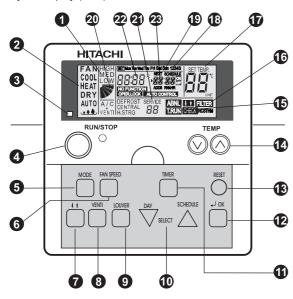
5. REMOTE CONTROLLER OPERATION

5.1. OPTIONAL LIQUID CRYSTAL REMOTE CONTROL PC-P2HTE (PC-ART)

Liquid crystal display (LCD)



Model: PC-P2HTE

1 Fan speed indicator

Indicates the ventilation speed selected:

- (High / Medium / Low)

Indicator of Total ventilator

Indicates if the total heat exchanger has been selected.

A/C only air conditioningVENTI only ventilation

- A/C + VENTI if both are selected

2 Operation Mode Indicator

Indicates the operation mode selected:Fan/Cool/Heat/Dry/Auto (Cool/Heat)

- 3 Run indicator (Red lamp)
- 4 RUN/STOP switch
- 5 MODE (Operation Mode Selection) switch
- 6 FAN SPEED (Fan Speed Selection) switch
- Up & down panel operation switch
- 8 VENTI (ventilator operation) switch
- 9 LOUVER (deflector panel) switch
- SELECT (Day/Schedule) switches Increase and decreases the Day/Schedule for timer operation.
- ON/OFF TIMER switch
 Used to activate or deactivate the timer operation.

OK switch

RESET (Filter Reset Switch)

After cleaning the air filter, press the "RESET" button. FILTER indication will disappear and the next filter cleaning time is reset. It also stops the run procedure.

- TEMP (temperature setting) switches
- T.RUN (test run indication)

Check (check indication)

These tests appear when TEST RUN or CHECK are being performed.

- 6 ABNML (alarm) indicator
- SET TEMP (set temperature) indicator
- 1234S indicator (setting schedule number)
- Mon Tue ... Sun indicator (day of the week indicator).
 Indicates that central station or CSNet control is operating.
- Swing louver indicator
 DEFROST indicator
- 2 SERVICE mode indicator.
 Indicates the change to special operations
- Time indicator.
- Time indicator. (Indicates the programmed time).



To open the cover, pull in the direction of the arrow.

i NOTE:

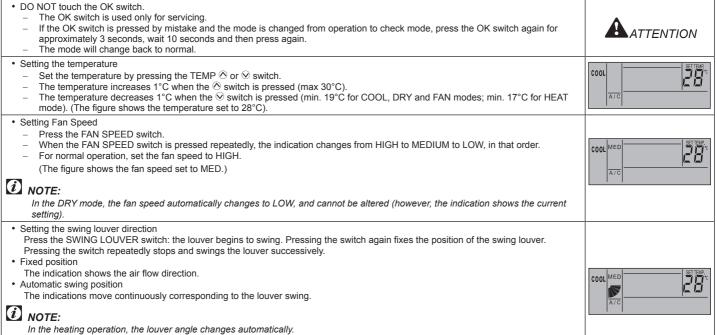
- If the LOW fan speed is selected and the outdoor temperature is higher than 21°C, the compressor is subjected to an excessive load when operating in heating mode.
 - Therefore, the fan speed should be set to HIGH or MEDIUM to avoid activating the safety devices.
- When the system is restarted after a shutdown of more than approximately 3 months, the system should be checked by your service provider.
- Turn off the main switch when the system is to be inoperative for a long period of time. Otherwise the system consumes electricity as the oil heater remains active even though the compressor is stopped.

1.1 OPERATION PROCEDURE FOR COOLING HEATING DRY AND FAN OPERATIONS

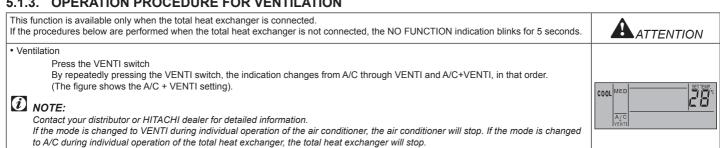
of Enamon i Roofford Tok Gooding, Healtho, Ditt And Tak of Enamone	
 Before operation: Turn on the electrical power supply to the system approximately 12 hours before start-up after a long shutdown. Do not start the system immediately after connecting the power supply, because the compressor may be damaged if it is not sufficiently heated. Make sure the outdoor unit is not covered with ice or snow. If it is, remove the ice or snow with warm water (no hotter than 50°C). If the water temperature is over 50°C, the plastic parts may be damaged. 	A CAUTION
 Turn on the power supply. Three vertical lines will appear on the liquid crystal display, with the indication A/C or VENTI. Press the MODE switch. By repeatedly pressing the MODE switch, the indication changes from COOL, through HEAT, DRY to FAN, in that order (in the case of cooling-only models, COOL, DRY and FAN). (The figure shows when the "COOL" mode setting is selected). 	COOL
3. Press the RUN/STOP switch. The RUN indicator (red) lights up. The system starts automatically. NOTE: Setting temperature, fan speed and air louver direction. The setting is memorized after the first time and does not require resetting every day. When the setting needs be changed, refer to the section "Setting the Temperature, Fan Speed and Air Louver Direction".	COOL MED SETTEMP
4. Switch OFF (STOP) Press the RUN/STOP switch again. The RUN indicator (red) is OFF. The system is automatically stopped.	COOL MED SETTEMP.

5.1.2. SETTING THE TEMPERATURE, FAN SPEED AND AIR LOUVER DIRECTION

The fan may continue operating for approximately 2 minutes after the heating operation is stopped.



OPERATION PROCEDURE FOR VENTILATION



OPERATION PROCEDURE FOR AUTOMATIC COOLING/HEATING OPERATION The automatic cooling/heating operation must be set using the optional function. Contact your distributor or HITACHI dealer for more detailed information. This function enables the operation mode (cooling or heating) to be changed automatically according to the temperature difference between the set temperature and the suction air temperature If the suction air temperature exceeds the set temperature by 3°, the operation changes to COOL mode. If it is 3°C lower than the set temperature, the operation changes to HEAT mode. (i) NOTE: If the heating operation is set at the LOW fan speed, the protective devices will often cause the system to stop. In this case, set the fan speed to HIGH or MED. If the outside temperature is over approximately 21°C, the heating operation is not available The temperature difference between the cooling and heating operations is quite considerable when this function is used. This function

cannot therefore be used for air conditioning a room where accurate control of temperature and humidity is required.



swing louver

the

Setting t

5.1.5. Procedure for Setting the Swing Louver

1. When the SWING LOUVER switch is pressed, the swing louver starts its operation. The range of the angle of swing is approximately 70° from the horizontal to the vertical position. When the "¬" symbol is moving, this indicates the continuous operation of the louver.

2. When the swinging operation of the louver is not required, press the SWING LOUVER switch again. The louver stops at the angle indicated by the direction of the "¬" symbol.

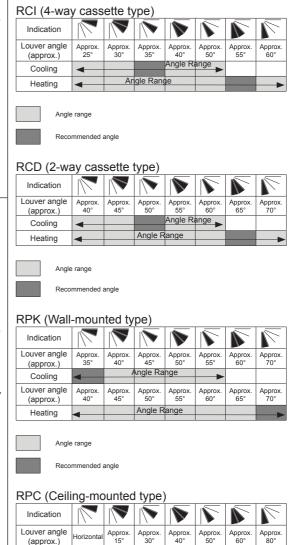
- 3. The discharge air angle is fixed at 20° for the RCI series and 40° for RCD series during the start-up of the heating and defrosting operation when the thermostat is on. When the outlet air temperature exceeds approximately 30 °C, the louvers start to swing.
- For COOL and DRY modes, the discharge air angle can be changed to 5 different positions. For the heating operation, it can be changed to 7 positions.
- 2. To fix the louver position, first press the SWING LOUVER switch to start the louver swinging, and then press again when the louver reaches the required position.
- 3. The discharge air angle is fixed at 20° for the RCI series and 40° for the RCD series during the start-up of the heating and defrosting operation when the thermostat is on. When the outlet air temperature exceeds approximately 30 °C, the louvers start to swing.

When the louvers are fixed at an angle of 55° for RCI, 65° for RCD or 70° for both during the heating operation, and the operation mode is changed to cooling, the louvers will be automatically fixed at an angle of 45° for RCI or 60° for RCD.

i) NOTE

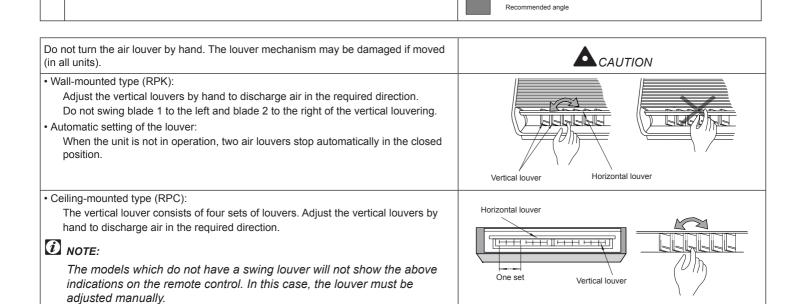
ixing the louver

There is a time lag between the actual angle of the louver and the indication on the liquid crystal display. When the SWING LOUVER switch is pressed, the louver will not stop immediately. The louver will move one extra swing. If the louvers are moved when cleaning or for any other reason, select the auto setting mode to move the four louvers to the same position.



Angle Range

Angle Range



Cooling

Heating

Angle range

5.1.6. TIMER OPERATION PROCEDURE

· Setting current day and time

1. Hold down the SELECT (♥) DAY switch for more than 3 seconds to change to current day setting mode. SET is indicated and the day blinks. All the days except the current day are indicated.	COOL HIGH STEMP
2. Hold down the SELECT (♥) DAY switch until the current day blinks, then press OK. The date is indicated, and the time blinks.	COOL HIGH TOTAL SETTEMP
3. Press the SELECT (△▽) DAY / SCHEDULE switches to adjust the "hour" setting, and then press again. "Hour" is indicated and "minutes" blinks.	COOL HIGH
4. Press the SELECT (△▽) DAY / SCHEDULE switches to adjust the "minutes" setting, and then press again. The current time setting mode ends and returns to normal mode. "Minutes"	COOL HIGH

is indicated and the SET indication goes out. The "seconds" start from zero.

Setting the timer (programming)

Press the TIMER switch. SET and SCHEDULE are indicated. Schedule number "1" blinks and other numbers are indicated.	COOL HIGH
 2. When the SCHEDULE switch (△) is pressed, the schedule number moves [1] → [2] → [3] → [4] → [S] → [1]→ Select [S] to set the ON/OFF time and temperature shifts. By pressing the TIMER switch, the SET and SCHEDULE indicators go out and the mode changes back to normal. 	COOL HIGH INT COMMENT
3. When the OK switch is pressed, the selected schedule number is indicated. The other schedule number indicators go out, and the ON time "hour" indicator for the number selected blinks.	COOL HIGH
4. Press the SELECT (△▽) DAY / SCHEDULE switches to adjust the "hour" setting, and then press again. "Hour" is indicated and "minutes" blinks.	cool HIGH
5. Press the SELECT (DAY / SCHEDULE switches to adjust the "minutes" setting, and then press again. "Minutes" is indicated and the OFF time "hour" setting blinks.	COOL B: 15
6. Set the OFF time the same way as the ON time. After setting the "minutes", the OFF time is indicated. If the schedule number [1][2][3][4] is selected, the indication changes to set the schedule number shown in 2. If [S] is selected, see the section on setting temperature shifts for details.	COOL HIGH
7. By pressing the (>>) DAY / SCHEDULE switches, the SET and SCHEDULE indicators go out and the mode returns to normal.	COOL HIGH STOR STOR

· Defining the schedule to be applied

1. Hold down the (△▽) DAY/SCHEDULE switches for more than 3 seconds and the SET indicator appears. All the days and schedule numbers are indicated.	COOL BUILD SPRINGS
2. Press the $(\triangle \nabla)$ DAY/SCHEDULE switches until the day you wish to set blinks. When pressed, the day blinks [Mon] \rightarrow [Tue] $\rightarrow \rightarrow$ [Sun] \rightarrow [Mon \sim Sun] \rightarrow [Mon \sim Fri] \rightarrow [Sat, Sun] \rightarrow [Mon] If several days are blinking, the same setting will be applied to all the days.	A/C
3. Press the (△) DAY switch until the schedule number you wish to set blinks.	COOL HIGH REPORT OF A COOL
4. Press the (\checkmark) SCHEDULE, and the SCHEDULE indication appears. Then the schedule number indicated in step 3 is applied to the days set in step 2. Press the OK switch to activate or deactivate the schedule. If the schedule is activated, the word SCHEDULE is lit up.	COOL HIGH CONTROL OF Market Co.
5. Press the TIMER switch and the mode returns to normal.	COOL HIGH BOOK SCIENC



· Cancelling the timer

In the normal mode, hold down the () DAY / SCHEDULE switches for more than 3 seconds. The NEXT SCHEDULE indicator blinks. (Cancellation of all the timer)

While the timer is in cancellation mode, hold down the () DAY / SCHEDULE switches for more than 3 seconds. NEXT SCHEDULE is indicated. (Timer activation)

Setting the temperature shifts (energy saving mode)

Set the ON/OFF operation as in steps 1 and 2 of the "Setting the timer" section, and then select "S" as the schedule number.	COOL
Set the ON/OFF operation in steps 4,5 and 6 of the "Setting the timer" section, and set the ON/OFF time. The temperature setting is then indicated.	COOL HIGH
3. Select the temperature shift with the ⊗ switches. "3" or "5" can be selected. If the reset switch is pressed at this time, the temperature shift is not set and the indication "" appears. When the TIMER switch is pressed, the temperature is indicated and the mode changes to schedule number selection.	COOL HIGH BOOK SETTERS
When the TIMER switch is pressed, the SET and SCHEDULE indicators go out and the mode returns to normal.	COOL RIGHT BOOM SETTEMP.

i NOTE:

- 1. When this operation is performed, the temperature shift indicator changes.
- 2. When this operation is performed, the temperature setting of the CSNET NET WEB or PSC-A64S has a normal range, while the remote control setting may be changed to a new range.
- 3. The increase or decrease in the temperature setting during the scheduled time (±3 °C or ±5 °C) varies according to the operation mode.
 - If the system is operating in FAN, COOL or DRY mode, the temperature variation is + .
 - If the system is operating in HEAT, mode, the temperature variation is .
- Automatic operation with heating (anti-freeze protection)
 - 1. In normal mode, hold down the switch for more than 3 seconds to change the operation mode. The automatic heating setting is activated and the ON indicator appears to the right of the current time. The ON indication blinks during the automatic heating operation.
 Cancellation
 While the system is operating in the automatic heating mode, hold down the MODE switch for more than 3 seconds to change back to normal mode. The automatic heating setting is deactivated, and the ON indication to the right of the current time goes out.

(i) NOTE:

If the temperature in the room is lower than a predefined value1*, the heating will start up automatically. When the room temperature reaches the set temperature, the operation stops.

*1 The temperatures 5,10,or 15°C can be selected using an optional setting.

· Operation locking method

To prevent incorrect use of the switches, the switch operation * can be locked.

1. In normal mode, hold down the SELECT ⊗ switch for more than 3 seconds. The operation lock is activated and the OPER.LOCK indication appears. If a switch is pressed while it is locked, the indication OPER. LOCK blinks.

- Cancellation
While the locking operation is activated, hold down the ⊗ switch and SELECT simultaneously for more than 3 seconds to return to normal mode. The locking operation will be cancelled and the OPER. LOCK indication goes out.

i NOTE:

*The switch to be locked can be selected from "operation mode change", "temperature setting", "airflow" and "autolouver" by an optional setting (F8~Fb) of up to 4 items.

The setting can be changed from CSNET or the sub-remote controller.

5.1.7. INDICATIONS UNDER NORMAL CONDITIONS

Thermo-controller When the thermo-controller is operated, the fan speed changes to LOW, and the indication remains unchanged. (Only in heating mode)	HEAT A/C
Defrosting When the system is operating in the defrost mode, the DEFROST indication is shown. The indoor fan slows down or stops (depending on the setting selected). The louver is fixed horizontally at 35°. However, the LCD indication is still activated. (The figure shows the DEFROST setting).	HEAT MED DEFROST
When the unit stops during the defrosting operation, the RUN indicator (red) goes out. However, the operation continues to show the DEFROST indication, and the unit starts up once the defrost operation is finished.	HEAT A/C DEFROST
Filter Clogged filter: The "FILTER" indication appears when the filter is clogged with dust, etc. Clean the filter: Press the RESET switch after cleaning the filter. The "FILTER" indication goes out.	COOL MED SETTEMP.

5.1.8. INDICATIONS UNDER ABNORMAL CONDITIONS

Disfunction

The RUN indicator (red) blinks.

The ALARM indicator appears on the liquid crystal display.

The indoor unit number, the alarm code and the model code are indicated on the liquid crystal display. If several indoor units are connected, the above items are indicated one by one for each of them.

Make a note of the indications and contact your HITACHI service provider.

Power failure

All the indications disappear.

If the unit stops because of a power failure, it will not restart even when the power returns. Perform the start-up operations again.

If the power failure lasts less than 2 seconds, the unit will automatically start up again.

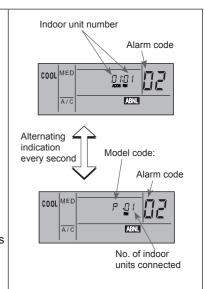
· Electrical noise

The indications may all be OFF and the unit stopped. This is because the microcomputer has been activated in order to protect the unit from electrical noise.

i NOTE:

If the wireless remote control switch is used for the wall-mounted indoor unit, remove the connectors (CN25) connected to the indoor PCB. If they are not removed, the unit will not operate.

The memorized data can not be erased unless the remote control switch is initialized.



Model code	
Indication	Model
Н	Heat pump
Р	Inverter
F	Multi (Set-Free)
Ε	Only cooling
Ε	Others
Ь	Twin, triple & Quad