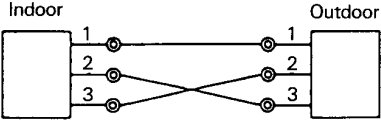
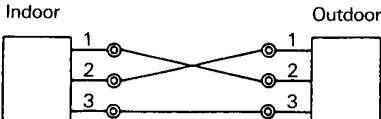
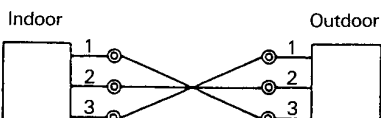


6. WRONG WIRING ON SITE

6-1 Between remote controller and indoor unit

If wire is disconnected between the remote controller and the indoor unit, the POWER ON display does not appear despite turning the power switch ON. The beep sound is not heard, either.

6-2 Phenomenon due to wrong wiring between indoor and outdoor units

Wrong wiring	Thermostat	Phenomenon
	OFF	Operation stops.
	ON	4-way valve is turned to ON. 9 minutes later, the check code "P8" appears on the remote controller display.
	OFF	The outdoor unit stops.
	ON	Operation stops. 9 minutes later, the check code "P8" appears on the remote controller display.
	OFF	The outdoor unit stops.
	ON	Operation stops. 9 minutes later, the check code "P8" appears on the remote controller display.
	OFF	The outdoor unit stops.
	ON	Operation stops. 9 minutes later, the check code "P8" appears on the remote controller display.
	OFF	The outdoor unit stops.
	ON	Operation stops. 9 minutes later, the check code "P8" appears on the remote controller display.
Disconnect between 1 and 1 or 2 and 2.	OFF	Operation stops.
	ON	9 minutes later, the check code "P8" appears on the remote controller display.
Disconnected between 3 and 3.	OFF	Normal operation
	ON	

7. OTHER TROUBLES AND CAUSES

Vanes do not work.

- Vane motor does not work.
- Limit switch does not work.
- Connector is badly connected.
- Vane motor is badly assembled.
- Indoor controller board has broken.
- Vane motor has broken.
- Vane motor relay has broken.
- Limit switch has broken.
- Size of cam is not proper.

Unit stops after 5 to 20 seconds. operation

— Protection function has worked.

- Refer to check code on remote controller display. See page 88~89.
- If drain pump has broken or coil frost protection has worked, operation does not stop only in 5 to 20 seconds

Air discharge display is OFF and air discharge UP/DOWN button is not available.

In this case, remote controller is normal.

- Indoor unit is regarded as without auto vane.
- Horizontal angle has not been detected.

- Indoor controller has broken.
- Dip switch setting is wrong.

- Indoor controller has broken.
- Vane motor has broken.
- Vane motor limit switch is badly connected.
- Auto vane is wired after power is turned to ON.

- Vane motor limit switch has broken.
- Vane motor is broken.
- Badly connect
- Disconnected

Power ON/OFF switch is not available.

- Beep sound is heard, but display is turned to OFF.

- Indoor/outdoor connecting wire is wrong connected.
- Indoor/outdoor connecting wire shorts.
- Compressor protector has broken.
- Deicer han broken.

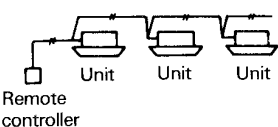
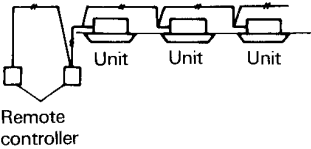
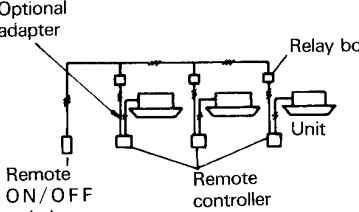
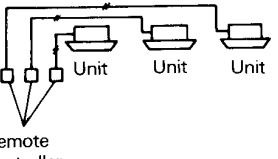
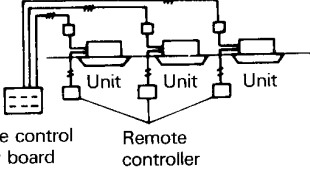
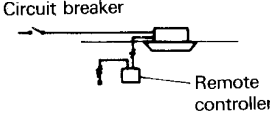
- Beep sound is not heard, and display remains OFF.

- Remote controller has broken.
- Transmission wire is badly connected.

- Transmission wire has broken.
- Connector is badly connected.
- Indoor terminal block is badly connected.
- Remote controller terminal block is badly connected.

— "Centrally controlled" is displayed.

1. VARIETY OF SYSTEM CONTROL FUNCTIONS

1 Group control by a single remote controller. (See page 96.)	 Remote controller	A number of units, installed at different locations can be started and controlled with a single remote controller. The remote controller can be mounted in a remote location using a non-polar two-wire cable, which can be extended up to 550 yards. A maximum of 50 units are controllable by a single remote controller. All units operate in the same mode.
2 Control using two remote controllers (See page 97.)	 Remote controller	Two remote controllers can be used to control either one unit or several units in group control. This enables to control units with ease either from a distance or at close range. Units operate according to the latest command from either remote controller.
3 Both remote ON/OFF and individual controls (See page 97.)	 Optional adapter Remote ON/OFF switch Relay box Remote controller	All units can be turned on or off simultaneously using the remote ON-OFF switch. Besides each unit can be controlled individually by each remote controller. During remote ON-OFF control, a message of "CENTRALLY CONTROLLED" is displayed on the LCD of the remote controller. This method is available for both one unit control and several units control.
4 Individual control by gathering remote controllers (See page 98.)	 Remote controller	By gathering remote controllers to one place, several units installed at different locations can be controlled individually, and operation conditions of all units are visible without a special control board. Control method is the same as that of the single unit with a single remote controller.
5 Multiple remote control display (See page 99.)	 Remote control display board Remote controller	Several units can be controlled by remote control display board. Operation conditions of all units are visible with the remote control display board. Individual control by each remote controller is also available.
6 AUTO RESTART FUNCTION (See page 99.)	 Circuit breaker Remote controller	Units can be started or stopped by circuit breaker on or off. Remote controller is also available. By this function, when the power is restored after power failure, the unit restarts automatically.

2. GROUP CONTROL BY A SINGLE REMOTE CONTROLLER

A maximum of 50 units can be started in order according to the dip switch setting.

2-1 How to wire

- (1) Connect the remote controller to the double terminal block on the indoor controller board of the master unit, that is, No.0 unit. (See Figure 1.)
- (2) Connect the double terminal block of the master unit to the double terminal block of No.1 unit.
- (3) Connect the double terminal block of No.1 unit and the double terminal block of No.2 unit.
- (4) Continue the process until all the units are connected with two-wire cables. (See Figure 2.)
- (5) Remove the connector CN40 from the indoor controller board of each unit except the master unit. (See Figure 3.)
- (6) Set the unit-address of each unit with SW2 on the indoor controller board following the instruction below.

Figure 1

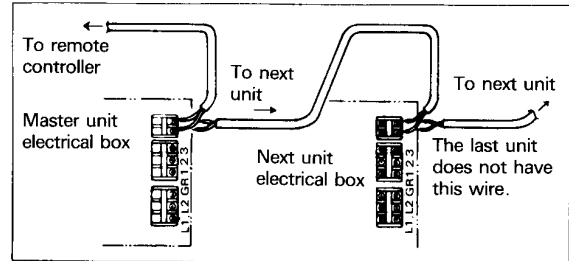


Figure 2

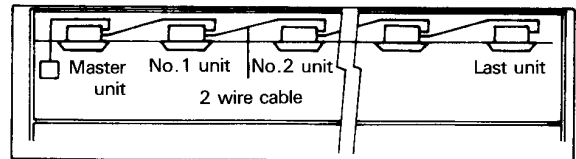
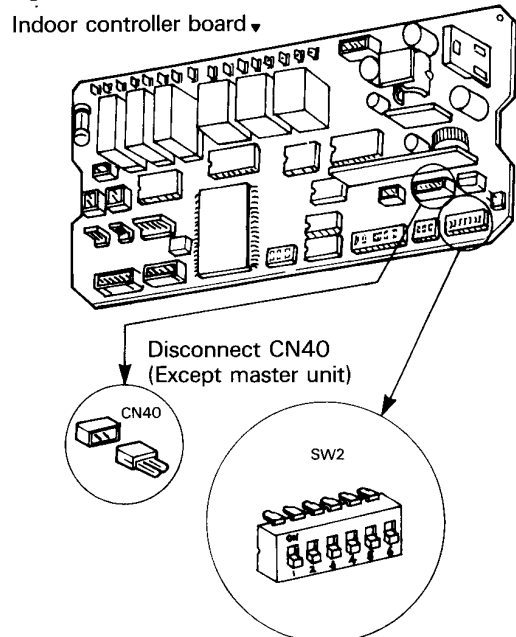


Figure 3



2-2 How to set unit-address

The unit-address also serves as a successive-start timer which start each unit at intervals of 1 second. If two or more units have the same unit-address in the group control, operation stops due to system error. Be sure to set SW2 correctly following the instructions below.

- (1) Each lever of SW2 shows the number as follows.
 - SW2-1 : 1 SW2-4 : 8
 - SW2-2 : 2 SW2-5 : 16
 - SW2-3 : 4 SW2-6 : 32
- (2) Total number of levers turned to ON shows the address of the unit.
 - If you turn ON SW2-1 and SW2-2, the unit-address is set as No.3.
- (3) In this way, set from the master unit to the last unit.
 - Do not forget to set the master (No.0) unit.

Setting examples

	Master (No.0) unit	No.1 unit	No.2 unit	No.4 unit	No.8 unit	No.16 unit	No.32 unit
SW2	ALL OFF 	1 ON 	2 ON 	3 ON 	4 ON 	5 ON 	6 ON
Unit address & start delay in seconds.	0	1	2	4	8	16	32

2-3 Unit control

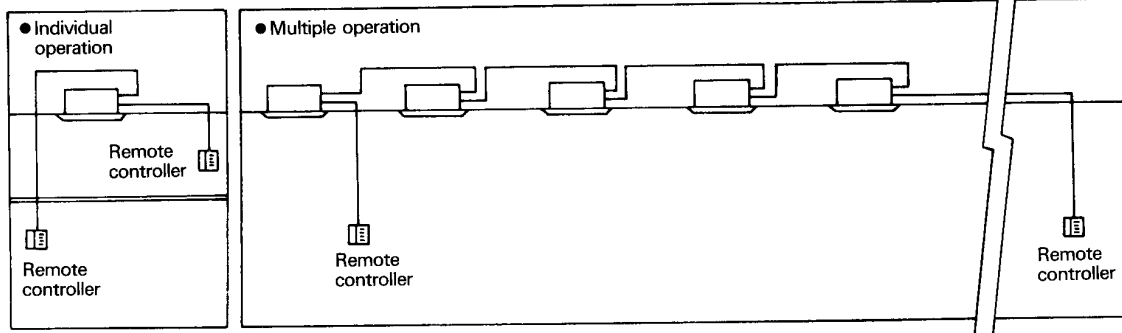
The remote controller can control all unit ON/OFF, temperature, air flow, and swing louver. However, the thermostat in each unit turns to ON or OFF individually to adjust the room temperature.

3. CONTROL USING TWO REMOTE CONTROLLERS

Two remote controllers are available for control of either one unit or a group of units. Units operate according to the latest command from either of the two remote controllers.

However, before operation, be sure to set one remote controller for "main controller" and the other for "sub controller", using dipswitch SW17-7 of the remote controller.

Figure 4



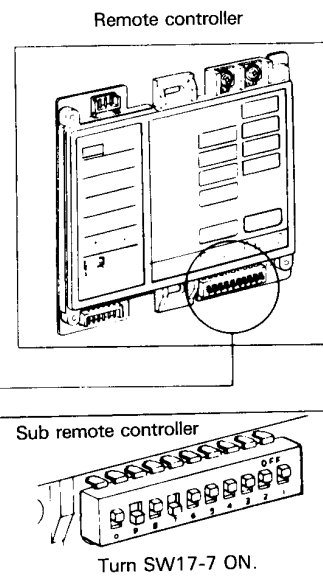
3-1 How to set SW17-7

- (1) For the main remote controller, turn SW17-7 OFF. (See Figure 5.)
- (2) For the sub remote controller, turn SW17-7 ON.

3-2 Remote controller LCD indication

- (1) The same indication always appears on both main and sub remote controllers, excepting in the timer operation operation.
- (2) Timer operation can be set with either of the two remote controllers. However, LCD indication appears only on the remote controller used for timer setting.
- (3) If both remote controllers are set for timer operation with different time-settings, the timer operation of shorter remaining-time is effective.
- (4) Self-diagnostic function is available with either of two remote controllers. If one of the remote controllers is used for self-diagnostic function, the other remote controllers displays the self-diagnostic mode. If the self-diagnostic function is reset by either of the two remote controllers, both remote controllers are reset.

Figure 5



4. REMOTE ON-OFF AND INDIVIDUAL REMOTE CONTROLS

This method is available to control one unit or any number of units.

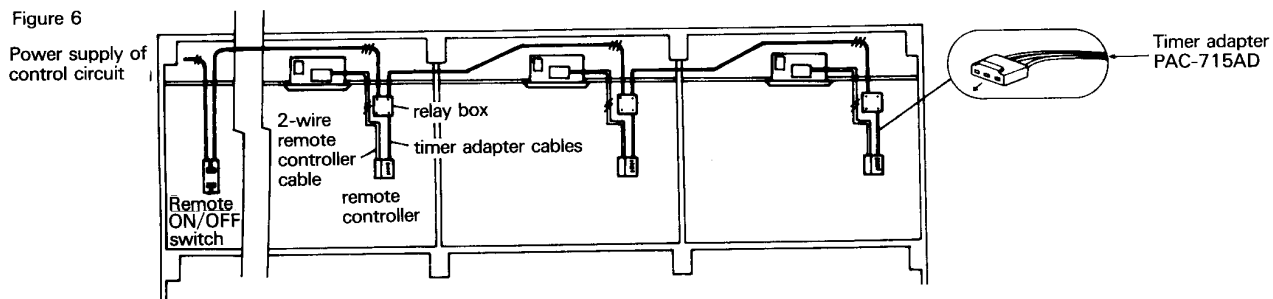
The following operations are available by connecting a relay, timer adapter, and remote ON/OFF switch to the system. Timer adapter, PAC-715AD, is an optional part. Other parts are on the market.

- (A) To start all units in order by remote ON-OFF switch
- (B) To stop all units simultaneously by remote ON-OFF switch
- (C) To switch from the remote ON-OFF control to the individual remote control

4-1 System

Figure 6 shows the case of three units as an example. The same is the case with any number of units.

Figure 6



NOTE1: Install the relay box where you can service easily.

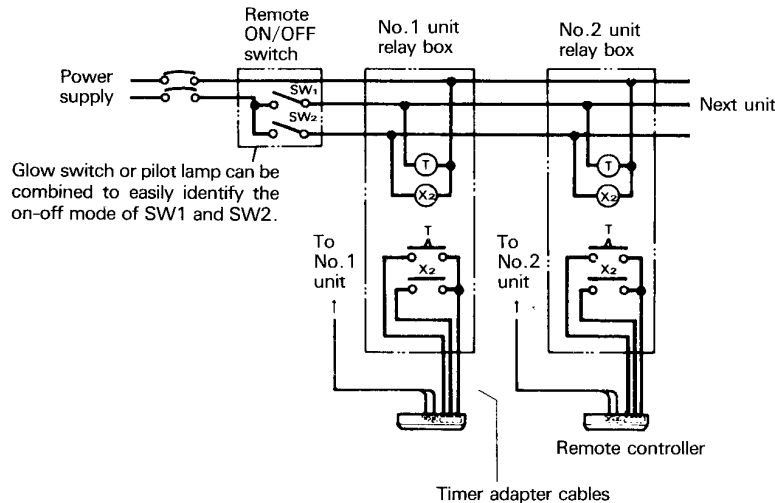
NOTE2: For control circuit wiring, use a wire of No.14 AWG or a control cable according to the power supply of control circuit.

NOTE3: When the power supply of control circuit is 208V/230V AC,

- Do not connect the control circuit wire to the remote controller cable directly.
- Do not place the control circuit wire and the remote controller cable into the same conduit tube.

4-2 Basic wiring

Caution: Before starting all units simultaneously by the remote ON-OFF switch, be sure to connect a sequence-start timer into the remote ON-OFF circuit. Otherwise, rush of starting current exert a bad influence upon the power supply.



4-3 Switch function of remote ON-OFF switch

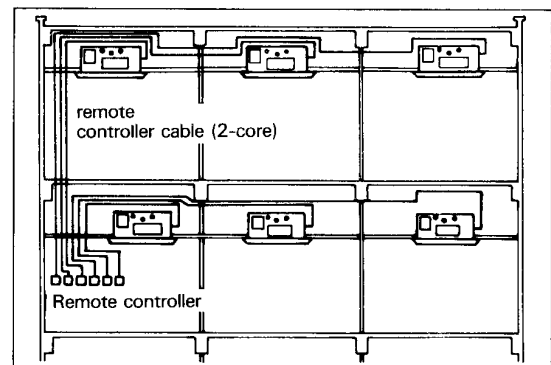
		SW2 (Switches between remote ON-OFF and individual control)	
		ON (Remote ON-OFF control)	OFF (Individual control)
SW1 (Switches between remote ON and OFF.)	ON (Start)	All units start together. * 1 Individual control is not available.	Each unit can be controlled by each remote controller. Remote ON-OFF switch is not available.
	OFF (Stop)	All units stop together. * 2 Individual control is not available.	

* 1 After all units start together, if SW2 is turned to OFF, each unit can be individually stopped by each remote controller.

* 2 After all units stop together, if SW2 is turned to ON, each unit can be individually started by each remote controller.

5. INDIVIDUAL CONTROL BY GATHERING REMOTE CONTROLLERS.

- Gathering remote controllers allows controlling individually units installed at different places and to monitor the operations without a special control board.
- Remote control cable is extendable up to 550 yards. When the cable length exceeds 39 ft, use the double-insulated two-core cable such as Belden 9407, and the cable thickness must be No.22 AWG or above.
- When gathering the power ON/OFF switches of air conditioners near the remote controllers, you should also install the power ON/OFF switch near each unit to prevent electric trouble in servicing.



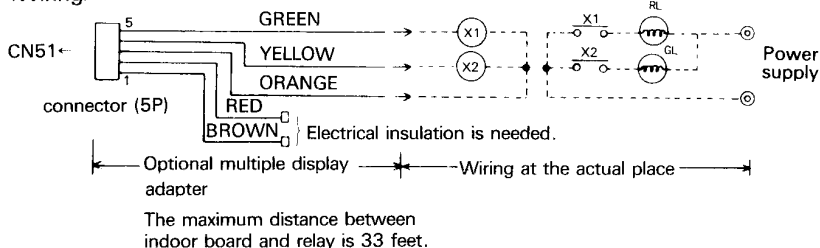
6. MULTIPLE REMOTE CONTROL DISPLAY

You can control several units by multiple remote control display, if you wire an optional multiple display adapter (PAC-725AD) with relays and lamps on the market.

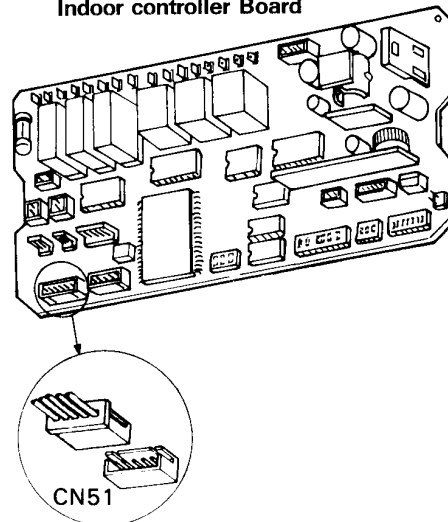
6-1 How to wire

- (1) Connect the multiple display adapter to the connector CN51 on the indoor controller board.
- (2) Wire three of the five wires from the multiple display adapter as shown in the below figure.

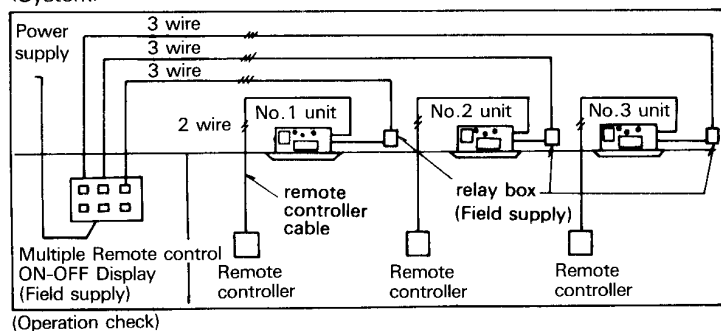
<Wiring>



Indoor controller Board



<System>



[Notes on Signs]

X1: Relay (for check lamp)

X2: Relay (for operation lamp)

RL: Check Lamp

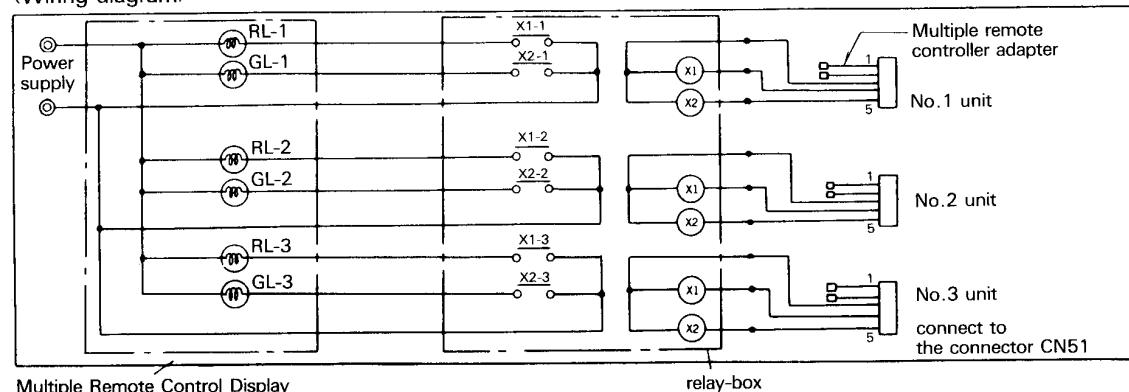
GL: Operation Lamp

[Field supplied parts]

Relays: DC 12V with rated coil power consumption below 0.9W.

Lamps: Matching to power supply voltage

<Wiring diagram>



Multiple Remote Control Display

relay-box

7. AUTO RESTART FUNCTION

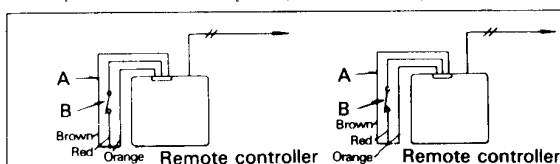
Unit can be started or stopped by power supply ON or OFF.

Therefore, after power failure, when the power is restored, the unit restarts automatically.

To enable this function, turn ON the dipswitch SW1-10 on the indoor controller board.

For remote control, connect the optional timer adapter (PAC-715AD).

<Wiring>



A : an optional timer adapter

B : a single-throw switch

11

TIMER OPERATION WITH OPTIONAL PARTS

- The remote controller is equipped with 24-hour ON/OFF timer as standard. (See page .)
- Optional program timer (PACSK65PT) can be connected to the remote controller.
- Timer on the market is available. In this case, optional timer adapter (PAC-715AD) is necessary.

1.PROGRAM TIMER

1-1 Feature of program timer

(1) Daily timer function

Twenty-four hours of a day are equally divided into 48 time-periods, that is, a time-period is 30 minutes.

Each time-period can be set for unit ON, unit OFF, or setback operation.

(2) Setback operation

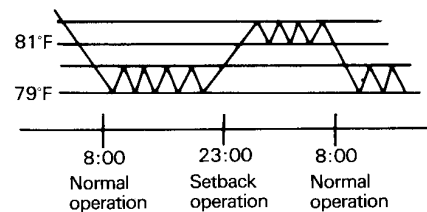
Set back operation is useful to reduce running cost.

e.g. Cooling operation at a hotel of the 24-hour system

8:00~23:00 Cooling operation with set temperature at 79°F

23:00~8:00 Setback operation with 2 degrees of setback

As shown in the right chart, the set temperature rises 2 degrees automatically during the setback operation. When the setback operation ends, normal operation starts.

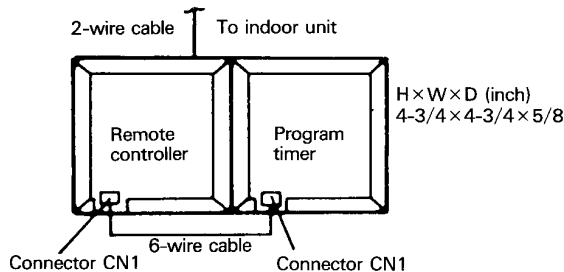


(3) Weekly timer function

Daily timer function can apply to each day of the week.

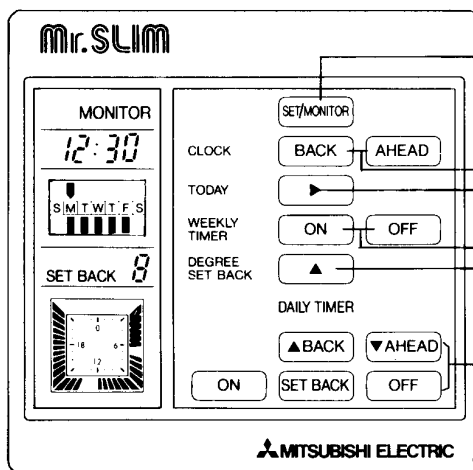
1-2 How to connect program timer

- (1) Install the program timer next to the remote controller in the same way the remote controller is installed. The program timer has the same dimensions at that of the remote controllers.
- (2) Connect the program timer and the remote controller with 6-wire cable as shown in the below figure.



NOTE: While the program timer is connected to the remote controller, the 24-hour ON/OFF timer of the remote controller is not available.

1-3 How to use program timer



Square shows switch and " " means display.

- Mode selector switch : Use this switch to select "MONITOR" or "SET".

"MONITOR" Displays the current timer setting status. All other switches except SET/MONITOR are not available and this is the normal status.

"SET" Use this for setting of time, changing day of the week, daily and weekly timer.

- CLOCK adjustment switch: Used for adjustment of current time.

- TODAY (day of the week) set switch: Used for adjustment of day of the week.

Pressing changes the day, in the order Mon, Tue, Wed...

- WEEKLY TIMER switch: Sets timer for a week.

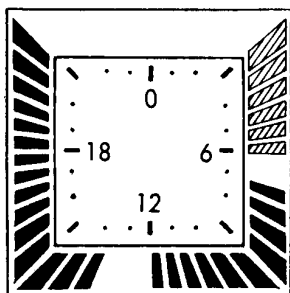
- DEGREE SET BACK switch: Sets the set back amount.

Set back can be set in 2 degree units in the range of 2 to 18 degrees.

- DAILY TIMER switch: Sets timer for SET BACK 1=2 deg
1 day.

2=4 deg
:
9=18 deg

(1) Daily timer setting procedure



i) Daily timer display

Each block shows timer setting of the time-period by three patterns of LED.

Lighting Normal operation

Blinking Setback operation

OFF No operation

As an example, the left figure shows:

7:00 to 12:00, 13:30 to 21:00 lighting → Normal operation

3:00 to 6:00 (hatched section) blinking → Setback operation

21:00 to 3:00, 6:00 to 7:00, 12:00 to 13:30 OFF → No operation

ii) DAILY TIMER setting procedure

(1) Press **SET/MONITOR** and switchover to "set" mode.

(2) One block blinks to show the current time. Move the blinking block by **▲BACK** or **▲AHEAD** switch to the time to set. (If there are blocks already set for "set back operation", the blocks are blinking more slowly than the current time block.)

(3) Set the timer for each block as follows :

[For operation ON] → press **ON** → the block lights → the next block blinks.

[For SET BACK operation] → press **SET BACK** → the block blinks → the next block blinks.

[For operation OFF] → press **OFF** → the block turns OFF → the next block blinks.

Continuous pattern setting can be done by pressing the switch continuously.

(2) WEEKLY TIMER setting procedure

i) Weekly timer display

Upper row ... A lighting LED shows "today".

Lower row ... Each LED displays if the daily timer is ON or OFF.

ii) Weekly timer setting procedure

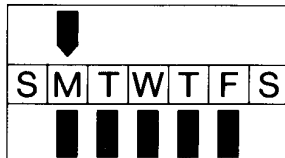
(1) Press **SET/MONITOR** and switch over to "SET" mode.

(2) Today's LED blinks in the lower row. To apply the daily timer, press the WEEKLY TIMER **ON** switch. Not to apply the daily timer, press the WEEKLY TIMER **OFF** switch.

(3) Then set in the same way as (2).

(4) Repeat procedure as described in (2) and (3) until all of 7 days are set.

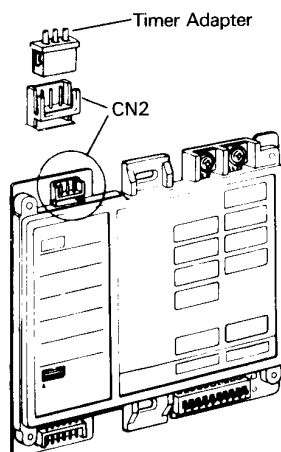
(5) When setting is completed, press **SET/MONITOR** switch to return to "MONITOR" mode.



2. TIMER ADAPTER

With the optional timer adapter (PAC-715AD), a timer on the market can be connected. Connect the timer adapter to the remote controller and wire as shown in the below figure. If more than 33 feet of wiring is needed to connect the remote controller and the timer, use a relay.

NOTE: Be sure to use a non-voltage contact output timer with load and timer power supply having different circuits.



<Wiring> T...Timer Contact
SW...Switch

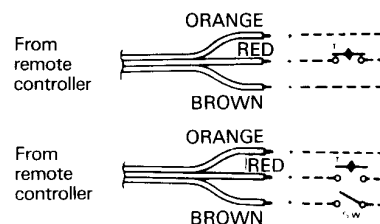
1. Independent Timer Operation

Remote controller operation switch becomes idle.

2. Combined Use of Timer and Remote Controls

SW ON Timer control

SW OFF Remote Control Operation

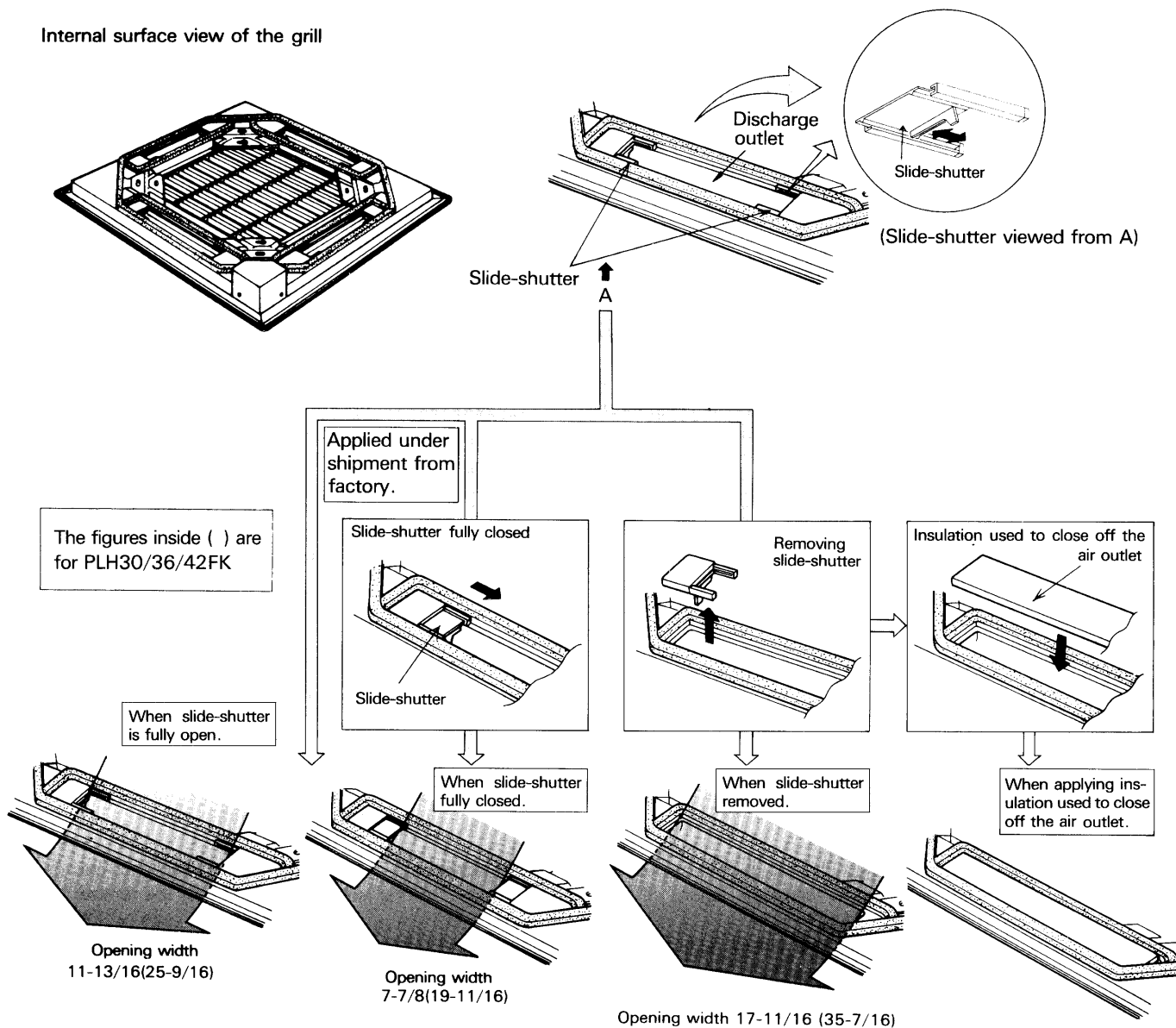


12 4-WAY AIR FLOW SYSTEM (SERIES PLH)

Using this grill enables to select the air discharge direction. The air flow can also be regulated by adjusting the widths of each discharge outlet. Choose the adequate method according to the conditions in the room where the panel is to be installed.

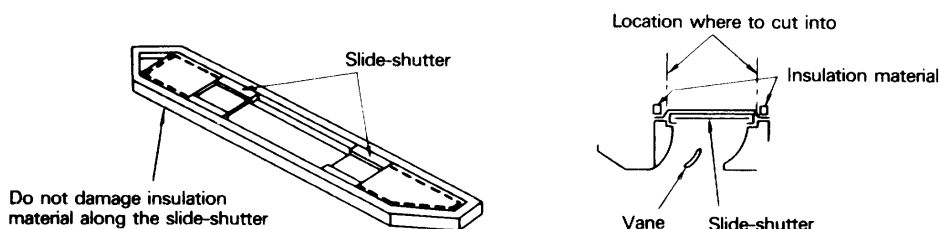
* For 2-direction discharge, the widths of the outlets must be under a fully opened condition.

Internal surface view of the grill



Adjusting the discharge outlets (Only when discharge outlets are fully opened or closed).

- Remove slide-shutter by cutting into the broken-lines using a cutter. When doing so pay attention not to damage the insulation around the slide-shutter.



Opening measurements for PLH30/36/42FK are within().

Unit : inch

■ Adjustment examples of discharge direction & air flow

● Regular ceiling height

When ceiling is of regular height (For example 8.2ft) set each outlet at a standard width (11-13/16).

● Relatively high ceiling

Set the outlets during installation.

The outlet width can be adjusted in the range of 7-7/8 to 11-13/16 using the slide knob.

● High ceiling

Adjust each outlet width to 7-7/8 to enable air to reach maximum distance. Applicable for rooms with ceiling height of 9.8ft.

● 4-direction air discharge

Remove slide-shutter at installation and adjust the outlet width to 17-11/16. Close remaining outlets to selected width.

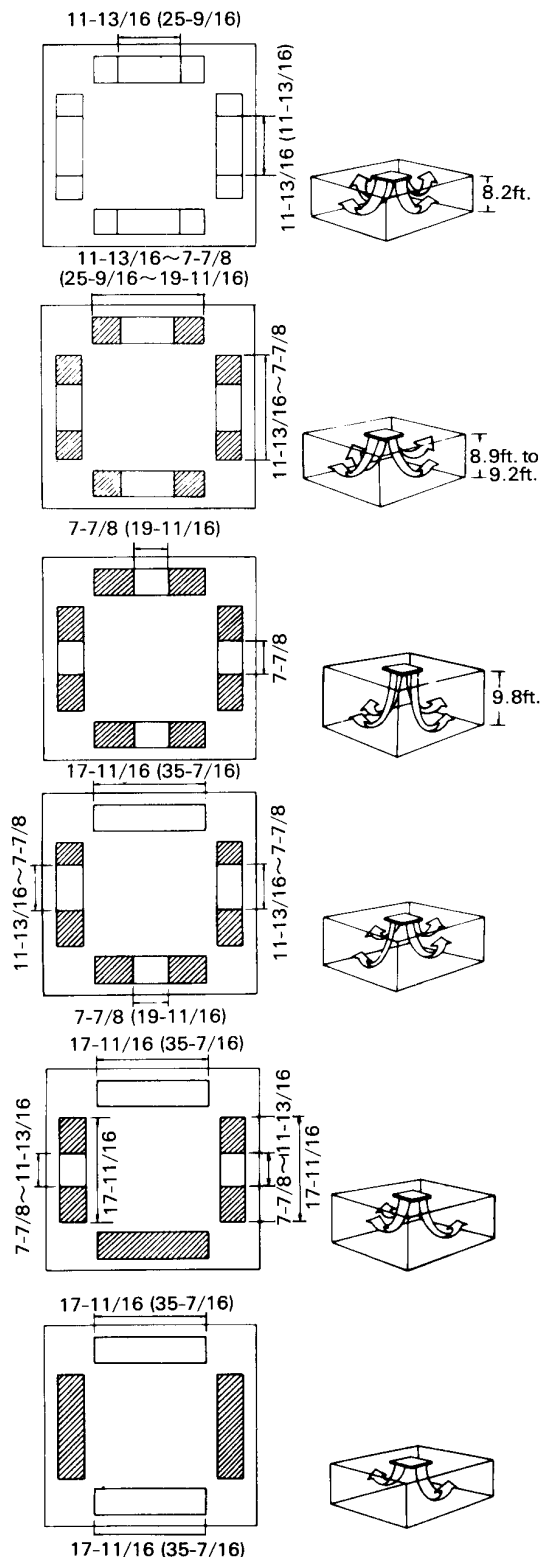
● 3-direction air discharge

During installation close one outlet and shield it with the insulation panel. Adjust widths of remaining 3 outlets to match the room space.

● 2-direction air discharge

During installation close two outlets and fully open (17-11/16 width) the remaining 2.

* For 30/36/42EK, open the longer outlets and close the shorter outlets.



Selecting arrangement of discharge outlet and adjusting the width for PLH18/24FK.

Constrained Conditions When Selecting Discharge Outlet Width.
(PLH18/24FK)

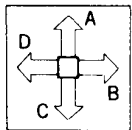
Total width of four outlets must exceeds 31-1/2.

Unit : inch

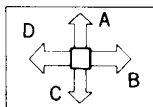
Room pattern (ratio of room length and width)	Discharge outlet ※ Ceiling height		A	B	C	D	Examples of application Precautions
	①	②					
1 (1 : 1)	①	7.9	11-13/16	11-13/16	11-13/16	11-13/16	(1)When the outlet A is close to a window, widen A and narrow C to raise the cooling power of A. e.g. ①-A : 11-13/16 → 17-11/16 ①-C : 11-13/16 → 7-7/8 (2)When ceiling height exceeds 9.5ft adjust 4 outlets to 7-7/8 each or 2 outlets to 17-11/16 each.
	②	8.9	9-13/16	9-13/16	9-13/16	9-13/16	
2 (1 : 1.5)	①	7.9	9-13/16	11-13/16	9-13/16	11-13/16	
	②	8.9	7-7/8	11-13/16	7-7/8	9-13/16	
3 (1 : 2)	①	7.9	7-7/8	17-11/16	7-7/8	17-11/16	When the outlet B is close to a window, narrow D to 11-13/16. However, in case of ②, do not narrow D.
	②	8.9	0	17-11/16	0	17-11/16	
4 (1 : 1)	①	7.9	0	7-7/8	17-11/16	7-7/8	Total width of all outlets must exceed 31-1/2. The width of B and D is to be 9-13/16 when the ceiling height is 8.9ft.
	②	8.9	0	9-13/16	11-13/16	11-13/16	
5 (1 : 1)	①	—	17-11/16	17-11/16	0	0	In this case, other widths are not available.

When ceiling height is 7.9 feet.

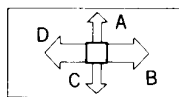
1-①



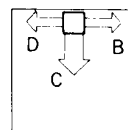
2-①



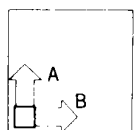
3-①



4-①

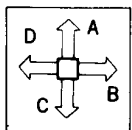


5-①

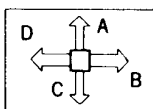


When ceiling height is 8 to 8.9 feet.

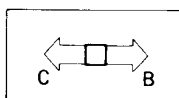
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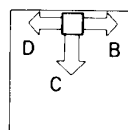
2-②



3-②



4-②



Selecting arrangement of discharge outlet and adjusting the width for PLH30/36/42FK.

Constrained conditions when selecting discharge outlet Width.
(PLH30/36/42FK)

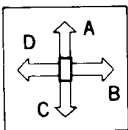
Total width of four outlets must exceed 55-1/8.

Unit: inch

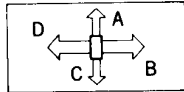
Room pattern (ratio of room length and width)	Discharge outlet * Ceiling height		A	B	C	D	Examples of application Precautions
	①	②					
6 (1 : 1)	①	7.9	17-11/16	25-9/16	17-11/16	25-9/16	When the unit is installed near a window, the longer outlet (B or D) must be in direction of the window.
	②	8.9	11-13/16	19-11/16	11-13/16	19-11/16	
7 (1 : 2)	①	7.9	11-13/16	25-9/16	11-13/16	25-9/16	When the ceiling height exceeds 9.8ft, adjust the longer outlets to 35-7/16 each. Or adjust the longer outlets to 19-11/16 each and the shorter outlets to 7-7/8 each.
	②	8.9	9-13/16	19-11/16	9-13/16	19-11/16	
8 (1 : 3)	①	7.9	11-13/16	35-7/16	11-13/16	35-7/16	
	②	8.9	0	35-7/16	0	35-7/16	
9 (1 : 2)	①	7.9	0	17-11/16	35-7/16	17-11/16	
	②	8.9	0	17-11/16	25-9/16	17-11/16	
10 (1 : 2)	①	—	9-13/16	35-7/16	9-13/16	0	7-7/8 is not available, as the total width of opened outlets must exceed 55-1/8.

When ceiling height is 7.9 feet.

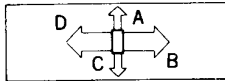
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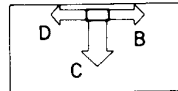
7-①



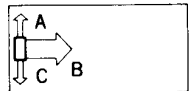
8-①



9-①

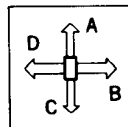


10-①

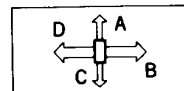


When ceiling height is 8 to 8.9 feet.

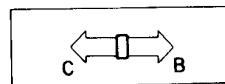
6-②



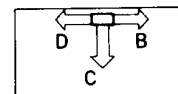
7-②



8-②



9-②

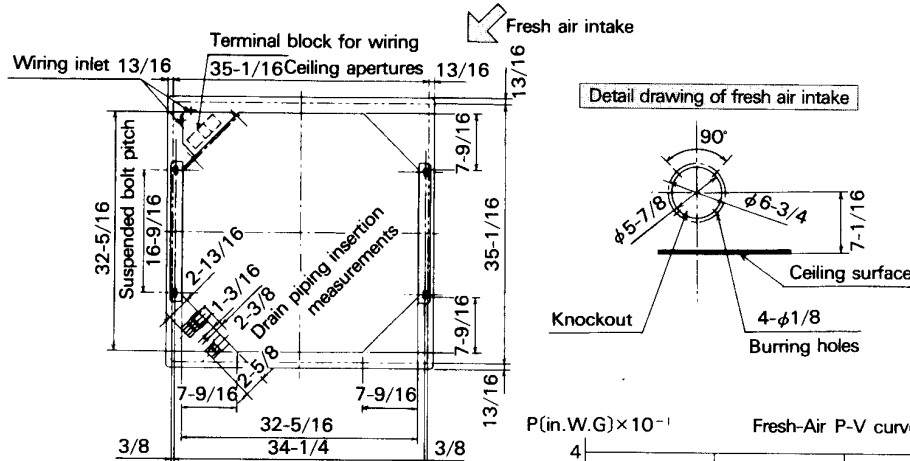


FRESH AIR INTAKE (Installation at site)

1. Location for installing fresh air intake

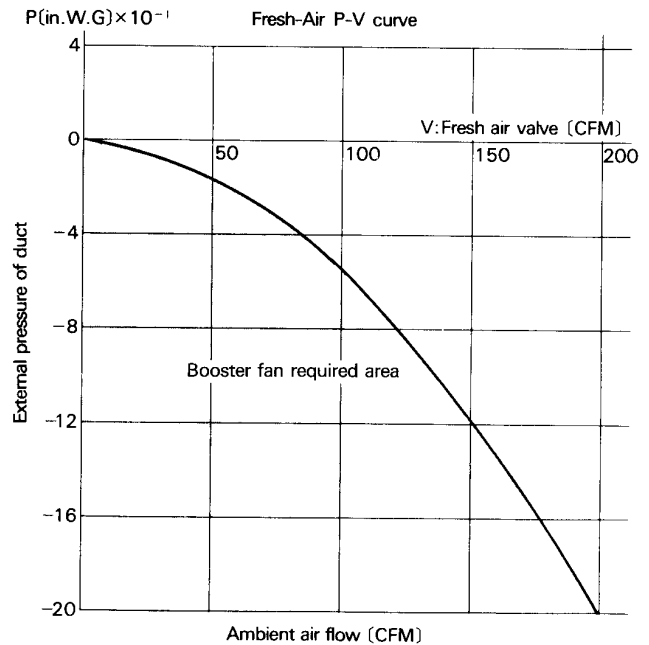
- The fresh air intake duct can be connected by removing the knockout holes on the casing of the indoor unit and attaching the fresh air intake flange and duct. When applying fresh air intake, confirm that the mixed air is within applicable conditions as the intake air mixes with the ambient air.

Figure is for PLH18/24FK



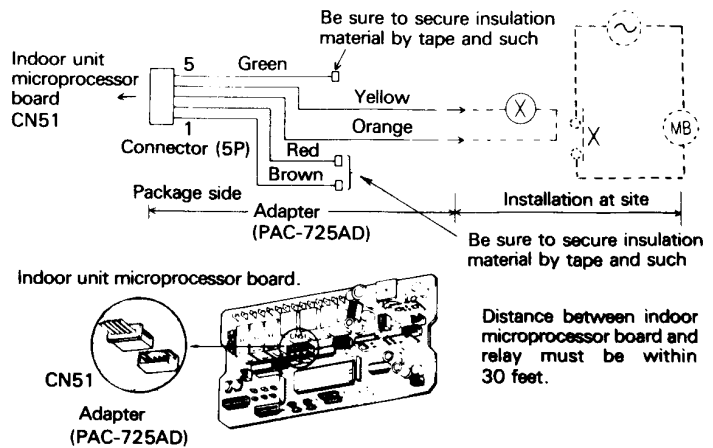
2. Air flow & static pressure conditions for fresh air intake

Be sure to use a duct fan (booster fan) when applying fresh air intake. As for sequential operation with the duct fan, see Item 3.



3. Sequential operation method with duct fan. (Booster fan)

- Have the duct fan "ON" whenever indoor is in operation mode (air-conditioning and fan).
 - Connect optional multiple remote controller adapter (PAC-725AD) to indoor microprocessor board CN51.
 - Drive the relay after connecting the DC12V relay between the Yellow and Orange connector lines.
- * Use a relay under 1W.
- MB: Electromagnetic open/close power relay for duct fan.
- X: Auxiliary relay (DC12V LY-1F).



BRANCH DUCT (Installation at site)

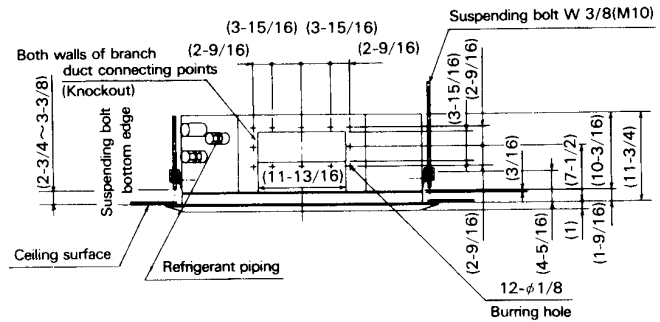
To discharge air from a branch duct, install it during the initial installation.

1. Branch Duct Installation Procedure

Install branch duct at site by following procedure

- (1) Remove insulation along the broken-lines on unit surface at the back-side of the indoor unit. Knock out the branch duct connecting point.
- (2) Secure flange, procured locally, by twelve ST screws (4.0 dia).
- (3) Connect flange to duct.
- (4) Tear off the insulation material on the surface of the main body of the unit, push in the insulation and secure it air tightly.

2. Branch Duct Installation

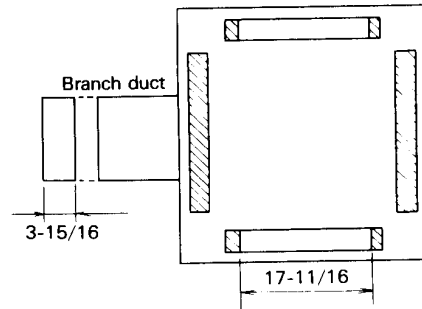
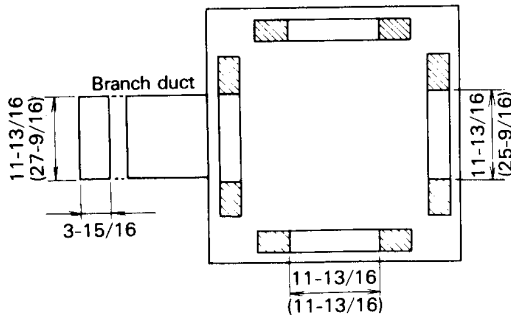


3. Air Flow & Static Pressure Characteristics of Branch Duct

- The air flow and static pressure characteristics of the branch duct when installing a standard panel (4 direction discharge) or when applying a 2-direction discharge is as follows.
- Opening measurements for PLH30/36/42FK are within ().

Standard: 4 direction discharge

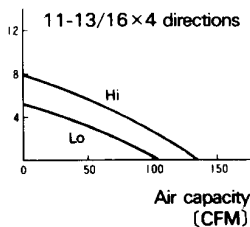
2 direction discharge



4 direction discharge (11-13/16 × 4 directions).

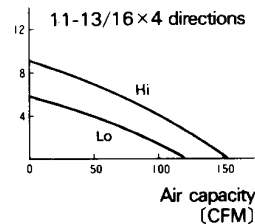
● PLH18FK

Static pressure
(in. W.G × 10⁻²)



● PLH24FK

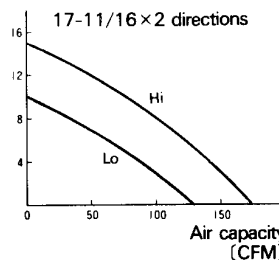
Static pressure
(in. W.G × 10⁻²)



2 direction discharge (17-11/16 × 2 directions).

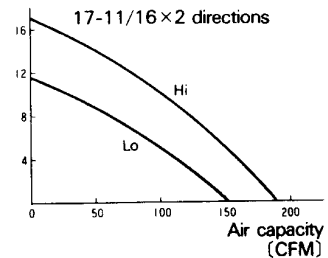
● PLH18FK

Static pressure
(in. W.G × 10⁻²)

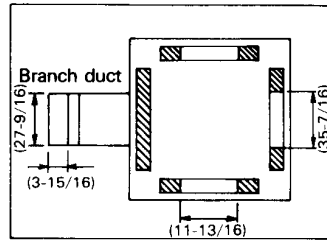


● PLH24FK

Static pressure
(in. W.G × 10⁻²)



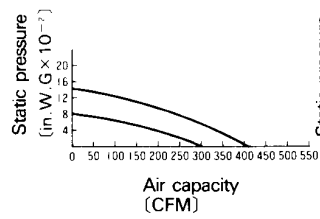
3 direction discharge



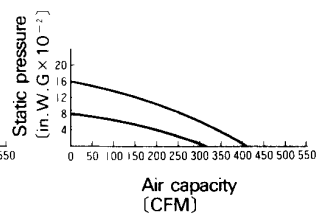
4-direction discharge (25-9/16 × 2 directions)
(11-13/16 × 2 directions)

3-direction discharge (35-7/16 × 1 directions)
(11-13/16 × 2 directions)

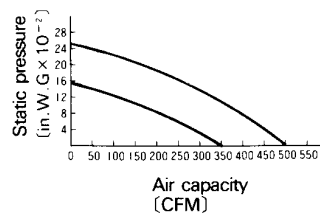
● PLH30/36FK



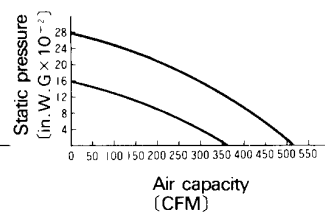
● PLH42FK



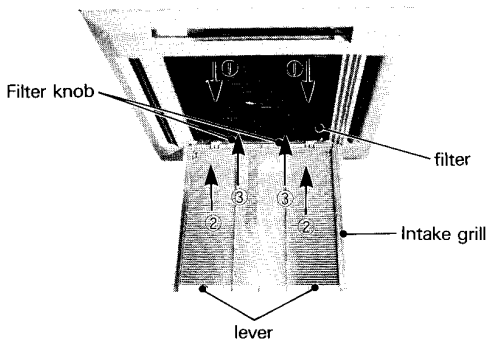
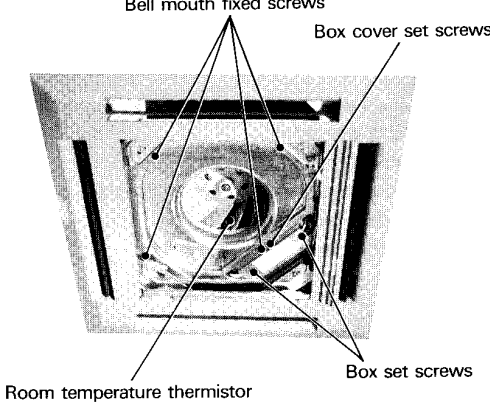
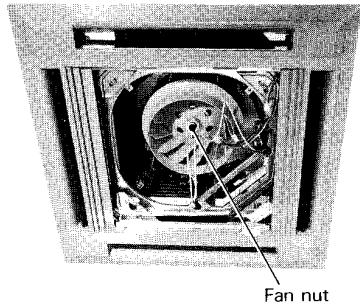
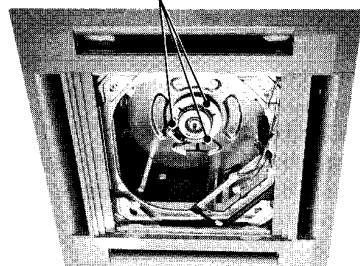
● PLH30/36FK



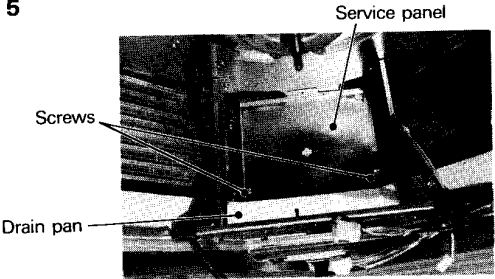
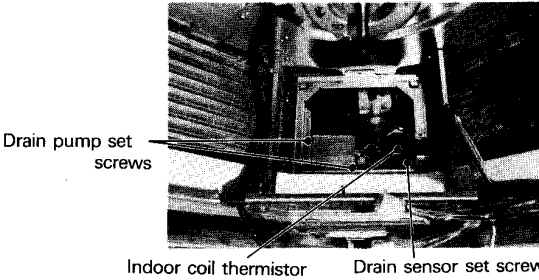
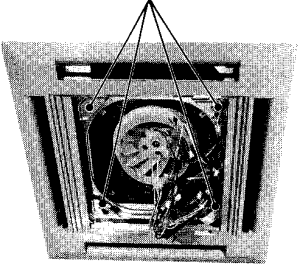
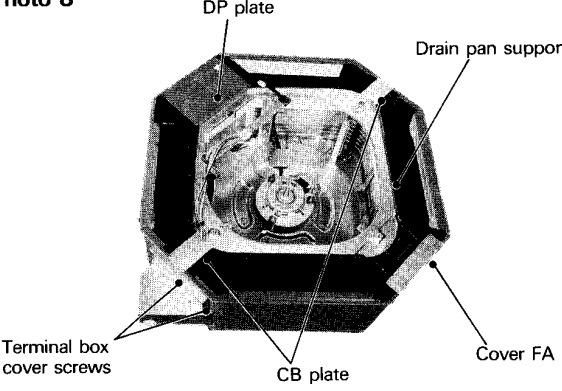
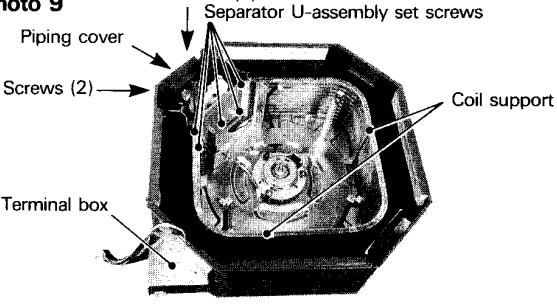
● PLH42FK



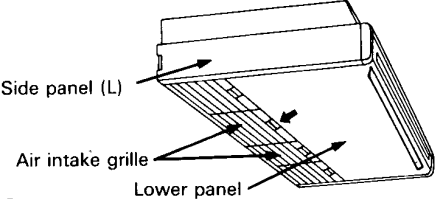
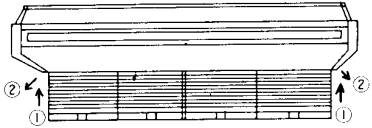
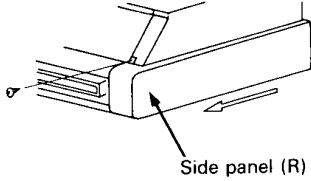
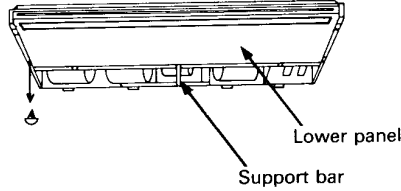
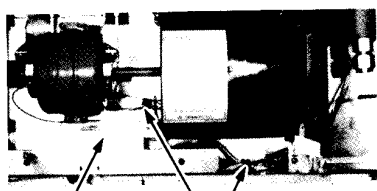
13-1 Indoor unit (PLH24FK)

OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
1. Removing the air intake grill (1) Slide the lever in the direction of the arrow ①. (2) Open it 90 deg. (3) Slide the intake grill in the direction of the arrow ② and remove it. (4) Slide the two knobs on the left and right in the direction of the arrow ③ and remove the filter.	Photo 1 
2. Removing the electrical box (1) Pull the knob to remove the room temperature thermistor. (2) Remove the screw from the box cover. (3) Grasp the lead lines and pull them out. (4) Remove the 2 mounting screws from the box. (5) Remove the connectors from the box. (6) Pull out the box. Electrical parts inside the box - Controller board - Transformer - Relay - Terminal block	Photo 2 
3. Removing the fan motor (1) Loosen two screws to remove the bell mouth. (2) Remove the clamp screws (2) from the fan motor lead. (3) Remove the capacitor wires. (4) Remove the fan motor setting screws (3).	Photo 3  Photo 4 



OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
4. Removing the drain pump, drain sensor, and indoor coil thermistor (1) Remove the fan (nut). (2) Remove the electrical box (3 screws). (3) Remove the service panel screws (2 pcs). (4) Hold the knob and remove the service panel. (5) Remove the drain pump set screws (2 pcs). (6) Remove the screw from the drain sensor assembly. (7) The indoor coil thermistor is inserted in the holder.	Photo 5  Photo 6 
5. Removing the panel (1) Remove the connectors. (2) Remove the two of the panel set screws and loosen the other two screws. (3) Slide the panel slightly to remove it.	Photo 7 
6. Removing the drain pan and terminal box (1) Remove the panel. (2) Remove the electrical box. (3) Remove the bell mouth. (4) Remove the DP and CB plates and cover FA screws (2 screw each). (5) Remove the drain pan support (5 C-screws). (6) Pull out the drain pan. * Pull the left and right of the pan gradually. Be careful not to crack or damage the pan. (7) Loosen the two screws on the terminal box cover. (8) Remove the cover.	Photo 8 
7. Removing the heat exchanger (1) Remove the panel. (2) Remove the panel mouth. (3) Remove the turbo fan. (4) Remove the electrical box. (5) Remove the drain pan. (6) Remove the coil support. (2 pcs.) (7) Remove the separator U-assembly (5 screws). (8) Remove the external piping cover (2 pcs.).	Photo 9 

13-2 Indoor unit (PCH24EK)

OPERATING PROCEDURE	PHOTOS & ILLUSTRATIONS
1. Removing the air intake grille (1) Unhook the clasps at the edge of the grille and open the grill. (2) Lift up the grill in direction of arrow ① in Fig.2. (3) Pull the grill toward you to remove. (In direction of arrow ②)	Fig. 1  Side panel (L) Air intake grille Lower panel Fig. 2 
2. Removing the side panels (1) Remove a white screw of the side panel (RIGHT). (2) Pull out the panel toward you to remove. (3) Remove a white screw of the side panel (LEFT). (4) Pull out the panel toward you to remove.	Fig. 3  Side panel (R)
3. Removing the lower panel (1) Remove the lower panel set screws, 2 pcs on each side and 3 pcs at the rear. (total 7 pcs) * PCH24EK has 4 pcs at the rear and 2 pcs on each side. (total 8 pcs)	Fig. 4  Lower panel Support bar
4. Removing the electrical box (1) Remove the air intake grille. (Refer to 1.) (2) Remove the support bar set screw and remove the bar. (See fig. 4) (3) Loose the lead clamps (2 pcs) for the sirocco fan and the louver motor. (See photo 1)	Photo 1  Electrical box Clamps for fan lead

OPERATING PROCEDURE

- (4) Remove the electrical box set screws. (2 pcs) Pull down the electrical box and hang it from the rear panel using the S hooks located on the both sides of the box.
- (5) The electrical box has two covers. (R and L) Remove the 2 screws on the cover (R), and remove the screw on the cover (L). Then remove the box corners.
- (6) This enables checking the inside of the electrical box. (See fig 6)
 - Indoor controller board (I.B)
 - Transformer
 - Fan capacitor (C1)
 - Fuse
 - Terminal block (Power)
 - Terminal block (Control)
 - Terminal block (Remote controller)

PHOTOS & ILLUSTRATIONS

Fig. 5

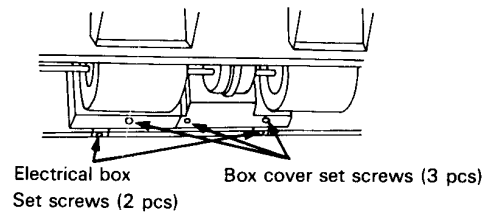
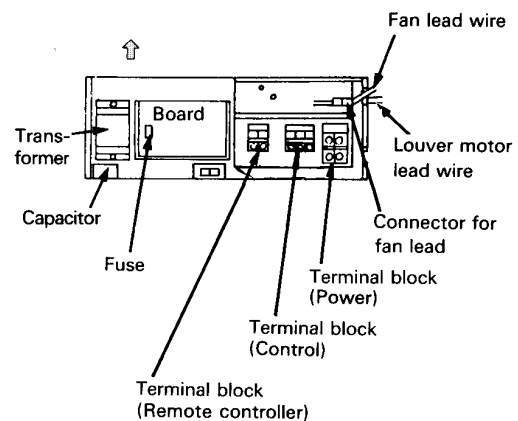
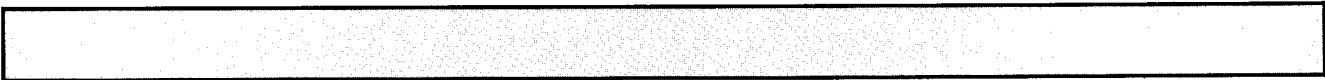
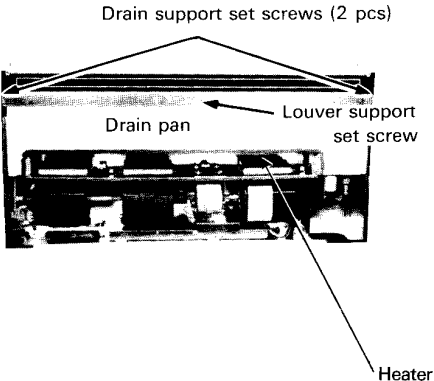
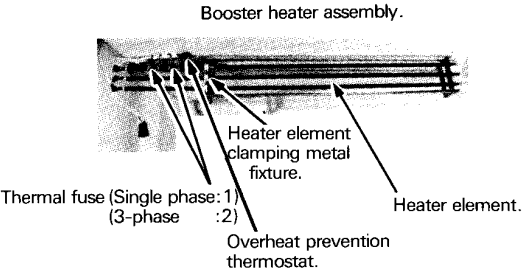
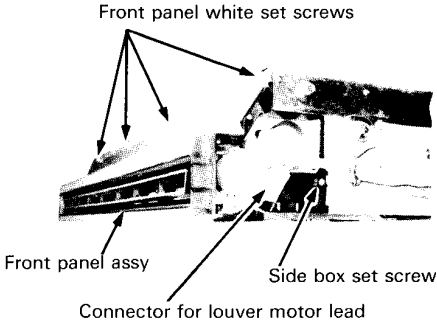


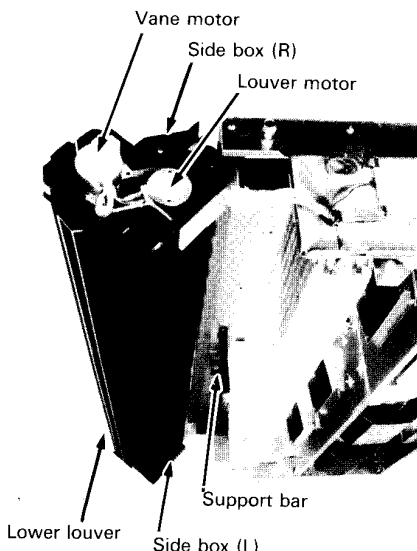
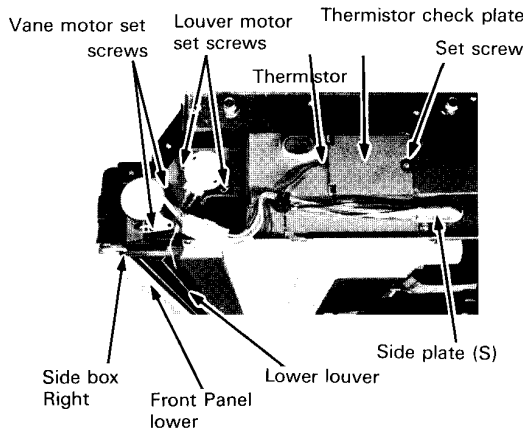
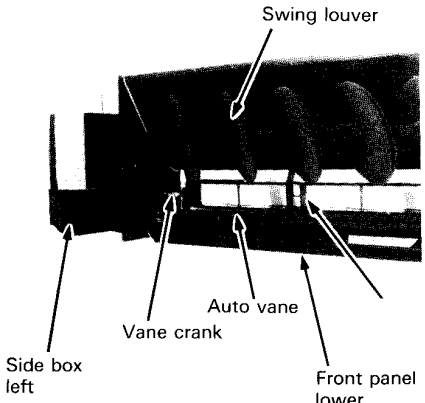
Fig. 6

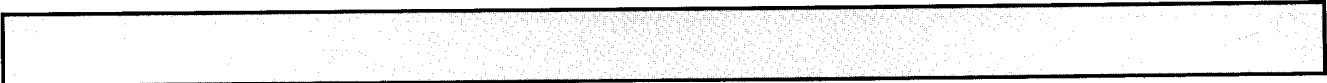


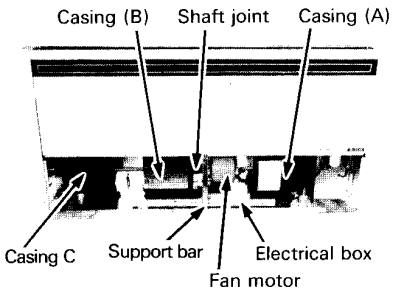
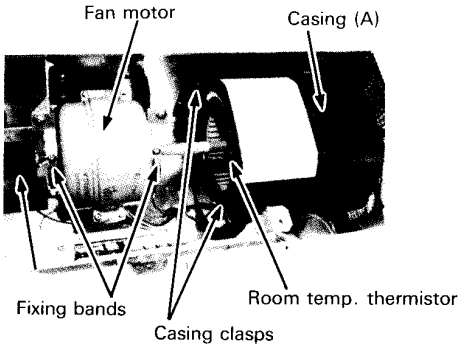
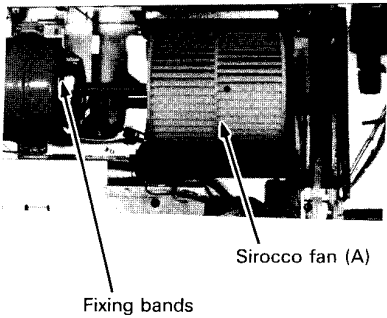


OPERATING PROCEDURE	PHOTOS
5. Removing the drain pan After removing the lower panel : (1) Remove the drain pan support set screws (2 pcs) (2) Remove the louver support set screw. (See photo 3) (3) Remove the drain pan.	Photo 3 
6. Removing the booster heater assembly (1) Remove the 3 heater assembly set screws, pull out the heater lead wire connecting connector, then remove the heater assembly (see Photo 3). The above enables to replace the heater assembly parts (see Photo 4). (2) Booster heater assembly ● Overheat prevention thermostat ● Thermal fuse (Microprocessor operated thermostat) ● Heater element For broken/disconnected heater replace only the heater element of the disconnected section. ① Pull out the lead wire terminals from both ends of the broken disconnected heater element. ② Remove the heater element clamping metal fixture screws. ③ Pull out the heater element, then replace.	Photo 4 
7. Removing the front panel assembly After removing the drain pan : (1) Disconnect the lead connector for louver motor at the right side, . (2) Pull the lower louver forward and unhook the clamps. (2 points at the center) (3) Remove the front panel white set screws. (4 pcs) (4) Remove the side box set screws on both sides. (4 screws on the side and front, 1 screw at the bottom, on each side.) (5) The panel assembly can be removed. (See photo 6)	Photo 5 

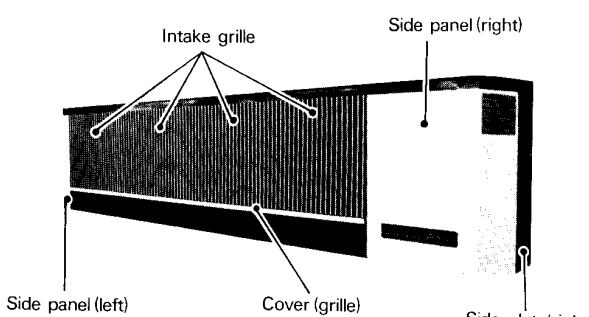
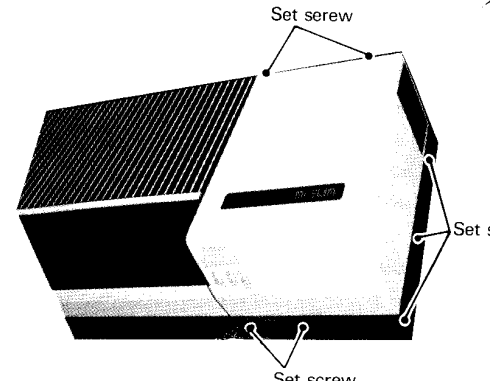
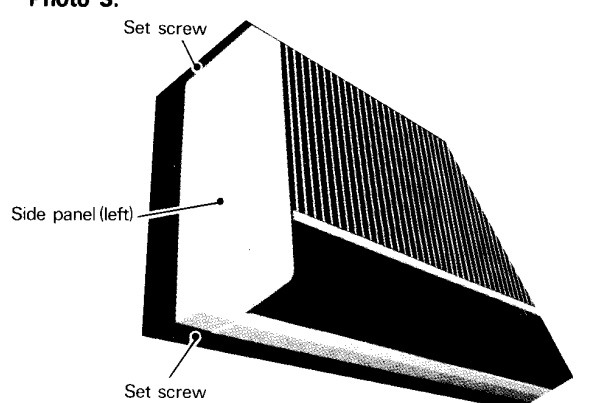
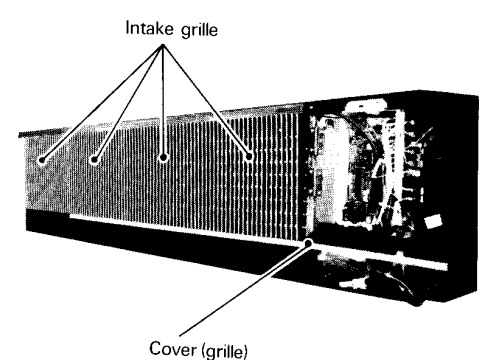
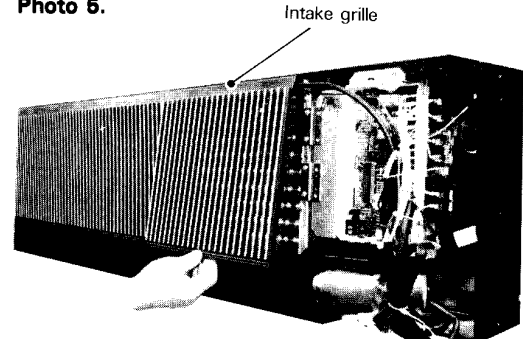


OPERATING PROCEDURE	PHOTOS
8. Removing the louver motor and vane motor Remove only the right side panel to remove these motors. (1)Remove setting screws of each motor. (2 pcs each, total 4 pcs) (See photo 6) 9. Removing the swing louver (1)Remove the swing louver from the joint on the right side. (2)Slide the louver out to the left side.	Photo 6 
10. Removing the lower louver (1) Pull down and unhook the clasps. (3 points) (2)Warp the louver to remove. 11. Removing the auto vane. After removed the lower louver: (1)Remove a fixing screw of the left side box and the lower panel. (2)Pull the left side box outward. (3)Remove the auto vane shaft from the joint. (4)Slide the auto vane out to the right side. 12. Removing the vane crank The vane crank will be removed easily after removed the auto vane. 13. Removing the front louver (1)Pull and unhook the louver toward you. (Clasps are 5 pcs)	Photo 7  Photo 8 



OPERATING PROCEDURE	PHOTOS
14. Removing the fan motor After remove the electrical box covers: (1) Disconnect the lead connector for fan. (2) Pull out the room temp. thermistor from the casing (A). (See photo 9) (3) Loose the shaft joint set screws (2 pcs) with a hexagonal wrench. (size 3mm). (4) Unhook the casing (A) by pushing. (2 points for each side) (5) Open about half of the casing (A) and take it out. (6) Loose the fixing band set screws. (1 pcs on the both sides of the fan motor.) (7) Remove the fixing bands. (8) Take out the fan motor. Photo 8 	Photo 9  Photo 10 
15. Removing the room temperature thermistor After removed the electrical box covers: (1) Pull out the room temperature thermistor from the casing (A). (2) Disconnect the connector (CN-20) from the controller board in the electrical box. (3) Take out the thermistor. 16. Removing the indoor coil thermistor After removed the electrical box covers: (1) Remove the right side panel. (2) Remove the set screw of the thermistor check plate and the set screws of the side plate. (3 pcs) (See photo 9) (3) Remove the indoor coil thermistor from the heat exchanger. (4) Disconnect the connector (CN-21) from the controller board in the electrical box. (5) Take out the thermistor.	

14-3 Indoor unit (PKH24EK)

OPERATING PROCEDURE	PHOTOS
1. Removing the side panel (right) (1) Unscrew seven set screws to remove the panel. (See photo 2.) Photo 1. 	Photo 2. 
2. Removing the side panel(left) (1) Remove two screws. (See photo 3) (2) Pull out the panel downward. Photo 3. 	Photo 4. 
3. Removing the intake grilles (1) Remove the three(four) air filters. (2) Remove the side panels (right and left). (Refer to items 1 and 2.) (3) Pull out the cover (grille) to either side of right or left. (See photo 4.) (4) Put your finger tips into underside centre of the intake grille and unfasten the insertings at lower right and left, then pull out the grille toward your side lowering it a little. Same in procedure for all three (four) grilles. (See photo 5.)	Photo 5. 

OPERATING PROCEDURE

4. Removing the side plate(right)

- (1) Remove the side panel(right). (Refer to item 1.)
- (2) Remove two set screws and pull out the plate downward.(See photo 6.)

5. Removing drain cover

- (1) Remove the side panel(right). (Refer to item 1.)
- (2) Take off the drain cover with the set screw loosening. (See photo 6.)

6. Removing the electrical parts

- (1) Remove the side plate(right). (Refer to item 4.)
- (2) Disconnect the leads and remove the connector for the fan motor with the louver motor. (See photo 7.)
- (3) Electrical parts (See photo 7.)
 - Contactor fan motor
 - Indoor controller board
 - TB. (Terminal block)
- (4) Electrical parts (See photo 8.)

Remove electrical parts box set screws and set electrical parts box upright. (See photo 8.)

 - Transformer
 - Run capacitor
 - Thermistor
- (5) Electrical parts (See photo 9.)

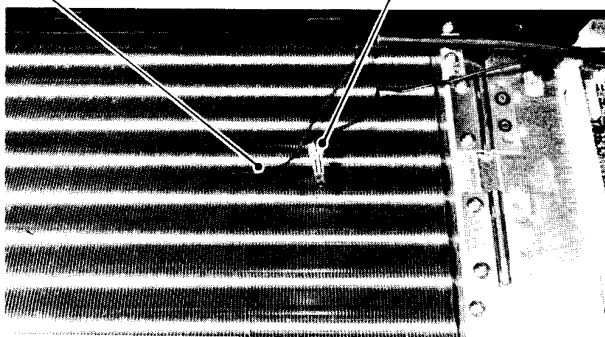
Remove cover(grille), then remove intake grille(right). (Refer to item 3 (3) (4))

 - Room temp. thermistor

Photo 9.

Room temp. thermistor

Alarm lamp



PHOTOS

Photo 6.

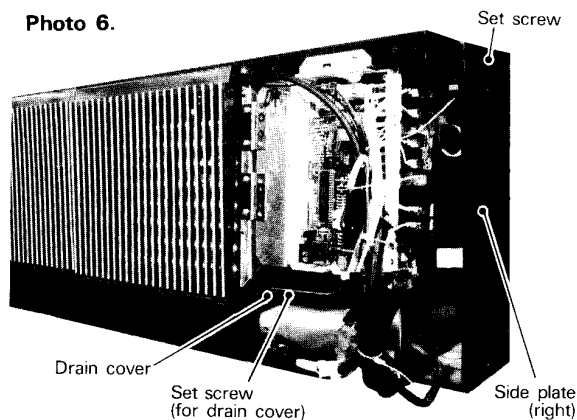


Photo 7.

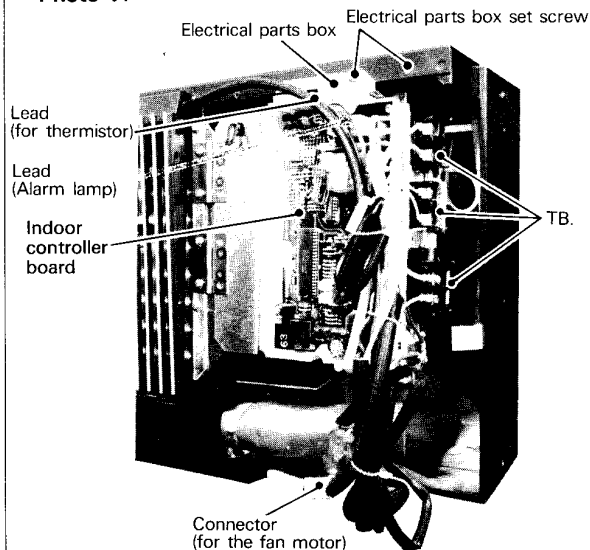
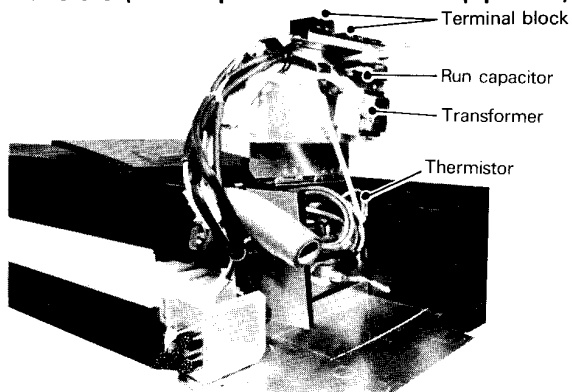


Photo 8. (Electrical parts box in set in set up position)



OPERATING PROCEDURE

7. Removing the fan assembly

- (1) Remove the side panels (right and left).
(Refer to items 1 and 2.)
- (2) Remove the three(four) intake grilles.
(Refer to items 3-(3), and (5).)
- (3) Remove the side plate(right). (Refer to item 4-(2).)
- (4) Take off the drain cover. (Refer to item 5-(2).)
- (5) Remove one set screw on the back plate and remove the back plate. (See photo 11.)
- (6) Unscrew four set screws to remove the lower panel (rear). (See photo 11.)
- (7) Unscrew four set screws to remove the lower panel (front). (See photo 12.)
- (8) Disconnect the leads and remove the connector for the fan motor with the louver motor. (See photo 12.)
- (9) Remove the set screw of the support. (See photo 13.)
- (10) Remove two right and two left set screws of the fan assembly. (See photos 14 and 15.)
- (11) Remove set screws on the line flow fan, then remove the stopper plate. (See photo 16.)
- (12) Remove the motor shaft set screw, then remove the fan. (See photo 16.)
- (13) Remove set screw on the motor fixing plate(left and right), then remove the motor. (See photo 16.)

Photo 14.

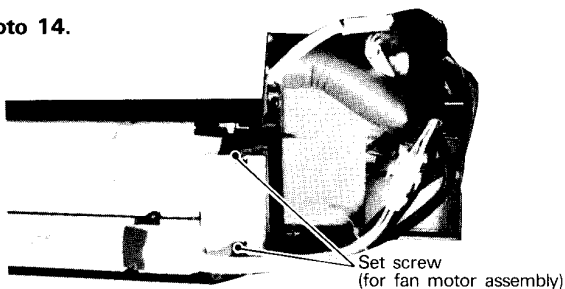
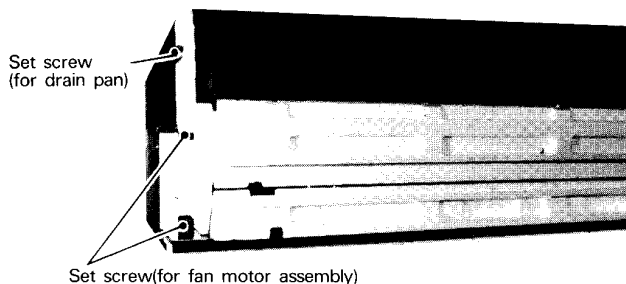


Photo 15.



PHOTOS

Photo 10.

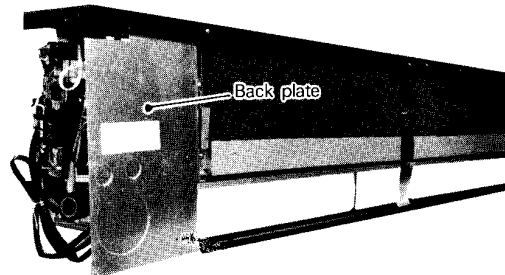


Photo 11.

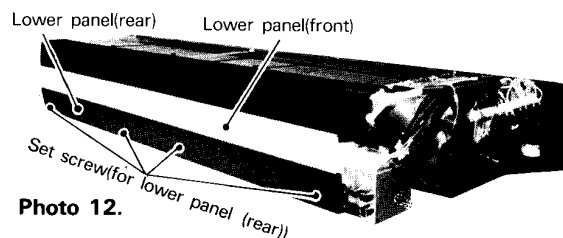


Photo 12.

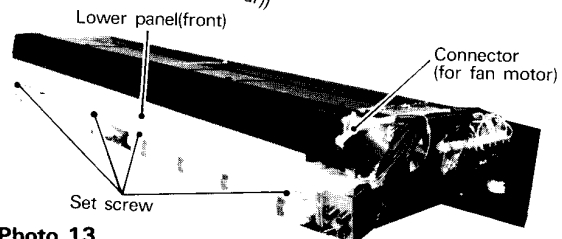


Photo 13.

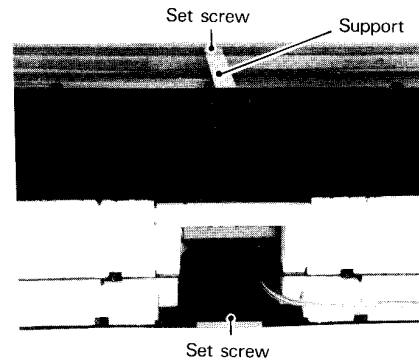
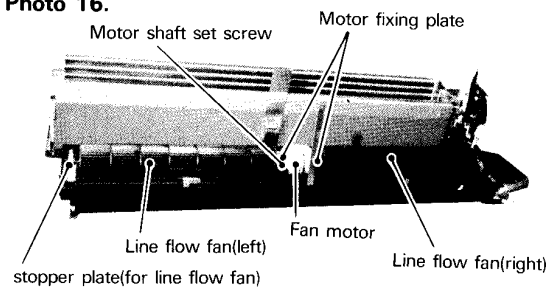


Photo 16.



13-4 Outdoor unit (PUH18EK)

OPERATING PROCEDURE

1. Electrical parts

- (1) Remove top panel (3 screws in front, 2 screws in rear)
- (2) Remove cover panel (1 screw).
The panel is anchored by clicks to the side panel.
Remove by pulling towards you.
- (3) Remove service panel (1 screw).
The panel is anchored by clicks on the right and left sides. After removing the screw, pull the panel down and remove it by pulling towards you.

PHOTOS

Photo 1

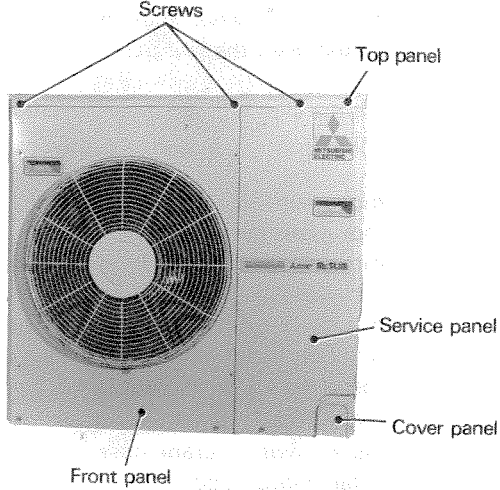
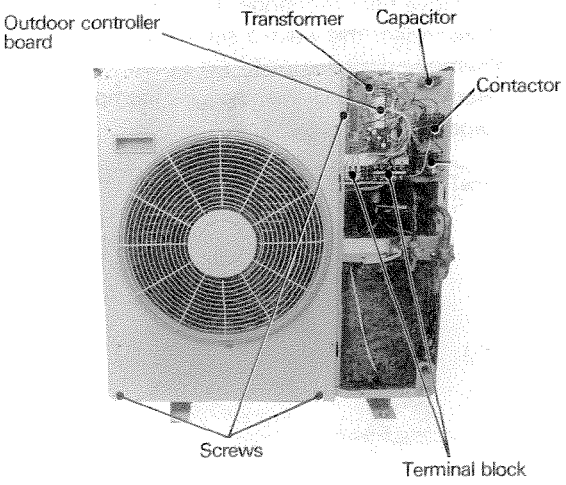


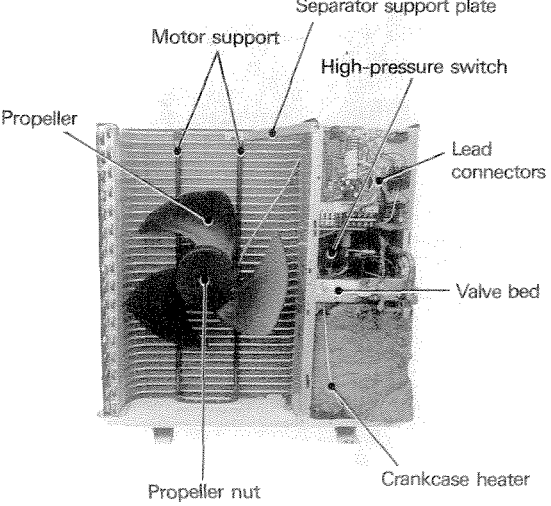
Photo 2



2. Fan motor

- (1) Remove front panel (3 screws).
Open the panel to a 45 degree angle and lift to remove. The panel is clasped at three points on the left side.
- (2) Remove propeller (1 set nut).
- (3) Remove fan motor (3 screws).
Remove lead connectors.

Photo 3



OPERATING PROCEDURE

3. Heat Exchanger, Compressor

- (1) Remove the rear panel (2 screws in front, 1 screw on the side, 3 screws in the rear). Remove the valve bed, and open the rear panel to the rear to remove.

NOTE :

All panels are clasped, and must be removed by shifting up and down.

- (2) Remove right side panel (4 screws).
- (3) Remove rear guard (3 screws).
- (4) Remove separator support plate (4 screws).
- (5) Remove motor support (2 screws).
- (6) Remove valve bed (5 screws). The valve bed is clasped on the right and left sides. Lift to remove.
- (7) Remove the electrical parts box .
Remove the respective connectors from high-pressure switch, crank case heater, shell thermo, and fan motor lead.
- (8) Remove separator (2 screws).
- (9) Remove heat exchanger (2 screws).
Disconnect the welded section of pipe.
- (10) Remove compressor (3 set nuts).
Remove the weldment of the compressor suction pipe and discharge pipe.

PHOTOS

Photo 4

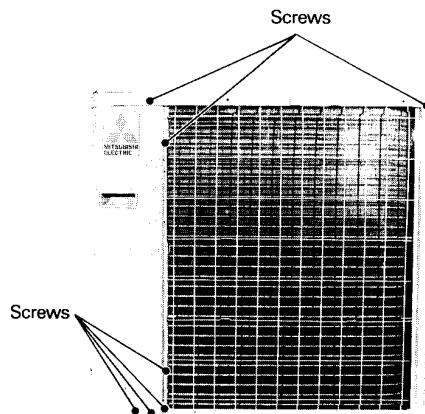


Photo 5

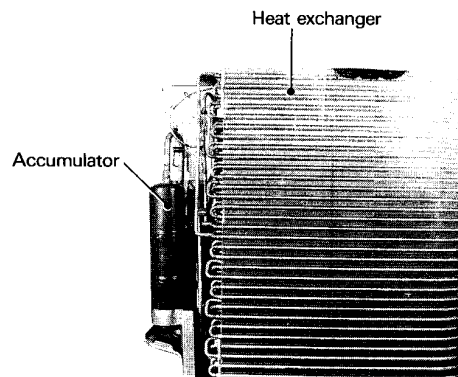
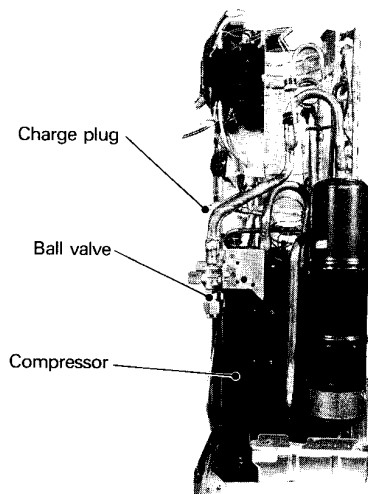
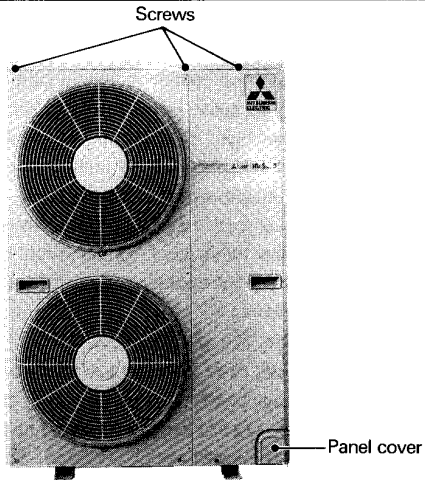
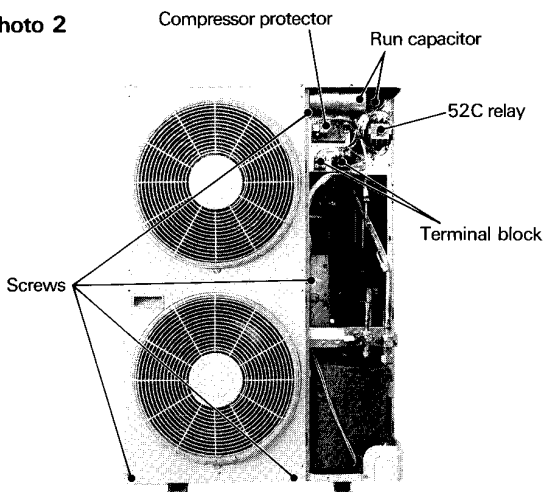
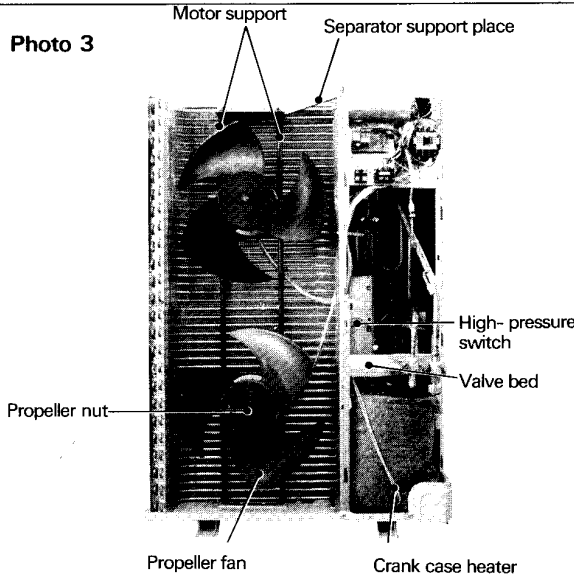


Photo 6



13-5 Outdoor unit (PUH24EK)

OPERATING PROCEDURE	PHOTOS
1. Electrical parts (1) Remove top panel (3 screws in front, 2 screws in rear) (2) Remove panel cover (1 screw). The panel is clasped to the side panel. Remove by pulling towards you. (3) Remove service panel (1 screw). The panel is clasped on the right and left sides. After removing the screw, pull the panel down and remove it by pulling towards you.	Photo 1  Photo 2 
2. Fan motor (1) Remove front panel (3 screws). Open the panel to a 45 degree angle and lift to remove. The panel is clasped at three points on the left side. (2) Remove propeller. (1 set nut). (3) Remove fan motor (3 screws). Remove lead connectors.	Photo 3 

OPERATING PROCEDURE

3. Heat Exchanger, Compressor

- (1) Remove the rear / right side panel (2 screws in front, 1 screw on the side, 3 screws in the rear). Remove the electbox, valve bed, and open to the rear to remove (anchors attached).
- (2) Remove right side panel (4 screws).
- (3) Remove rear guard (3 screws).
- (4) Remove separator support plate (4 screws).
- (5) Remove motor support (2 screws).
- (6) Remove valve bed (5 screws). The valve bed is anchored by clicks on the right and left sides. Lift to remove.
- (7) Remove the electrical parts box .
Remove the respective connectors from high-pressure switch, Low-pressure switch, crank case heater, shell thermo, and fan motor lead.
- (8) Remove separator (2 screws).
- (9) Remove heat exchanger (2 screws).
Remove piping weld zone.
- (10) Remove compressor (3 set nuts).
Remove the weldment of the compressor suction pipe and discharge pipe.

NOTE :

All panels are anchored by clicks, and must be removed by shifting up and down.

PHOTOS

Photo 4

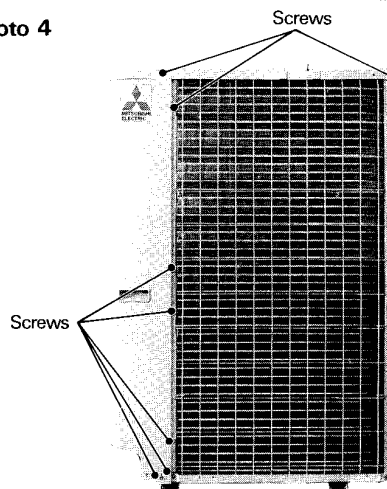


Photo 5

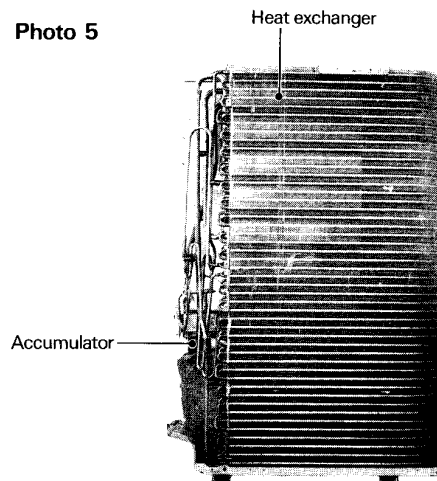
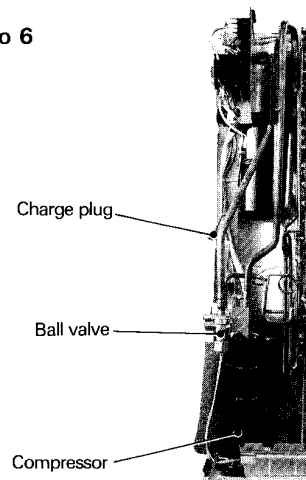


Photo 6



14

OPTIONAL PARTS

1. REFRIGERANT PIPES

For model : PLH18/24FK, PCH24EK, PKH18/24EK

Parts No.	PACSK03FS	PACSK05FS	PACSK07FS	PACSK10FS	PACSK15FS
Pipe length (ft.)	10	16	23	33	49
Pipe size OD (in.)	Liquid : $\phi 3/8$ Gas : $\phi 5/8$				
Connection method	Indoor unit : Flared Outdoor unit : Flared				

For model : PLH30/36/FK, PCH30/36EK, PKH30EK

Parts No.	PACSK03FF	PACSK05FF	PACSK07FF	PACSK10FF	PACSK15FF
Pipe length (ft.)	10	16	23	33	49
Pipe size OD (in.)	Liquid : $\phi 1/2$ Gas : $\phi 3/4$				
Connection method	Indoor unit : Flared Outdoor unit : Flared				

For model : PLH42FK, PCH42EK

Parts No.	PACSK07FK	PACSK15FK
Pipe length (ft.)	23	49
Pipe size OD (in.)	Liquid : $\phi 1/2$ Gas : $\phi 7/8$	
Connection method	Indoor unit : Flared Outdoor unit : Flared	

Note 1. The refrigerant pipes and the indoor unit contain a nitrogen holding charge which must be removed by evacuation.

<Piping connection procedures>

See that ball valve on outdoor unit is fully shut (unit is shipped with valve shut). Remove caps from piping and unit and make flare connection promptly. Repeat for each connection, one at a time.

After all piping connections between indoor and outdoor unit have been completed, vacuum-purge air from system through the service port for the ball valve on the outdoor unit.

Note 2. The following parts are contained in optional refrigerant pipint kit.

Heat insulating cover, vinyl tapes, nipples, sleeve and flange (for wall hole), connecting cables etc.

2. TIMER

Parts No.	PAC-SK65PT
Model Name	Program timer

3. TIMER ADAPTER

Depending on the microprocessor type, this adapter is required for system control and for operation via external contacts.

Part No.	PAC-715AD
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4. MULTIPLE DISPLAY ADAPTER

Required for multiple remote control display.

Part No.	PAC-725AD
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5. DRAIN PUMP (PCH series)

Part No.	PAC-220DM
Applied	PCH24/30/36/42EK

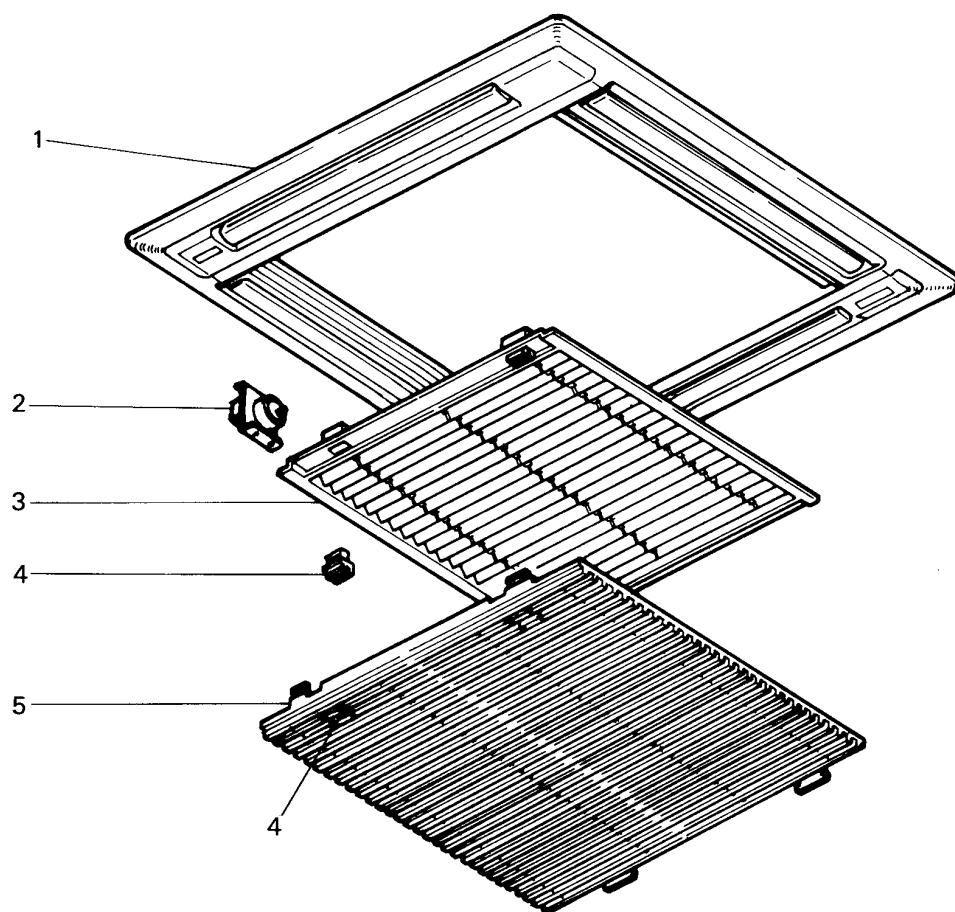
6. FINISH COVER (PCH)

Part No.	PAC-988KC	PAC-989KC
Applied	PCH24/30EK	PCH36/42EK

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PARTS LIST

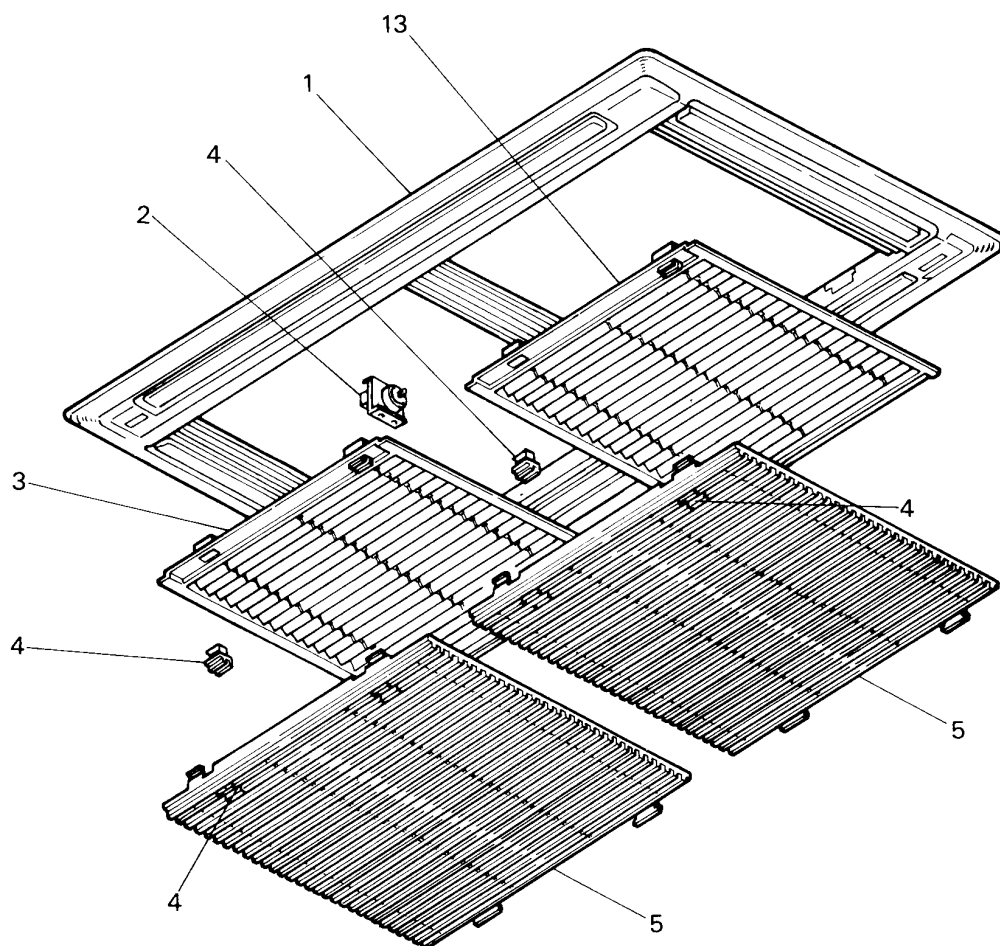
PLH18/24FK PANEL PARTS



No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set		Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PLH18FK	PLH24FK				Unit	Amount
1	T7W 417 003	AIR OUTLET GRILL	MARBLE WHITE	1	1					
2	T7W 417 223	VANE MOTOR		1	1	PLH-FK	MV			
3	R01 K01 500	AIR FILTER		1	1	PLH-FK				
4	R01 K01 054	CATCH		4	4	PLH-FK				
5	R01 K01 691	INTAKE GRILL		1	1					
*6	T7W 417 239	FUSE	250V 0.3A	1	1		F2			

*This part is not shown in the illustration.

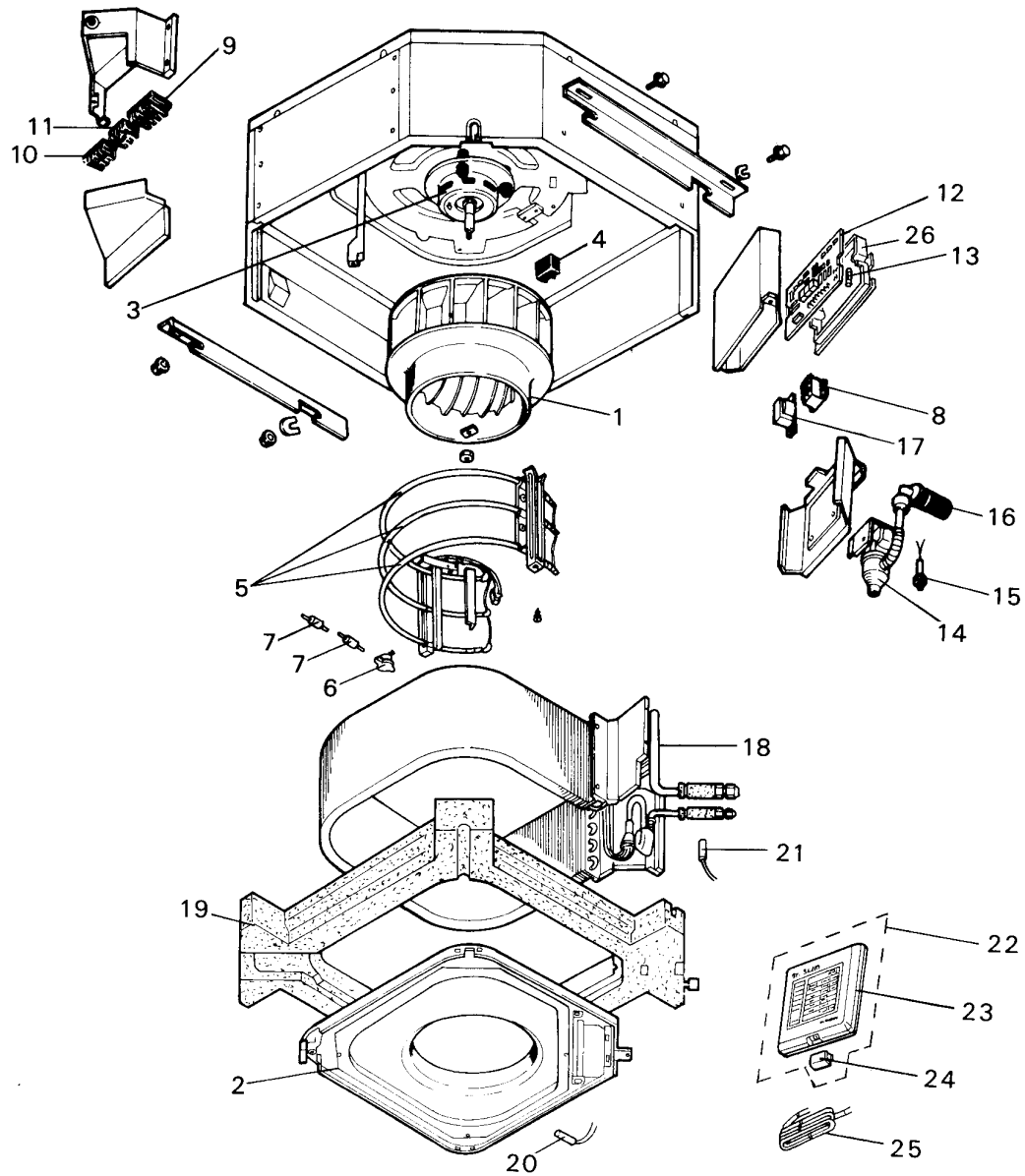
PLH30/36/42FK PANEL PARTS



No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set			Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PLH 30FK	PLH 36FK	PLH 42FK				Unit	Amount
1	T7W 419 003	AIR OUTLET GRILL	MARBLE WHITE	1	1	1					
2	T7W 417 223	VANE MOTOR		1	1	1	PLH-FK	MV			
3	R01 K01 500	AIR FILTER		2	2	2	PLH-FK				
4	R01 K01 054	CATCH		8	8	8	PLH-FK				
5	R01 K21 691	INTAKE GRILL		2	2	2					
* 6	T7W 419 239	FUSE	250V 0.4A	1	1	1		F2			

*This part is not shown in the illustration.

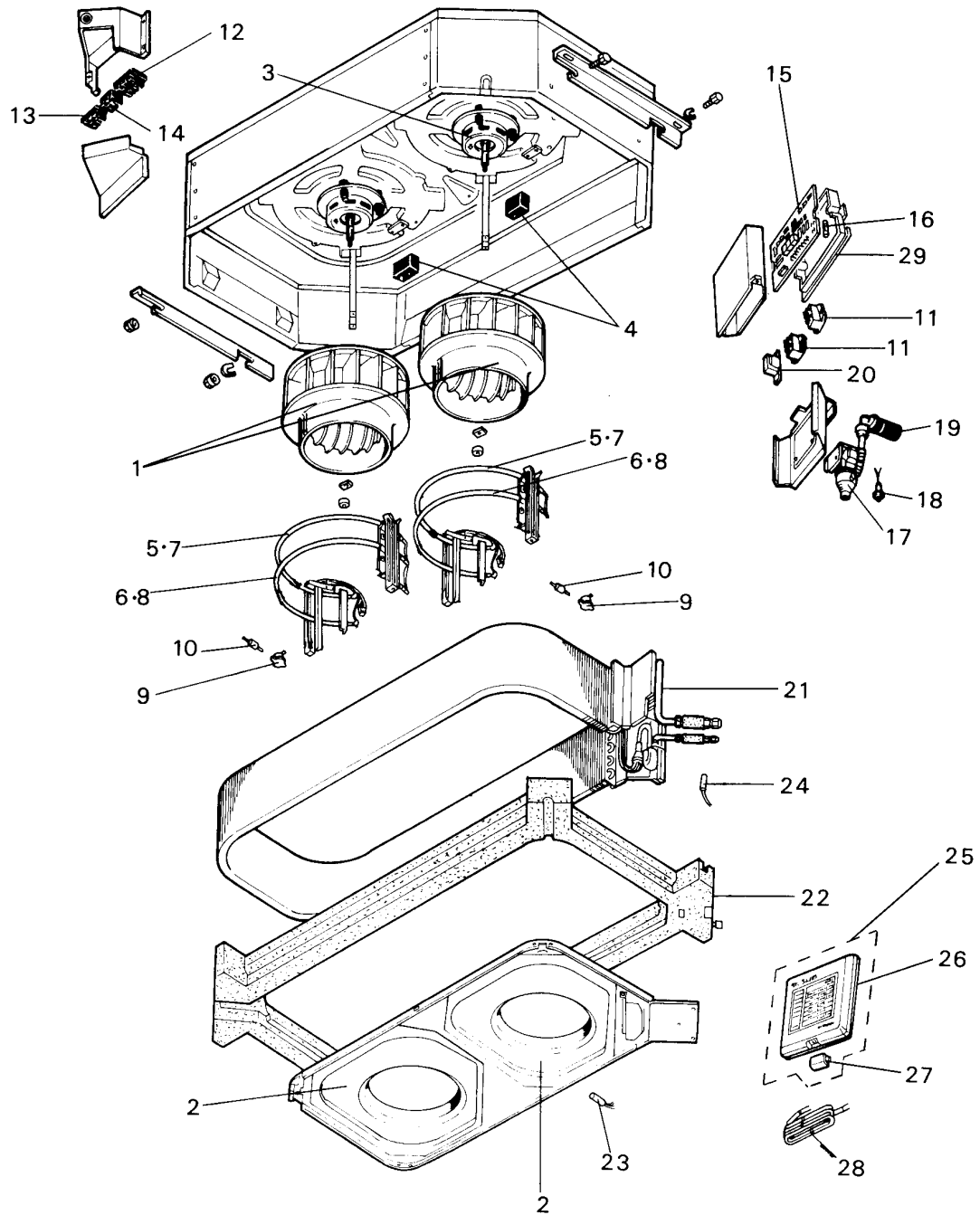
PLH18/24FK FUNCTIONAL PARTS

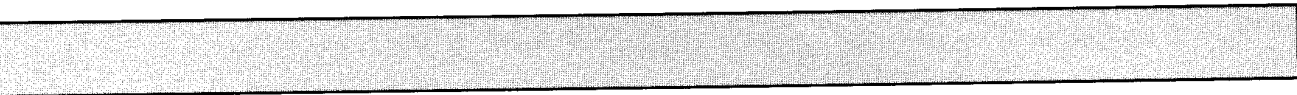




No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set		Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PLH18FK	PLH24FK				Unit	Amount
1	R01 K01 114	TURBO FAN	INDOOR FUNCTION	1	1	PLH-FK				
2	R01 K01 119	BELL MOUTH		1	1	PLH-FK				
3	T7W 421 762	FAN MOTOR	SGN-36DTA	1			MF			
	T7W 418 762	FAN MOTOR	SGN-37DTA		1	PLH42FK	MF			
4	R01 576 255	FAN CAPACITOR	3 μ F 440V	1	1	PLH-FK	C			
5	T7W 351 300	HEATER ELEMENT	240V 700W	3	3		H			
6	R01 069 700	THERMAL SWITCH	OFF 107 F ON 90 F	1	1		26H			
7	R01 208 706	THERMAL FUSE	180 F 10A	2	2		FS1,FS2			
8	R01 673 215	HEATER CONTACTOR	LY-2F DC12V 10A	1	1		88H			
9	T7W 421 716	TERMINAL BLOCK	3P (L1,L2,GR)	1	1	PLH-FK	TB1			
10	R01 377 246	TERMINAL BLOCK	3P (1,2,3)	1	1		TB2			
11	R01 556 246	TERMINAL BLOCK	2P (1,2)	1	1		TB3			
12	R01 L72 310	INDOOR CONTROLLER BOARD		1	1		I.B			
13	T7W 410 239	FUSE	250V 6A	1	1		F1			
14	T7W 420 355	DRAIN PUMP		1	1	PLH-FK	DP			
15	R01 K01 266	DRAIN SENSOR		1	1	PLH-FK	DS			
16	R01 K01 523	DRAIN SOCKET		1	1	PLH-FK				
17	T7W 417 799	TRANSFORMER	RED:15.5VAC, 0.3A BRN:11.0VAC, 0.6A	1	1	PLH-FK	T			
18	T7W 417 480	INDOOR HEAT EXCHANGER		1						
	T7W 418 480	INDOOR HEAT EXCHANGER			1					
19	T7W 410 529	DRAIN PAN		1	1					
20	R01 J01 202	ROOM TEMPERATURE THERMISTOR		1	1	PLH-FK	RT1			
21	R01 K01 202	INDOOR COIL THERMISTOR		1	1	PLH-FK	RT2			
22	T7W 417 200	REMOTE CONTROLLER		1	1	PLH-FK	R.B			
23	T7W 351 077	REMOTE CONTROLLER COVER		1	1	PLH-FK				
24	R01 L72 095	SCREW CAP		1	1	PLH-FK				
25	T7W 556 305	REMOTE CONTROLLER CABLE	39 ft	1	1	PLH-FK				
26	T7W 829 070	CONTROLLER CASE		1	1	PLH-FK				

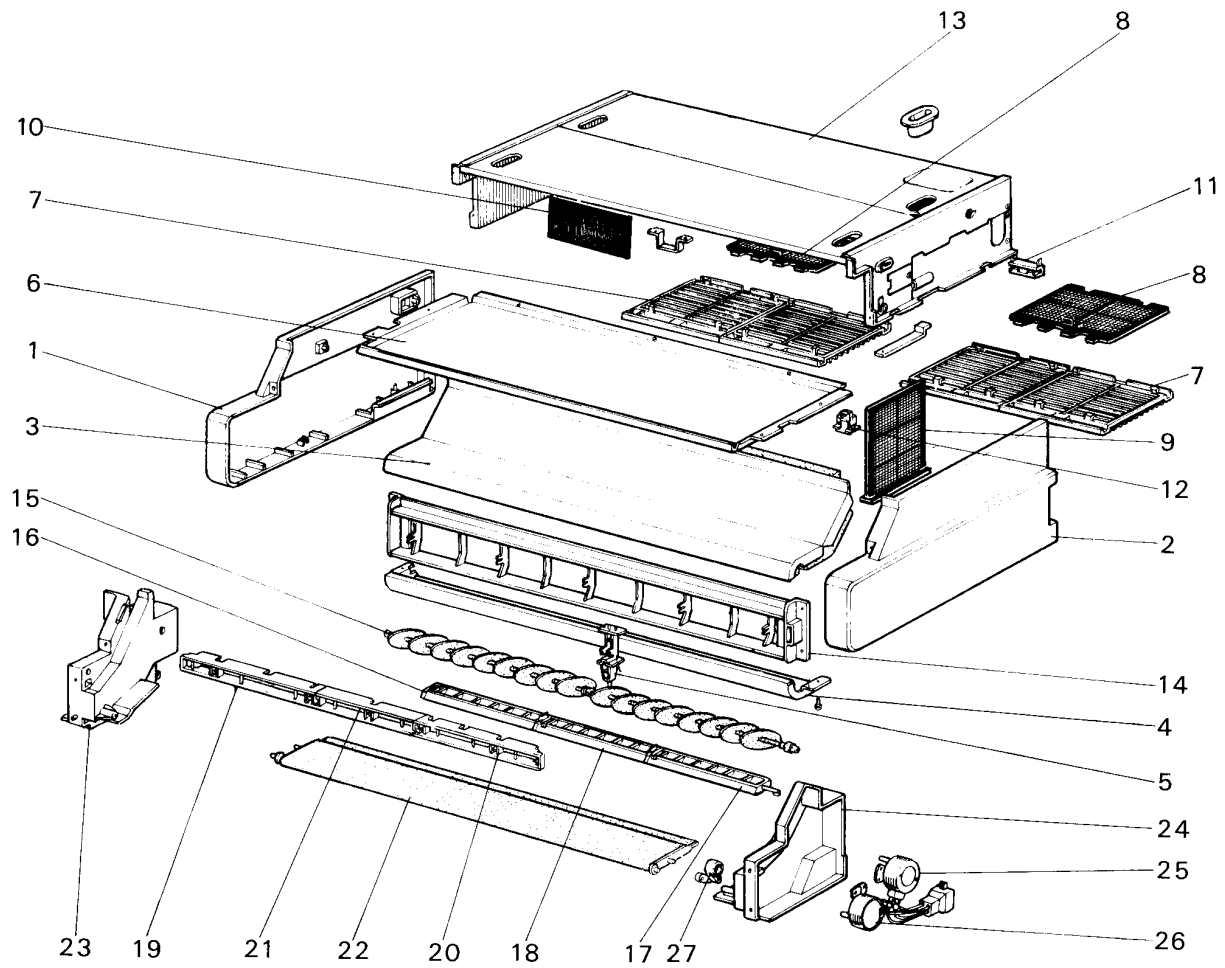
PLH30/36/42FK FUNCTIONAL PARTS





No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set			Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PLH 30FK	PLH 36FK	PLH 42FK				Unit	Amount
1	R01 K01 114	TURBO FAN	INDOOR FUNCTION	2	2	2	PLH-FK				
2	R01 K01 119	BELL MOUTH		2	2	2	PLH-FK				
3	T7W 420 762	FAN MOTOR	SGN-35DTA	2	2			MF1,2			
	T7W 418 762	FAN MOTOR	SGN-37DTA			2	PLH24FK	MF1,2			
4	R01 576 255	FAN CAPACITOR	3 μ F 440V	2	2	2	PLH-FK	C1,2			
5	T7W 353 300	HEATER ELEMENT	240V 867W	2				H1,2			
6	T7W 354 300	HEATER ELEMENT	240V 1000W		2	2		H1,2			
7	T7W 353 301	HEATER ELEMENT	240V 433W	2				H1,2			
8	T7W 354 301	HEATER ELEMENT	240V 500W		2	2		H1,2			
9	R01 069 700	THERMAL SWITCH	OFF 107°F ⁺ ON 90°F	2	2	2		26H1,2			
10	T7W 419 706	THERMAL FUSE	250V 15A 89°F	4	4	4		FS1,2			
11	R01 479 215	HEATER CONTACTOR	LY1F DC12V 15A	2	2	2		88H1,2			
12	T7W 421 716	TERMINAL BLOCK	3P (L1,L2,GR)	1	1	1	PLH-FK	TB1			
13	R01 377 246	TERMINAL BLOCK	3P (1,2,3)	1	1	1	PLH-FK	TB2			
14	R01 556 246	TERMINAL BLOCK	2P (1,2)	1	1	1	PLH-FK	TB3			
15	R01 L72 310	INDOOR CONTROLLER BOARD		1	1	1	PLH-FK	I.B			
16	T7W 410 239	FUSE	250V 6A	1	1	1	PLH-FK	F			
17	T7W 420 355	DRAIN PUMP		1	1	1	PLH-FK	DP			
18	R01 K01 266	DRAIN SENSOR		1	1	1	PLH-FK	DS			
19	R01 K01 523	DRAIN SOCKET		1	1	1	PLH-FK				
20	T7W 417 799	TRANSFORMER	RED:15.5VAC, 0.3A BRN:11.0VAC, 0.6A	1	1	1	PLH-FK	T			
21	T7W 419 480	INDOOR HEAT EXCHANGER		1							
	T7W 420 480	INDOOR HEAT EXCHANGER			1						
	T7W 421 480	INDOOR HEAT EXCHANGER				1					
22	T7W 413 529	DRAIN PAN		1	1	1					
23	R01 J01 202	ROOM TEMPERATURE THERMISTOR		1	1	1	PLH-FK	RT1			
24	R01 K01 202	INDOOR COIL THERMISTOR		1	1	1	PLH-FK	RT2			
25	T7W 417 200	REMOTE CONTROLLER		1	1	1	PLH-FK	R.B			
26	T7W 351 077	REMOTE CONTROLLER COVER		1	1	1	PLH-FK				
27	R01 L72 095	SCREW CAP		1	1	1	PLH-FK				
28	T7W 556 307	REMOTE CONTROLER CABLE		1	1	1	PLH-FK				
29	T7W 829 070	CONTROLLER CASE		1	1	1	PLH-FK				

PCH24/30EK STRUCTURAL PARTS

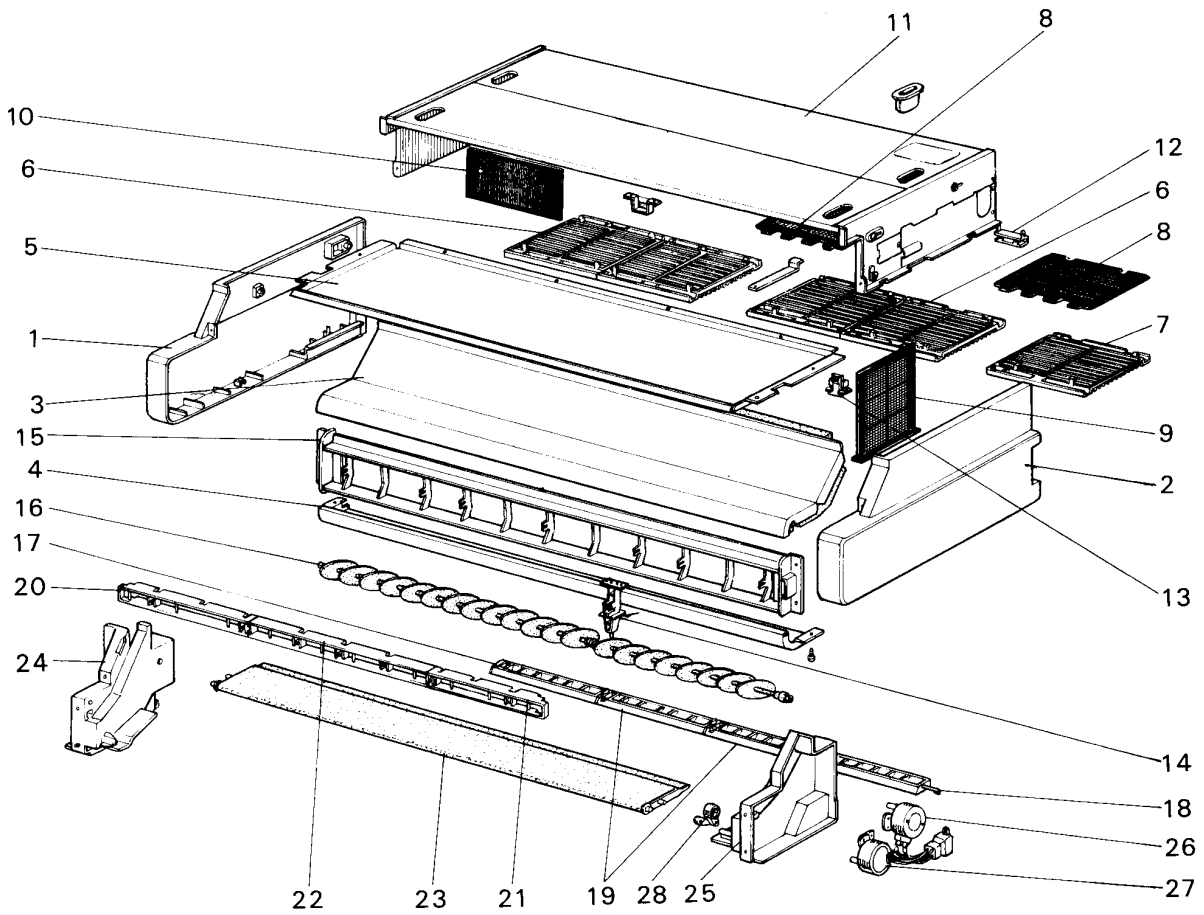




No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set		Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PCH24EK	PCH30EK				Unit	Amount
1	R01 055 662	SIDE PANEL (LEFT)		1	1	PCH-EK				
2	R01 055 661	SIDE PANEL (RIGHT)		1	1	PCH-EK				
3	R01 051 651	FRONT PANEL (UPPER)		1	1					
4	R01 045 652	FRONT PANEL (LOWER)		1	1					
5	R01 045 048	LOUVER SUPPORT		1	1	PCH-EK				
6	R01 051 669	LOWER PANEL		1	1					
7	R01 029 691	INTAKE GRILL		2	2	PCH-EK				
8	R01 029 500	AIR FILTER		4	4	PCH-EK				
9	R01 055 501	AIR FILTER (SUB)		1	1	PCH-EK				
10	T7W 051 501	AIR FILTER		1	1	PCH-EK				
11	R01 029 061	GRILL HINGE		4	4	PCH-EK				
12	R01 029 054	CATCH GRILL		4	4	PCH-EK				
13	T7W 052 676	REAR & TOP PLATE		1	1					
14	R01 051 001	FRONT GRILL		1	1					
15	R01 045 003	SWING LOUVER		1	1					
16	R01 029 089	LOWER LOUVER (LEFT)		1	1	PCH-EK				
17	R01 029 088	LOWER LOUVER (RIGHT)		1	1	PCH-EK				
18	R01 045 090	LOWER LOUVER (MIDDLE)		1	1	PCH-EK				
19	R01 029 086	FRONT LOUVER (LEFT)		1	1	PCH-EK				
20	R01 029 085	FRONT LOUVER (RIGHT)		1	1	PCH-EK				
21	R01 045 087	FRONT LOUVER (MIDDLE)		1	1					
22	R01 051 002	AUTO VANE		1	1					
23	R01 055 068	SIDE BOX (LEFT)		1	1	PCH-EK				
24	R01 055 067	SIDE BOX (RIGHT)		1	1	PCH-EK				
25	R01 029 222	LOUVER MOTOR		1	1	PCH-EK	ML			
26	T7W 029 223	VANE MOTOR		1	1	PCH-EK	MV			
27	R01 029 060	CRANK VANE		1	1	PCH-EK				
※ 28	R01 045 808	LEG		2	2	PCH-EK				

※This part is not shown in the illustration.

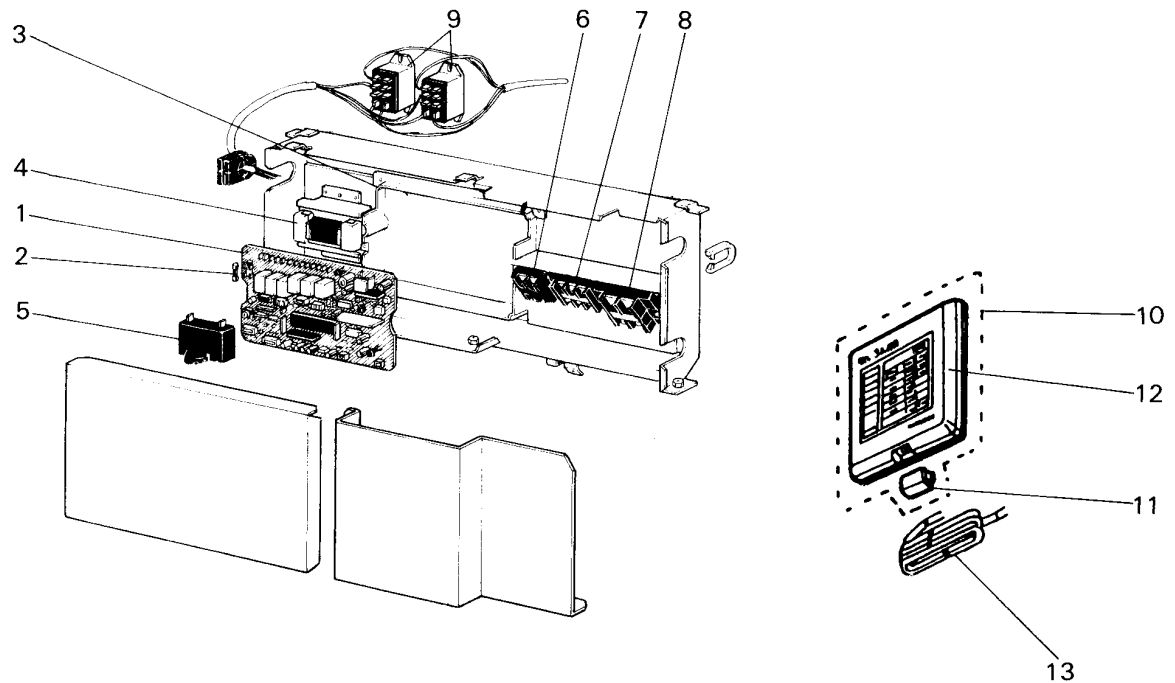
PCH36/42EK STRUCTURAL PARTS



No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set		Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PCH36EK	PCH42EK				Unit	Amount
1	R01 055 662	SIDE PANEL (LEFT)		1	1	PCH-EK				
2	R01 055 661	SIDE PANEL (RIGHT)		1	1	PCH-EK				
3	R01 055 651	FRONT PANEL (UPPER)		1	1					
4	R01 055 652	FRONT PANEL (LOWER)		1	1					
5	R01 055 669	LOWER PANEL		1	1					
6	R01 029 691	INTAKE GRILL		2	2	PCH-EK				
7	R01 029 692	INTAKE GRILL (2)		1	1					
8	R01 029 500	AIR FILTER		5	5	PCH-EK				
9	R01 055 501	AIR FILTER (SUB)		1	1	PCH-EK				
10	T7W 051 501	AIR FILTER		1	1	PCH-EK				
11	T7W 056 676	REAR & TOP PLATE		1	1					
12	R01 029 061	GRILL HINGE		6	6	PCH-EK				
13	R01 029 054	GRILL CATCH		5	5	PCH-EK				
14	R01 045 048	LOUVER SUPPORT		1	1	PCH-EK				
15	R01 055 001	FRONT GRILL		1	1					
16	R01 055 003	SWING LOUVER		1	1					
17	R01 029 089	LOWER LOUVER (LEFT)		1	1	PCH-EK				
18	R01 029 088	LOWER LOUVER (RIGHT)		1	1	PCH-EK				
19	R01 029 090	LOWER LOUVER (MIDDLE)		2	2	PCH-EK				
20	R01 029 086	FRONT LOUVER (LEFT)		1	1	PCH-EK				
21	R01 029 085	FRONT LOUVER (RIGHT)		1	1	PCH-EK				
22	R01 055 087	FRONT LOUVER (MIDDLE)		1	1					
23	R01 055 002	AUTO VANE		1	1					
24	R01 055 068	SIDE BOX (LEFT)		1	1	PCH-EK				
25	R01 055 067	SIDE BOX (RIGHT)		1	1	PCH-EK				
26	R01 029 222	LOUVER MOTOR		1	1	PCH-EK	ML			
27	T7W 029 223	VANE MOTOR		1	1	PCH-EK	MV			
28	R01 029 060	VANE CRANK		1	1	PCH-EK				
* 29	R01 045 808	LEG		2	2	PCH-EK				

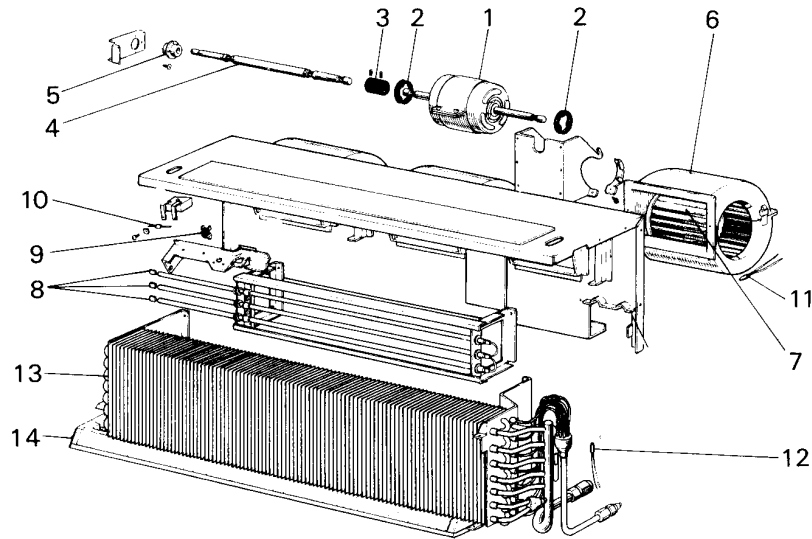
*This part is not shown in the illustration.

PCH24/30/36/42EK ELECTRICAL PARTS



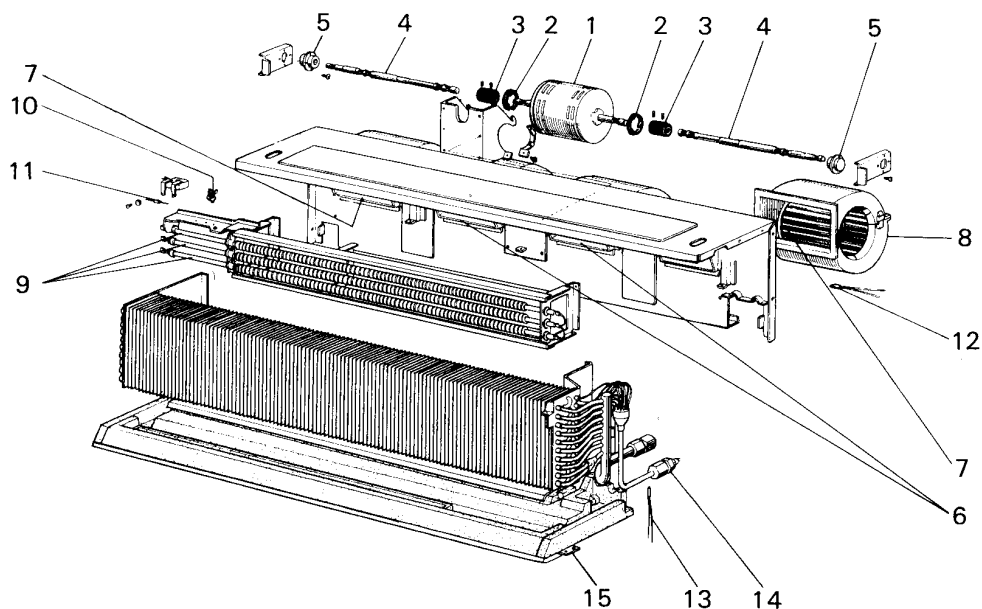
No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set				Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PCH 24EK	PCH 30EK	PCH 36EK	PCH 42EK				Unit	Amount
1	R01 L72 310	INDOOR CONTROLLER BOARD		1	1	1	1		I.B			
2	T7W 410 239	FUSE	250V 6A	1	1	1	1		F			
3	T7W 829 070	CONTROLLER CASE		1	1	1	1					
4	T7W 430 260	TRANSFORMER	RED:15.5VAC, 0.3A BRN:11.0VAC, 0.6A	1	1	1	1		T			
5	T7W 045 255	FAN CAPACITOR	3.5 μ F 500V	1	1							
	T7W 055 255	FAN CAPACITOR	4 μ F 500V			1	1		C			
6	R01 556 246	TERMINAL BLOCK	TO REMOTE CON- TROLLER 2P (1,2)	1	1	1	1		TB3			
7	R01 377 246	TERMINAL BLOCK	TO OUTDOOR 3P (1,2,3)	1	1	1	1		TB2			
8	R01 998 246	TERMINAL BLOCK	POWER SUPPLY 2P (L1,L2)	1	1	1	1		TB1			
9	T2W 359 342	HEATER CONTACTOR	LY-2F DC-12V	1					88H			
	R01 479 215	HEATER CONTACTOR	LY-1F DC-12V 15A		2	2	2		88H1,2			
10	T7W 430 200	REMOTE CONTROLLER		1	1	1	1		R.B			
11	R01 L72 095	SCREW CAP		1	1	1	1					
12	T7W 351 077	REMOTE CONTROLLER COVER		1	1	1	1					
13	T7W 556 305	REMOTE CONTROLLER CABLE	39ft	1	1	1	1					

PCH24/30EK FAN & HEATER PARTS



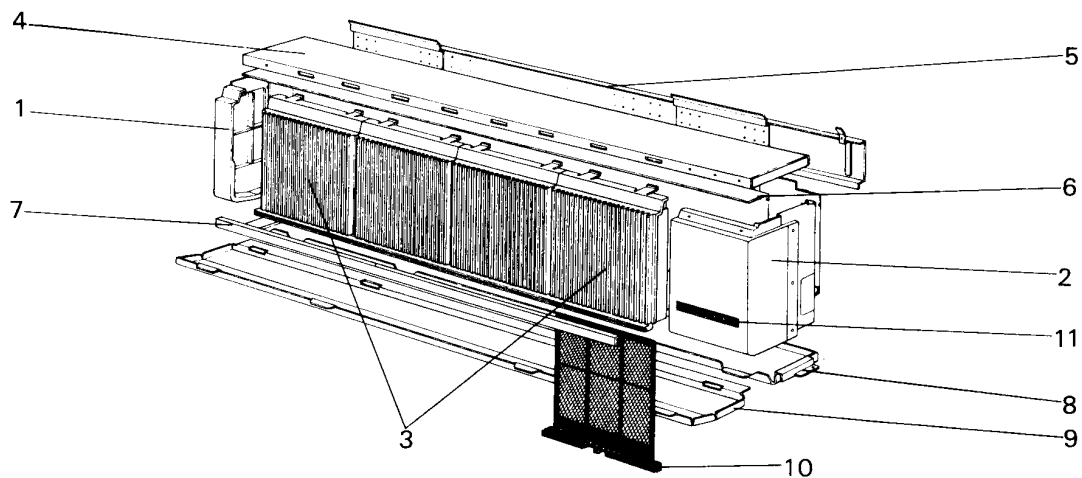
No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set		Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PCH24EK	PCH30EK				Unit	Amount
1	T7W 051 762	FAN MOTOR	VB090CE	1	1		MF			
2	R01 811 105	RUBBER MOUNT		2	2					
3	R01 700 116	JOINT (SHAFT)		1	1	PCH-EK				
4	R01 G12 100	FAN SHAFT		1	1					
5	R01 621 103	SLEEVE BEARING		1	1					
6	R01 055 110	CASING SET		3	3					
7	R01 G18 114	SIROCCO FAN		3	3	PCH-EK				
8	T7W 503 300	HEATER ELEMENT	240V 700W	3			H			
	T7W 051 300	HEATER ELEMENT	240V 900W		3		H			
9	R01 046 700	THERMAL SWITCH	OFF 108°F ON 90°F	1	1	PCH-EK	26H			
10	R01 046 706	THERMAL FUSE	196°F 250V 10A	1		PCH36/42EK	FS			
	R01 W58 706	THERMAL FUSE	228°F 250V 15A		1		FS			
11	R01 J07 202	ROOM TEMPERATURE THERMISTOR		1	1	PCH-EK	RT1			
12	R01 J21 202	INDOOR COIL THERMISTOR		1	1	PCH-EK	RT2			
13	T7W 430 480	INDOOR HEAT EXCHANGER		1						
	T7W 431 480	INDOOR HEAT EXCHANGER			1					
14	T7W 051 529	DRAIN PAN		1	1					

PCH36/42EK FAN & HEATER PARTS



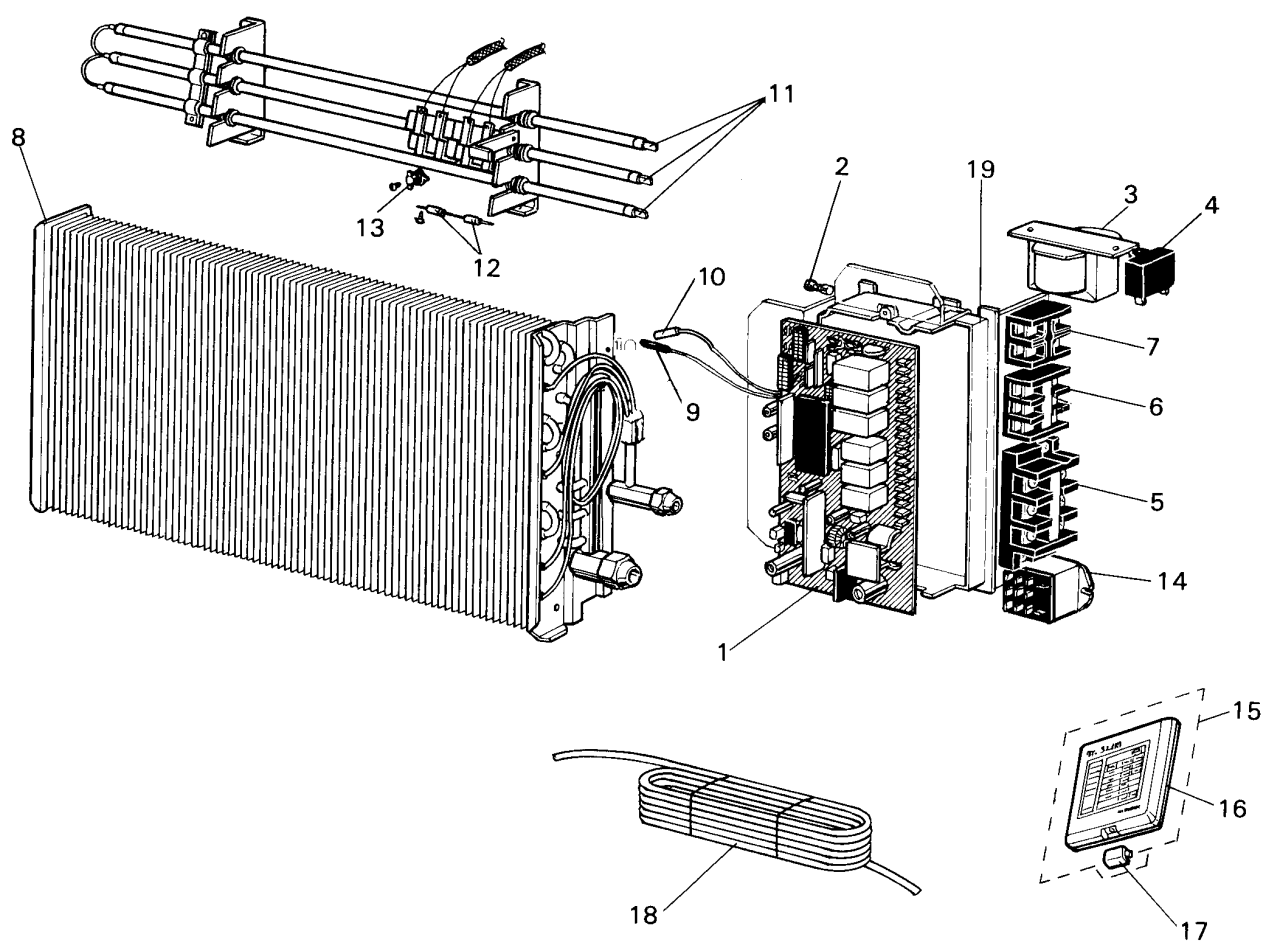
No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set		Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PCH36EK	PCH42EK				Unit	Amount
1	T7W 055 762	FAN MOTOR	KVB152CC	1	1		MF			
2	R01 560 105	RUBBER MOUNT		2	2					
3	R01 700 116	JOINT (SHAFT)		2	2	PCH-EK				
4	R01 G24 100	FAN SHAFT		2	2					
5	R01 705 103	SLEEVE BEARING		2	2					
6	R01 G18 114	SIROCCO FAN		2	2	PCH-EK				
7	R01 G24 114	SIROCCO FAN		2	2					
8	R01 055 110	CASING SET		4	4	PCH-EK				
9	T7W 509 300	HEATER ELEMENT	240V 1000W	3	3		H			
10	R01 046 700	HEATER THERMAL SWITCH	OFF 108°F ON 90°F	1	1	PCH-EK	26H			
11	R01 986 706	THERMAL FUSE	217°F 250V 10A	2						
	R01 W58 706	THERMAL FUSE	228°F 250V 15A		1	PCH30EK	FS			
12	R01 J07 202	ROOM TEMPERATURE THERMISTOR		1	1	PCH-EK	RT1			
13	R01 J21 202	INDOOR COIL THERMISTOR		1	1	PCH-EK	RT2			
14	T7W 432 480	INDOOR HEAT EXCHANGER		1						
	T7W 433 480	INDOOR HEAT EXCHANGER			1					
15	T7W 055 529	DRAIN PAN		1	1					

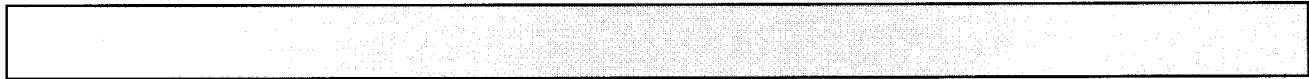
PKH18/24/30EK STRUCTURAL PARTS



No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set			Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PKH 18EK	PKH 24EK	PKH 30EK				Unit	Amount
1	R01 566 662	SIDE PANEL (LEFT)	INDOOR STRUCTURAL	1	1	1	PK-EK PKL-EK				
2	T7W 930 661	SIDE PANEL (RIGHT)		1	1	1	PK-EK PKL-EK				
3	R01 566 691	INTAKE GRILL		4	4	4	PK-EK PKL-EK				
4	R01 806 641	TOP PLATE		1	1	1	PK18/24/30EK PKL18/24EK				
5	R01 569 808	WALL FRAME		1	1	1	PK18/24/30EK PKL18/24EK				
6	R01 806 676	SCROLL PLATE		1	1	1					
7	R01 569 001	COVER (GRILLE)		1	1	1	PK18/24/30EK PKL18/24EK				
8	T7W 936 812	LOW PLATE (REAR)		1	1	1	PK18/24/30EK PKL18/24EK				
9	R01 569 811	LOW PLATE (FRONT)		1	1	1	PK18/24/30EK PKL18/24EK				
10	R01 566 500	AIR FILTER		4	4	4	PK-EK PKL-EK				
11	T7W 440 820	BADGE		1	1	1	PK-EK PKL-EK				

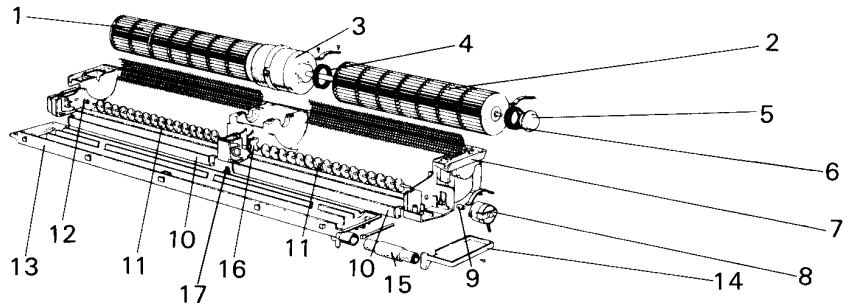
PKH18/24/30EK ELECTRICAL PARTS





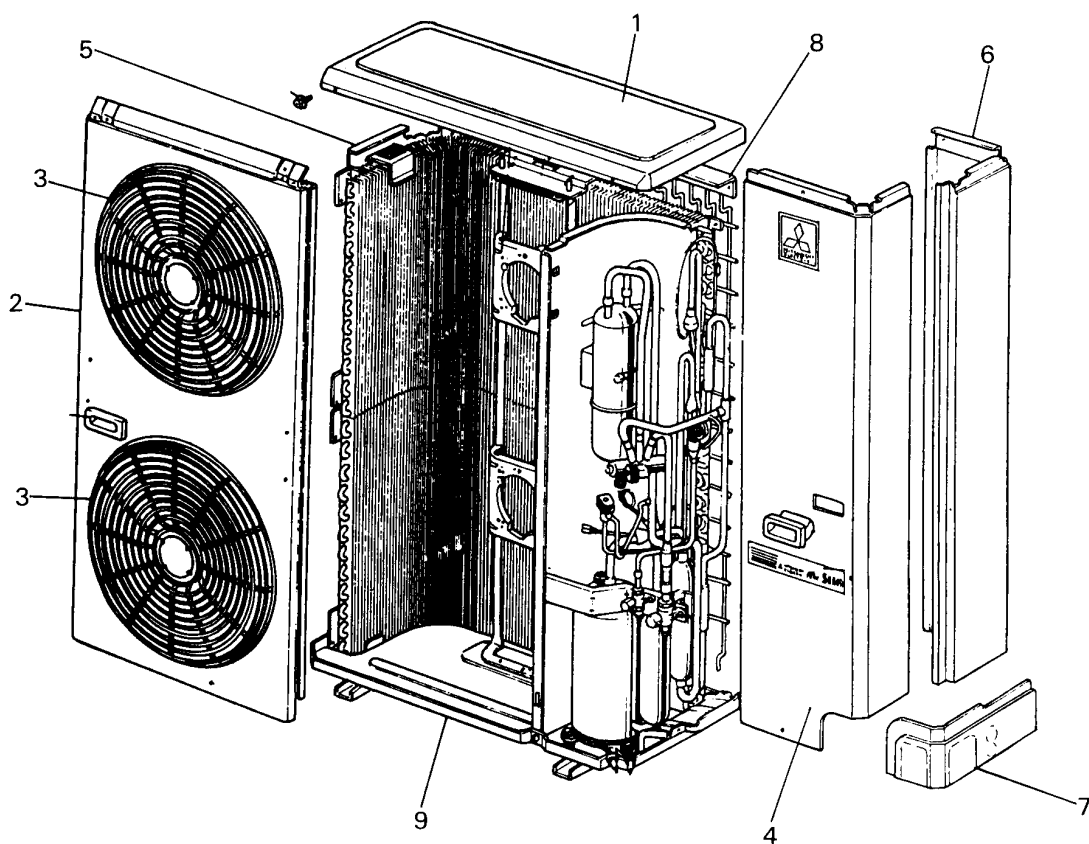
No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set			Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PKH 18EK	PKH 24EK	PKH 30EK				Unit	Amount
1	R01 L72 310	INDOOR CONTROLLER BOARD		1	1	1	PLH-FK	I.B			
2	T7W 410 239	FUSE	250V 6A	1	1	1	PLH-FK	F			
3	T7W 417 799	TRANSFORMER	RED:15.5VAC, 0.3A BRN:11.0VAC, 0.6A	1	1	1	PLH-FK	T			
4	R01 566 255	FAN CAPACITOR	1.8 μ F 440V	1	1	1		C			
5	R01 998 246	TERMINAL BLOCK	2P (L1,L2)	1	1	1		TB1			
6	R01 377 246	TERMINAL BLOCK	3P (1,2,3)	1	1	1		TB2			
7	R01 556 246	TERMINAL BLOCK	2P (1,2)	1	1	1	PK-EK PKL-EK	TB3			
8	T7W 440 480	INDOOR HEAT EXCHANGER		1							
	T7W 441 480	INDOOR HEAT EXCHANGER			1						
	T7W 442 480	INDOOR HEAT EXCHANGER				1					
9	R01 005 202	ROOM TEMPERATURE THERMISTOR		1	1	1	PK-EK PKL-EK	RT1			
10	R01 J07 202	INDOOR COIL THERMISTOR		1	1	1	PK-EK PKL-EK	RT2			
11	T7W 804 300	HEATER ELEMENT	240V 700W	3	3	3		H			
12	R01 641 706	THERMAL FUSE	239°F 10A	1	1	1		FS			
13	R01 230 700	HEATER THERMAL SWITCH	OFF 158°F ON 122°F	1	1	1		26H			
14	R01 673 215	HEATER CONTACTOR	LY-2F DC-12V 10A	1	1	1		88H			
15	T7W 440 200	REMOTE CONTROLLER		1	1	1		R.B			
16	T7W 351 077	REMOTE CONTROLLER COVER		1	1	1	PK-EK PKL-EK				
17	R01 L72 095	SCREW CAP		1	1	1	PK-EK PKL-EK				
18	T7W 556 305	REMOTE CONTROLLER CABLE	39ft	1	1	1	PK-EK PKL-EK				
19	T7W 829 070	CONTROLLER CASE		1	1	1	PK-EK PKL-EK				

PKH18/24/30EK FAN PARTS



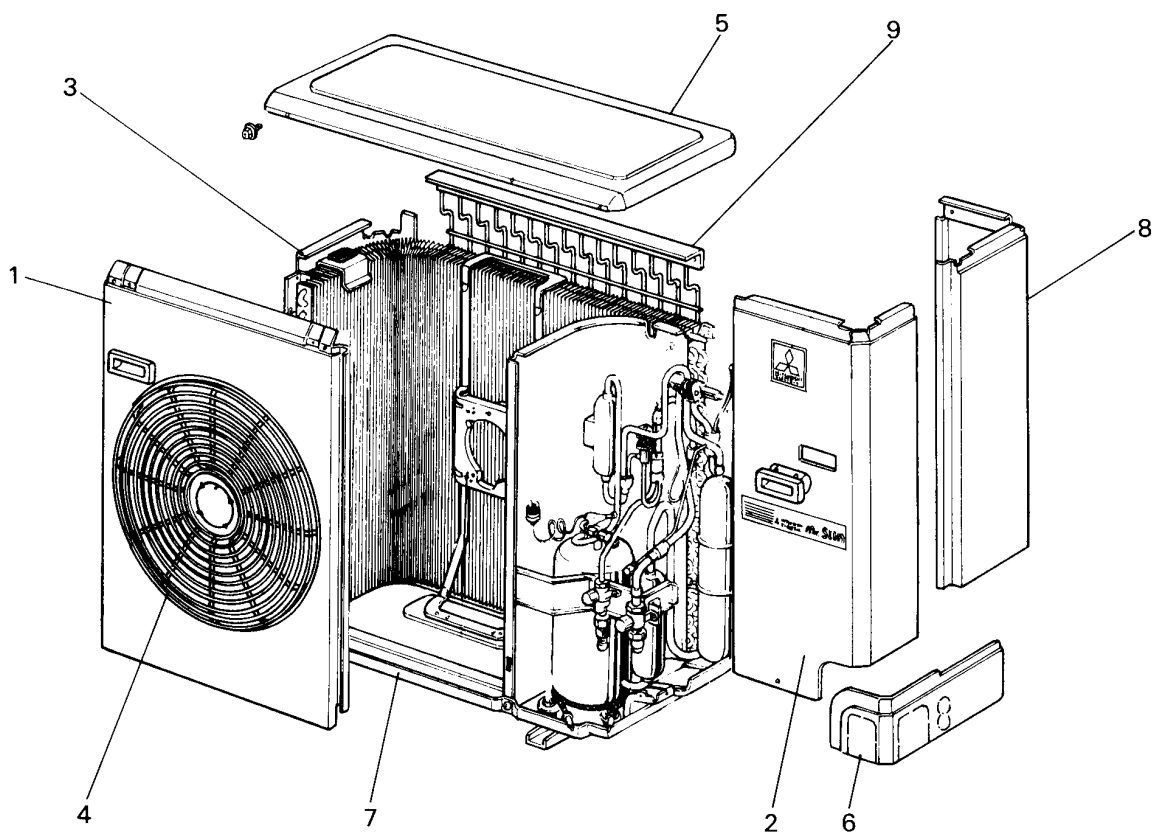
No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set			Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PKH 18EK	PKH 24EK	PKH 30EK				Unit	Amount
1	R01 808 114	LINE FLOW FAN (LEFT)	INDOOR FAN PARTS	1	1	1	PK18/24EK PKL18/24EK				
2	R01 808 115	LINE FLOW FAN (RIGHT)		1	1	1	PK-EK PKL-EK				
3	T7W 440 762	FAN MOTOR	DFD-53C-LN	1	1	1		MF			
4	R01 566 105	RUBBER MOUNT		2	2	2	PK-EK PKL-EK				
5	R01 566 103	SLEEVE BEARING		2	2	2	PK-EK PKL-EK				
6	R01 566 102	BEARING MOUNT		2	2	2	PK-EK PKL-EK				
7	T7W 936 117	SCROLL ASSEMBLY		1			PK18EK PKL18EK				
	T7W 938 117	SCROLL ASSEMBLY			1	1	PK18/24EK PKL18/24EK				
8	T7W 802 222	LOUVER MOTOR		1	1	1		ML			
9	R01 566 153	LOUVER JOINT		1	1	1	PK-EK PKL-EK				
10	R01 569 002	GUIDE VANE		2	2	2	PK18/24EK PKL18/24EK				
11	R01 808 003	SWING LOUVER		2	2	2	PK18/24EK PKL18/24EK				
12	R01 566 150	BUSHING LOUVER		1	1	1	PK-EK PKL-EK				
13	R01 569 529	DRAIN PAN		1	1	1	PK18/24EK PKL18/24EK				
14	T7W 930 531	DRAIN COVER		1	1	1	PK18/24EK PKL18/24EK				
15	T7W 930 527	DRAIN HOSE		1	1	1	PK18/24EK PKL18/24EK				
16	R01 566 063	JOINT SET SLOVE		1	1	1	PK18/24EK PKL18/24EK				
17	R01 566 124	SCROLL BUSHING		1	1	1	PK18/24EK PKL18/24EK				

PUH24EK STRUCTURAL PARTS



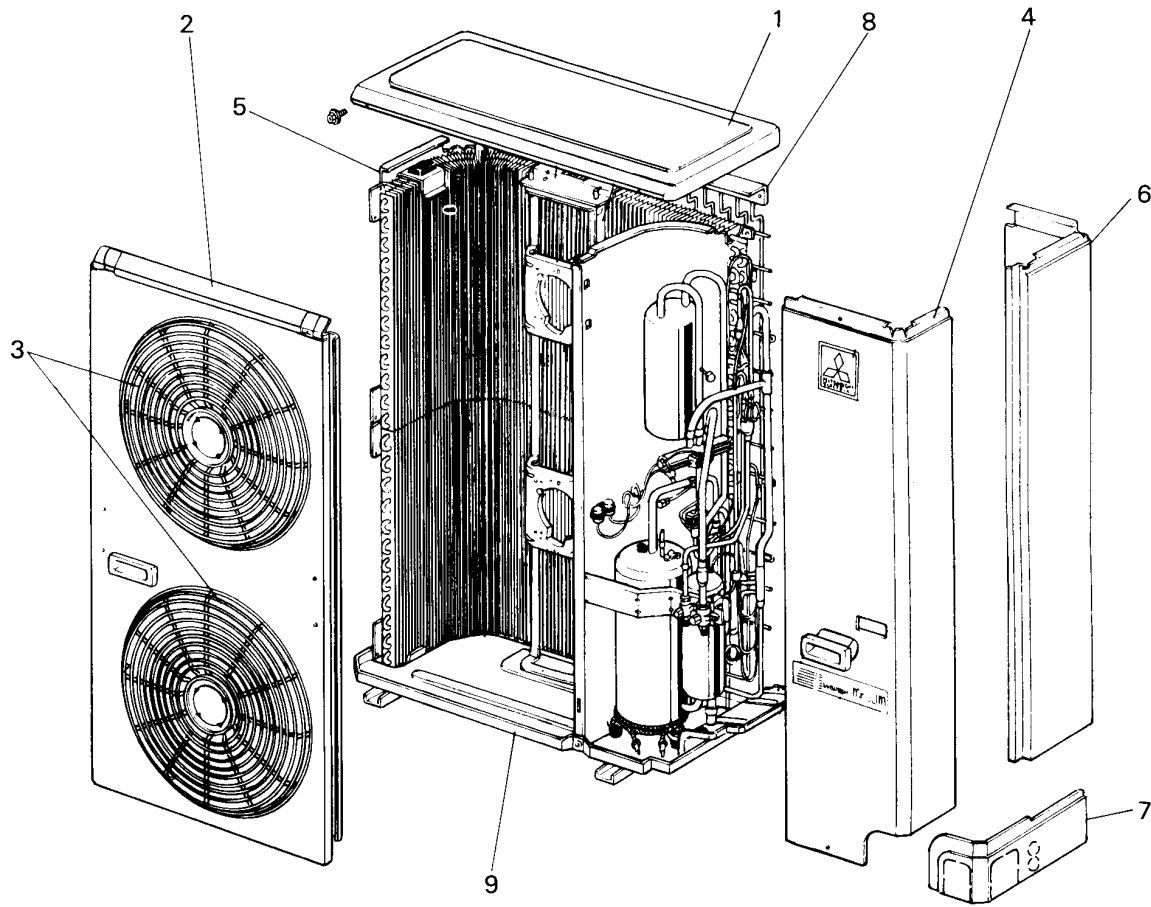
No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set	Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PUH24EK				Unit	Amount
1	R01 A00 641	TOP PANEL		1					
2	R01 A11 668	FRONT PANEL		1					
3	R01 A00 675	FAN GUARD		2					
4	R01 A11 661	SERVICE PANEL		1					
5	R01 A11 662	SIDE PANEL (LEFT)		1					
6	R01 A11 682	REAR PANEL		1					
7	R01 A00 658	PANEL COVER		1					
8	R01 A11 698	REAR GUARD		1					
9	R01 A10 686	BASE ASSEMBLY		1					

PUH18EK STRUCTURAL PARTS



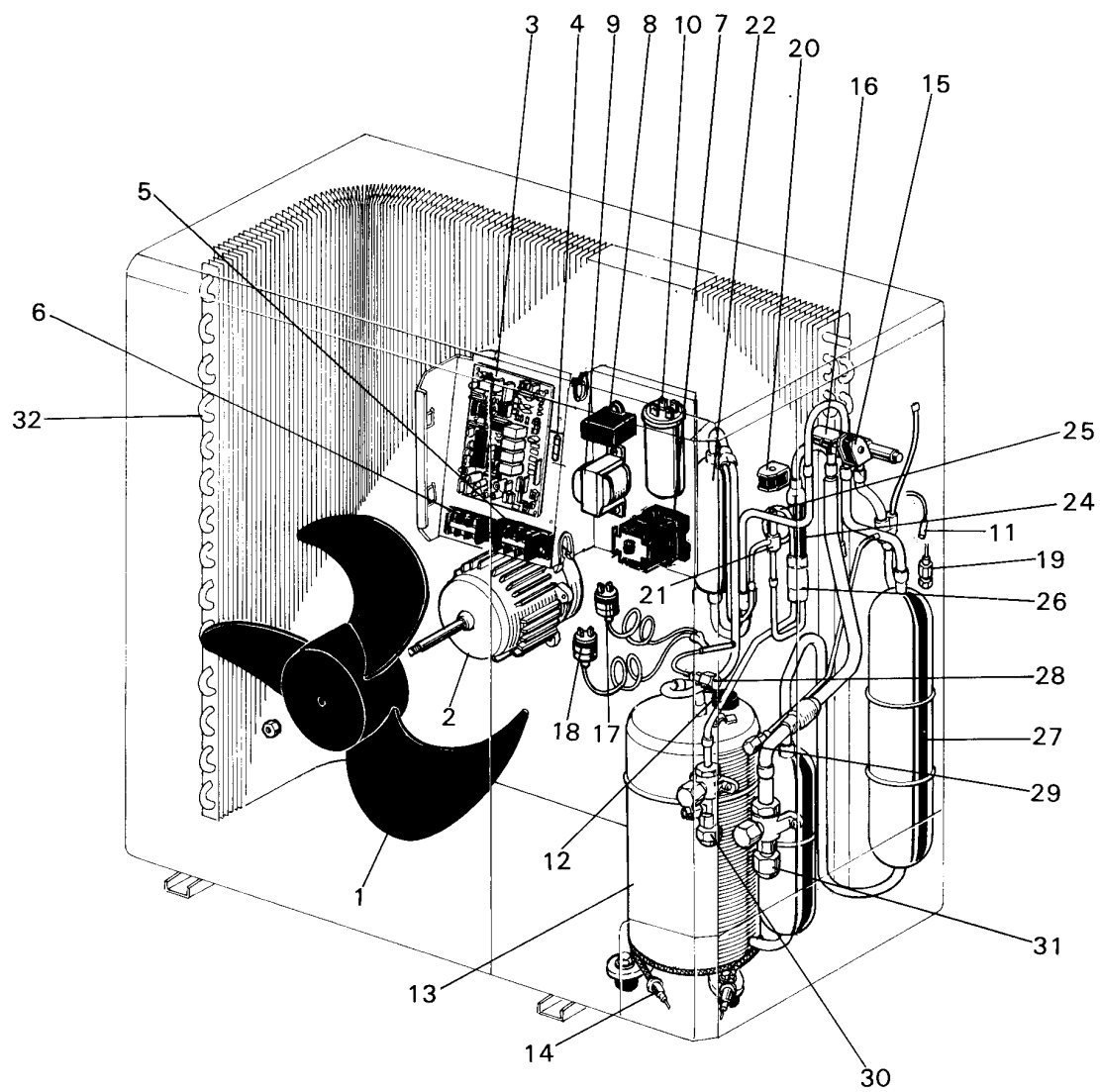
No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set	Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PUH18EK				Unit	Amount
1	R01 A08 668	FRONT PANEL	OUTDOOR STRUCTV	1	PUL18EK PU18EK PUH18EK				
2	R01 A08 661	SERVICE PANEL		1	PUL18EK PU18EK PUH18EK				
3	R01 A08 662	SIDE PANEL		1	PUL18EK PU18EK PUH18EK				
4	R01 A00 675	FAN GUARD		1	PUL18EK PU18EK PUH18EK				
5	R01 A00 641	TOP PANEL		1	PUL18EK PU18EK PUH18EK				
6	R01 A00 658	PANEL COVER		1	PUL18EK PU18EK PUH18EK				
7	R01 A00 686	BASE ASSEMBLY		1	PUL18EK PU18EK PUH18EK				
8	R01 A08 682	REAR PANEL		1	PUL18EK PU18EK PUH18EK				
9	R01 A08 698	REAR GUARD		1	PUL18EK PU18EK PUH18EK				

PUH30/36/42EK STRUCTURAL PARTS



No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set			Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PUH 30EK	PUH 36EK	PUH 42EK				Unit	Amount
1	R01 A14 641	TOP PANEL		1	1	1					
2	R01 A14 668	FRONT PANEL		1	1	1					
3	R01 A00 675	FAN GUARD		2	2	2					
4	R01 A14 661	SERVICE PANEL		1	1	1					
5	R01 A14 662	SIDE PANEL (LEFT)		1	1	1					
6	R01 A14 682	REAR PANEL		1	1	1					
7	R01 A00 658	PANEL COVER		1	1	1					
8	R01 A14 698	REAR GUARD		1	1	1					
9	R01 A14 686	BASE ASSEMBLY		1	1	1					

PUH18EK FUNCTIONAL PARTS

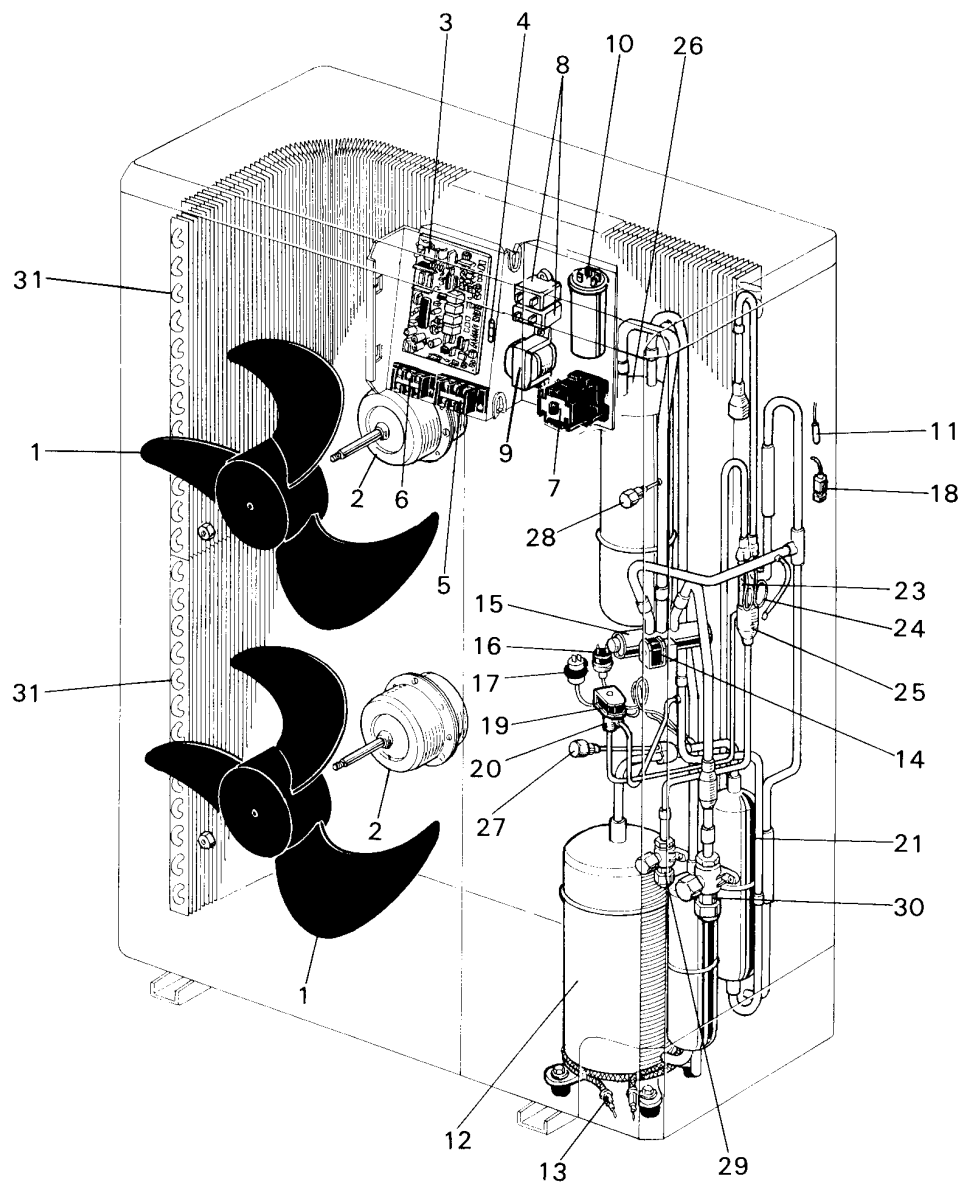




*This part is not shown in the illustration.

No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set	Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PUH18EK				Unit	Amount
1	R01 A00 115	PROPELLER	OUTDOOR FUNCTION	1	PUH-EK				
2	T7W 850 763	FAN MOTOR	S6V-85FPH	1	PUL12/18EK PU18EK PUH18EK	MF			
3	T7W A30 315	OUTDOOR CONTROLLER BOARD		1	PUH-EK	O.B.			
4	T7W 410 239	FUSE	250V 6A	1	PUH-EK	F			
5	T7W 850 716	TERMINAL BLOCK	3P(L1,L2,GR)	1	PUH-EK	TB1			
6	R01 377 246	TERMINAL BLOCK	3P(1,2,3)	1	PUH-EK	TB3			
7	T7W A30 708	CONTACTOR	S-U12 208/230V	1	PUH18EK PUL12EK	52C			
8	R01 576 255	FAN CAPACITOR	3 μ F 440V	1	PUL18EK PU18EK PUH18EK	C1			
9	T7W A30 799	TRANSFORMER	RED:12.3VAC, 0.06A BRN:12.3VAC, 0.06A	1	PUH-EK	T			
10	T7W 969 723	COMPRESSOR CAPACITOR	30 μ F 370V	1	PUL18EK PU18EK PUH18EK	C			
11	R01 J01 202	OUTDOOR COIL THERMISTOR		1	PUL12/18EK PU18EK PUH18EK	RT			
12	T7W 969 238	OVERCURRENT RELAY	MRA98881-90	1	PUL18EK PU18EK PUH18EK	51C			
13	T97 665 600	COMPRESSOR	RH-247NAB	1	PUL18EK PU18EK PUH18EK	MC			
14	T7W 850 236	CRANKCASE HEATER	240V 30W	1	PUL12/18EK PU18EK PUH18EK	HC			
15	T7W 875 242	R.V. COIL		1	PUH18/ 36/42EK	21S4			
16	T7W 875 403	4-WAY VALVE		1					
17	R01 A00 208	CONTROL HIGH PRESSURE SWITCH	OPEN psiG 363	1	PUH-EK	63H1			
18	T7W A30 208	PROTECT HIGH PRESSURE SWITCH	OPEN psiG 469	1	PUH-EK	63H2			
19	T7W 973 507	FUSIBLE PLUG		1	PU(H)-EK				
20	T7W 869 242	B.V. COIL		1		21R			
21	R01 272 428	BYPASS VALVE		1	PUH18/24EK				
22	R01 V39 490	OIL SEPARATOR		1					
* 23	R01 A00 425	CAPILLARY TUBE	0.098×0.024×39.4	1					
24	R01 L11 418	RESTRICTOR VALVE		1					
25	T7W 851 425	CAPILLARY TUBE	0.157×0.079×33.5	1					
26	R01 A04 450	STRAINER		1					
27	R01 A08 440	ACCUMULATOR		1					
28	R01 590 413	CHARGE PLUG		1					
29	R01 943 413	CHARGE PLUG		1					
30	R01 943 410	BALL VALVE	3/8	1					
31	R01 951 411	BALL VALVE	5/8	1					
32	R01 A10 408	OUTDOOR HEAT EXCHANGER		1					

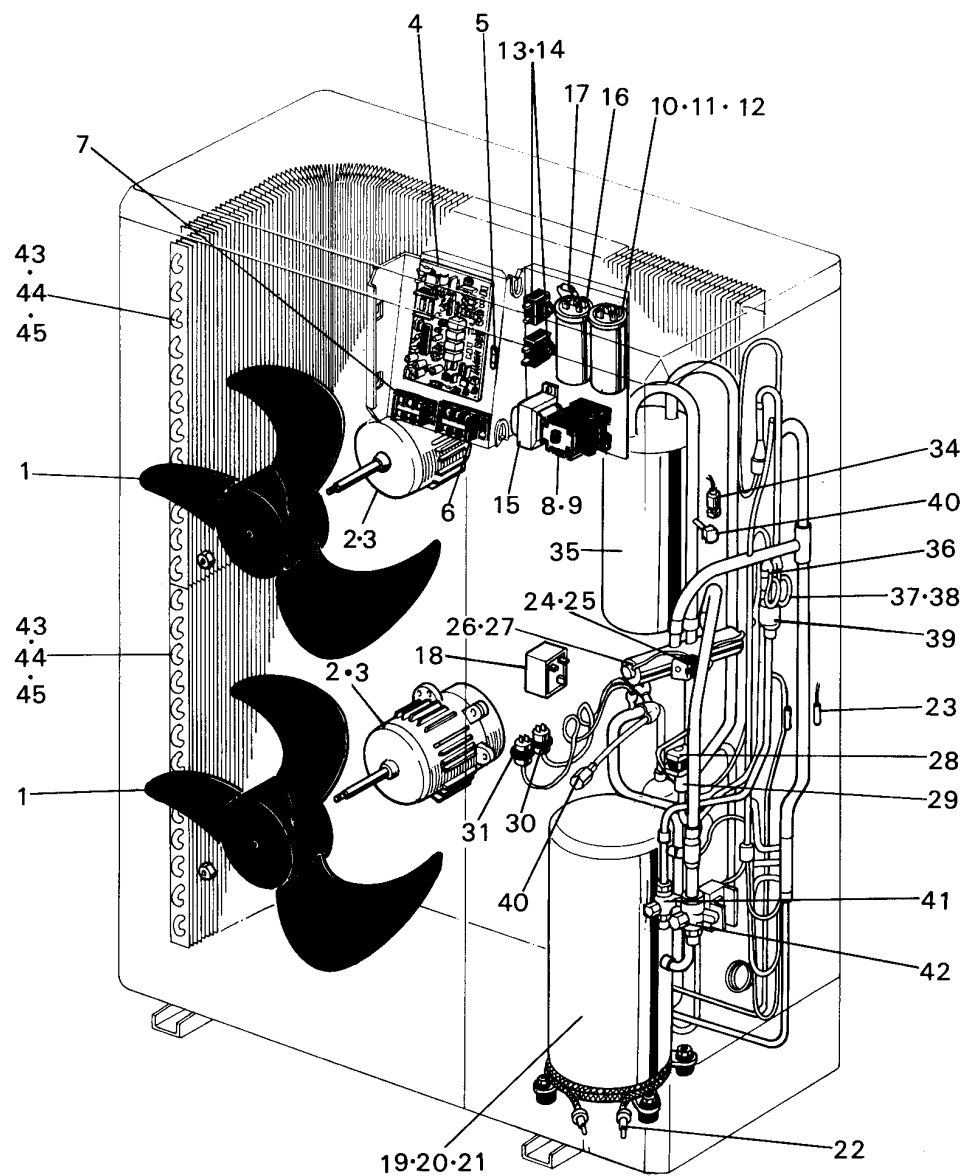
PUH24EK FUNCTIONAL PARTS



※This part is not shown in the illustration.

No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set	Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PUH24EK				Unit	Amount
1	R01 A00 115	PROPELLER	OUTDOOR FUNCTION	2	PUH-EK				
2	T7W 851 763	FAN MOTOR	S6V-60FPP	2	PU24/30EK PUL24/30EK PUH24EK	MF1,2			
3	T7W A30 315	OUTDOOR CONTROLLER BOARD		1	PUH-EK	O.B.			
4	T7W 410 239	FUSE	250V 6A	1	PUH-EK	F			
5	T7W 850 716	TERMINAL BLOCK	3P(L1,L2,GR)	1	PUH-EK	TB1			
6	R01 377 246	TERMINAL BLOCK	3P(1,2,3)	1	PUH-EK	TB3			
7	T7W 867 708	CONTACTOR	S-K25UR 208/230	1	PU24/30/36EK PUH24/30/36EK	52C			
8	R01 653 255	FAN CAPACITOR	4 μ F 440V	2	PUH24/30/ 42EK	C1,2			
9	T7W A30 799	TRANSFORMER	RED:12.3VAC, 0.06A BRN:12.3VAC, 0.06A	1	PUH-EK	T			
10	T7W 973 723	COMPRESSOR CAPACITOR	40 μ F 400V	1	PUH24EK PU24EK PUL24EK	C			
11	R01 J07 202	OUTDOOR COIL THERMISTOR		1		RT			
12	T97 517 300	COMPRESSOR	NH-33NBD	1	PUH24EK PU24EK PUL24EK	MC			
13	T7W 851 236	CRANKCASE HEATER	240V 43W	1	PU24/30/36/42EK(2) PUH24/30/36/42EK	HC			
14	T7W A31 242	R.V. COIL		1	PUH24/30EK	21S4			
15	T7W 260 403	4-WAY VALVE		1					
16	R01 A00 208	CONTROL HIGH PRESSURE SWITCH	OPEN psiG 363	1	PUH-EK	63H1			
17	T7W A30 208	PROTECT HIGH PRESSURE SWITCH	OPEN psiG 469	1	PUH-EK	63H2			
18	T7W 973 507	FUSIBLE PLUG		1	PUH-EK				
19	T7W 869 242	B.V. COIL		1	PUH-EK	21R			
20	R01 272 428	BYPASS VALVE		1	PUH18/24EK				
21	R01 A14 490	OIL SEPARATOR		1	PUH24/30/ 36/42EK				
* 22	R01 A00 425	CAPILLARY TUBE	0.098×0.024×39.4	1					
23	R01 993 418	RESTRICTOR VALVE		1	PUH24/30/ 36/42EK				
24	R01 600 425	CAPILLARY TUBE	0.126×0.063×17.3	2					
25	R01 A11 450	STRAINER		1					
26	R01 A12 440	ACCUMULATOR		1					
27	R01 590 413	CHARGE PLUG		1					
28	R01 943 413	CHARGE PLUG		1					
29	R01 943 410	BALL VALVE	3/8	1					
30	R01 951 411	BALL VALVE	5/8	1					
31	T7W A31 408	OUTDOOR HEAT EXCHANGER		2					

PUH30/36/42EK FUNCTIONAL PARTS



※This part in not shown in the illustration.

No.	Parts No.	Parts Name	Specifications Drawing No.	Q'ty/set			Remarks	Circuit Diagram Symbol	Recom- mended Q'ty	Price	
				PUH 30EK	PUH 36EK	PUH 42EK				Unit	Amount
1	R01 A00 115	PROPELLER	OUTDOOR FUNCTION	2	2	2	PUH-EK				
2	T7W 852 763	FAN MOTOR	VC086DC	2	2		PUH30/36EK PU36EK	MF1,2			
3	T7W 853 763	FAN MOTOR	S6V100F-PH			2	PU42EK2 PUH42EK	MF1,2			
4	T7W A30 315	OUTDOOR CONTROLLER BOARD		1	1	1	PUH-EK	O.B.			
5	T7W 410 239	FUSE	250V 6A	1	1	1	PUH-EK	F			
6	T7W 850 716	TERMINAL BLOCK	3P(L1,L2,GR)	1	1	1	PUH-EK	TB1			
7	R01 377 246	TERMINAL BLOCK	3P(1,2,3)	1	1	1	PUH-EK	TB3			
8	T7W 867 708	CONTACTOR	S-K25UR	1	1		PU24/30/36EK PUH24/30/36EK	52C			
9	T7W 868 708	CONTACTOR	S-K35UR			1	PU42EK2 PUH42EK	52C			
10	T7W 867 723	COMPRESSOR CAPACITOR	50 μ F 400V	1				C			
11	T7W 975 723	COMPRESSOR CAPACITOR	60 μ F 360V		1			C			
12	T7W A34 723	COMPRESSOR CAPACITOR	55 μ F 400V			1		C			
13	R01 653 255	FAN CAPACITOR	4 μ F 440V	2		2		C1,2			
14	R01 576 255	FAN CAPACITOR	3 μ F 440V		2			C1,2			
15	T7W A30 799	TRANSFORMER	RED:12.3VAC, 0.06A BRN:12.3VAC, 0.06A	1	1	1	PUH-EK	T			
16	T7W 853 723	COMPRESSOR START CAPACITOR	65 μ F 400V			1		C5			
17	T7W A34 234	RESISTOR	15K 4W			1		R			
18	T7W A34 704	COMPRESSOR START RELAY	AMVL320B			1		19			
19	T97 511 300	COMPRESSOR	NH-41NAD	1			PU30EK PUH30EK	MC			
20	T97 518 300	COMPRESSOR	NN-47NAD		1		PU36EK PUH36EK	MC			
21	T97 513 300	COMPRESSOR	NH-569NXA			1	PU42EK2 PUH42EK	MC			
22	T7W 851 236	CRANKCASE HEATER	240V 43W	1	1	1	PUH24/30/ 36/42EK	HC			
23	R01 J01 202	THERMISTOR	PIPE TEMPERATURE	1	1	1	PUH30/36/ 42EK	RT			
24	T7W A31 242	R.V. COIL		1			PUH24/30EK	21S			
25	T7W 875 242	R.V. COIL			1	1	PUH18/36/ 42EK	21S4			
26	T7W 261 403	4-WAY VALVE		1							
27	T7W 258 403	4-WAY VALVE			1	1	PUH36/42EK				
28	T7W 869 242	B.V. COIL		1	1	1	PUH-EK	21R			
29	R01 A14 428	BYPASS VALVE		1	1	1	PUH30/36/ 42EK				
30	R01 A00 208	CONTROL HIGH PRESSURE SWITCH	OPEN psiG 363	1	1	1	PUH-EK	63H1			
31	T7W A30 208	PROPECT HIGH PRESSURE SWITCH	OPEN psiG 469	1	1	1	PUH-EK	63H2			
*32	R01 A14 490	OIL SEPARATOR		1	1	1	PUH24/30/ 36/42EK				
*33	R01 A00 425	CAPILLARY TUBE	2.5×0.6-1000mm								
34	T7W 973 507	FUSIBLE PLUG		1	1	1					
35	R01 A14 440	ACCUMULATOR		1	1	1	PUH30/36/ 42EK				
36	R01 993 418	RESTRICTOR VALVE		2	2	2	PUH24/30/ 36/42EK				
37	R01 591 425	CAPILLARY TUBE	0.157×0.079×23.6	2							
38	R01 591 425	CAPILLARY TUBE	0.157×0.079×17.7		2	2					
39	R01 A14 450	STRAINER		1	1	1					
40	R01 943 413	CHARGE PLUG		2	2	2					
41	R01 670 410	BALL VALVE	1/2	1	1	1					
42	R01 670 411	BALL VALVE	3/4	1	1	1					
43	R01 A14 408	OUTDOOR HEAT EXCHANGER		2							
44	R01 A16 408	OUTDOOR HEAT EXCHANGER			2						
45	R01 V29 408	OUTDOOR HEAT EXCHANGER				2					

Mr. SLIM™

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