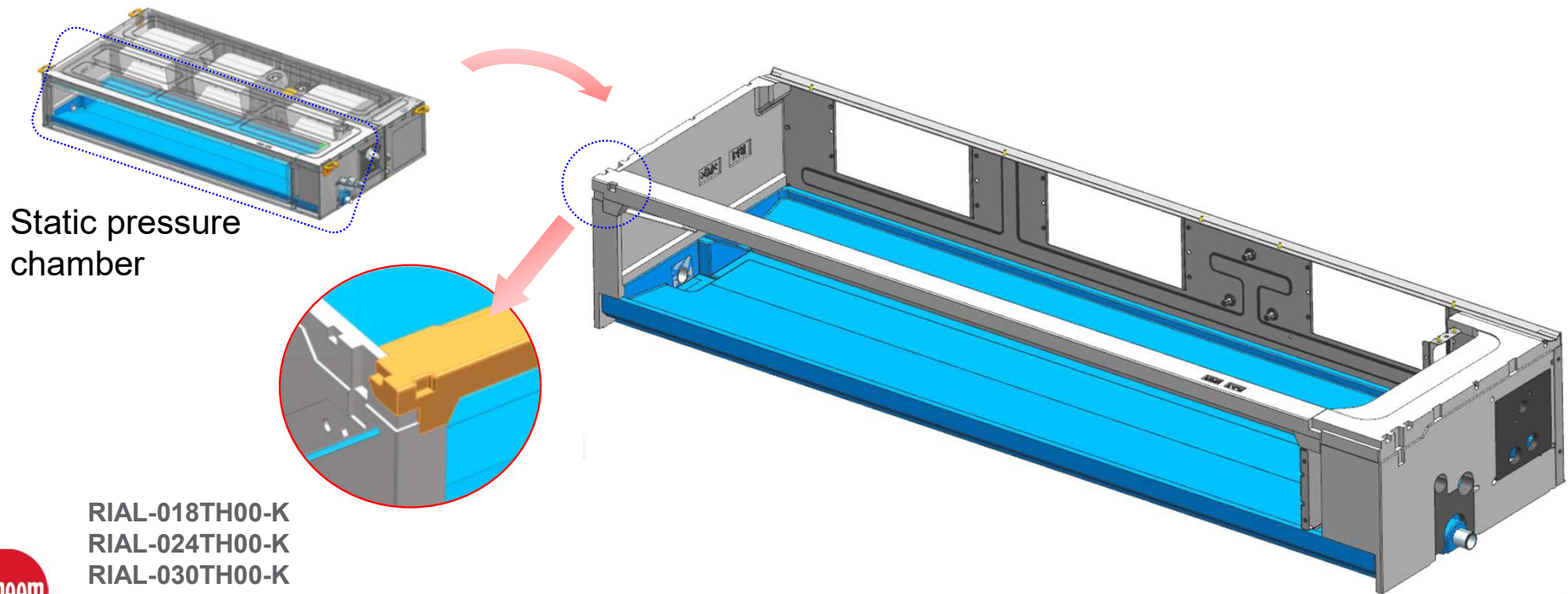Static pressure chamber

Seal design of static pressure chamber. Reduce air volume leakage under high static pressure (same as Japan and South Korea brand)
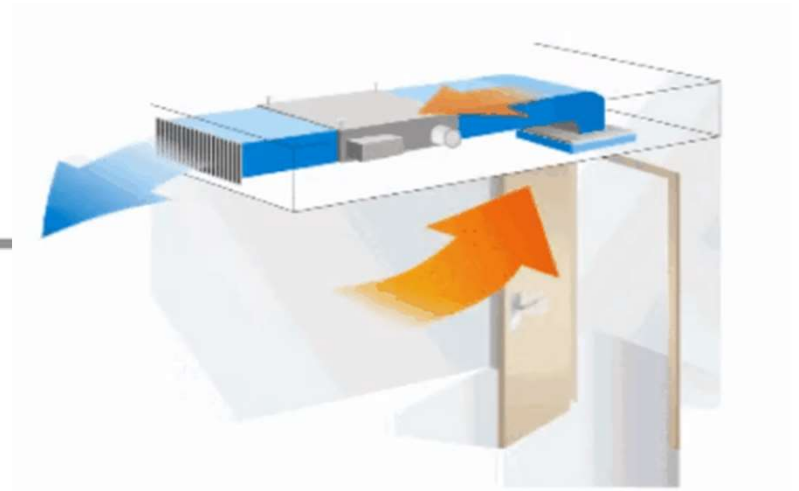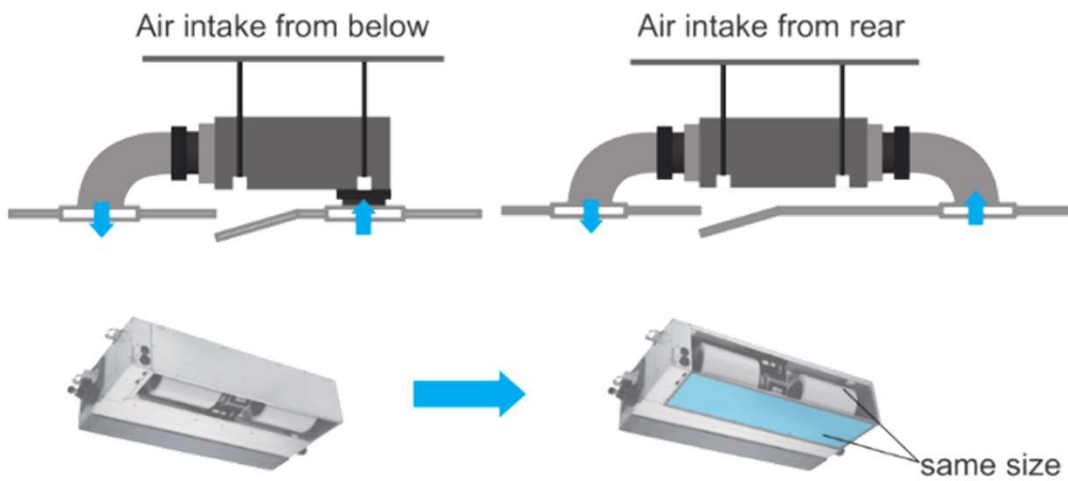
Static pressure chamber

RIAL-018TH00-K
RIAL-024TH00-K
RIAL-030TH00-K

Flexible Air Intake

Air intake from rear is standard, from bottom is optional. Suitable for different installation requirement.

Air intake from below

Air intake from rear

same size

RIAL-018TH00-K
RIAL-024TH00-K
RIAL-030TH00-K

Fresh air intake

Reserved fresh air intake hole. It is available for connecting fresh air duct.

It is allowed max. 10% fresh air for the indoor unit.
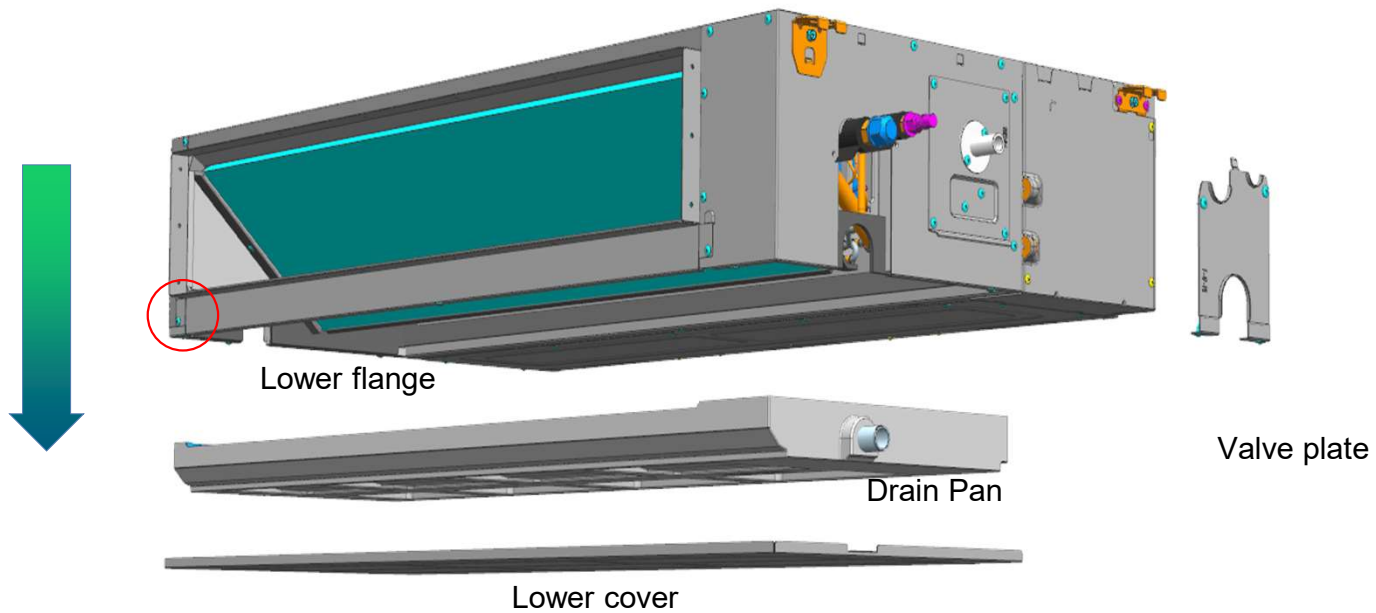

Fresh air intake hole

RIAL-018TH00-K
RIAL-024TH00-K
RIAL-030TH00-K

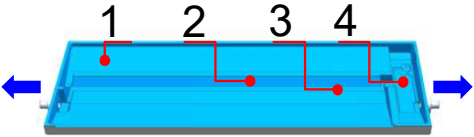Simple structure ensures that the whole machine is repaired and cleaned without destroying the installed air duct.

Lower flange

Valve plate

Drain Pan

Lower cover

RIAL-018TH00-K
RIAL-024TH00-K
RIAL-030TH00-K

Brand	Special Drain Pan Design
Structure	
Material	Blister (PVC) (plasitic suction)
Drainage direction	**2 way**
Conclusion	4-step Drain Pan, Drains quickly and completely; Less storage water

Optional Water Pump

The water pump is optional for duct unit with the head of delivery is up to 700 mm, it is flexible for installation.
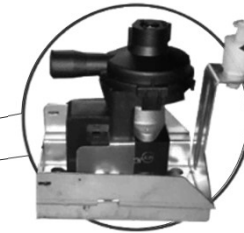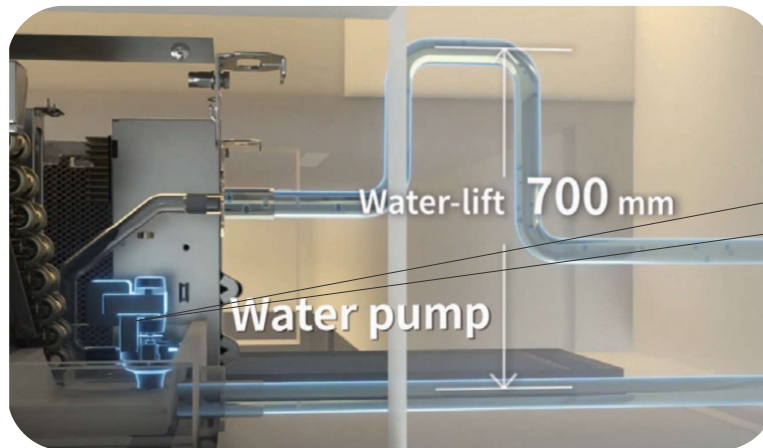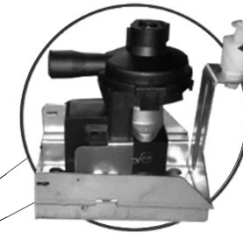
700 mm

RIAL-018TH00-K
RIAL-024TH00-K
RIAL-030TH00-K

Optional Water Pump

The optional built-in pump can lift condensing water up to 700 mm high from the drainage pan.

700 mm

RIAL-036TH00-K
RIAL-042TH00-K
RIAL-048TH00-K
RIAL-055TH00-K

Inverter Compressor

DC inverter compressor & DC fan motor have good efficiency in part load condition, more energy saving ;
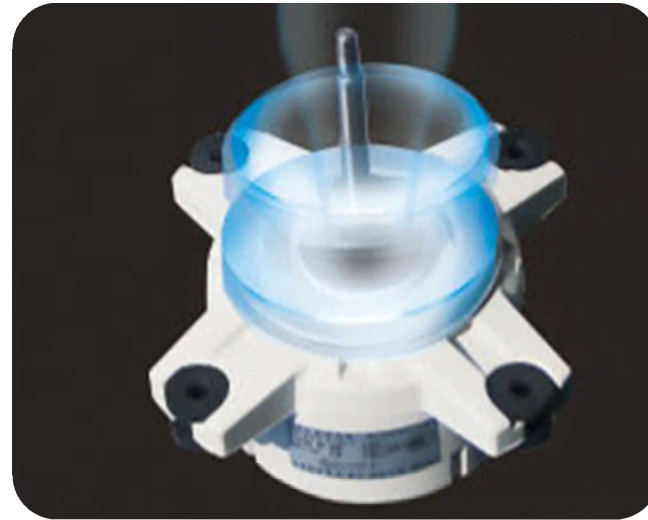
Refrigerant Cooled & Insulated PCB Box

It helps to reduce the operation temperature of PCB by 30℃, prevent the PCB from overheating to make sure it can run steadily, also prolong its service life.(Only for 36/42/48/55K Outdoor Unit)
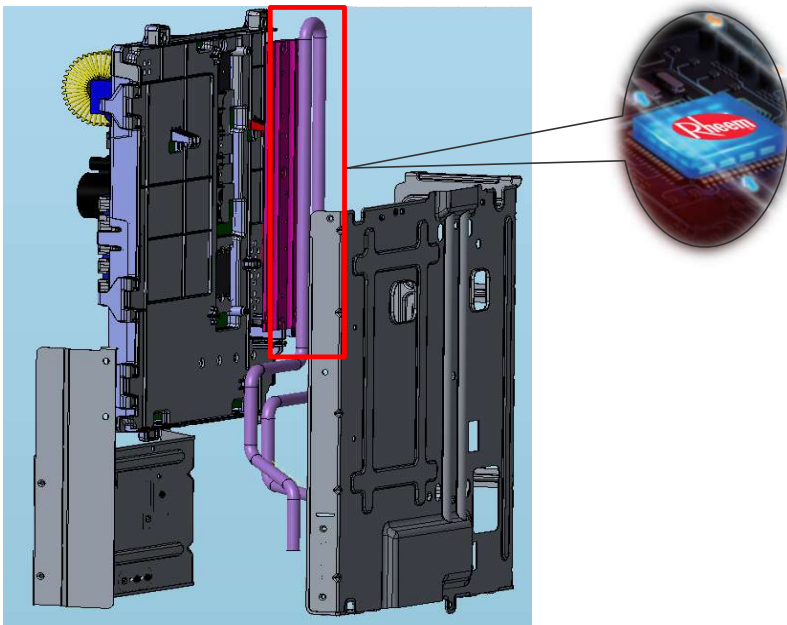
R&D Center
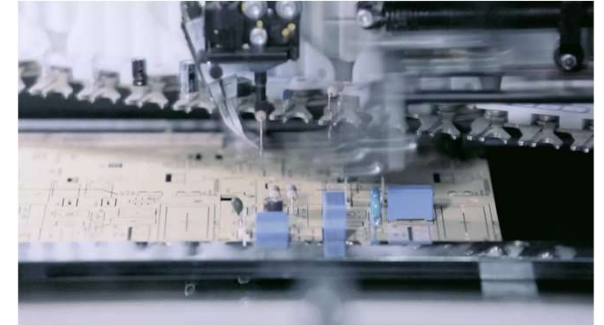
Smart factory—self-produced

The unit could operate perfectly between 55℃ in hot summer and -5℃ in cold winter, making a comfortable environment.

-5℃   **24℃**

17℃   **55℃**

55℃

The AC can automatically memorize the operation setting when power is cut off accidentally. It can return to previous setting when power resumes.
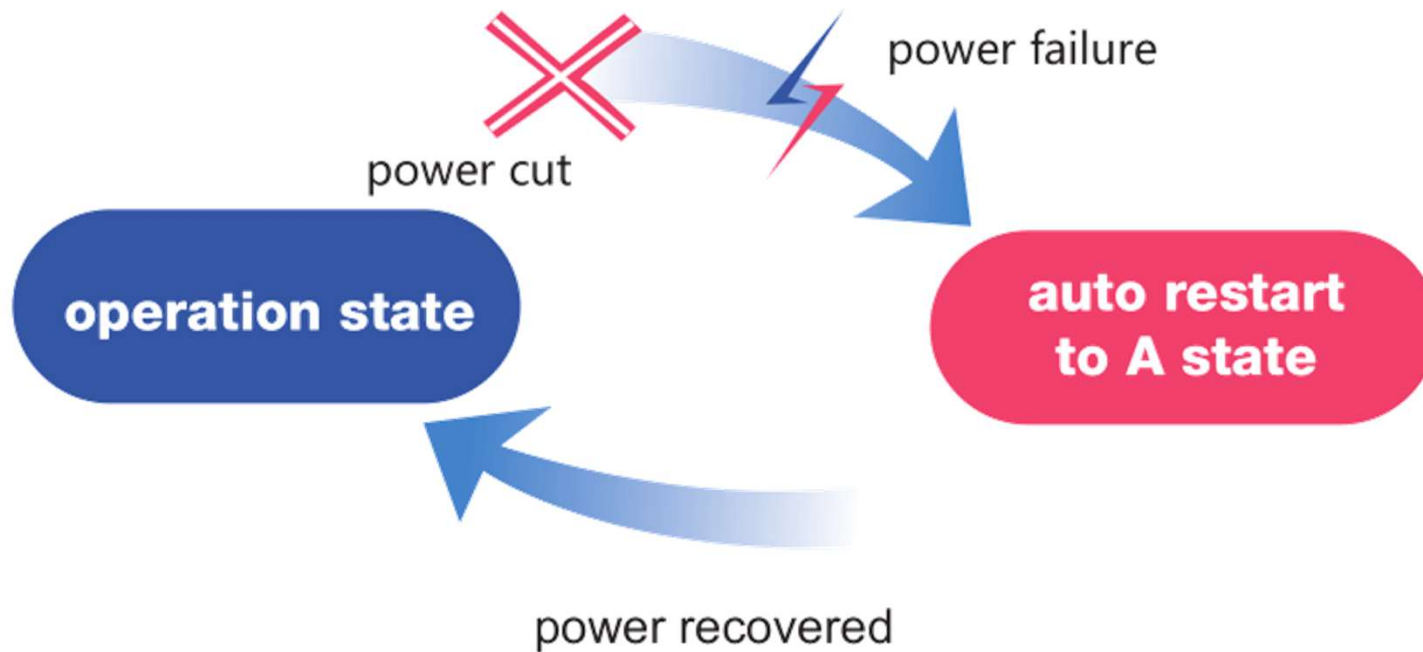
Long piping / high drop between IDU and ODU, flexible installation

Indoor Unit

H1   L1

Outdoor Unit

Piping Length（m）		
Capacity (K Btu/h)	Max. Piping Length L1	Max. Piping High H1
18/24K	30 m	15 m
36/42/48/55 K	50 m	30 m

System protection

Discharge temperature too high protection

Condenser temperature too high protection

High pressure protection
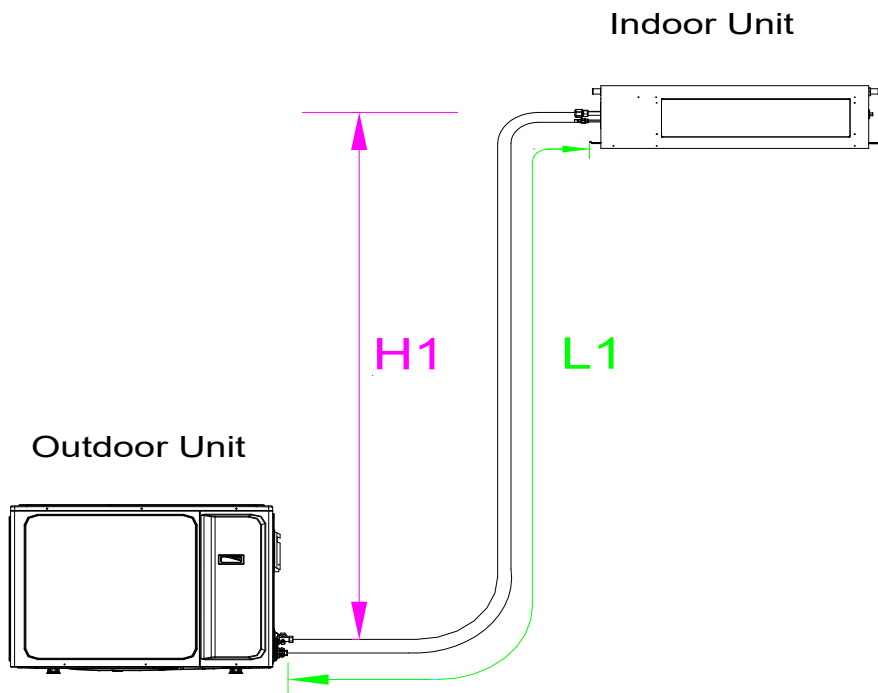
Temperature sensor protection

Compressor overloading protection

Phase sequence protection

Communication failure protection

Anti-freezing protection

Anti-cold air protection

Drive module protection

High power consumption protection

Over current protection

Over temperature protection

High or low voltage protection

PCB anti-condensation protection
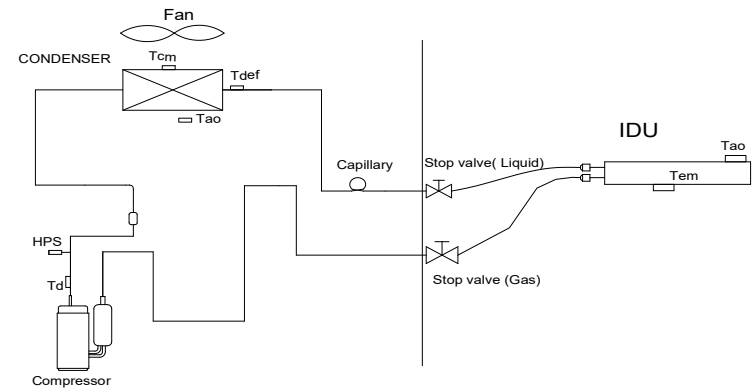
Controller Options

Series	Standard	Optional 1	Optional 2	Optional 3
Duct				
	XK-05	YK-K	YK-H	XK-06

IDU Series	Photos	Wired controller signal	CC-02	MODBUS	WIFI	Room card control (dry contact)
Duct		RS485	✓	✓	✓	✓

Wired & Wireless Controller

New XK-06 wired controller.

120mm
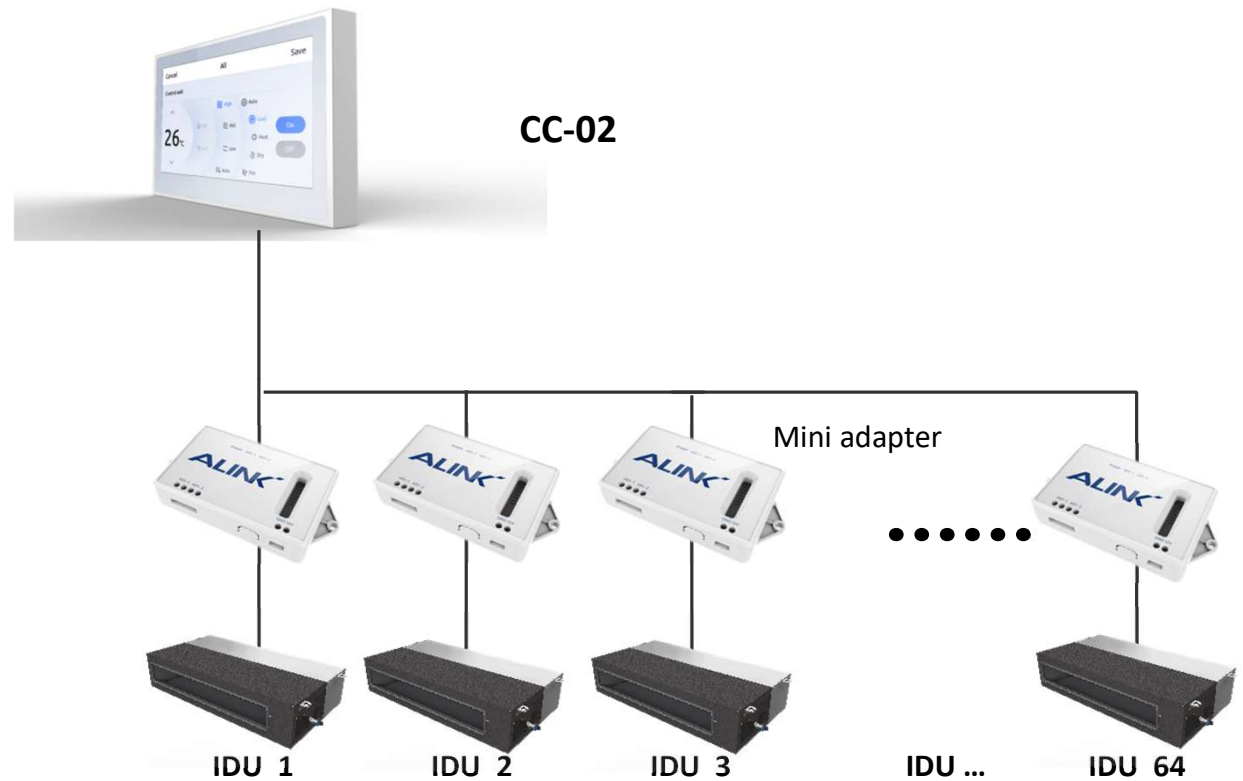
120mm

XK-06 11222020000068

➢ **Weekly timer**
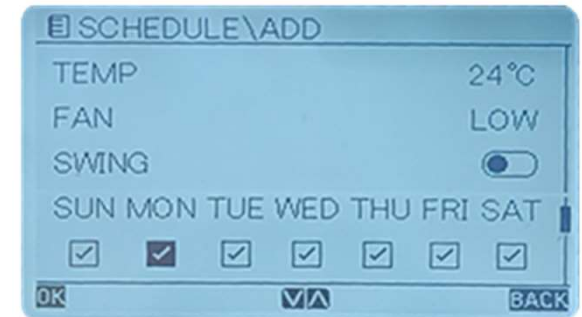
➢ **Room temperature (Optional)**

Central controller

- Control up to 64 IDUs.

- Zone control function.

- Weekly timer.

- Touchscreen & easy operation.

- Running status monitoring.
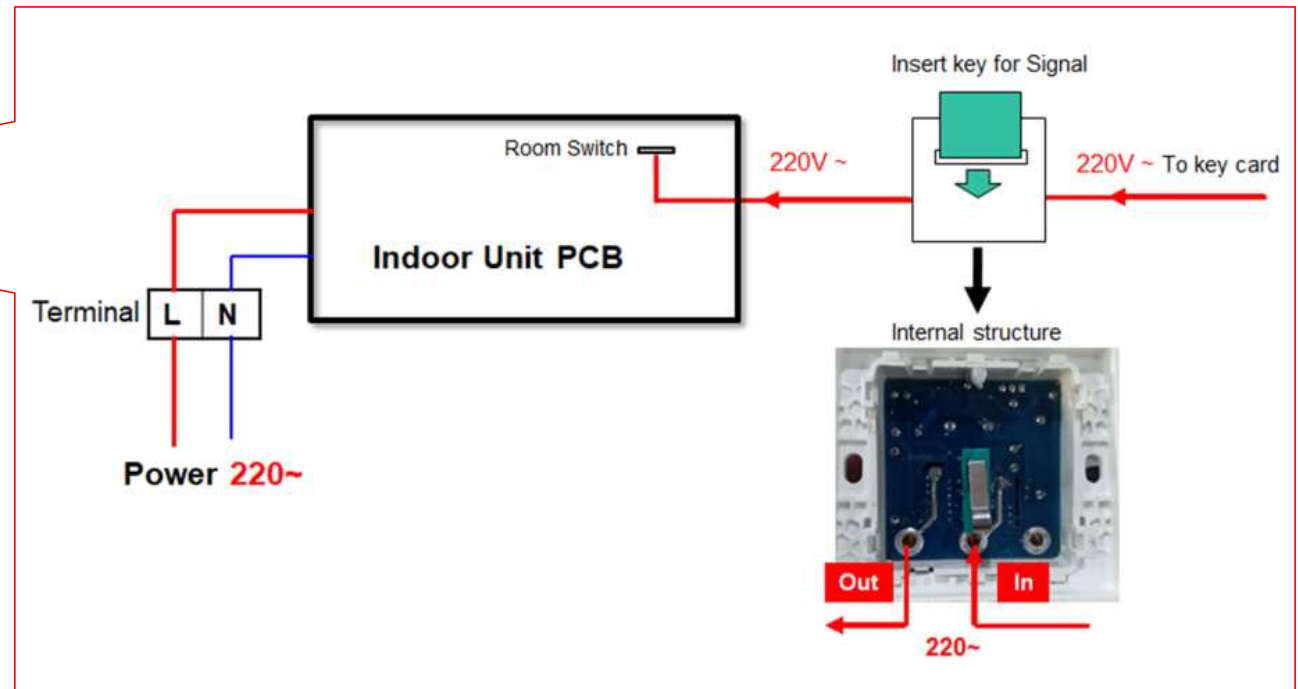
- Error code display.

- Fire alarm.

CC-02

Mini adapter

IDU 1   IDU 2   IDU 3   IDU ...   IDU 64

MODBUS

Address	Content	Access type (Write/Read)
0	1# indoor unit existence or not	R
1	1# indoor unit ON/OFF state	W/R
2	1# indoor unit UP/DOWN swing	W/R
3	1# indoor unit Left/Right swing	R
4	1# indoor unit sleeping mode	W/R
5	1# indoor unit electric heater mode	W/R
6	1# indoor unit cleaning reminder	W/R
7	1# indoor unit ON/OFF lock	W/R
8	1# indoor unit running mode lock	W/R
9	1# indoor unit setting temperature lock	W/R
10	1# indoor unit fan speed lock	W/R

BMS system

Modbus gateway

ALINK   ALINK   ALINK   • • • • • •   ALINK

IDU 1   **IDU 2**   **IDU 3**   **IDU …**   **IDU …**
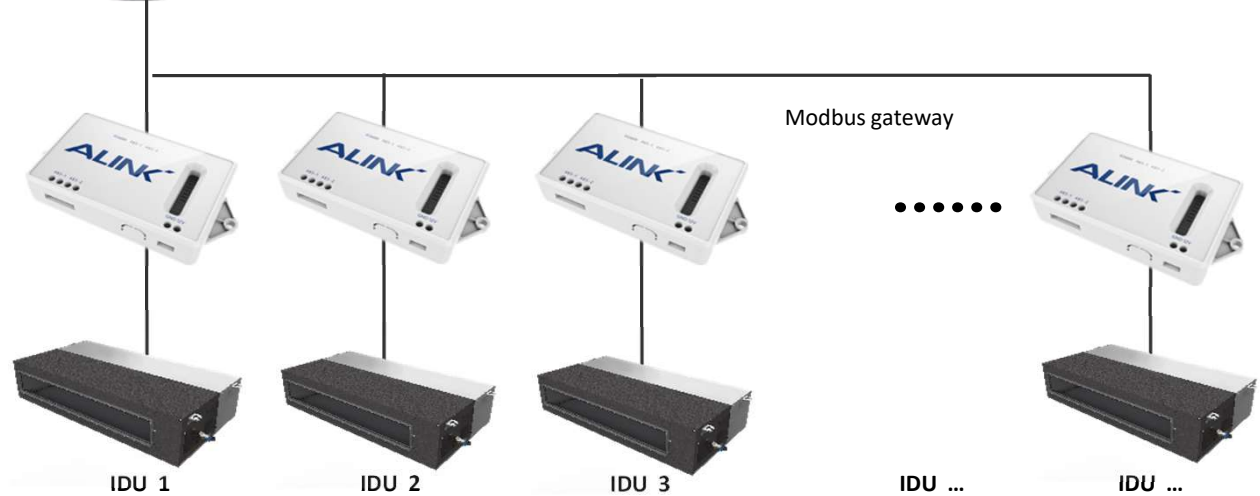
Room Card Control

- Insert card , Indoor unit can be controlled
- Remove card ,indoor unit keep off status, can not be controlled

Insert key for Signal

Room Switch

220V ~

220V ~ To key card

Indoor Unit PCB

Terminal | L | N

Power 220~

Internal structure

Out

In

220~