INSTALLATION MANUAL

Decoration Panel Provided with Filter Auto-cleaning Function

Self Cleaning Decoration Panel

BYCQ125BGW1
1. Safety Considerations

Please read these “Safety Considerations” carefully before installing air conditioning equipment and be sure to install it correctly. After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the air conditioner and take care of it with the aid of the operation manual. Ask the customer to store the installation manual along with the operation manual for future reference.

This air conditioner comes under the term “appliances not accessible to the general public”.

Meaning of WARNING and CAUTION notices.

WARNING ……. Failure to follow these instructions properly may result in personal injury or loss of life.

CAUTION ……. Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

**WARNING**

- Ask your dealer or qualified personnel to carry out installation work.
- Do not attempt to install the air conditioner yourself. Improper installation may result in water leakage, electric shocks or fire.
- Perform installation work in accordance with the instructions in this installation manual. Do not modify the product. Improper installation may result in water leakage, electric shocks, or fire.
- Be sure to use only the specified accessories and parts for installation work.
- Failure to use the specified parts may result in the unit falling, water leakage, electric shocks or fire.
- Make sure that specified wires are used and that there is no strain on the terminal connections or wires.
- Improper connections or securing of wires may result in abnormal heat radiation or fire.
- Be sure to switch off the unit before touching any electrical parts.
- Arrange the lead wires of the provided harness so that the control box cover of the indoor unit will not rise, and attach the cover securely.
- Heat radiation, electric shocks, or fire may result if the control box cover is not attached properly.
- Tear up and dispose of the plastic bag.

Children playing with the plastic bag may be suffocated.

2. Instructions Peculiar to This Product

**Note**

The product requires periodic maintenance. Do not use the product in the following places.

Otherwise, dust adhering to the filter may not be removed and a malfunction may result because the dust can become sticky due to oil, tobacco smoke, and steam.

- Places where oil smoke is generated: Restaurants, factories, etc.
- Smoking areas: Smoking room, etc.
- Places with excessive special spray vapor or steam: Barber-shops, beauty salons, restaurants, laundry shops, pet shops, factories, etc.
- Other places: Places where dust adhering to the filter becomes sticky (places including salt damage from a salty atmosphere), places where dust is generated (because the air filter cannot collect dust), server rooms (the product is not in operation during cleaning), or places where a large quantity of fine dust is generated (the air filter is clogged and the filter needs to be cleaned frequently). Use the standard series for the air conditioning of the customer areas of restaurants and cafeterias.

The product may not be used in cases other than the above. For details, contact your dealer.

**Note**

- Have the customer actually operate the air conditioner while referring to the operation manual and explain the right operation of the air conditioner with useful tips given.
- Refer to the operation manual along with the installation manual provided with the indoor unit.
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The English text is the original instruction. Other languages are translations of the original instructions.
3. Accessory

Check that the following accessories provided with the air conditioner are correct in number. See the following illustration, which shows where the accessories are kept.

![Accessory Illustration]

### Table of Accessories

<table>
<thead>
<tr>
<th>Name</th>
<th>Quantity</th>
<th>Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spacer (1)</td>
<td>1 pc.</td>
<td></td>
</tr>
<tr>
<td>Flexible hose (2)</td>
<td>1 pc.</td>
<td></td>
</tr>
<tr>
<td>S-shaped pipe (3)</td>
<td>1 pc.</td>
<td></td>
</tr>
<tr>
<td>Harness (4)</td>
<td>1 pc.</td>
<td></td>
</tr>
<tr>
<td>Clamp (5)</td>
<td>2 pcs.</td>
<td></td>
</tr>
<tr>
<td>Seal (6)</td>
<td>1 pc.</td>
<td></td>
</tr>
</tbody>
</table>

**Point of operation explanation**

In addition to the general usage of the air conditioner, it is necessary to explain the descriptions of the \( \Delta \) WARNING and \( \Delta \) CAUTION marked items in the operation manual and have the customer read the descriptions carefully, because these items indicate information that, if not heeded, is likely to result in loss of life, serious injury, or property damage.

4. Installation Site

This product offers selectable air outlet directions. A closure kit (an optional accessory) is required to achieve three-way flow patterns. Two-way flow patterns are not available to this product.

### 4-1 Select the installation site that meets the following conditions with the consent of the customer

- The surface of the ceiling is not inclined.
- Installation and service workspace is secured (see the following illustrations).
- The panel indicators are seen with ease.
- The indoor and outdoor units, power cord, transmission wiring, and remote controller wiring are at least 1 m away from TV or radio sets. (The above is for the prevention of TV and radio interference. Depending on the incoming signal strength, a distance of 1 m may not be sufficient to eliminate noise.)

#### a. Test items on completion of work

<table>
<thead>
<tr>
<th>Test items</th>
<th>In case of failure</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the air conditioner free of wiring and connection mistakes or omissions?</td>
<td>Operation failure and wire burnout</td>
<td></td>
</tr>
<tr>
<td>Are you sure that there is no space between the ceiling and ceiling material?</td>
<td>Water leakage</td>
<td></td>
</tr>
<tr>
<td>Are the fixing knobs (in 2 points) of the dust box secured tightly?</td>
<td>Vibration, noise, and dust collection failure</td>
<td></td>
</tr>
<tr>
<td>Are the fixed knobs (in 5 points) of the air filter secured tightly?</td>
<td>Vibration, noise, and dust collection failure</td>
<td></td>
</tr>
<tr>
<td>Is the fall prevention cord for the dust box and grille hooked to the mounting bracket?</td>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>Did you attach the control box cover, dust box, flexible hose, S-shaped pipe, suction grille, and decoration corner covers?</td>
<td>Noise and dust collection failure</td>
<td></td>
</tr>
</tbody>
</table>

* Be sure to recheck the items provided in the section “1. Safety Considerations” on page i.

#### b. Test items before delivery

<table>
<thead>
<tr>
<th>Test items</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Was the test operation of the air conditioner finished?</td>
<td></td>
</tr>
<tr>
<td>Did you explain the operation method of the air conditioner to the customer while showing the customer the operation manual?</td>
<td></td>
</tr>
<tr>
<td>Did you make mode settings for filter auto-cleaning (automatic control operation settings or timer operation settings with an operation time zone specified) and provide information on the set mode operation of the air conditioner to the customer?</td>
<td></td>
</tr>
<tr>
<td>Did you deliver the operation manual to the customer? (Be sure to hand the customer the operation manual as well as the installation manual.)</td>
<td></td>
</tr>
</tbody>
</table>
4-2 Required installation space

Install the indoor unit according to the installation manual and the following illustrations.

[Required installation space]
Refer to the installation instructions of the indoor unit and install the product according to the following figure.

Note:
1. A space to allow dust vacuuming is required.
2. The lighting applies to exposed models (e.g., models of inverted mountain type) and there are no restrictions on embedded models (with no protrusion from the ceiling surface).
3. If the air discharge outlet is closed or the wind direction of the swing flaps are changed (to block the wind), the space marked with the asterisk (*) will be 20 in. (500 mm) or over. The space will be 8 in. (200 mm) or over if the air discharge outlet with both the left and right corners closed.
4. Refer to the operation manual provided with the remote controller for a setting method of the wind directions of the swing flap individual wind direction settings.

4-3 Mounting directions of suction grille
Select one of the following mounting directions of the suction grille on the panel.
5. Preparations for Panel

Note
• Perform all the required work in "5. Preparations for Panel" on page 4 with the panel kept in the packing material (on the bottom side).
• Do not put the panel downward or upright or leave the panel on protruding parts. Otherwise, scratch damage to the surface of the panel may result.
• Do not touch the swing flap and do not apply any force on the swing flap. This may result in malfunction of the unit.

5-1 Removal of suction grille from panel, protective corrugated cardboard, and set of accessories

(1) Press the knobs of the suction grille and lift up the knobs.

(2) Open the suction grille to an angle of approximately 45° and remove the suction grille from the panel.

(3) Take out the protective corrugated cardboard. Take out the protective corrugated cardboard (on top of the panel) together with the accessories attached to the backside of the protective corrugated cardboard.

Note
Do not impose force on the swing flap, brush unit, or air filter when handling the panel.

5-2 Removal of decoration corner covers

(1) Raise and remove the decoration corner cover (with the display) in the direction of the arrow.

Note
Do not impose force on the lead wires.

(2) Remove the screws on the backside of the decoration corner cover (with the display), open the cover, and remove the connector attached to the front end of the lead wires from the Printed circuit board.

(3) Remove each of the remaining decoration corner covers (i.e., three covers) in the direction of the arrow.

5-3 Removal of dust box

Fixing knob of dust box and clasp
6. Preparations for Indoor Unit

**WARNING**
Check that the indoor and outdoor units are turned power off before conducting wiring work. Otherwise, it may result in an electric shock.

**CAUTION**
• Conduct the following work after installing the indoor unit.
• Install the indoor unit according to the installation manual provided with the indoor unit.

---

(1) Turn the 2 fixing knobs of the dust box.

(The front side of the panel is shown for ease of explanation.)

(2) Remove the dust box from the panel while paying attention not to cut the fall prevention cord.

(3) Remove the fall prevention cord for the dust box from the clasp bracket of the panel.

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6-1 Attaching spacer (accessory (1))

(1) Remove the bypass hole closing cap.

(2) Peel off the release paper of the double-stick tape on the backside of the spacer (accessory (1)).

(3) Attach the spacer (accessory (1)) on the air bypass hole. Check that the air bypass hole is not blocked after the spacer is attached.

---

6-2 Attaching harness (accessory (4))

(1) Remove the control box cover from the indoor unit.
(2) Remove jumper connector from X8A.

(3) Connect the harness (accessory (4)) to the connectors (X8A, X35A and X36A) and the three points of the harness on the unit side.

6-3 Attaching control box cover
Attach the control box cover in the order opposite to the procedure in "6-2 Attaching harness (accessory (4))" on page 5 (1).

Note
Make sure that the wires or glass tube will not be caught by the control box cover.

WARNING
Arrange the electric wires neatly and attach the control box cover securely.
The electric wires being caught or the rising of the control box cover may result in an electric shock or fire.

7. Attaching Panel to Indoor Unit
Install the indoor unit by referring to the installation manual provided with the indoor unit.

Note
Do not impose force on the swing flap, brush unit, or air filter when taking out the panel from the packing material (on the bottom side).

7-1 Checks before attaching panel
• Check the directions of the indoor unit and the engraved marks on the panel as shown below.
The piping block to the PIPING SIDE and the drain socket to the DRAIN SIDE.
• Stand the temporary latching bracket upright.
• Draw out the lead wires (on the panel side) from the opening.

7-2 Attaching panel
(1) Tentatively put the two temporary latching brackets of the suction port of the panel (on the internal circumference side) to the hooks of the indoor unit.

Note
Let go your hands after confirming through the check window that the temporary latching brackets are engaged with the hooks.

(2) Remove from the harness opening as described in "6. Preparations for Indoor Unit" on page 5. Pull out the lead wires disconnected from the decoration cover in the corner carefully so that lead wires are not caught by the mounting bracket. See "6. Preparations for Panel" on page 4.

(3) Put the mounting brackets (in 4 points) on the corners of the panel to the hooks of the circumference of the indoor unit. (Hook the mounting bracket engraved with the PIPING SIDE first, followed by the mounting bracket on the opposite angle side.) At that time, pay attention that the harness and lead wires (on the panel side) will not be caught between the panel and indoor unit.

Note
Let go your hands after confirming that the mounting brackets are engaged with the hooks.

(4) Tighten the four hexagon head screws right under the mounting bracket for approximately 3/16 in. (5 mm.) (The panel will move upward.)

(5) Turn the panel in the directions of the arrows so that the opening on the ceiling will be perfectly covered by the panel.

(6) Furthermore, tighten the screw (4) until the distance from the lower part of the hook of the indoor unit to the lower part of the panel becomes 4-3/16 (107) to 4-7/16 in. (112 mm.)
7-3 Checking panel
(1) Remove sealing of panel.

1 Remove seal of panel
2 Insert the seal until the seal comes in contact with the clamp
3 Clamp
4 Sealing (accessory (6))

(2) Draw the harness and lead wires (on the panel side).

(3) Connect the connector of the lead wires and move the glass tube to cover the connector part.

(4) Tighten and secure both ends of the glass tube with the clamps on the glass tube together with provided clamps (accessories (5)). Cut the excess portions of the clamps from their roots after the both ends are secured.

(5) Return the connected lead wires to the space between the indoor unit and panel. (Accommodate the lead wires in the shaded part shown in the illustration.)

Note
Accommodate the lead wires carefully so that the lead wires do not come in contact with the air filter.

(6) Remove the control box cover from the indoor unit. Refer to “6-2 Attaching harness (accessory (4))” on page 5.

Note
• Tighten the screws securely, or otherwise a defect as shown below may result.
• Readjust the height of the indoor unit if there is a space between the ceiling and panel with the screws tightened securely.

Air leakage Air leakage from the ceiling side
Generation of dirt Drew condensation or dripping
Make sure that there is no space.

Height adjustments to the unit will be possible through the holes on the corners of the panels without removing the panel; provided that the adjustments do not affect the levelness or the drain piping of the indoor unit. Refer to the installation manual of the indoor unit to conduct the work.
(7) Connect the swing lead wire connector to the Printed circuit board.

1 Printed circuit board
2 Connect the swing lead wire connector to the Printed circuit board
   Be sure to connect them securely.
3 Swing lead wire (to X9A)

(8) Attach the control box cover in the order opposite to the procedure in "6-2 Attaching harness (accessory (4))" on page 5.

1 Swing motor lead wire, sensor lead wire, harness (1)
2 Control box
3 Close the resin cover
4 Secure with the clamp (accessory (5))

(9) Guide the lead wires through the hook.

1 Hook
2 Guide the wires through the hook

7-4 Attaching dust box

1 Engraved mark on piping side
2 Panel clasp
3 Engraved mark on drain side
4 Panel
5 Fall prevention cord
6 Dust box
7 Mount the dust box with the side where the mark is engraved faced downward.

(1) Hook the fall prevention cord for the dust box to the panel clasp as shown in the illustration.

1 Clasp
2 Hooked fall prevention cord
3 Panel
4 Fall prevention cord
5 Dust box

(2) Attach the dust box in the order opposite to the procedure in "5-3 Removal of dust box" on page 4.

Note
Make sure that the fall prevention cord is not caught by the exhaust opening on the dust box when attaching the dust box. Otherwise, the dust box may not function normally.

(3) Turn the fixing knobs (in 2 points) of the dust box and secure the dust box.

7-5 Mounting S-shaped pipe (accessory (3))
Mount the dust box side (engraved with A) before mounting the brush side (engraved with B).
(Mount them so that the engraved characters will be in conformity.)

Brush unit
Dust box

Make sure that the engraved characters are in conformity with each other.

Brush unit side
S-shaped pipe
(accessory (3))

Dust box side

Note
Check that the clamps are engaged securely. Otherwise, a dust collection failure may result.
8. Attaching Suction Grille and Decoration Corner Covers

The suction grill can be rotated and attached in two directions, either one of which is selectable. If a number of units are installed, adjust the directions of the suction grilles if necessary. Make directional changes as well at the request of the customer.

8-1 Attaching suction grille

* Select either the hook (A) or (B), and hook the clamps of the suction grille.

**Note**

The suction grille may be damaged if the wrong hooking side is selected.

8-2 Hook (A)

1. Set the suction grille to an angle of approximately 45° and put the hooks (in three points) onto the panel.

2. As shown in the illustration, hook the fall prevention cords for the suction grille to the corner clasps (on 2 corners).

3. Connect the flexible hose (accessory (2)) onto the panel side. (The flexible hose (accessory (2)) has no directionality constraint.)

(3) Connect the flexible hose (accessory (2)) onto the panel side. (The flexible hose (accessory (2)) has no directionality constraint.)

4. Press fit the flexible hose connected in (3) into the panel. (Make sure that the hose will not be caught while closing the suction grille.)

**Note**

Be sure not to break the flexible hose when press fitting the flexible hose.

5. Connect the opposite end of the flexible hose connected in (3) onto the suction grille side.

* Rotate the flexible hose joint on the suction grille side according to the mounting direction of the suction grille as shown in the illustration.

**Note**

Check that the clamps are engaged securely. Otherwise, a dust collection failure may result.

Flexible hose joint on the suction grille side

Press fit the flexible hose along the shape of the corner.

Fit the clamps into the hooks (in two points) securely.
10

(6) Push up the suction grille slowly first, and while pressing the two knobs, finally fit the grille into the panel securely.

Note

The suction grille can catch the fall prevention cords while the suction grill is closed. Check that the fall prevention cords do not protrude from the suction grille before closing the suction grille.

8-3 Hook (B)

(1) Set the suction grille to an angle of approximately 45° and put the hooks (in 3 points) onto the panel.

(2) As shown in the illustration, hook the fall prevention cords for the suction grille to the corner clasps (on 2 corners).

(3) Connect the flexible hose (accessory (2)) onto the panel side. (The flexible hose (accessory (2)) has no directionality constraint.)

(4) Press fit the flexible hose connected in (3) into the panel. Make sure that the hose will not be caught while closing the suction grille.

(5) Connect the opposite end of the flexible hose connected in (3) onto the suction grille side. * Rotate the flexible hose joint on the suction grille side according to the mounting direction of the suction grille as shown in the illustration.

Note

Check that the clamps are engaged securely. Otherwise, a dust collection failure may result.

(6) Push up the suction grille slowly first, and while pressing the two knobs, finally fit the grille into the panel securely.
Note
The suction grille can catch the fall prevention cords while the suction grill is closed. Check that the fall prevention cords do not protrude from the suction grille before closing the suction grille.

8-4 Attaching decoration corner covers
(1) Connect the decoration corner cover (with the display) securely to the Printed circuit board in the order opposite to the procedure in "5. Preparations for Panel" on page 4.

(2) Attach the decoration corner cover (with the display) to the corner with the DRAIN SIDE engraved mark. Push the connected lead wires through the corner hole onto the backside of the ceiling.

(3) Hook each of the cords of the remaining decoration corner covers (i.e., three covers) onto the corresponding pin on the panel.

(4) Attach the decoration corner covers (i.e., the three covers) to the panel.

9. Operation Mode Settings
Any one of the following operation modes can be selected for the filter auto-cleaning of the self-clean panel.

<table>
<thead>
<tr>
<th>Operation mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Scheduled timer operation</td>
<td>Performs filter auto-cleaning during the designated period selected from eight periods.</td>
</tr>
<tr>
<td>(2) 00:00-to-03:00 operation</td>
<td>Performs filter auto-cleaning during the factory-set period of time (00:00 to 03:00).</td>
</tr>
<tr>
<td>(3) Auto control operation</td>
<td>Performs filter auto-cleaning according to the control reference.</td>
</tr>
</tbody>
</table>

In consultation with the customer, set the desired operation mode by referring to the instructions on Filter Auto Clean in the operation manual for the Self Cleaning decoration panel.

At the time of delivery, refer to the contents of descriptions (1) through (3) in the above table and explain the customer when filter auto-cleaning will start.

10. Field Settings
Make settings in consultation with the customer according to the installation and usage conditions of the air conditioner. The following three settings are possible.

10-1 Dust quantity settings
Make settings according to the quantity of dust in the room.
- Standard quantity of dust (General offices)
- Large quantity of dust (Stores dealing in clothing)

10-2 Panel indicator (green) On/Off
The panel indicator (green) can display the following operating conditions. Make indicator settings according to the request of the customer.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Operating conditions</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Lit</td>
<td>Air-conditioning operation</td>
</tr>
<tr>
<td></td>
<td>Flashing</td>
<td>Filter auto-cleaning</td>
</tr>
</tbody>
</table>

The red lamp to inform the customer of the time of dust collection will not be turned off.
Make field settings according to the installation manual of the remote controller. (Settings in bold cells are made before shipping.)

<table>
<thead>
<tr>
<th>Setting Item</th>
<th>Mode No.</th>
<th>FIRST CODE NO.</th>
<th>SECOND CODE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Dust Collection sign 1</td>
<td>10 (20)</td>
<td>(3) Display</td>
<td>No display</td>
</tr>
<tr>
<td>Dust quantity settings</td>
<td>14 (24)</td>
<td>(9) Standard quantity of dust</td>
<td>Large quantity of dust</td>
</tr>
<tr>
<td>Panel indicator (green) on/off</td>
<td>14 (24)</td>
<td>(4) On while in air-conditioning operation and filter cleaning operation.</td>
<td>Possible to turn on while in filter cleaning operation only.</td>
</tr>
</tbody>
</table>

**11. Test Operation**

Perform the test operation of the Self Cleaning decoration panel after the test operation of the indoor unit is finished. The test operation of the Self-Cleaning Decoration Panel is not possible while the indoor unit is in operation.

**Note**

Perform the test operation of the product after referring to “a. Test items on completion of work”.

11-1 **Check that the control box covers of the indoor unit, outdoor unit, and self-clean panel, respectively, are closed**

11-2 **Turn the indoor unit power on**

The panel will go into initialization operation after the power is turned on.

11-3 **Conduct the test operation of the panel 2 minutes after the power is turned on**

Confirm the cleaning operation of the filter with the remote controller.

**Test operation method with remote controller**

1. Stop the operation of the panel if the panel is in air-conditioning operation.
2. Continue pressing the Cancel button at least 4 seconds while the backlight is lit. The service settings menu will appear.
3. Select **Test Filter Auto Clean** from the service settings menu, and press the Menu/Enter button.
4. “•” will appear on the basic screen. The display will disappear when the test operation is finished. The required test operation time is approximately 10 minutes (in the case of setting the standard quantity of dust).

**Backlight for LCD**

Press any button and the backlight will be lit for approximately 30 seconds. Perform the operation of buttons while the backlight is lit (except the On/Off button).

**Test items on test operation**

<table>
<thead>
<tr>
<th>Test items</th>
<th>Remedy</th>
<th>Check result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the filter rotating?</td>
<td>Check the connector connections.</td>
<td></td>
</tr>
<tr>
<td>Are the flaps fixed horizontally?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Is “•” displayed on the screen of the remote controller? | | *

* The remote controller will display “AH” if the self-clean panel has an error.

**Note**

After the test operation of the product is finished, refer to “b. Test items before delivery” in the installation manual.
Our continuing commitment to quality products may mean a change in specifications without notice.

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