, file, etc. 2) Connect the remote controller cord to the remote controller terminal board specified in (Fig. 36).
- 3) Clamp the remote controller cord sheath with the binder (small) as shown in Fig. 36. 4) Cut off the excess binder.
- 5) Clamp the remote controller cord to a wall, etc. with the remote controller cord clamp furnished (Fig. 37).

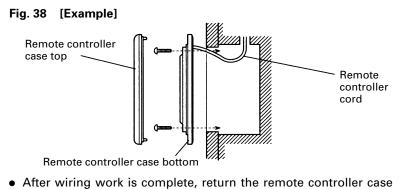
Remote controller cord

Remote controller cord

- (2) When remote controller cord embedded 1) Embed the remote controller cord and box.
- 2) Pass the remote controller cord through the hole at the remote controller case bottom and install the cord to the box. (Fig. 38) 3) Connect the remote controller cord to the remote controller terminal board specified in (Fig. 36).

Fig. 38 [Example]

top to its original state.



! CAUTION

- ① Do not bundle the remote controller cord, or wire the remote controller cord in parallel, with the indoor unit connection wire (to the outdoor unit) and the power supply cord. It may cause erroneous oper-
- When installing the remote controller and cord near a source of electromagnetic waves, separate the remote controller from the source of the electromagnetic waves and use shielded cord.
- 3 Do not touch the remote controller PC board and PC board parts directly with your hands.

TEST RUNNING

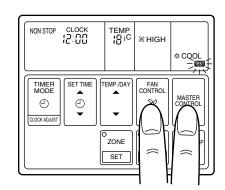
1. REMOTE CONTROLLER Supply power to the crankcase heater 12 hours before the start

of operation in the winter. For test running, when the remote controller FAN CONTROL button and MASTER CONTROL button are pressed simultaneously for more than three seconds when the air

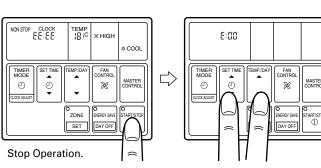
conditioner is not running, the air conditioner starts and TEST is

displayed on the remote controller display. However, the TEMP./DAY setting button does not function, but all other buttons, displays, and protection functions operate (Fig.

Fig. 39



• When EE: EE blinks at the current time display, there is an error inside the air conditioner. If the SET TIME button (▼) and TEMP./DAY button (▼) are pressed simultaneously for more than three seconds, the self diagnosis check will start and the error contents will be displayed at the current time display (Fig. 40). When the operation lamp lights, press the START/STOP button and after operation lamp goes off, perform the same operation (Fig. 40). Process the error contents by referring to (Table 6).



TIMER MODE OCOL SET TIME TEMP/DAY FAN CONTROL CONTROL CONTROL CONTROL DERBY SUE STABLISTOP SET DAY OFF	\Diamond	TIMER SETTIME MODE 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TEMP/DAY		MASTEF CONTRO			
Stop Operation.			- 1					
Table 6								

Error code	Error contents
E:00	Communication error
	(indoor unit remote controller)
F:[] {	Communication error
	(indoor unit outdoor unit)
E:02	Room temperature sensor open
E:03	Room temperature sensor shortcircuited
E:[]4	Indoor heat exchanger temperature sensor open
E:05	Indoor heat exchanger temperature sensor shortcircuited
E:OB	Outdoor heat exchanger temperature sensor open
E:On	Outdoor heat exchanger temperature sensor shortcircuited
E:OB	Power source connection error
E:09	Float switch operated
E:OA	Outdoor temperature sensor open
E:Ob	Outdoor temperature sensor shortcircuited
E:III	Discharge pipe temperature sensor open
E:0d	Discharge pipe temperature sensor shortcircuited
E:OE	Outdoor high pressure abnormal
E:[[F	Discharge pipe temperature abnormal
E: { {	Model abnormal
E: 12	Indoor fan abnormal
E: 13	Outdoor signal abnormal
E: /4	Outdoor EEPROM abnormal

- To stop test running, press the START/STOP button. • For the operation method, refer to the operating manual and per-
- form operation check. • Check that there are no abnormal sounds or vibration sounds during the test running.

2. OUTDOOR UNIT

When the outdoor temperature drops, the outdoor unit's fan may switch to low speed.

ERROR: HEAT & COOL MODEL (REVERSE CYCLE) ONLY The LED lamps operate as follows (Table 7) according to the error

The LED lamps are on the outdoor unit board.

Table 7

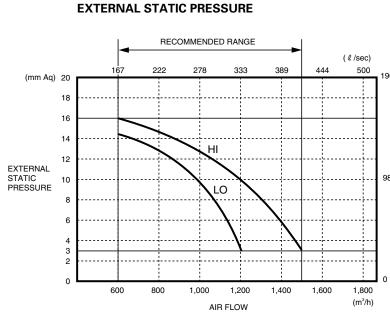
Error display

	порта у		
LED1	LED2	Error contents	
0.1 sec.	ON OFF	Model abnormal or EEPROM abnormal	
ck flash continued	Quick flash continued		
0.5 sec.	ON OFF	Power source connection error	
uick flash repeated	Lighting continued		
0.5 sec. 2 sec.	ON OFF	Discharge temperature sensor error	
uick flash repeated	Lighting continued		
0.5 sec. 2 sec. uick flash repeated	ON OFF	Outdoor heat exchanger temperature sensor error	
uick flash repeated	Lighting continued	Outdoor temperature sensor error	
uick flash repeated	Lighting continued	Communication signal error	
uick flash repeated	Lighting continued	Indoor unit error	
uick flash repeated	Lighting continued	Discharge temperature abnormal	
uick flash repeated	Lighting continued	High pressure abnormal	

When the fault is cleared, the LED lamp goes off. However, for discharge pipe temperature abnormal and high pressure abnormal, the LED lamp lights continuously for 24 hours, as long as the power is not turned off.

STATIC PRESSURE **CHARACTERISTIC**

FAN PERFORMANCE AND AIR FLOW



(1) Square duct

1. DUCT INSTALLATION PATTERN (■CUT PART) Fig. 42

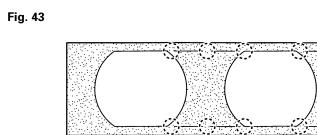
OUTLET DUCT CONNECTION



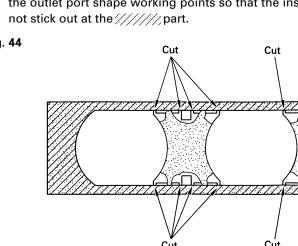


2. WHEN USING AS A SQUARE DUCT

(1) Cut the slit seam () with a cutter.



(2) Turn up the insulation around the points to be cut according to the outlet port shape working points so that the insulation dose

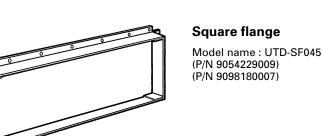


(3) Cut with nippers and remove the sheet metal. (4) Since there is a slit in the insulation, use radio pliers, tweezers, etc. to stretch tight the screw hole part used when installing the round flange and square flange when connecting the duct.

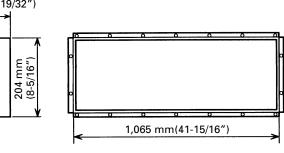
3. SPECIAL ITEMS

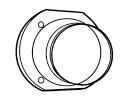
When connecting the square duct and round duct, use the optional

square flange or round flange and flexible duct.



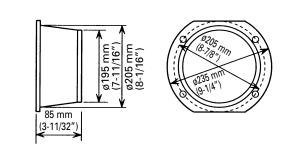
40 mm • Square flange dimensions (1-19/32")



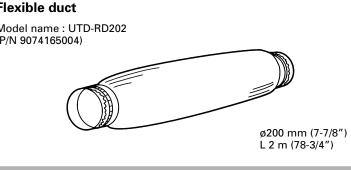


Round flange Model name : UTD-RF204 (P/N 9093160004)

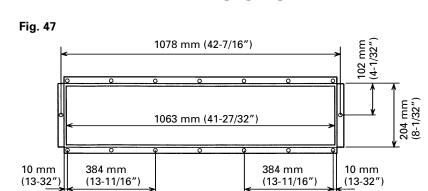
Round flange dimensions



Flexible duct Model name : UTD-RD202 (P/N 9074165004)



INTAKE PORT REAR COVER DIMENSIONS



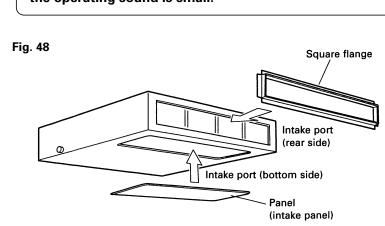
INTAKE PORT

flange (rear side) and panel (intake panel).

- (1) The square flange (rear side) and panel (intake panel) are instal-
- led at the factory at the places shown in Fig. 48. (2) When taking in air from the bottom side, reinstall the square

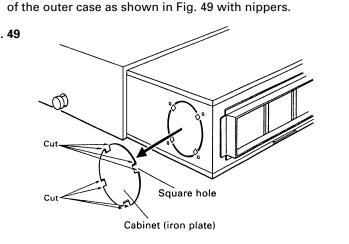
CAUTION

When air is taken in from the bottom side, the operating sound of the product will easily eater the room. Install the product and intake grilles where the affect of the operating sound is small.



FRESH AIR INTAKE (Processing before use)

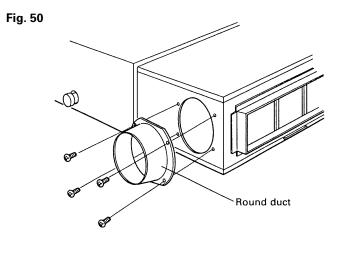
(1) When taking in fresh air, cut a slit shaped cabinet in the left side



CAUTION

- When removing the cabinet (iron plate), be careful not to damage the indoor unit internal parts and surrounding area (outer case).
- When processing the cabinet (iron plate), be careful not to injure yourself with burrs, etc.

(2) Install the round flange (option parts) to the fresh air intake.



(3) Connect the duct to the round flange. (4) Seal with a band and vinyl tape, etc. so that air dose not leak from the connection.

Fig. 51

