

ORIGINAL
MANUAL



Owner's & Installation Manual

IDU Online Kit

MCAC-PIDU



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 IDU Online Kit, please read this manual carefully before using the unit.
- For convenience of future reference, keep this manual after reading it.

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OPERATION

I. Safety Precautions

The following contents are stated on the product and the operation manual, including usage, precautions against personal harm and property loss, and the methods of using the product correctly and safely. After fully understanding the following contents (identifiers and icons), read the text body and observe the following rules.



■ Identifier description


Identifier	Meaning
 Warning	Means improper handling may lead severe injury.
 Caution	Means improper handling may lead to injury or property loss.


[Note]:

Personal harm like injury, burning or electric shock which need long-term treatment but no hospitalization.

■ Icon description

Icon	Meaning
	It indicates forbidden. The forbidden subject-matter is indicated in the icon or by images or characters aside.
	It indicates compulsory implementation. The compulsory subject-matter is indicated in the icon or by images or characters aside.

 Warning	Delegate installation	Please entrust the distributor or professionals to install the unit. The installers must have the relevant know-how. Improper installation performed by the user without permission may cause fire, electric shock, personal injury or water leakage.
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 Usage Warning	Forbid	Do not spray flammable aerosol to IDU Online Kit directly. Otherwise, fire may occur.
	Forbid	Do not operate with wet hands or let water enter the wire controller. Otherwise, electric shock may occur.



WARNING

- All electrical parts must comply with the local laws and regulations, and what is stated in this installation manual. The installation works must be carried out by a professional and qualified electrician. Insufficient capacity or improper electrical work can lead to electric shock or fire.
- Air conditioning system must be powered off before controllers or accessories are connected.
- Use only electrical cables that fulfil the specifications. All wiring on site must be carried out in accordance with the connection diagram attached to the product. Make sure that there are no external forces acting on the terminals and wires. Improper wiring and installation may cause fire.
- Make sure the unit is grounded, and the grounding must conform to the local law.
- The unit does not include a safety switch device. Make sure a safety switch device that can completely disconnect all polarities is included in the installation, and that the safety device can be completely disconnected when there is excessive voltage (such as during a lightning strike).

II. Main parameters and functions

● Main parameters

Input voltage	24V AC, 50/60Hz
Inspected voltage	220~240V AC, 50/60Hz
Ambient temperature	-25~50°C
Ambient humidity	RH40%~RH90%

● Functions

MCAC-PIDU is used to inspect the AC 220V power supply of the indoor unit.

When the AC 220V power of indoor unit is off, provide 5V/12V weak current to the indoor unit and shut down the indoor unit.



INSTALLATION

I. Installation Accessories

1. installation place selection

Do not install at the places which contain oil, steam and sulfur air, otherwise it will cause product deformation and lead to malfunction.

Preparation before installation

1) Please confirm that all the following parts have been supplied.

NO.	Name	Qty	Remark
1	MCAC-PIDU	1	_____
2	ST3.9×10 Cross recessed pan head tapping screws	2	_____
3	M4×20 cross groove, pan-head wood screws	2	_____
4	Plastic pipes	2	_____
5	Installation instructions	1	_____
6	MCAC-PIDU connecting wire groups (3 meters long)		Use for connecting MCAC-PIDU to the IDU Main PCB
7	Cable tie	3	Used to clean up the line group
8	Connecting terminal	1	Use for connecting 24V AC to the CN2 of MCAC-PIDU

2) The following assemblies should be prepared at the local installation site.

NO.	Name	Qty	Remark
1	Wiring conduit (insulated sleeve)	1	Pre-embedding into the wall, the longest wiring is 3M.
2	Screwdriver Big cross	1	Used for mounting cross groove pan head screws and opening Power reserve board cover



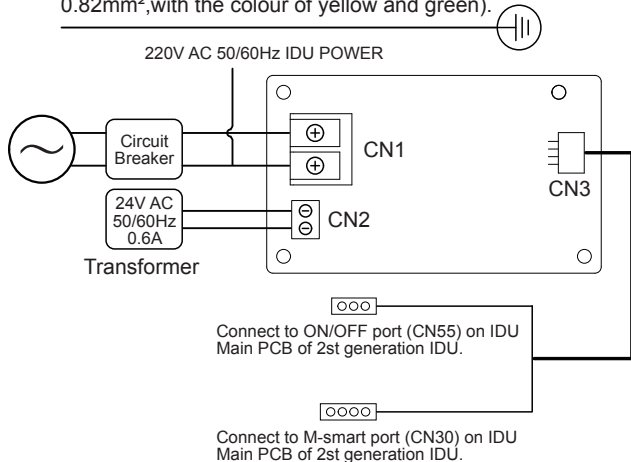
NOTE

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- This instruction describes the installation method and operation instruction of IDU Online Kit.
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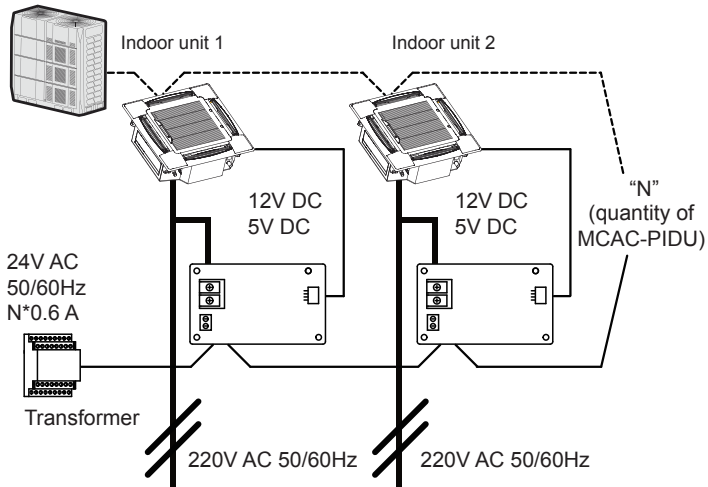
II. Installation method

1. Wiring Diagram of MCAC-PIDU

Metal case must be grounded by earth line(18AWG 0.82mm²,with the colour of yellow and green).



2. Installation Site

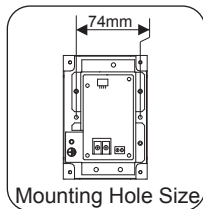
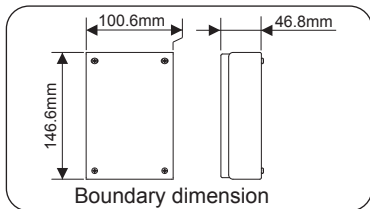


NOTE

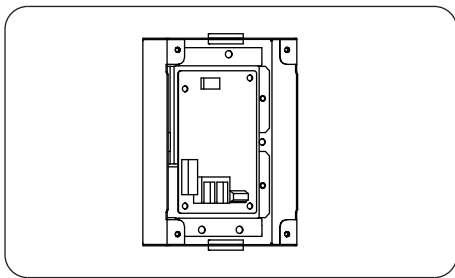
- The power supply of indoor unit and power supply of the transformer must be different.
- When supply the IDU Online Kit, must make sure the current of transformer is big enough to supply so many kits.

3. MCAC-PIDU installation steps

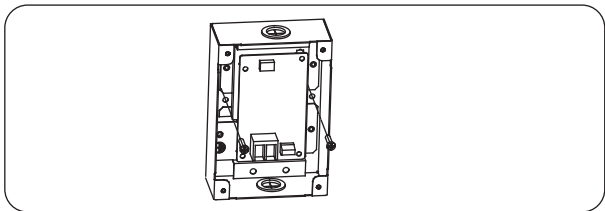
1) Before installing, please refer to the following installation dimension and the overall dimension of the product (Unit: mm).



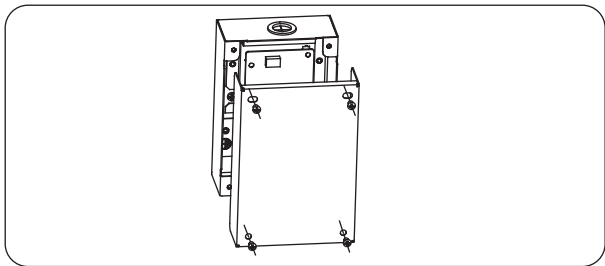
2) Open the top cover of IDU Online Kit with a phillips screwdriver and connect the thread according to the wiring diagram.



3) Fix IDU Online Kit in the line slot or wall with the socket head screw of the accessory.

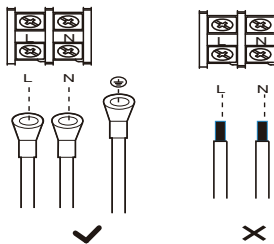


4) Cover the front cover and use a phillips screwdriver to tighten the four screws.



5) Solderless ring terminal must be used for strong electricity

220V AC 50/60Hz



6) 24V AC 50/60Hz electric transformer and the power cables, for power supply, should be purchased separately as they are not provided by manufacturer.

7) 18AWG(0.82mm²) is recommended for 220V AC branch cables connected to IDU Online Kit, and 22AWG(0.32mm²) is recommended for 24V AC.



CAUTION

Before installation, the power supply must be cut off to prevent electric shock.

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OFICINA CENTRAL
Blasco de Garay, 4-6
08960 Sant Just Desvern
Barcelona
Tel. 93 480 3322
<http://www.frigicoll.es>

BUREAU CENTRAL
Pavé Silié-Immeuble Panama
45 rue de Villeneuve
34050 Roumégat
Tel. +33 9 80 80 15 14
<http://www.frigicoll.es>