Air-Conditioners
Indoor unit
PKA-RP·KAL

OPERATION MANUAL
For safe and correct use, please read this operation manual thoroughly before operating the air-conditioner unit.
1. Safety Precautions

Before installing the unit, make sure you read all the "Safety Precautions".
The "Safety Precautions" provide very important points regarding safety. Make sure you follow them.
Please report to or take consent by the supply authority before connection to the system.

Symbols used in the text

⚠️ Warning:
Describes precautions that should be observed to prevent danger of injury or death to the user.
⚠️ Caution:
Describes precautions that should be observed to prevent damage to the unit.

Symbols used in the illustrations

grounds: Indicates a part which must be grounded.

Disposing of the unit
When you need to dispose of the unit, consult your dealer.

2. Parts Names

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>PKA-RP-KAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan speed</td>
<td>3 speeds (with auto)</td>
</tr>
<tr>
<td>Vane</td>
<td>Auto swing</td>
</tr>
<tr>
<td>Louver</td>
<td>Manual</td>
</tr>
<tr>
<td>Filter</td>
<td>Normal</td>
</tr>
<tr>
<td>Filter cleaning indication</td>
<td>100 hr</td>
</tr>
</tbody>
</table>

PKA-RP-KAL

Front grille
Emergency operation switch
Filter
Air inlet
Air outlet
Louver
Vane
2. Parts Names

Wired Remote-Controller

Display Section

For purposes of this explanation, all parts of the display are shown as lit. During actual operation, only the relevant items will be displayed.

Day-of-Week
Shows the current day of the week.

Time/Timer Display
Shows the current time, unless the simple or Auto Off timer is set. If the simple or Auto Off timer is set, shows the time remaining.

Temperature Setting
Shows the target temperature.

Operation Section

Temperature set buttons
Down
Up

Timer Menu button
(Timer monitor/Timer set button)

Operation mode button (Back button)

Set Time buttons
Back
Ahead

Timer On/Off button
(Set Day button)

Operation button

Opening the door.

Built-in temperature sensor

Note:
• "PLEASE WAIT" message
  This message is displayed for approximately 3 minutes when power is supplied to the indoor unit.
• "NOT AVAILABLE" message
  This message is displayed if a button is pressed to operate a function that the indoor unit does not have.
  If a single remote controller is used to simultaneously operate multiple indoor units that are different models, this message will not be displayed if any of the indoor units is equipped with the function.
2. Parts Names

When using the wireless remote controller, point it towards the receiver on the indoor unit.

If the remote controller is operated within approximately two minutes after power is supplied to the indoor unit, the indoor unit may beep twice as the unit is performing the initial automatic check.

The indoor unit beeps to confirm that the signal transmitted from the remote controller has been received. Signals can be received up to approximately 7 meters in a direct line from the indoor unit in an area 45° to the left and right of the unit. However, illumination such as fluorescent lights and strong light can affect the ability of the indoor unit to receive signals.

If the operation lamp near the receiver on the indoor unit is flashing, the unit needs to be inspected. Consult your dealer for service.

Handle the remote controller carefully! Do not drop the remote controller or subject it to strong shocks. In addition, do not get the remote controller wet or leave it in a location with high humidity.

To avoid misplacing the remote controller, install the holder included with the remote controller on a wall and be sure to always place the remote controller in the holder after use.

Battery installation/replacement

1. Remove the top cover, insert two AAA batteries, and then install the top cover.

2. Press the Reset button.

Press the Reset button with an object that has a narrow end.
3. Screen Configuration

4. Setting the Day of the Week and Time

5. Operation

5.1. Turning ON/OFF

<To Start Operation>
- Press the ON/OFF button ①.
  - The ON lamp ② and the display area come on.
5. Operation

<To Stop Operation>
- Press the ON/OFF button ① again.
  - The ON lamp ① and the display area go dark.

Note:
- Even if you press the ON/OFF button immediately after shutting down the operation is progress, the air conditioner will not start for about three minutes. This is to prevent the internal components from being damaged.

5.2. Operation mode select
- Press the operation mode (①②③④⑤⑥) button ② and select the operation mode ②.
  - Cool mode
  - Dry mode
  - Fan mode
  - Heat mode <Only heat pump type>
  - Automatic (cool/heat) operation mode <Only heat pump type>
  - Ventilation mode
  - Only indicated on the following condition
  - Wired remote controller used
  - LOSSNAY connected

Automatic operation
- According to a set temperature, cooling operation starts if the room temperature is too hot and heating operation starts if the room temperature is too cold.
- During automatic operation, if the room temperature changes and remains 2 °C or more above the set temperature for 15 minutes, the air conditioner switches to cool mode. In the same way, if the room temperature remains 2 °C or more below the set temperature for 15 minutes, the air conditioner switches to heat mode.

5.3. Temperature setting

To decrease the room temperature:
- Press button ③ to set the desired temperature.
  - The selected temperature is displayed ③.

To increase the room temperature:
- Press button ③ to set the desired temperature.
  - The selected temperature is displayed ③.

- Available temperature ranges are as follows:
  - Cooling/Drying: 19 - 30 °C
  - Heating: 17 - 28 °C
  - Automatic: 19 - 28 °C
- The display flashes either 8 °C - 39 °C to inform you if the room temperature is lower or higher than the displayed temperature.

5.4. Fan speed setting
- Press the Fan Speed button ⑤ as many times as necessary while the system is running.
  - Each press changes the force. The currently selected speed is shown at ⑤.
  - The change sequence, and the available settings, are as follows.

<table>
<thead>
<tr>
<th>FAN SPEED</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-speed</td>
<td>Speed 1</td>
</tr>
</tbody>
</table>

Note:
- The number of available fan speeds depends on the type of unit connected. Note also that some units do not provide an “Auto” setting.
- In the following cases, the actual fan speed generated by the unit will differ from the speed shown the remote controller display.
  1. While the display is showing “STAND BY” or “DEFROST”.
  2. When the temperature of the heat exchanger is low in the heat mode.
     (e.g. immediately after heat operation starts)
  3. In HEAT mode, when room temperature is higher than the temperature setting.
  4. When the unit is in DRY mode.
5. Operation

5.5. Airflow up/down direction setting

To change the airflow up/down direction:
- With the unit running, press the Airflow up/down button as necessary.
  - Each press changes the direction. The current direction is shown at 6.
  - The change sequence, and the available settings, are as follows.

<table>
<thead>
<tr>
<th>Airflow</th>
<th>Wireless remote controller</th>
<th>Wired remote controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swing 1</td>
<td>![Airflow Direction 1]</td>
<td>![Airflow Direction 1]</td>
</tr>
<tr>
<td>Swing 2</td>
<td>![Airflow Direction 2]</td>
<td>![Airflow Direction 2]</td>
</tr>
<tr>
<td>Swing 3</td>
<td>![Airflow Direction 3]</td>
<td>![Airflow Direction 3]</td>
</tr>
<tr>
<td>Swing 4</td>
<td>![Airflow Direction 4]</td>
<td>![Airflow Direction 4]</td>
</tr>
<tr>
<td>Auto 1</td>
<td>![Airflow Direction Auto 1]</td>
<td>![Airflow Direction Auto 1]</td>
</tr>
<tr>
<td>Auto 2</td>
<td>![Airflow Direction Auto 2]</td>
<td>![Airflow Direction Auto 2]</td>
</tr>
<tr>
<td>Auto 3</td>
<td>![Airflow Direction Auto 3]</td>
<td>![Airflow Direction Auto 3]</td>
</tr>
<tr>
<td>Auto 4</td>
<td>![Airflow Direction Auto 4]</td>
<td>![Airflow Direction Auto 4]</td>
</tr>
<tr>
<td>Auto 5</td>
<td>![Airflow Direction Auto 5]</td>
<td>![Airflow Direction Auto 5]</td>
</tr>
</tbody>
</table>

* Note that during swing operation, the directional indication on the screen does not change in sync with the directional vanes on the unit.
* Some models do not support directional settings.

Note:
- Available directions depend on the type of unit connected. Note also that some units do not provide an “Auto” setting.
- In the following cases, the actual air direction will differ from the direction indicated on the remote controller display.
  1. While the display is showing “STAND BY” or “DEFROST”.
  2. Immediately after starting heater mode (while the system is waiting for the operation mode change to take effect).
  3. In heat mode, when room temperature is higher than the temperature setting.

<Manual> To Change the Airflow’s Left/Right Direction>
- The louver button cannot be used.
- Model PKA-RP KA
  - Stop the unit operation, hold the lever of the louver, and adjust to the desired direction.
  - Do not set to the inside direction when the unit is in the cooling or drying mode because there is a risk of condensation and water dripping.

⚠️ Caution:
To prevent falls, maintain a stable footing when operating the unit.

5.6. Ventilation

For LOSSNAY combination

5.6.1. For Wired Remote-controller
- To run the ventilator together with the indoor unit:
  - Press the ON/OFF button 1.
    - The Vent indication appears on the screen (at 8). The ventilator will now automatically operate whenever the indoor unit is running.
- To run the ventilator independently:
  - Press the Mode button 2 until appears on the display. This will cause the ventilator to start.
- To change the ventilator force:
  - Press the Ventilation button 8 as necessary.
    - Each press toggles the setting, as shown below.

- To run the ventilator independently:
  - Press the Mode button 2 until appears on the display. This will cause the ventilator to start.

5.6.2. For Wireless Remote-controller
- The ventilator will automatically operate when the indoor unit turns on.
- No indication on the wireless remote controller.
6. Timer

6.1. For Wired Remote-controller
You can use Function Selection of remote controller to select which of
three types of timer to use: ① Weekly timer, ② Simple timer, or ③ Auto
Off timer.

6.1.1. Weekly Timer
The weekly timer can be used to set up to eight operations for each
day of the week.
• Each operation may consist of any of the following: ON/OFF time
together with a temperature setting, or ON/OFF time only, or
temperature setting only.
• When the current time reaches a time set at this timer, the air
conditioner carries out the action set by the timer.
Time setting resolution for this timer is 1 minute.
Note:
*1. Weekly Timer/Simple Timer/Auto Off Timer cannot be used at the same
time.
*2. The weekly timer will not operate when any of the following conditions is
in effect.
  The timer feature is off; the system is in a malfunction state; a test run
  is in progress; the remote controller is undergoing self-check or remote
  controller check; the user is in the process of setting a function; the user
  is in the process of setting the timer; the user is in the process of setting
  the current day of the week or time; the system is under central control.
  (Specifically, the system will not carry out operations (unit on, unit off, or
  temperature setting) that are prohibited during these conditions.)

<How to Set the Weekly Timer>
1. Be sure that you are at a standard control screen, and that the weekly
timer indicator ① is shown in the display.
2. Press the Timer Menu button ⑨, so that the “Set Up” appears on the
screen (at ②). (Note that each press of the button toggles the display
between “Set Up” and “Monitor”.)
3. Press the Timer On/Off (Set Day) button ⑨ to set the day. Each
press advances the display at ③ to the next setting, in the following
sequence: “Sun Mon Tues Wed Thurs Fri Sat” → “Sun” → “… → “Fri” → “Sat” → “Sun Mon Tues Wed Thurs Fri Sat”...
4. Press the ▲ or ▼ operation button (⑦ or ⑧) as necessary to select
the appropriate operation number (1 to 8) ④.
* Your inputs at Steps 3 and 4 will select one of the cells from the
matrix illustrated below.
(The remote-controller display at left shows how the display would
appear when setting Operation 1 for Sunday to the values indicated
below.)

Setup Matrix

<table>
<thead>
<tr>
<th>Op No.</th>
<th>Sunday</th>
<th>Monday</th>
<th>…</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1</td>
<td>8:30</td>
<td>23 °C</td>
<td>23 °C</td>
<td>23 °C</td>
</tr>
<tr>
<td>No. 2</td>
<td>10:00</td>
<td>OFF</td>
<td>10:00</td>
<td>10:00</td>
</tr>
<tr>
<td>No. 8</td>
<td>10:00</td>
<td>OFF</td>
<td>10:00</td>
<td>10:00</td>
</tr>
</tbody>
</table>

Note:
By setting the day to “Sun Mon Tues Wed Thurs Fri Sat”, you can set the
same operation to be carried out at the same time every day.
(Example: Operation 2 above, which is the same for all days of the week.)

<Setting the Weekly Timer>
1. Press the appropriate Set Time button ⑤ as necessary to set the
desired time (at ⑤).
* As you hold the button down, the time first increments in minute
intervals, then in ten-minute intervals, and then in one-hour
intervals.
2. Press the ON/OFF button ① to select the desired operation (ON or
OFF), at ⑤.
* Each press changes the next setting, in the following sequence:
No display (no setting) → “ON” → “OFF”
6. Timer

7. Press the appropriate Temperature set button \(^1\) to set the desired temperature (at \(^2\)).
   * Each press changes the setting, in the following sequence: No display (no setting) \(\rightarrow\) 24 \(\rightarrow\) 25 \(\rightarrow\) ... \(\rightarrow\) 29 \(\rightarrow\) 30 \(\rightarrow\) 12 \(\rightarrow\) ... \(\rightarrow\) 23 \(\rightarrow\) No display.
   (Available range: The range for the setting is 12 °C to 30 °C. The actual range over which the temperature can be controlled, however, will vary according to the type of the connected unit.)

8. After making the appropriate settings at Steps 5, 6 and 7, press the Filter \(\leftrightarrow\) button \(^2\) to lock the values.

To clear the currently set values for the selected operation, press and quickly release the Check (Clear) button \(^9\) once.
* The displayed time setting will change to “— —”, and the ON/OFF and temperature settings will all disappear.
(To clear all weekly timer settings at once, hold down the Check (Clear) button \(^9\) for two seconds or more. The display will begin flashing, indicating that all settings have been cleared.)

Note:
Your new entries will be cancelled if you press the Operation mode (Back) button \(^2\) before pressing the Filter \(\leftrightarrow\) button \(^2\).
If you have set two or more different operations for exactly the same time, only the operation with the highest Operation No. will be carried out.

9. Repeat Steps 3 to 8 as necessary to fill as many of the available cells as you wish.

10. Press the Operation mode (Back) button \(^2\) to return to the standard control screen and complete the setting procedure.

11. To activate the timer, press the Timer On/Off button \(^9\), so that the “Timer Off” indication disappears from the screen. Be sure that the “Timer Off” indication is no longer displayed.
* If there are no timer settings, the “Timer Off” indication will flash on the screen.

**<How to View the Weekly Timer Settings>**

1. Be sure that the weekly timer indicator is visible on the screen (at \(^1\)).
2. Press the Timer Menu button \(^2\) so that “Monitor” is indicated on the screen (at \(^8\)).
3. Press the Timer On/Off (Set Day) button \(^9\) as necessary to select the day you wish to view.
4. Press the \(\bigtriangledown\) or \(\Delta\) operation button \(^7\) or \(^8\) as necessary to change the timer operation shown on the display (at \(^8\)).
   * Each press will advance to the next timer operation, in order of time setting.
5. To close the monitor and return to the standard control screen, press the Operation mode (Back) button \(^2\).

**<How to Set the Simple Timer>**

1. Be sure that you are at a standard control screen, and that the simple timer indicator is visible in the display (at \(^1\)).

When something other than the Simple Timer is displayed, set it to SIMPLE TIMER using the function selection of remote controller (see 8.4). (Note that each press of the button toggles the display between “Set Up” and “Monitor”.)
2. Press the Timer Menu button \(^2\), so that the “Set Up” appears on the screen (at \(^3\)). (If you want to use only an ON setting \(\leftrightarrow\) ONHr \(\leftrightarrow\)..., then press the Check (Clear) button \(^9\) to display the current ON or OFF simple timer setting. Press the button once to display the time remaining to ON, and then again to display the time remaining to OFF. (The ON/OFF indication appears at \(^3\)).
   * “ON” timer:
     The air conditioner will start operation when the specified number of hours has elapsed.
   * “OFF” timer:
     The air conditioner will stop operation when the specified number of hours has elapsed.
3. Press the ON/OFF button \(^1\) to display the current ON or OFF simple timer setting. Press the button once to display the time remaining to ON, and then again to display the time remaining to OFF. (The ON/OFF indication appears at \(^3\)).
4. With “ON” or “OFF” showing at \(^3\), Press the appropriate Set Time button \(^1\) as necessary to set the hours to ON (if “ON” is displayed) or the hours to OFF (if “OFF” is displayed) at \(^4\).
   * Available Range: 1 to 72 hours
5. To set both the ON and OFF times, repeat Steps 3 and 4.
   * Note that ON and OFF times cannot be set to the same value.
6. To clear the current ON or OFF setting: Display the ON or OFF setting (see step 3) and then press the Check (Clear) button \(^9\) so that the time setting clears to “— ” at \(^4\). (If you want to use only an ON setting or only an OFF setting, be sure that the setting you do not wish to use is shown as “— ”.)
6. Timer

7. After completing steps 3 to 6 above, press the Filter button to lock in the value.

Note:
Your new settings will be cancelled if you press the Operation mode (Back) button before pressing the Filter button.

8. Press the Operation mode (Back) button to return to the standard control screen.

9. Press the Timer On/Off button to start the timer countdown. When the timer is running, the timer value is visible on the display. Be sure that the timer value is visible and appropriate.

Example 1:
Start the timer, with OFF time sooner than ON time
ON Setting: 3 hours
OFF Setting: 7 hours

Example 2:
Start the timer, with OFF time sooner than ON time
ON Setting: 3 hours
OFF Setting: 2 hours

6.1.3. Auto Off Timer
This timer begins countdown when the air conditioner starts, and shuts the air conditioner off when the set time has elapsed.

Available settings run from 30 minutes to 4 hours, in 30-minute intervals.

Note:
1. Weekly Timer/Simple Timer/Auto Off Timer cannot be used at the same time.
2. The Auto Off timer will not operate when any of the following conditions is in effect.
   - The timer is off; the system is in malfunction state; a test run is in progress; the remote controller is undergoing self-check or remote controller check; the user is in the process of selecting a function; the user is in the process of setting the timer; the system is under central control. (Under these conditions, On/Off operation is prohibited.)

Examples
If ON and OFF times have both been set at the simple timer, operation and display are as indicated below.

Example 1:
Start the timer, with ON time set sooner than OFF time
ON Setting: 3 hours
OFF Setting: 7 hours

Example 2:
Start the timer, with ON time set sooner than OFF time
ON Setting: 5 hours
OFF Setting: 2 hours

At 7 hours after timer start
The air conditioner goes off, and will continue to run until someone turns it off.

At 3 hours after timer start
The time displayed is ON setting (3 hours) – OFF setting (7 hours) = 4 hours.

At 2 hours after timer start
Display changes to show the timer's ON setting (hours remaining to ON). The time displayed is ON setting (3 hours) – OFF setting (5 hours) = 3 hours.

At Timer Start
Display shows the timer's OFF setting (hours remaining to OFF).

At 2 hours after timer start
Display changes to show the timer's ON setting (hours remaining to ON). The time displayed is ON setting (5 hours) – OFF setting (2 hours) × 3 hours.

At 5 hours after timer start
The air conditioner comes on, and will continue to run until someone turns it off.
6. Timer

<Checking the Current Auto Off Timer Setting>

1. Be sure that the “Auto Off” is visible on the screen (at ①).
2. Hold down the Timer Menu button ② for 3 seconds, so that “Monitor” is indicated on the screen (at ③).
   • The timer remaining to shutdown appears at ④.
3. To close the monitor and return to the standard control screen, press the Operation mode (Back) button ②.

>To Turn Off the Auto Off Timer...>

• Hold down the Timer On/Off button ⑥ for 3 seconds, so that “Timer Off” appears (at ⑦) and the timer value (at ⑧) disappears.

Alternatively, turn off the air conditioner itself. The timer value (at ⑧) will disappear from the screen.

>To Turn On the Auto Off Timer...>

• Hold down the Timer On/Off button ⑥ for 3 seconds. The “Timer Off” indication disappears (at ⑦), and the timer setting comes on the display (at ⑧).

Alternatively, turn on the air conditioner. The timer value will appear at ⑧.

6.2. For wireless remote controller

① Press the or button (TIMER SET).
• Time can be set while the following symbol is blinking.
  OFF timer : ② is blinking.
  ON timer : ② is blinking.
② Use the and buttons to set the desired time.
③ Canceling the timer.
To cancel the OFF timer, press the button.
To cancel the ON timer, press the button.
• It is possible to combine both OFF and ON timers.
• Pressing the ON/OFF button of the remote controller during timer mode to stop the unit will cancel the timers.
• If the current time has not been set, the timer operation cannot be used.

7. Other Functions

7.1. Locking the Remote Controller Buttons
(Operation function limit controller)

• If you wish, you can lock the remote controller buttons. You can use the Function Selection of remote controller to select which type of locking function to use. (For information about selecting the lock type, see section 8, item [4]–2 (1)).
Specifically, you can use either of the following two locking functions.

   ① Lock All Buttons:
       Locks all of the buttons on the remote controller.
   ② Lock All Except ON/OFF:
       Locks all buttons other than the ON/OFF button.

Note:
The “Locking function” indicator appears on the screen to indicate that buttons are currently locked.

<How to Lock the Buttons>

1. While holding down the Filter button ④, press and hold down the ON/OFF button ① for 2 seconds. The “Locking function” indicator appears on the screen (at ③), indicating that the locking function is now engaged.
   • If locking has been disabled in Function Selection of remote controller, the screen will display the “Not Available” message when you press the buttons as described above.

   • If you press a locked button, the “Locking function” indicator (at ①) will blink on the display.

<How to Unlock the Buttons>

1. While holding down the Filter button ④, press and hold down the ON/OFF button ① for 2 seconds—so that the “Locking function” indicator disappears from the screen (at ③).
7. Other Functions

7.2. Error Codes indication

If the ON lamp and error code are both flashing: This means that the air conditioner is out of order and operation has been stopped (and cannot resume). Take note of the indicated unit number and error code, then switch off the power to the air conditioner and call your dealer or servicer.

If only the error code is flashing (while the ON lamp remains lit): Operation is continuing, but there may be a problem with the system. In this case, you should note down the error code and then call your dealer or servicer for advice.

* If you have entered contact number to be called in the event of a problem, push the Check button to display it on the screen. (You can set this up under Function Selection of remote controller. For information, refer to section 8.)

8. Function Selection

Function selection of remote controller

The setting of the following remote controller functions can be changed using the remote controller function selection mode. Change the setting when needed.

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<th>Item 1</th>
<th>Item 2</th>
<th>Item 3 (Setting content)</th>
</tr>
</thead>
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<td>Language setting to display</td>
<td>Display in multiple languages is possible</td>
</tr>
<tr>
<td>2. Function limit</td>
<td>(1) Operation function limit setting (operation lock) (&quot;LOCKING FUNCTION&quot;)</td>
<td>Setting the range of operation limit (operation locking function)</td>
</tr>
<tr>
<td>(FUNCTION SELECTION&quot;)</td>
<td>(2) Use of automatic mode setting (&quot;SELECT AUTO MODE&quot;)</td>
<td>Setting the use or non-use of “automatic” operation mode</td>
</tr>
<tr>
<td></td>
<td>(3) Temperature range limit setting (&quot;LIMIT TEMP FUNCTION&quot;)</td>
<td>Setting the temperature adjustable range (maximum, minimum)</td>
</tr>
<tr>
<td>3. Operation mode selection</td>
<td>(1) Remote controller main/sub setting (&quot;CONTROLLER MAIN/ SUB&quot;)</td>
<td>Selecting main or sub remote controller * When two remote controllers are connected to one group, one controller must be set to sub.</td>
</tr>
<tr>
<td>(MODE SELECTION&quot;)</td>
<td>(2) Use of clock setting (&quot;CLOCK&quot;)</td>
<td>Setting the use or non-use of clock function</td>
</tr>
<tr>
<td></td>
<td>(3) Timer function setting (&quot;WEEKLY TIMER&quot;)</td>
<td>Setting the timer type</td>
</tr>
<tr>
<td></td>
<td>(4) Contact number setting for error situation (&quot;CALL&quot;)</td>
<td>Contact number display in case of error Setting the telephone number</td>
</tr>
<tr>
<td>4. Display change</td>
<td>(1) Temperature display &quot;°C/°F setting (&quot;TEMP MODE °C/°F&quot;)</td>
<td>Setting the temperature unit (°C or °F) to display</td>
</tr>
<tr>
<td>(DISP MODE SETTING&quot;)</td>
<td>(2) Suction air temperature display setting (&quot;ROOM TEMP DISP SELECT&quot;)</td>
<td>Setting the use or non-use of the display of indoor (suction) air temperature</td>
</tr>
<tr>
<td></td>
<td>(3) Automatic cooling/heating display setting (&quot;AUTO MODE DISP C/F&quot;)</td>
<td>Setting the use or non-use of the display of “Cooling” or “Heating” display during operation with automatic mode</td>
</tr>
</tbody>
</table>
8. Function Selection

[Function selection flowchart]
Setting language (English)

Remote controller function selection mode

Item1 Item2 Item3

Operation mode selection

Display mode setting

Change Language

Function selection

Operation locking function setting is not used. (Initial setting value)
Operation lock setting is except On/Off button.
Operation lock setting is All buttons.
The automatic mode is displayed when the operation mode is selected. (Initial setting value)
The automatic mode is not displayed when the operation mode is selected.
The temperature range limit is not active. (Initial setting value)
The temperature range can be changed on cool/dry operation mode.
The temperature range can be changed on heat operation mode.
The temperature range can be changed on automatic mode.
The remote controller will be the main controller. (Initial setting value)
The remote controller will be the sub controller.
The clock function can be used. (Initial setting value)
The clock function can not be used.
Weekly timer can be used. (Initial setting value)
Auto off timer can be used.
Simple timer can be used.
Timer mode can not be used.
The set contact numbers are not displayed in case of error. (Initial setting value)
The set contact numbers are displayed in case of error.
The temperature unit °C is used. (Initial setting value)
The temperature unit °F is used.
Room air temperature is displayed. (Initial setting value)
Room air temperature is not displayed.
One of “Automatic cooling” and “Automatic heating” is displayed under the automatic mode is running. (Initial setting value)
Only “Automatic” is displayed under the automatic mode.
8. Function Selection

[Detailed setting]

[4]-1. CHANGE LANGUAGE setting
The language that appears on the dot display can be selected.
- Press the [MENU] button ⑤ to change the language.
  ① English (GB), ② German (D), ③ Spanish (E), ④ Russian (RU), ⑤ Italian (I), ⑥ Chinese (CH), ⑦ French (F), ⑧ Japanese (JP)
Refer to the dot display table.

[4]-2. Function limit
(1) Operation function limit setting (operation locking function)
- To switch the setting, press the [ON/OFF] button ⑧.
  ① no1: Operation lock setting is made on all buttons other than the [FILTER] button.
  ② no2: Operation lock setting is made on all buttons.
  ③ OFF (Initial setting value): Operation lock setting is not made.
* To make the operation lock setting valid on the normal screen, it is necessary to press buttons (Press and hold down the [FILTER] and [ON/OFF] buttons at the same time for two seconds.) on the normal screen after the above setting is made.

(2) Use of automatic mode setting
When the remote controller is connected to the unit that has automatic operation mode, the following settings can be made.
- To switch the setting, press the [ON/OFF] button ⑧.
  ① ON (Initial setting value): The automatic mode is displayed when the operation mode is selected.
  ② OFF: The automatic mode is not displayed when the operation mode is selected.

(3) Temperature range limit setting
After this setting is made, the temperature can be changed within the set range.
- To switch the setting, press the [ON/OFF] button ⑧.
  ① LIMIT TEMP COOL MODE: The temperature range can be changed on cool/dry mode.
  ② LIMIT TEMP HEAT MODE: The temperature range can be changed on heat mode.
  ③ LIMIT TEMP AUTO MODE: The temperature range can be changed on automatic mode.
  ④ OFF (Initial setting): The temperature range limit is not active.
* When the setting, other than OFF, is made, the temperature range setting on cool, heat and automatic mode is made at the same time. However, the range cannot be limited when the set temperature range has not changed.
* To increase or decrease the temperature, press the [↑] or [↓] button ⑦.
* To switch the upper limit setting and the lower limit setting, press the [M] button ⑤. The selected setting will flash and the temperature can be set.
* Settable range
  - Cool/Dry mode:
    Lower limit: 19°C ~ 30°C  Upper limit: 30°C ~ 19°C
  - Heat mode:
    Lower limit: 17°C ~ 28°C  Upper limit: 28°C ~ 17°C
  - Automatic mode:
    Lower limit: 19°C ~ 28°C  Upper limit: 28°C ~ 19°C

[4]-3. Operation mode selection setting
(1) Remote controller main/sub setting
- To switch the setting, press the [ON/OFF] button ⑧.
  ① Main: The controller will be the main controller.
  ② Sub: The controller will be the sub controller.

(2) Use of clock setting
- To switch the setting, press the [ON/OFF] button ⑧ (Choose one of the followings.).
  ① ONE: The clock function can be used.
  ② OFF: The clock function cannot be used.

(3) Timer function setting
- To switch the setting, press the [ON/OFF] button ⑧.
  ① WEEKLY TIMER (initial setting value):
    The weekly timer can be used.
  ② AUTO OFF TIMER:
    The auto off timer can be used.
  ③ SIMPLE TIMER:
    The simple timer can be used.
  ④ TIMER MODE OFF:
    The timer mode cannot be used.
* When the use of clock setting is OFF, the "WEEKLY TIMER" cannot be used.

(4) Contact number setting for error situation
- To switch the setting, press the [ON/OFF] button ⑧.
  ① CALL OFF:
    The set contact numbers are not displayed in case of error.
  ② CALL **** **** ****:
    The set contact numbers are displayed in case of error.
  ③ CALL **:
    The contact number can be set when the display is as shown on the left.
* Setting the contact numbers
  To set the contact numbers, follow the following procedures.
  Move the flashing cursor to set numbers. Press the [↑] or [↓] button ⑦ to move the cursor to the right (left).
  Press the [FILTER] and [ON/OFF] buttons at the same time for two seconds.) on the normal screen after the above setting is made.

[4]-4. Display change setting
(1) Temperature display °C/°F setting
- To switch the setting, press the [ON/OFF] button ⑧.
  ① °C: The temperature unit °C is used.
  ② °F: The temperature unit °F is used.

(2) Suction air temperature display setting
- To switch the setting, press the [ON/OFF] button ⑧.
  ① ON: The suction air temperature is displayed.
  ② OFF: The suction air temperature is not displayed.

(3) Automatic cooling/heating display setting
- To switch the setting, press the [ON/OFF] button ⑧.
  ① ON: One of “Automatic cooling” and “Automatic heating” is displayed under the automatic mode is running.
  ② OFF: Only “Automatic” is displayed under the automatic mode.
## 8. Function Selection

### Selecting language

<table>
<thead>
<tr>
<th>Language</th>
<th>English</th>
<th>Germany</th>
<th>Spanish</th>
<th>Russian</th>
<th>Italian</th>
<th>Chinese</th>
<th>French</th>
<th>Japanese</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selecting language</td>
<td>CHANGE LANGUAGE</td>
<td>CHANGE LANGUAGE</td>
<td>CHANGE LANGUAGE</td>
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<tr>
<td>Function selection</td>
<td>FUNCTION SELECTION</td>
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<tr>
<td>Operation function limit setting</td>
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</tr>
<tr>
<td>Use of automatic mode setting</td>
<td>USE OF AUTOMATIC MODE SETTING</td>
<td>USE OF AUTOMATIC MODE SETTING</td>
<td>USE OF AUTOMATIC MODE SETTING</td>
<td>USE OF AUTOMATIC MODE SETTING</td>
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<tr>
<td>Temperature range limit setting</td>
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<tr>
<td>Limit temperature cool/day mode</td>
<td>LIMIT TEMPERATURE COOL/DAY MODE</td>
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<td>Timer monitor</td>
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<td>Weekly timer</td>
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<td>Contact number setting of error situation</td>
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<td>Temperature display °C/°F setting</td>
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<td>Air inlet temperature display setting</td>
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<tr>
<td>Automatic cool/heat display setting</td>
<td>AUTOMATIC COOL/HEAT DISPLAY SETTING</td>
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</tbody>
</table>

When the remote controller cannot be used
When the batteries of the remote controller run out or the remote controller malfunctions, the emergency operation can be done using the emergency buttons on the grille.

- DEFROST/STAND BY lamp (Orange)
- Operation lamp (Green)
- Emergency operation switch (cooling/heating)
- Receiver

- Each press of the emergency operation switch will toggle the operation mode.
- Check “COOL/HEAT” with the operation monitor display. (The display will appear orange for 5 seconds after the switch operation.)

10. Care and Cleaning

Indicates that the filter needs cleaning.
Clean the filter.

When resetting “FILTER” display
When the [FILTER] button is pressed two times successively after cleaning the filter, the display goes off and is reset.

Note:
- When two or more different types of indoor unit are controlled, the cleaning period differs with the type of filter. When the master unit cleaning period arrives, “FILTER” is displayed. When the filter display goes off, the cumulative time is reset.
- “FILTER” indicates the cleaning period when the air conditioner was used under general indoor air conditions by criteria time. Since the degree of dirtiness depends on the environmental conditions, clean the filter accordingly.
- The filter cleaning period cumulative time differs with the model.
- This indication is not available for wireless remote controller.

Cleaning the filters
- Clean the filters using a vacuum cleaner. If you do not have a vacuum cleaner, tap the filters against a solid object to knock off dirt and dust.
- If the filters are especially dirty, wash them in lukewarm water. Take care to rinse off any detergent thoroughly and allow the filters to dry completely before putting them back into the unit.

Caution:
- Do not dry the filters in direct sunlight or by using a heat source, such as an electric heater; this may warp them.
- Do not wash the filters in hot water (above 50°C), as this may warp them.
- Make sure that the air filters are always installed. Operating the unit without air filters can cause malfunction.

Caution:
- Before you start cleaning, stop operation and turn OFF the power supply.
- Indoor units are equipped with filters to remove the dust of sucked-in air. Clean the filters using the methods shown in the following sketches.

Filter removal
Caution:
- In removing the filter, precautions must be taken to protect your eyes from dust. Also, if you have to climb up on a stool to do the job, be careful not to fall.
- When the filter is removed, do not touch the metallic parts inside the indoor unit, otherwise injury may result.
## Troubleshooting

<table>
<thead>
<tr>
<th>Having trouble?</th>
<th>Here is the solution. (Unit is operating normally.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air conditioner does not heat or cool well.</td>
<td>- Clean the filter. (Airflow is reduced when the filter is dirty or clogged.)&lt;br&gt;- Check the temperature adjustment and adjust the set temperature.&lt;br&gt;- Make sure that there is plenty of space around the outdoor unit. Is the indoor unit air inlet or outlet blocked?&lt;br&gt;- Has a door or window been left open?</td>
</tr>
<tr>
<td>When heating operation starts, warm air does not blow from the indoor unit soon.</td>
<td>- Warm air does not blow until the indoor unit has sufficiently warmed up.</td>
</tr>
<tr>
<td>During heat mode, the air conditioner stops before the set room temperature is reached.</td>
<td>- When the outdoor temperature is low and the humidity is high, frost may form on the outdoor unit. If this occurs, the outdoor unit performs a defrosting operation. Normal operation should begin after approximately 10 minutes.</td>
</tr>
<tr>
<td>Airflow up/down direction changes during operation or airflow up/down direction cannot be set.</td>
<td>- During cool mode, the vanes automatically move to the horizontal (down) position after 1 hour when the down (horizontal) airflow up/down direction is selected. This is to prevent water from forming and dripping from the vanes.&lt;br&gt;- During heat mode, the vanes automatically move to the horizontal airflow up/down direction when the airflow temperature is low or during defrosting mode.</td>
</tr>
<tr>
<td>When the airflow up/down direction is changed, the vanes always move up and down past the set position before finally stopping at the position.</td>
<td>- When the airflow up/down direction is changed, the vanes move to the set position after detecting the base position.</td>
</tr>
<tr>
<td>A flowing water sound or occasional hissing sound is heard.</td>
<td>- These sounds can be heard when refrigerant is flowing in the air conditioner or when the refrigerant flow is changing.</td>
</tr>
<tr>
<td>A cracking or creaking sound is heard.</td>
<td>- These sounds can be heard when parts rub against each due to expansion and contraction from temperature changes.</td>
</tr>
<tr>
<td>The room has an unpleasant odor.</td>
<td>- The indoor unit draws in air that contains gases produced from the walls, carpeting, and furniture as well as odors trapped in clothing, and then blows this air back into the room.</td>
</tr>
<tr>
<td>A white mist or vapor is emitted from the indoor unit.</td>
<td>- If the indoor temperature and the humidity are high, this condition may occur when operation starts.&lt;br&gt;- During defrosting mode, cool airflow may blow down and appear like a mist.</td>
</tr>
<tr>
<td>Water or vapor is emitted from the outdoor unit.</td>
<td>- During cool mode, water may form and drip from the cool pipes and joints.&lt;br&gt;- During heat mode, water may form and drip from the heat exchanger.&lt;br&gt;- During defrosting mode, water on the heat exchanger evaporates and water vapor may be emitted.</td>
</tr>
<tr>
<td>The operation indicator does not appear in the remote controller display.</td>
<td>- Turn on the power switch. &quot;W&quot; will appear in the remote controller display.</td>
</tr>
<tr>
<td>&quot;W&quot; appears in the remote controller display.</td>
<td>- During central control, &quot;W&quot; appears in the remote controller display and air conditioner operation cannot be started or stopped using the remote controller.</td>
</tr>
<tr>
<td>When restarting the air conditioner soon after stopping it, it does not operate even though the ON/OFF button is pressed.</td>
<td>- Wait approximately three minutes. (Operation has stopped to protect the air conditioner.)</td>
</tr>
<tr>
<td>Air conditioner operates without the ON/OFF button being pressed.</td>
<td>- Is the on timer set?&lt;br&gt;Press the ON/OFF button to stop operation.&lt;br&gt;- Is the air conditioner connected to a central remote controller?&lt;br&gt;Consult the concerned people who control the air conditioner.&lt;br&gt;- Does &quot;W&quot; appear in the remote controller display?&lt;br&gt;Consult the concerned people who control the air conditioner.&lt;br&gt;- Has the auto recovery feature from power failures been set?&lt;br&gt;Press the ON/OFF button to stop operation.</td>
</tr>
<tr>
<td>Air conditioner stops without the ON/OFF button being pressed.</td>
<td>- Is the off timer set?&lt;br&gt;Press the ON/OFF button to restart operation.&lt;br&gt;- Is the air conditioner connected to a central remote controller?&lt;br&gt;Consult the concerned people who control the air conditioner.&lt;br&gt;- Does &quot;W&quot; appear in the remote controller display?&lt;br&gt;Consult the concerned people who control the air conditioner.</td>
</tr>
<tr>
<td>Remote controller timer operation cannot be set.</td>
<td>- Are timer settings invalid?&lt;br&gt;If the timer can be set, &quot;WEEKLY&quot;, &quot;SIMPLE&quot;, or &quot;AUTO OFF&quot; appears in the remote controller display.</td>
</tr>
<tr>
<td>&quot;PLEASE WAIT&quot; appears in the remote controller display.</td>
<td>- The initial settings are being performed. Wait approximately 3 minutes.</td>
</tr>
<tr>
<td>An error code appears in the remote controller display.</td>
<td>- The protection devices have operated to protect the air conditioner.&lt;br&gt;- Do not attempt to repair this equipment by yourself.&lt;br&gt;Turn off the power switch immediately and consult your dealer. Be sure to provide the dealer with the model name and information that appeared in the remote controller display.</td>
</tr>
<tr>
<td>Draining water or motor rotation sound is heard.</td>
<td>- When cooling operation stops, the drain pump operates and then stops. Wait approximately 3 minutes.</td>
</tr>
</tbody>
</table>
11. Troubleshooting

<table>
<thead>
<tr>
<th>Having trouble?</th>
<th>Here is the solution. (Unit is operating normally.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise is louder than specifications.</td>
<td>■ The indoor operation sound level is affected by the acoustics of the particular room as shown in the following table and will be higher than the noise specification, which was measured in an echo-free room.</td>
</tr>
<tr>
<td></td>
<td>High sound-absorbing rooms</td>
</tr>
<tr>
<td></td>
<td>Normal rooms</td>
</tr>
<tr>
<td></td>
<td>Low sound-absorbing rooms</td>
</tr>
<tr>
<td>Location examples</td>
<td>Broadcasting studio, music room, etc.</td>
</tr>
<tr>
<td></td>
<td>Reception room, hotel lobby, etc.</td>
</tr>
<tr>
<td></td>
<td>Office, hotel room</td>
</tr>
<tr>
<td>Noise levels</td>
<td>3 to 7 dB</td>
</tr>
<tr>
<td></td>
<td>6 to 10 dB</td>
</tr>
<tr>
<td></td>
<td>9 to 13 dB</td>
</tr>
<tr>
<td>Nothing appears in the wireless remote controller display, the display is faint, or signals are not received by the indoor unit unless the remote controller is close.</td>
<td>■ The batteries are low. Replace the batteries and press the Reset button.</td>
</tr>
<tr>
<td></td>
<td>■ If nothing appears even after the batteries are replaced, make sure that the batteries are installed in the correct directions (+, -).</td>
</tr>
<tr>
<td>The operation lamp near the receiver for the wireless remote controller on the indoor unit is flashing.</td>
<td>■ The self diagnosis function has operated to protect the air conditioner.</td>
</tr>
<tr>
<td></td>
<td>■ Do not attempt to repair this equipment by yourself.</td>
</tr>
<tr>
<td></td>
<td>■ Turn off the power switch immediately and consult your dealer. Be sure to provide the dealer with the model name.</td>
</tr>
</tbody>
</table>

12. Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>PKA-RP60KAL</th>
<th>PKA-RP71KAL</th>
<th>PKA-RP100KAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source (voltage &lt;V&gt;/Frequency &lt;Hz&gt;)</td>
<td>~N/230/50</td>
<td>~N/230/50</td>
<td>~N/230/50</td>
</tr>
<tr>
<td>Rated Input (Indoor only) &lt;kW&gt;</td>
<td>0.06</td>
<td>0.06</td>
<td>0.08</td>
</tr>
<tr>
<td>Rated Current (Indoor only) &lt;A&gt;</td>
<td>0.43</td>
<td>0.43</td>
<td>0.57</td>
</tr>
<tr>
<td>Heater &lt;kW&gt;</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Dimension (Height) &lt;mm&gt;</td>
<td>365</td>
<td>365</td>
<td>365</td>
</tr>
<tr>
<td>Dimension (Width) &lt;mm&gt;</td>
<td>1170</td>
<td>1170</td>
<td>1170</td>
</tr>
<tr>
<td>Dimension (Depth) &lt;mm&gt;</td>
<td>295</td>
<td>295</td>
<td>295</td>
</tr>
<tr>
<td>Fan airflow volume (Low-Middle-High) &lt;m³/min&gt;</td>
<td>18-20-22</td>
<td>20-23-26</td>
<td>18-20-22</td>
</tr>
<tr>
<td>Net weight &lt;kg&gt;</td>
<td>21</td>
<td>21</td>
<td>21</td>
</tr>
</tbody>
</table>
Please be sure to put the contact address/telephone number on this manual before handing it to the customer.