

AHU-KIT



Main Parts

Control Box

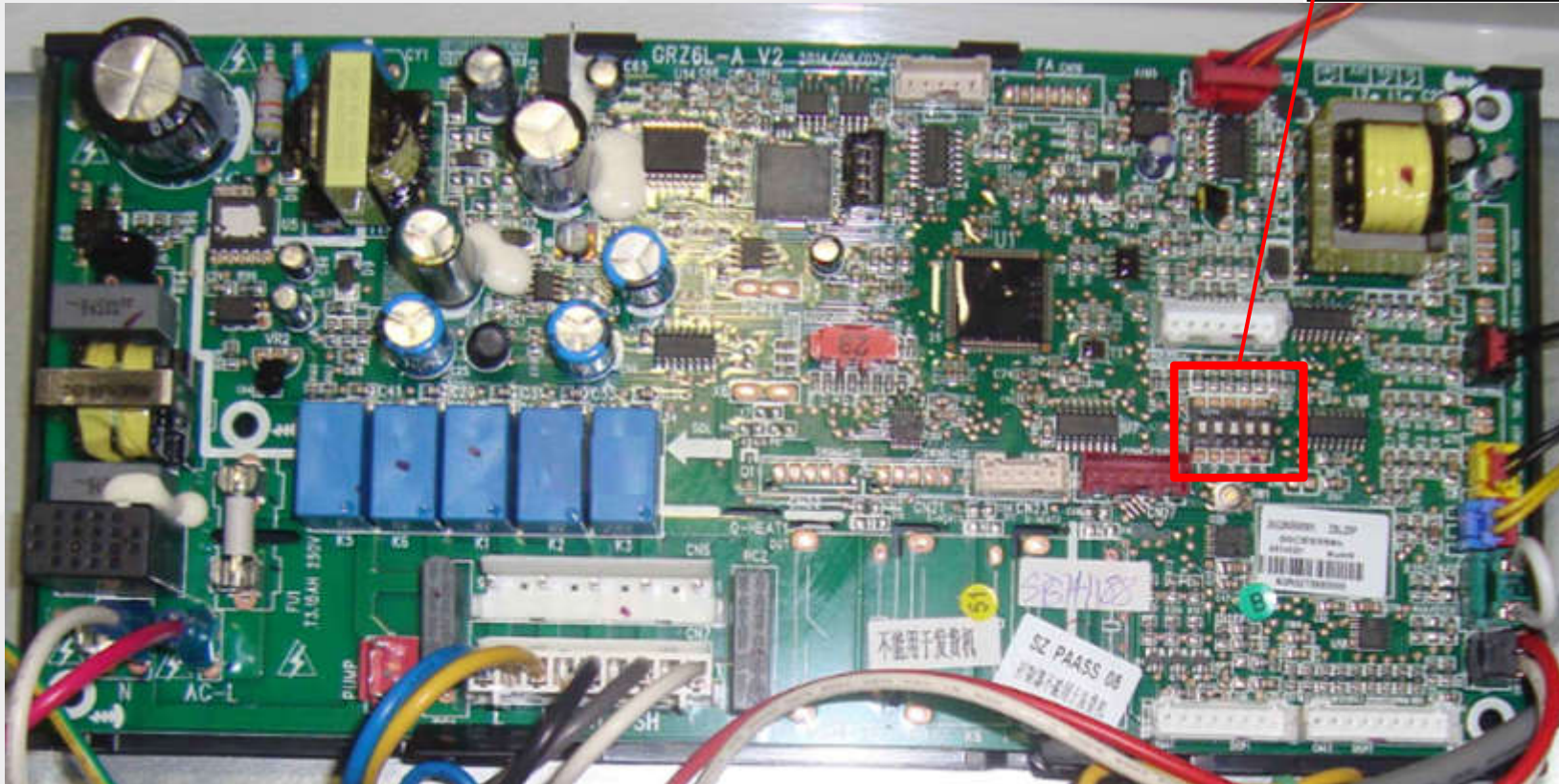
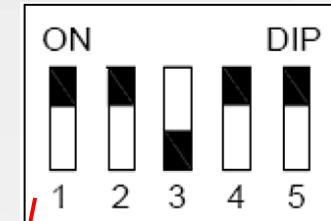


EXV Box



DIP Switch

Capacity DIP switch “S1” setting:



“ON” position stands for “0”, the opposite position stands for “1”.

DIP Switch

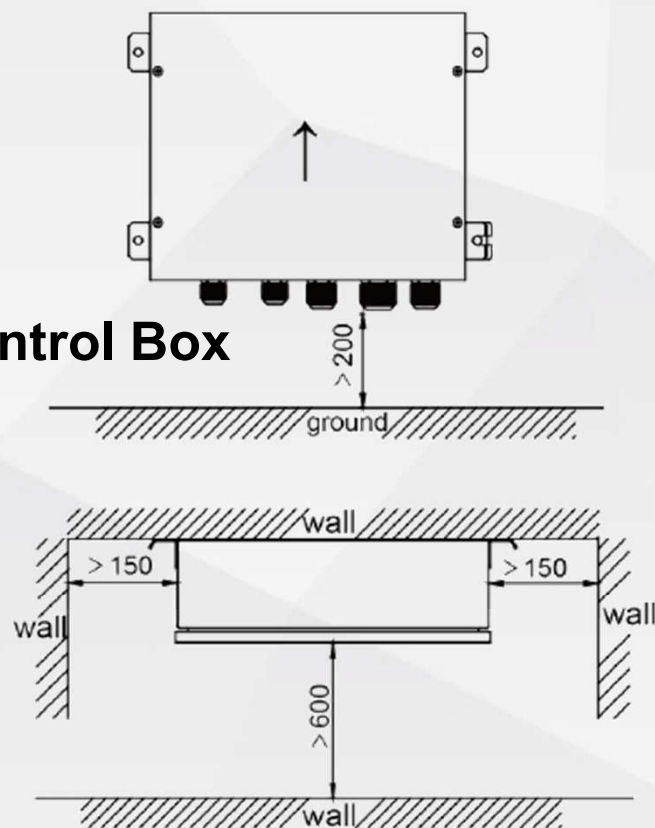
Capacity DIP switch “S1” setting:

S1					Capacity (kW)
1	2	3	4	5	
0	1	0	0	0	2.8
0	0	1	0	0	3.6
0	1	1	0	0	4.5
0	0	0	1	0	5.6
0	1	0	1	0	7.1
0	0	1	1	0	9.0
0	1	1	1	0	11.2
0	0	0	0	1	14.0
1	1	0	0	1	22.4
1	0	1	0	1	28.0
0	1	1	0	1	33.5
0	0	0	1	1	40.0
1	0	0	1	1	45.0
0	1	0	1	1	50.4
1	1	0	1	1	56.0
0	0	1	1	1	84.0

Installation Location

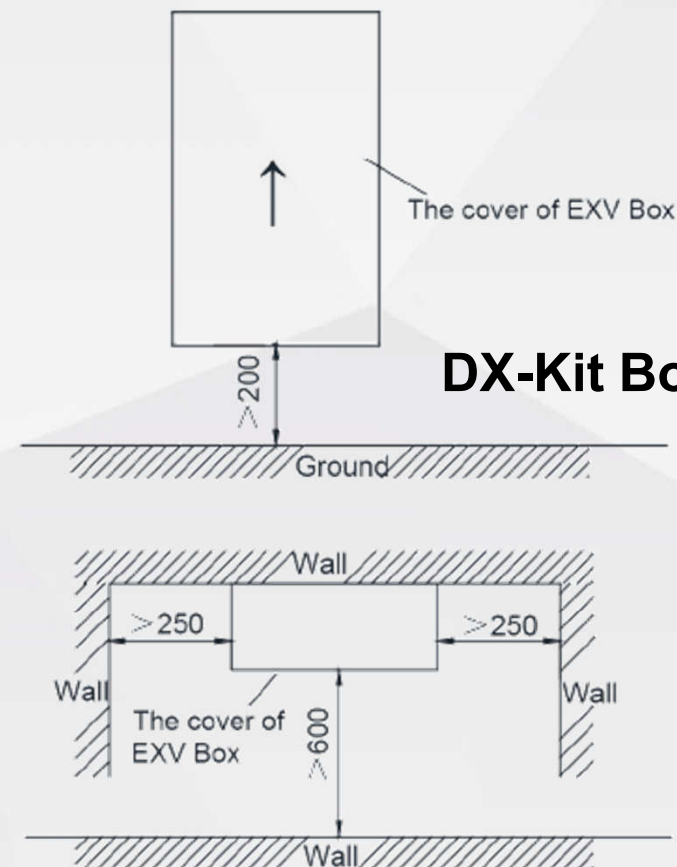
- (1) The DX-Kit box can be installed inside and outside. The control box should be installed inside.
- (2) Do not install the DX-Kit box in or on the outdoor unit.
- (3) Choose a flat and strong mounting surface.
- (4) Make sure there is enough space for future maintenance.
- (5) Make sure the DX-Kit is installed in an upright position.

Control Box



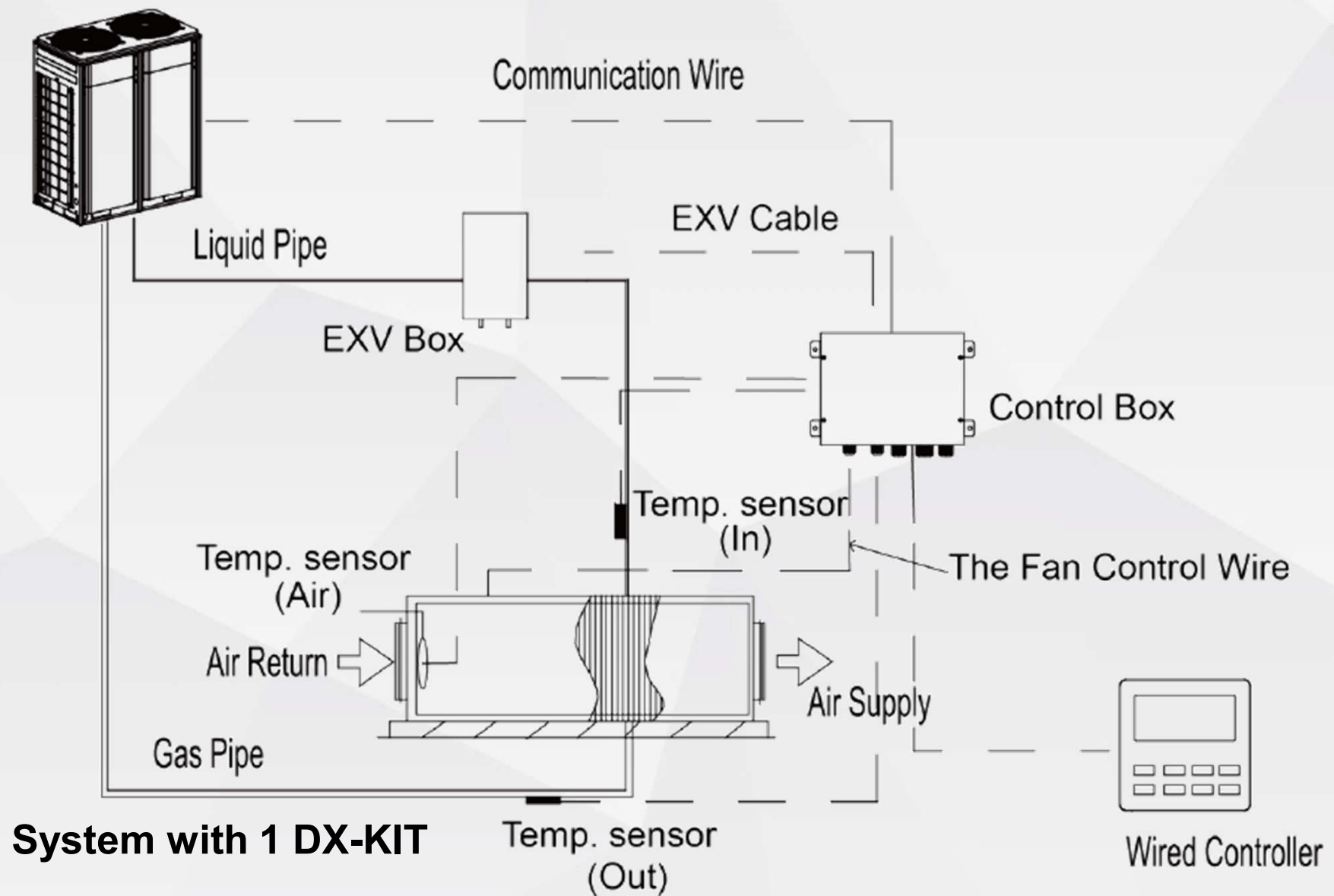
The control box must be installed upwards as the direction of the arrow shown in the figure

DX-Kit Box

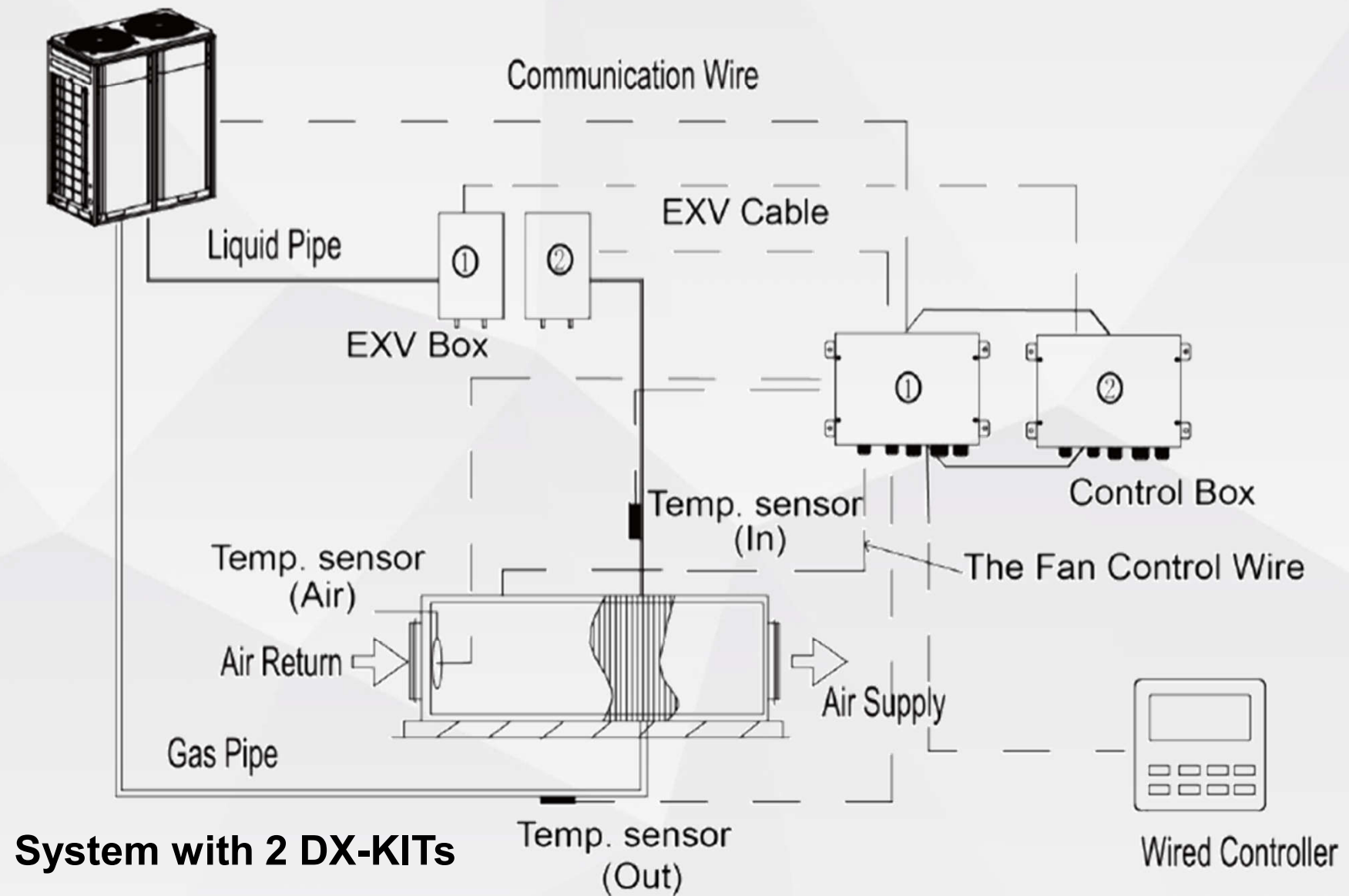


The EXV box must be installed upwards as the direction of the arrow shown in the figure

System Connection

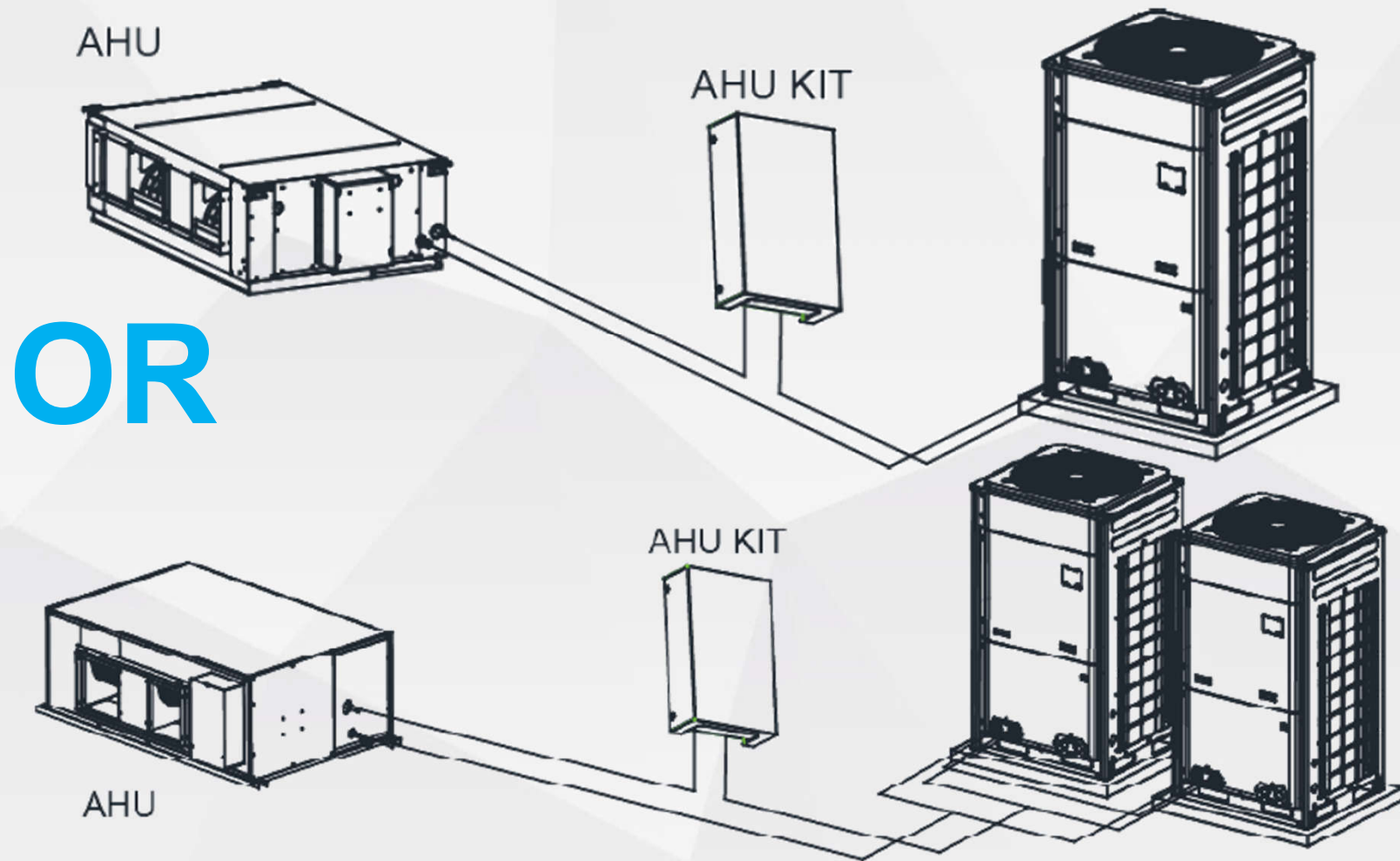


System Connection

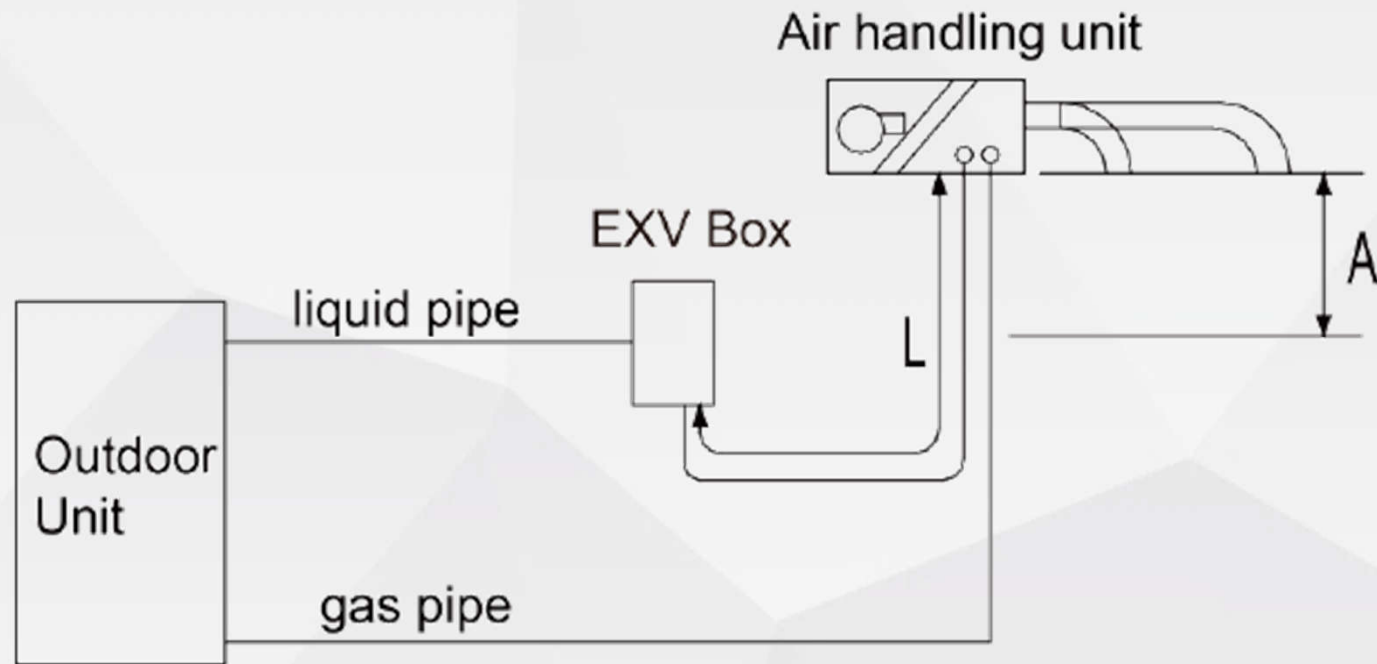


Pipe Connection

One to One Connection



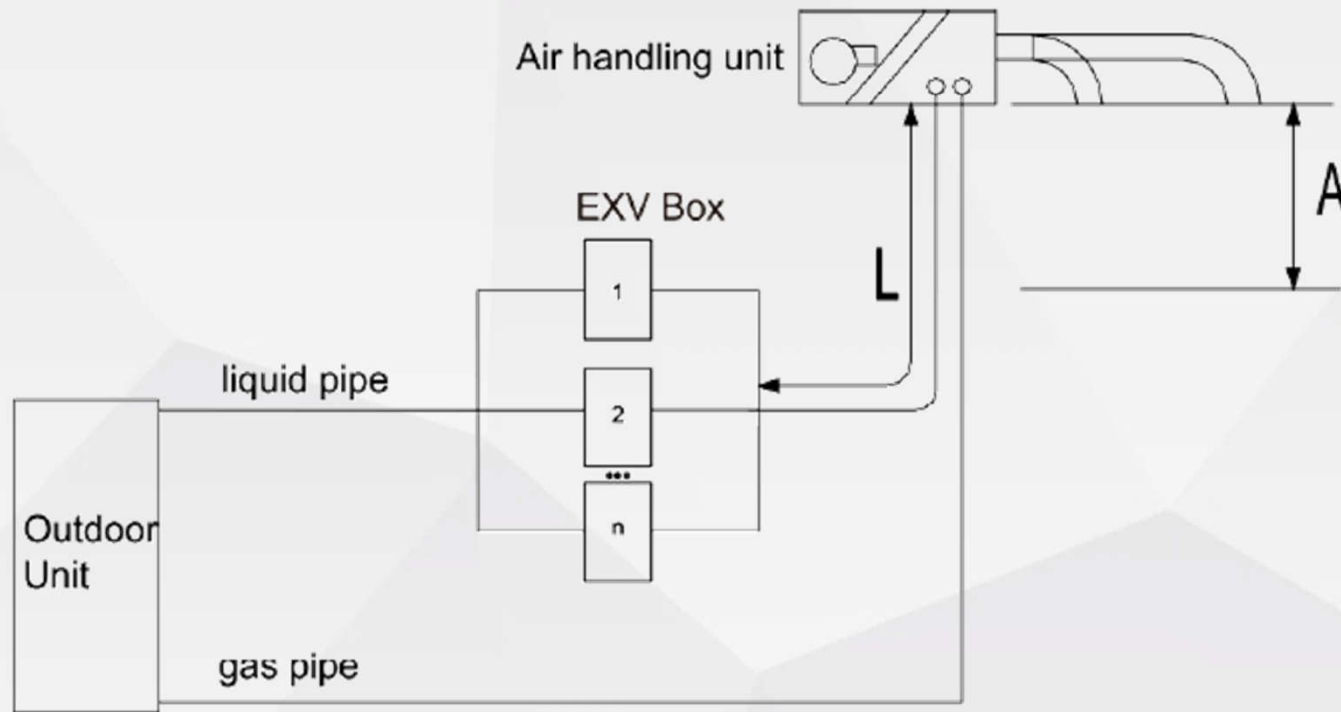
Pipe Connection



Notes:

1. Height difference "A" should be within 2m.
2. Liquid pipe distance "L" should be within 2m.

Pipe Connection

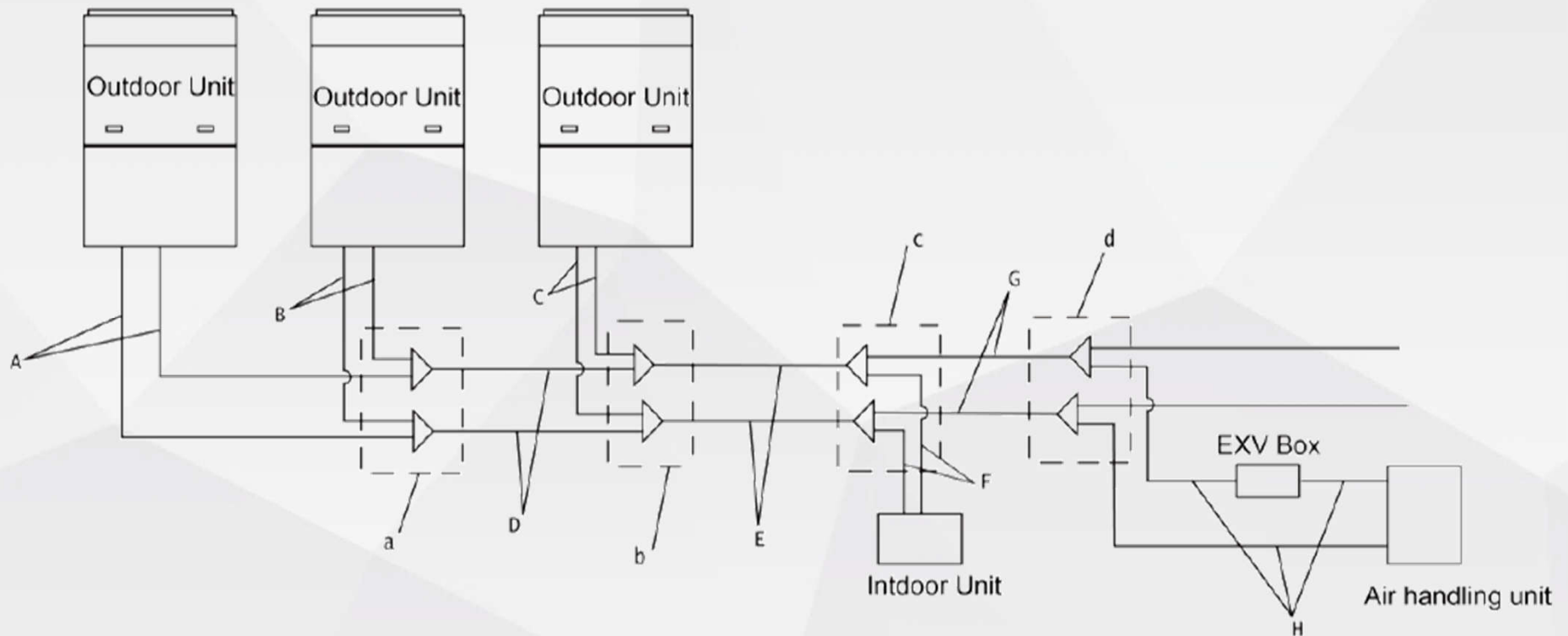


Notes:

1. Height difference "A" should be within 2m.
2. Liquid pipe distance "L" should be within 2m.
3. $n \leq 2$

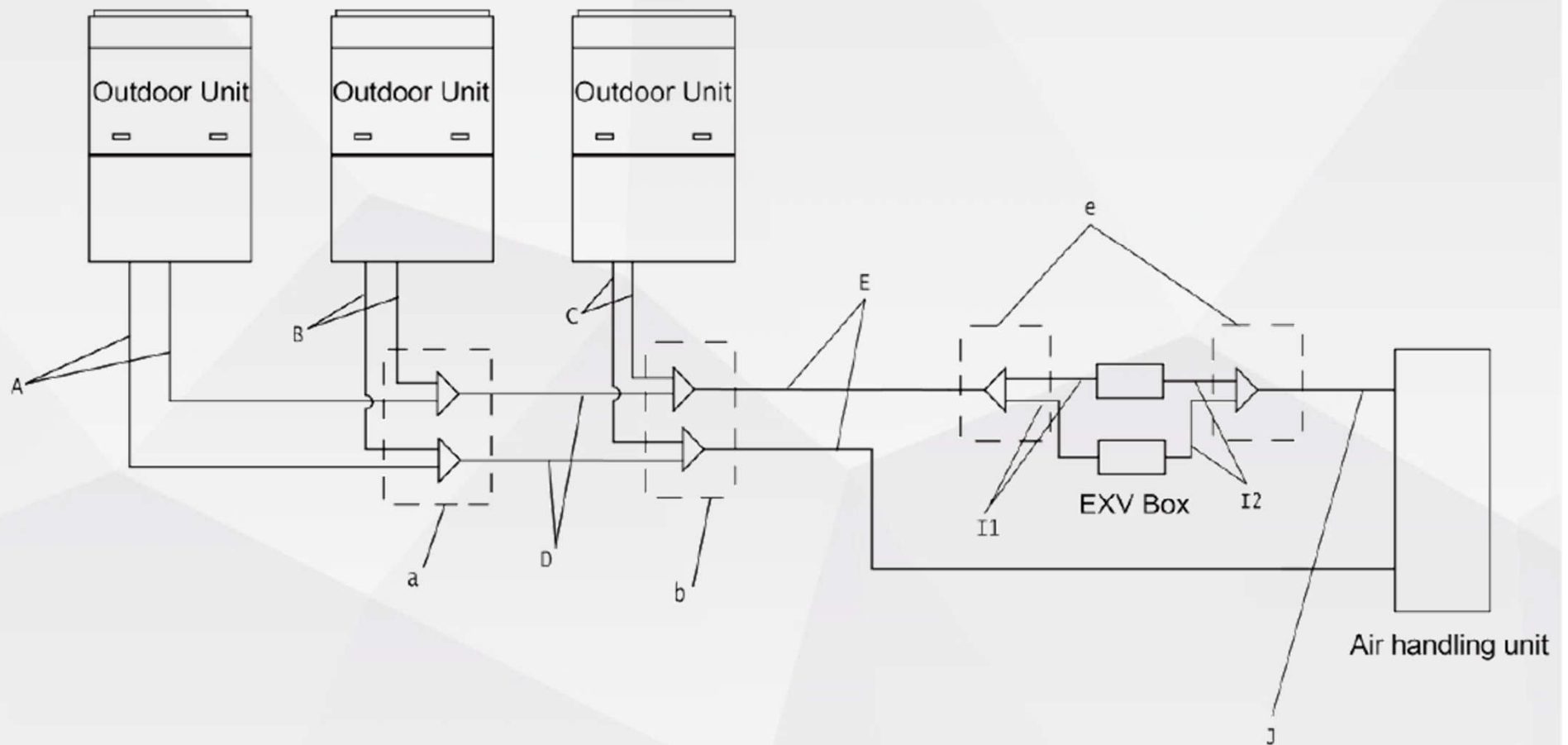
Piping Design

One AHU-KIT connects to one AHU, the piping diagram is as follows:



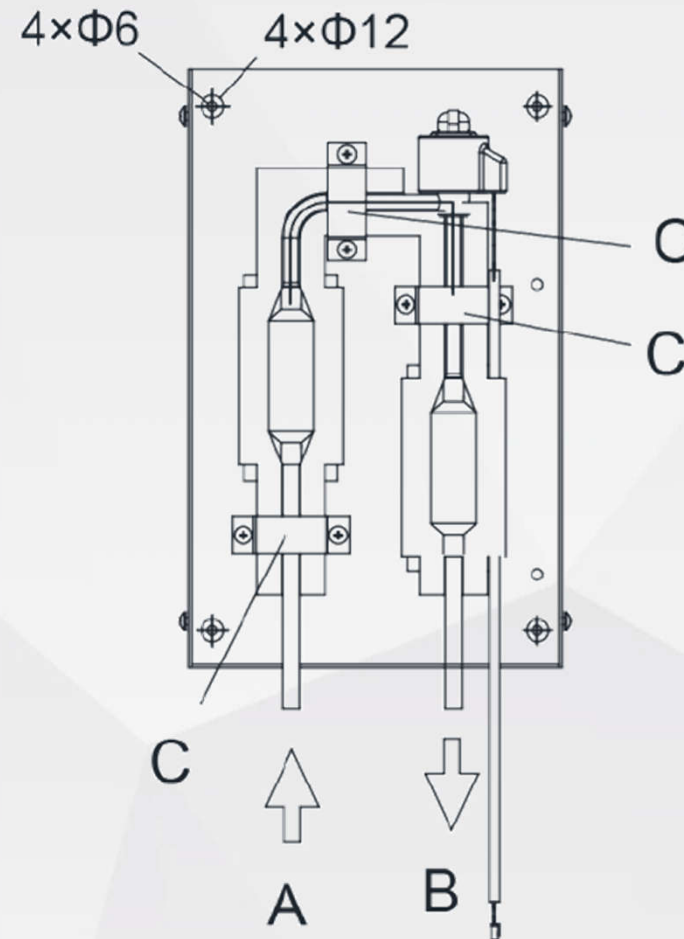
Piping Design

2 AHU-KITs connect to one AHU, the piping diagram is as follows:



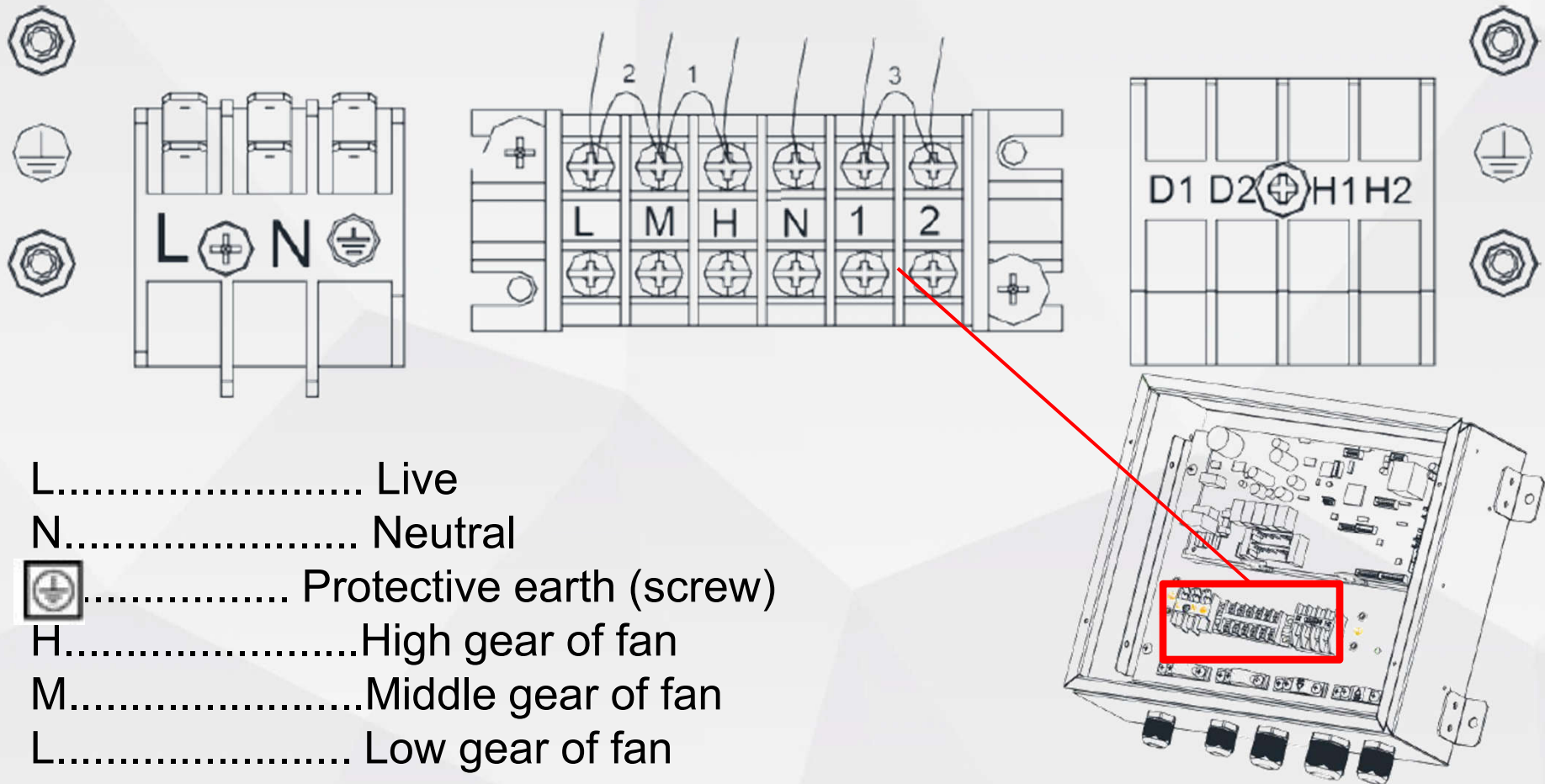
DX-Kit Box Installation

- A. Inlet pipe from ODU
- B. Outlet pipe to DX-Kit
- C. Wire clamps



Notes: Make sure to cool the filters and valve with a wet cloth and make sure temperature does not exceed 120° C during brazing.

Control Box Installation



L..... Live

N..... Neutral

..... Protective earth (screw)

H..... High gear of fan

M..... Middle gear of fan

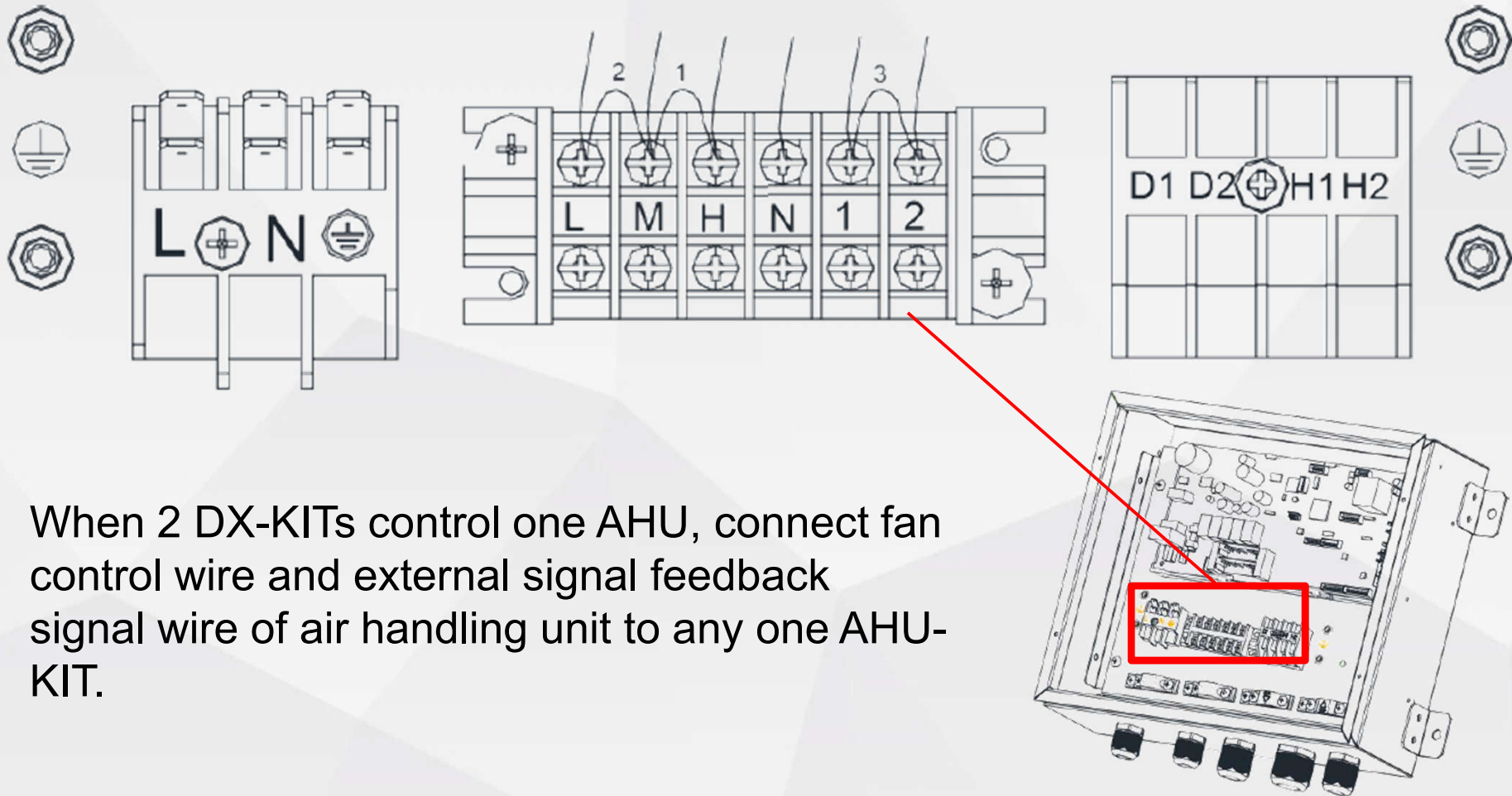
L..... Low gear of fan

1/2..... Lines of fault signal from external feedback

D1/D2..... Communication wires

H1/H2..... Wired controller

Control Box Installation

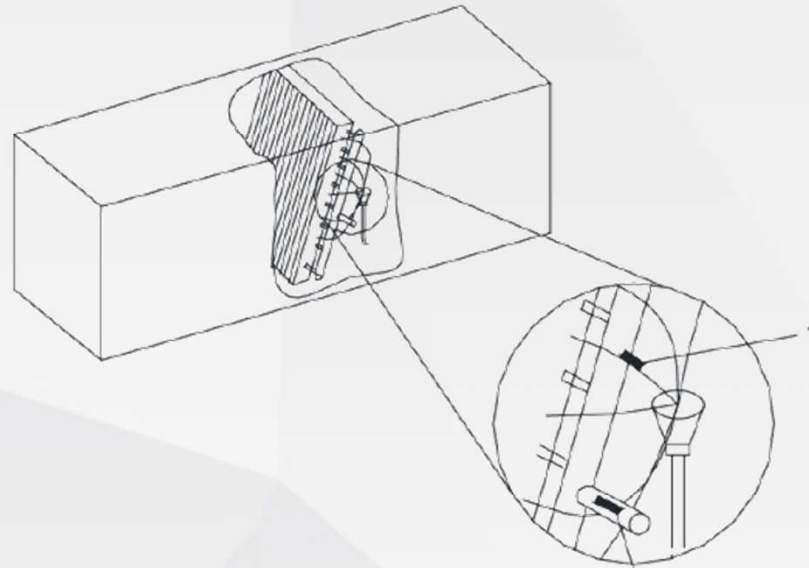


Control Box Installation

Notes:

- (1) The H, M, L of fan gear lines and the 1, 2 of Lines of fault signal from external feedback are shorted by the factory default.
- (2) Neutral line of fan connects to the N.
- (3) The lines of fault signal from external feedback are connected to the 1, 2. The line is a dry contact and closed normally. If the line is closed, it represents no fault and the system operates normally; if the line is disconnected, it represents malfunction and the system will stop.
- (4) Disconnect the short cable between 1 and 2 when there is fault signal, and connect the signal cable to 1 and 2.
- (5) Pull the wires inside through the screw nut and close the nut firmly in order to ensure a good pull relieve and water protection.
- (6) The cables require an additional pull relief. Fixing the cable with the wire clamp.
- (7) Temperature sensor cable and remote controller wire should be kept away from power cable in a distance of at least 50mm.

Temperature Sensor Installation



Location:

(1) Liquid(RT2)

Install the temperature sensor behind the distributor on the coldest pipe of the heat exchanger.

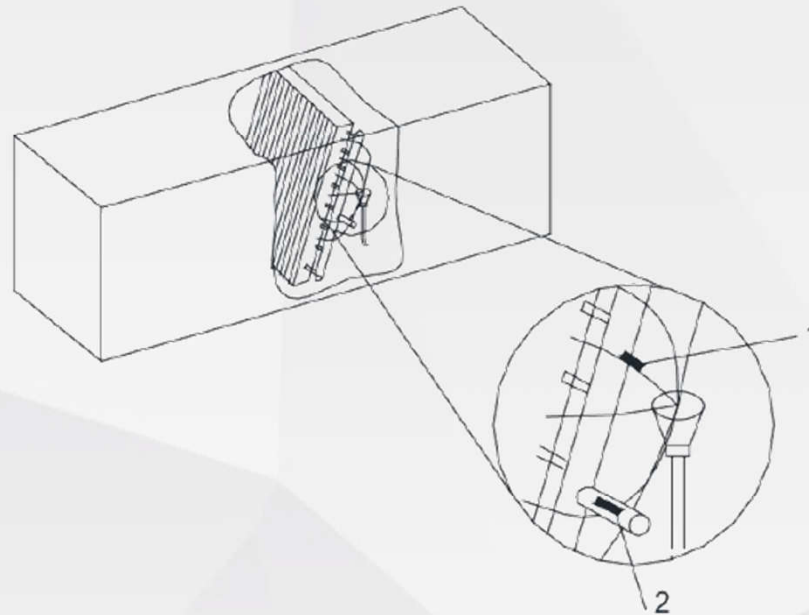
(2) Gas (RT4)

Install the temperature sensor 200mm after the outlet of the heat exchanger.

(3) Air temperature sensor

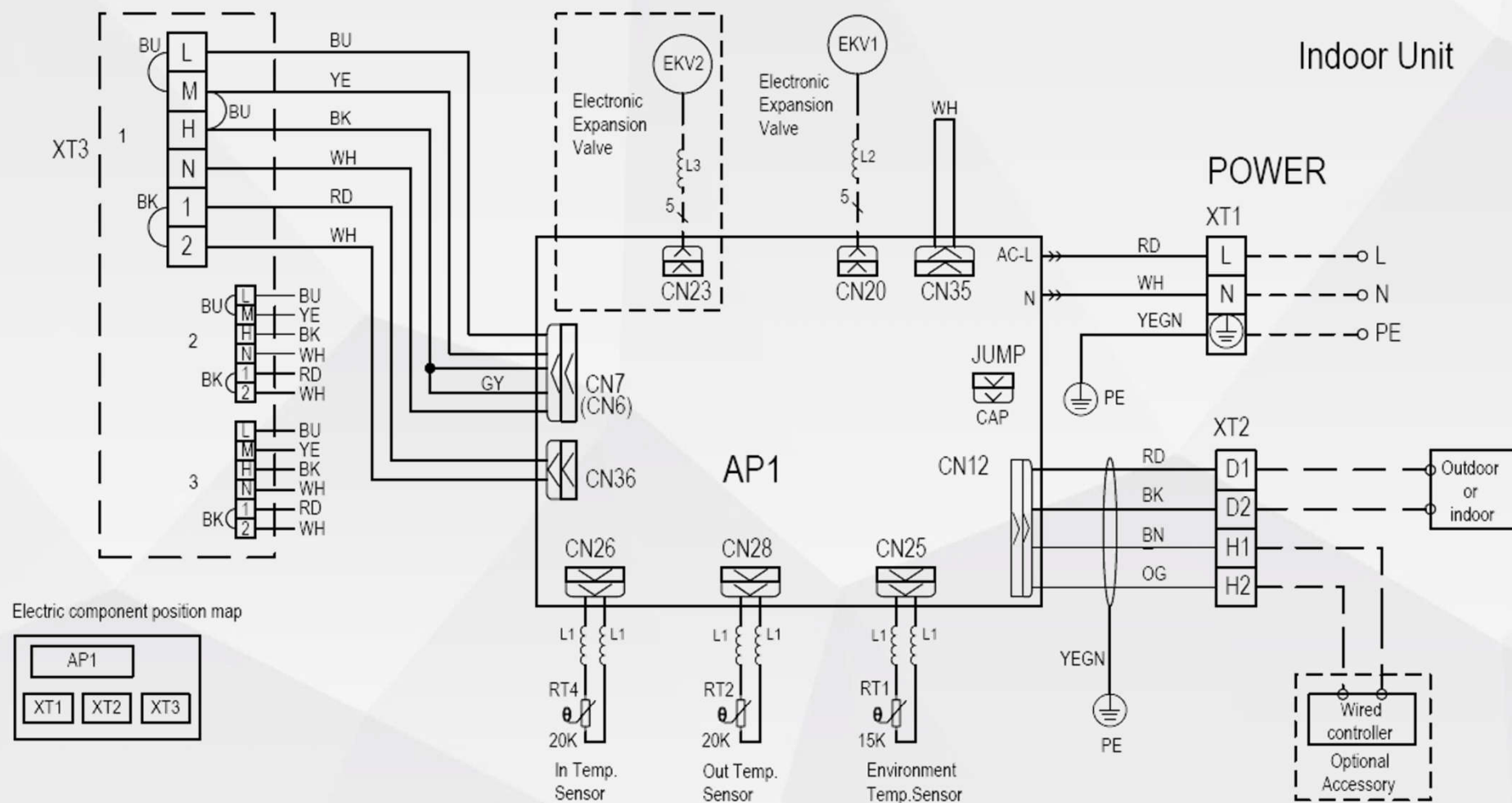
The air temperature sensor (RT1) can be installed in the space which needs temperature control, or the inlet scoop of air handling unit.

Temperature Sensor Installation



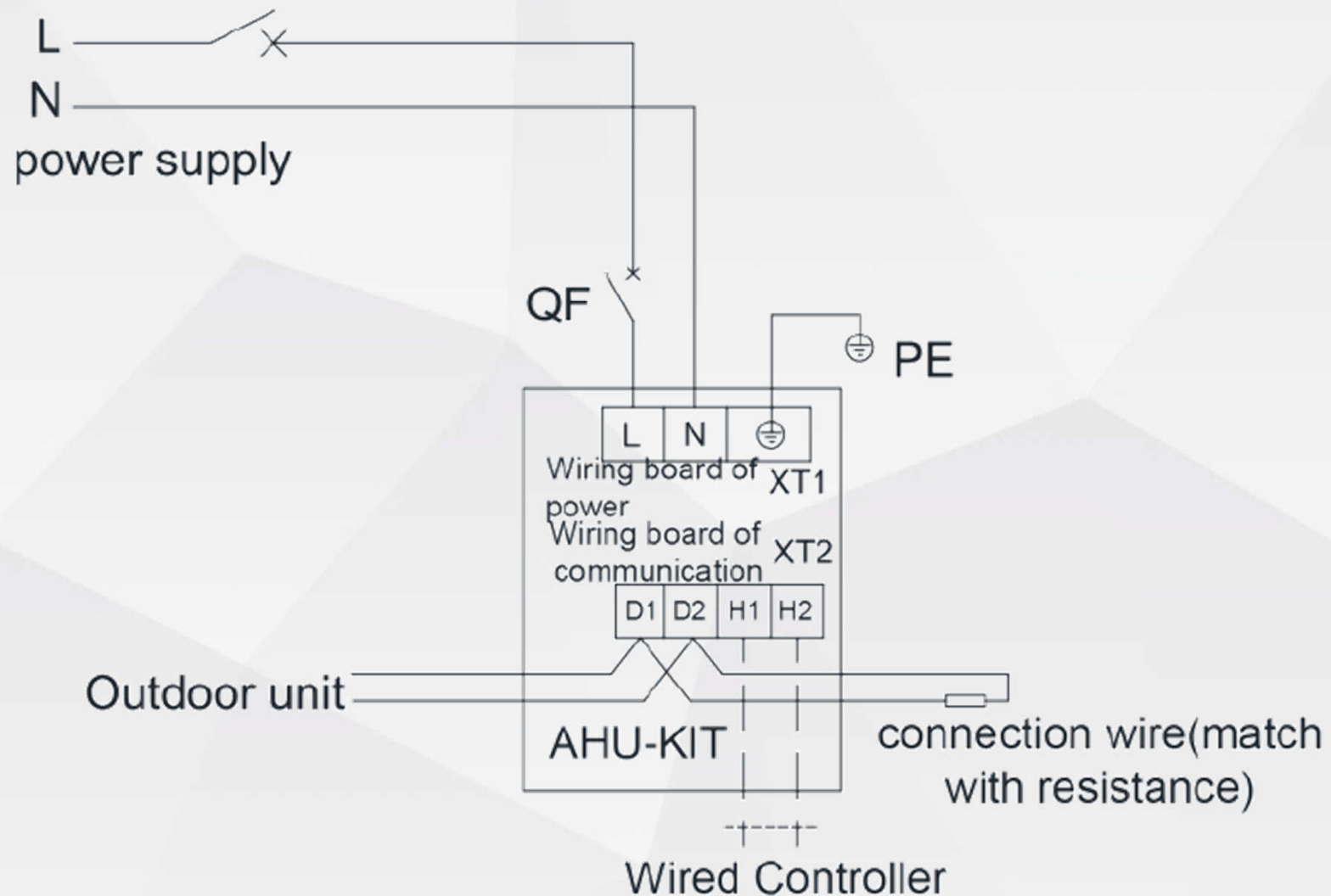
When 2 DX-KITs are in parallel connection with one AHU, all linkage DX-KIT inlet pipes' and outlet pipes' temperature sensor must be installed at the position of corresponding pipeline of air handling unit. Install the ambient temperature sensor at the same position of air return outlet. Please refer to above installation method of single DX-KIT temperature sensor.

Wiring Diagram

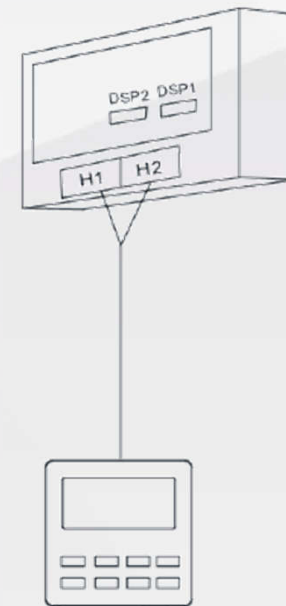
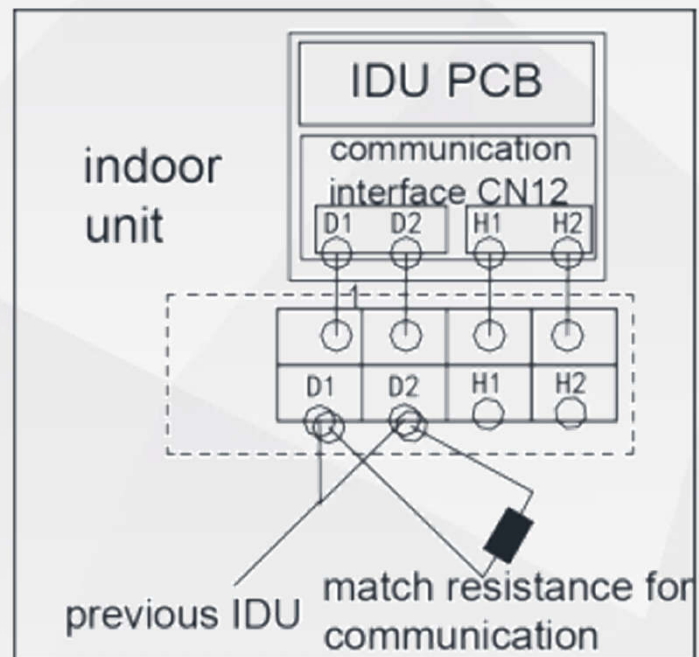
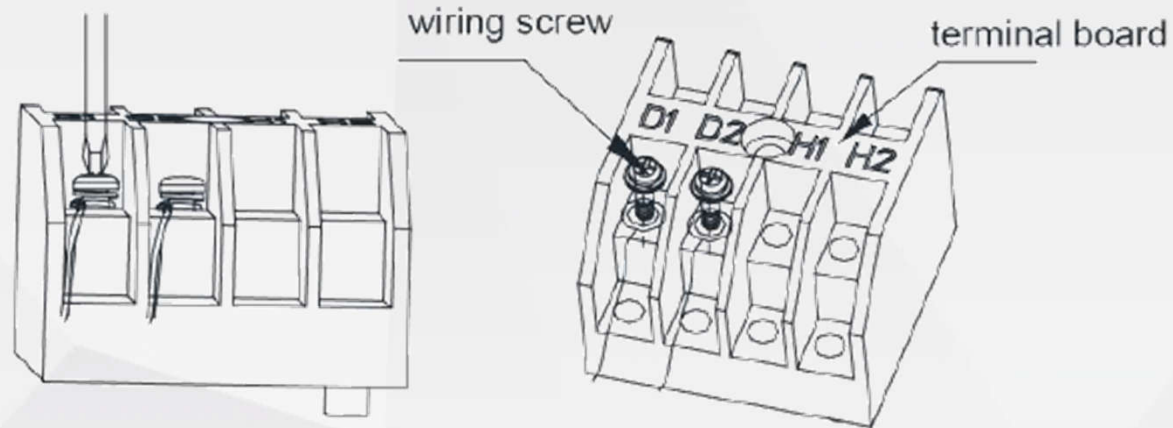


Referring to the circuit diagram, connect the EXV and Wired Controller to the circuit-board of control box.

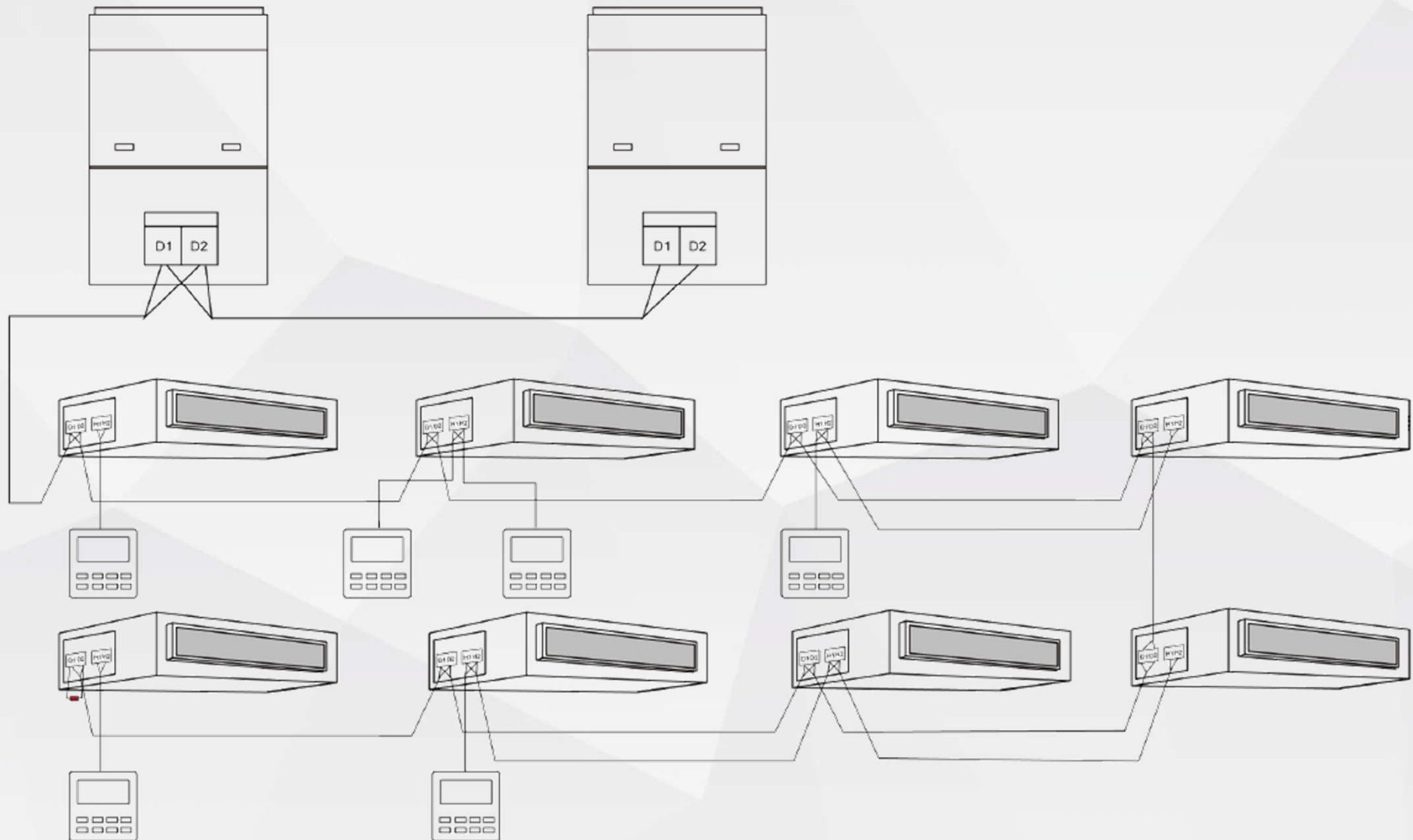
Cable Connection



Cable Connection



Cable Connection



Error Code

Error Code	Content	Error Code	Content	Error Code	Content
L0	Indoor Unit Error	L9	Quantity Of Group Control Indoor Units Setting Error	d8	Water Temperature Sensor Error
L1	Error From External Feedback	LA	Indoor Units Incompatibility Error	d9	Jumper Cap Error
L2	E-heater Protection	LH	Low Air Quality Warning	dA	Indoor Unit Hardware Address Error
L3	Water Full Protection	LC	Outdoor-Indoor Incompatibility Error	dH	Wired Controller PC-Board Error
L4	Wired Controller Power Supply Error	d1	Indoor Unit PC-Board Error	dC	Capacity DIP Switch Setting Error
L5	Anti-Frosting Protection	d3	Ambient Temperature Sensor Error	dL	Outlet Air Temperature Sensor Error
L6	Model Conflict	d4	Inlet Piping Temperature Sensor Error	dE	Indoor Unit CO ₂ Sensor Error
L7	No Master Indoor Unit Error	d6	Outlet Piping Temperature Sensor Error	C0	Communication Error
L8	Power Insufficiency Protection	d7	Humidity Sensor Error	AJ	Filter Cleaning Reminder