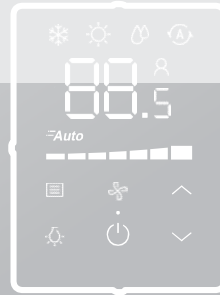![CLIVET]

INSTALLATION
& OWNER'S MANUAL

In-built controller KJRP-75A

PEMF00001

IA19M012ML-00

Thank you very much for purchasing our product.
Before using your unit, please read this manual carefully and keep it for future reference.

- This manual gives detailed description of the precautions that should be brought to your attention during operation.
- In order to ensure correct service of the wired controller please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.

CONTENTS

1 OPERATION

1.1 Operation precautions

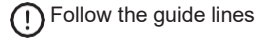- Read the safety precautions carefully before installing, and must be obeyed.

⚠ **WARNING**

Means improper handling may lead to personal death or severe injury.

CAUTION

Means improper handling may lead to personal injury or property loss.

- This manual uses the following icons:

🚫 Prohibit   ⓘ Follow the guide lines

Please entrust the distributor or professionals to install the unit. Before cleaning or maintenance, please cut off the power, and prohibit to use water for washing, to prevent electrical shock.

Do not operate by wet hand, to prevent electrical shock.

Do not use pesticide, disinfectant and flammability spray materials to spray directly, otherwise will cause fire or deformation.

Do not peel off the button and the cover by hand, to prevent electrical shock.
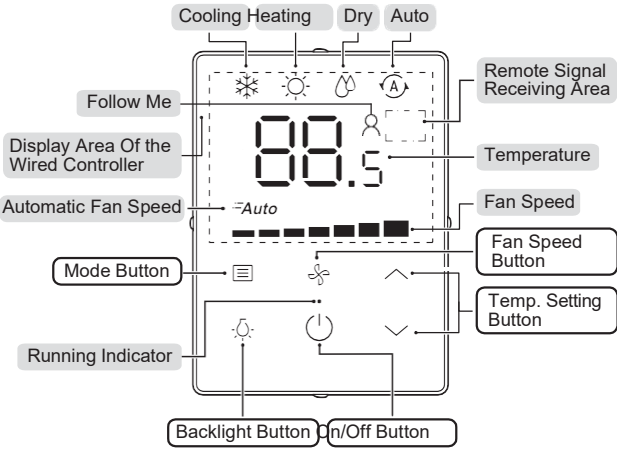
1.2 Operation conditions

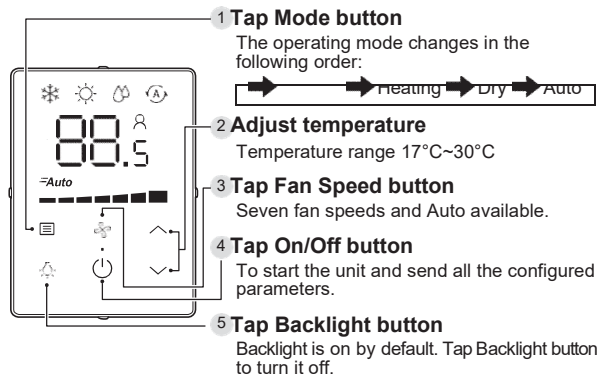| Voltage input	DC 12V
Operating ambient temperature range	-10~43°C
Operating ambient humidity range	≤ RH90%

1.3 Main functions

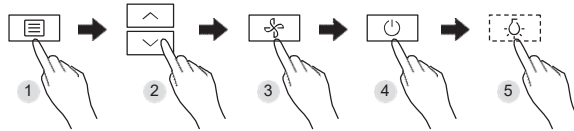1. Connected to IDU main control board via 5-core shielded cable;
2. Setting IDU operating status by tapping touch keys;
3. LED display.

1.4 User interface

Cooling Heating   Dry   Auto
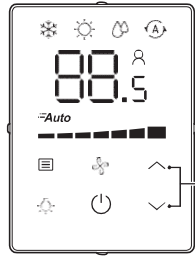
Follow Me

Display Area Of the Wired Controller

Automatic Fan Speed

Mode Button

Running Indicator

Backlight Button   On/Off Button

Remote Signal Receiving Area

Temperature

Fan Speed

Fan Speed Button

Temp. Setting Button

03

1.5 Instructions for use

1.5.1 Basic setting

1 Tap Mode button

The operating mode changes in the following order:

Heating → Dry → Auto

2 Adjust temperature

Temperature range 17°C~30°C

3 Tap Fan Speed button

Seven fan speeds and Auto available.

4 Tap On/Off button

To start the unit and send all the configured parameters.

5 Tap Backlight button

Backlight is on by default. Tap Backlight button to turn it off.

1.5 Instructions for use

1.5.2 "Follow Me" Operation Process

The Follow Me function is disabled by default.

After active the Follow Me function, controller will showing the room temp which detect by the controller self, and send the value to fancoil every 3 mins, to replace the value which detect by the room temp sensor of fancoil sensor.

Start or exit Follow Me

Long press the Up button + Down button for 2s to start (or to exit) the Follow Me function. The Follow Me function icon is turn on (or turn off) .

⚠ CAUTION

If the wired controller is placed in a box, it may not accurately detect the ambient temperature !

1.6 Further details

1.6.1 Supplementary instructions

- Fan Speed button ✿:
  Fan speed cannot be set in Dry/Auto mode (Auto displayed).

- Backlight mode:

  1) Steady On: means backlight is normally on.
  Tapping (¹) to start the unit can enter the backlight steady on mode.
  If backlight is off, tapping ☼ can switch to steady on mode.

  2) Auto Off: means backlight is automatically off after 4s.
  If backlight is off, tapping any button (except backlight and On/Off) can switch to Auto Off mode.

⚠ CAUTION

Do not peel off the buttons and liquid crystal cover, to prevent electric shock!

No.	Error	Name	Remarks	Fault Code
1	Error	E²PROM communication error	Unit stopped; unrecoverable	E7
2	Error	Wired controller temperature sensor port abnormal	The wired controller can operate normally after the wired controller temperature sensor fails. There are two cases: (1) When the Follow Me function is enabled, the E0 code is displayed (not displayed during operation), and the main board is controlled by the temperature of the air return port. (2) The E0 code is not displayed when the Follow Me function is disabled.	E0
3	Error	Room temperature (air return port) sensor port abnormal	Unit stopped; automatic recovery after clearing	E2
4	Error	Coil sensor (T2C) port abnormal	Unit stopped; automatic recovery after clearing	E3

No.	Error	Name	Remarks	Fault Code
5	Error	Coil sensor (T2H) port abnormal	Unit stopped; automatic recovery after clearing	E4
6	Error	DC motor stall fault	Unit stopped; unrecoverable	E8
7	Error	Main board and wired controller communication error	Unit stopped; automatic recovery after clearing	E9
8	Protection	Water level exceeding warning line	Automatic recovery after clearing	EE
9	Protection	Model protection not set (model DIP switch not listed in the model table)	Power-on recovery after a model is selected	PF
10	Protection	Water temperature protection	Automatic recovery after clearing	P1
11	Protection	Anti-freezing protection	Automatic recovery after clearing	P0
12	Protection	Remote shutdown	The running indicator and fault indicator act, the buzzer does not, and the protection code is output.	P2

2 INSTALLATION

2.1 Safety precautions

- Read the safety precautions carefully before installing the unit.
- Stated below are important safety issues that must be obeyed.

⚠ WARNING

- Please entrust the distributor or professionals to install the unit, do not install the unit by the user.
- Do not uninstall the unit randomly.
- The wiring should adapt to the wired controller current.
- The specified cables shall be applied in the wiring. No external force may be applied to the terminal.
- The circuit of wire controller is low voltage circuit, do not contact to the high voltage circuit, and can not be arranged in the same wiring pipe with the high circuit, the distance between the wiring pipes should at least more than 300~500mm.

- Do not connect transition or extended connection in the middle of the wirings of the wire controller.

2.2 Installation accessories

Please confirm that all the following parts have been supplied.

| No.	Name	Qty	Remarks
1	Wire controller	1	Used to control the IDU main unit.
2	M4×20 Philips head screw	4	Used to install the wired controller onto the wall.
3	Installation and operation manual	1	Used to guide the operation and installation of wired controller.
4	Plastic bolt	4	Used to install the wired controller onto the wall.
5	Connection cable set	1	Used to connect the IDU main control board and the wired controller.

● Please install the following accessories in the filed.

NO.	Name	Qty	Remarks
1	Shielded 5-core cable	1	RVVP-0.5 mm^2×5, embedded into the wall
2	Wiring tubes (insulation suite)	1	Embedded into the wall; maximum wiring length: 15 m
3	Big Phillips screwdriver	1	Used to install cross recessed head screws
4	Small slotted screwdriver	1	Used to remove the bottom cover of wired controller

2.3 Installation dimensions

Before installation, refer to the mounting dimensions and the size of product below (unit: mm).

75

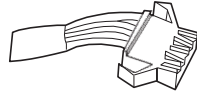15

102

11

60

41

30

UP
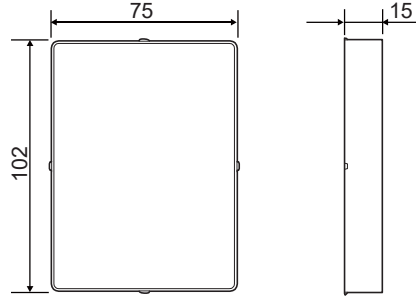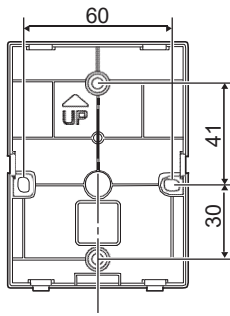
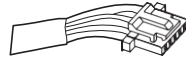## 2.4 Installation method

2.4.1 Non-wall-mounted

1. Wiring requirements

- The two ends of the connection cable set are different. That with the larger 5-core plug is defined as terminal A, while that with the smaller 5-core plug is defined as terminal B.
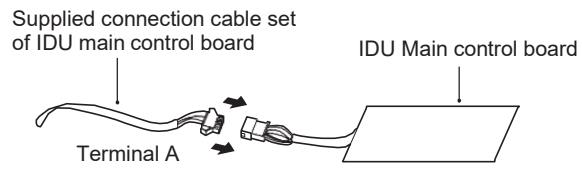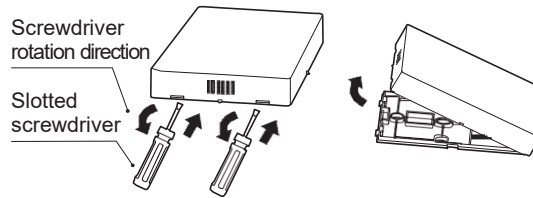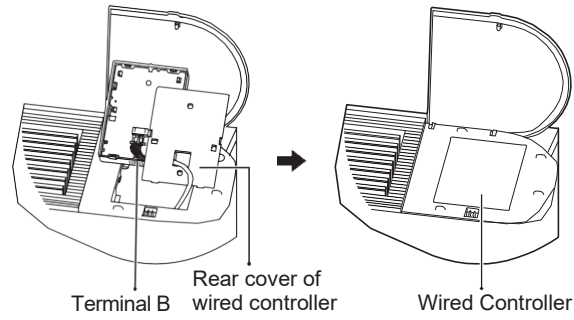

Terminal A   Terminal B

12

- Connect terminal A to the 5-core socket of the IDU main control board (See the figure below).

Supplied connection cable set
of IDU main control board

IDU Main control board

Terminal A

2. Insert a slotted-head screwdriver into the bottom slot of the wired controller, and rotate in the direction indicated to remove the rear cover of the wired controller.

Screwdriver rotation direction

Slotted screwdriver

3. Take terminal B out of the FCU electric control box and pass it through the wiring hole in the rear cover of the wired controller. Connect terminal B to the 5-core socket on the PCB of wired controller. Then, restore the rear cover of wired controller and install the wired controller into the FCU electric control box with the display panel face-up, as shown below.
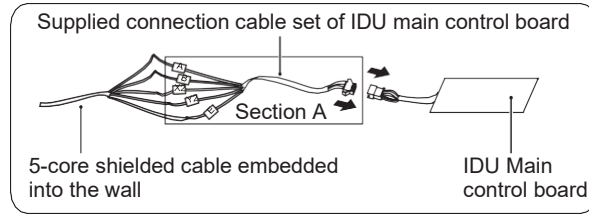
Terminal B

Rear cover of
wired controller

Wired Controller

⚠ **CAUTION**

The wired controller can be installed on the left or right side of FCU, depending on the circumstances.

2.4.2. Wall-mounted

1. Wiring requirements

- Cut the connection cable set in the middle (unsheathed place). The section that includes terminal A is section A, while the section that includes terminal B is section B.

- Connect terminal A to the 5-core socket of the IDU main control board (See the figure below).

Supplied connection cable set of IDU main control board

Section A

5-core shielded cable embedded into the wall

IDU Main control board

- Connect the cut end of section A (the end opposite to terminal A) to the 5-core shielded cable embedded in wall reliably, as shown in the above figure.

- Connect the cut end of section B (the end opposite to terminal B) to the 5-core shielded cable embedded in wall reliably, as shown in the figure below.

15

5-core shielded cable embedded in the wall
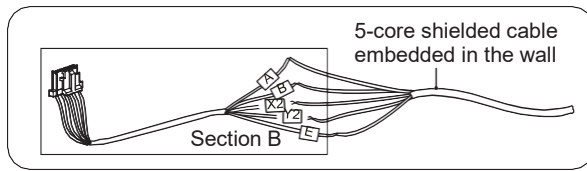
Section B

- Make sure that the five wiring terminals of the wired controller (A/B/X2/Y2/E) correspond to those of the connection cable set (accessory) one by one.
- The shielded layer of 5-core shielded cable must be grounded.
- The longest wiring length of the system is 50 m.

2. Insert a slotted-head screwdriver into the bottom slot of the wired controller and rotate in the direction indicated to remove the rear cover of the wired controller, as shown in the figure below.

Screwdriver rotation direction

Slotted screwdriver

16
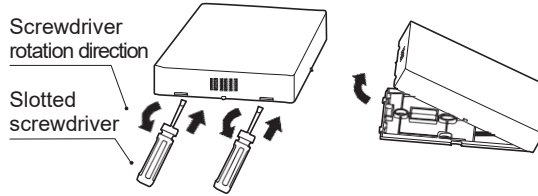
3. Pass section B of the connection cable set through the wiring hole in the rear cover of the wired controller, and fix the rear cover of wired controller on the wall using four plastic studs and the Philips head screws, as shown in the figure below.
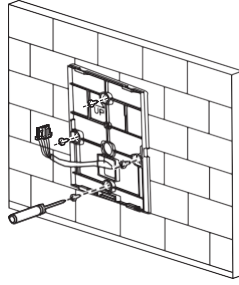
4. Connect terminal B to the 5-core socket in the PCB of the IDU main control board, as shown in the figure below.
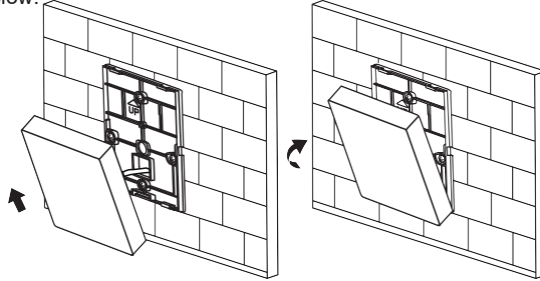
⚠ **CAUTION**

After the terminal is properly connected, put the excess cable back to the hole on the wall (instead of leave it in the wired controller).
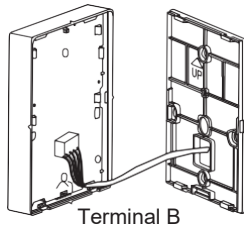
Terminal B

5. Knock the front cover of wired controller into the rear cover with the bottom buckles aligned first, as shown in the figure below.

2.5 Schematic drawing of installation

Wiring with IDU:

IDU electric control box

IDU electric control board

← 5-core shielded cable

Back of the wired controller

19