DAIKIN

INSTALLATION MANUAL

Electric heater PCB kit

Electric heater PCB kit - Installation manual **English**

EKRP1B2

page

Content of kit EKRP1B2 2
Name of parts 2
Installation in FDY(P)125-200-250 3
Possible connections 4

READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION.

KEEP THIS MANUAL IN A HANDY PLACE FOR FUTURE REFERENCE.

IMPROPER INSTALLATION OR ATTACHMENT OF EQUIPMENT OR ACCESSORIES COULD RESULT IN ELECTRIC SHOCK, SHORT-CIRCUIT, LEAKS, FIRE OR OTHER DAMAGE TO THE EQUIPMENT. BE SURE ONLY TO USE ACCESSORIES MADE BY DAIKIN WHICH ARE SPECIFICALLY DESIGNED FOR USE WITH THE EQUIPMENT AND HAVE THEM INSTALLED BY A PROFESSIONAL.

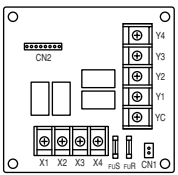
IF UNSURE OF INSTALLATION PROCEDURES OR USE, ALWAYS CONTACT YOUR DAIKIN DEALER FOR ADVICE AND INFORMATION.

ALL FIELD WIRING AND COMPONENTS MUST BE INSTALLED BY A LICENSED ELECTRICIAN AND MUST COMPLY WITH RELEVANT LOCAL AND NATIONAL REGULATIONS.

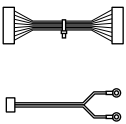
THE FIELD WIRING MUST BE CARRIED OUT IN ACCORDANCE WITH THE WIRING DIAGRAMS AND THE INSTRUCTIONS GIVEN BELOW.

TAKE CARE NOT TO BEND THE PRINTED CIRCUIT BOARD WHEN INSERTING OR REMOVING THE CONNECTORS.

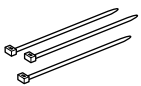
CONTENT OF KIT EKRP1B2



PCB

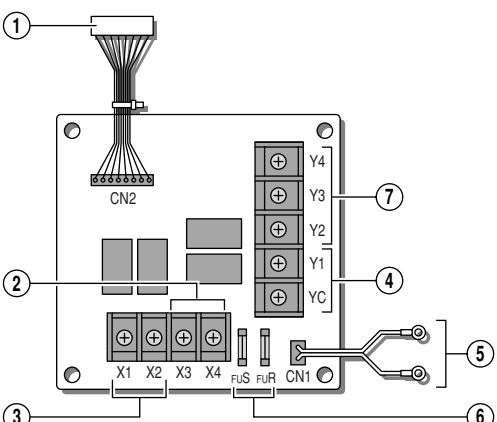






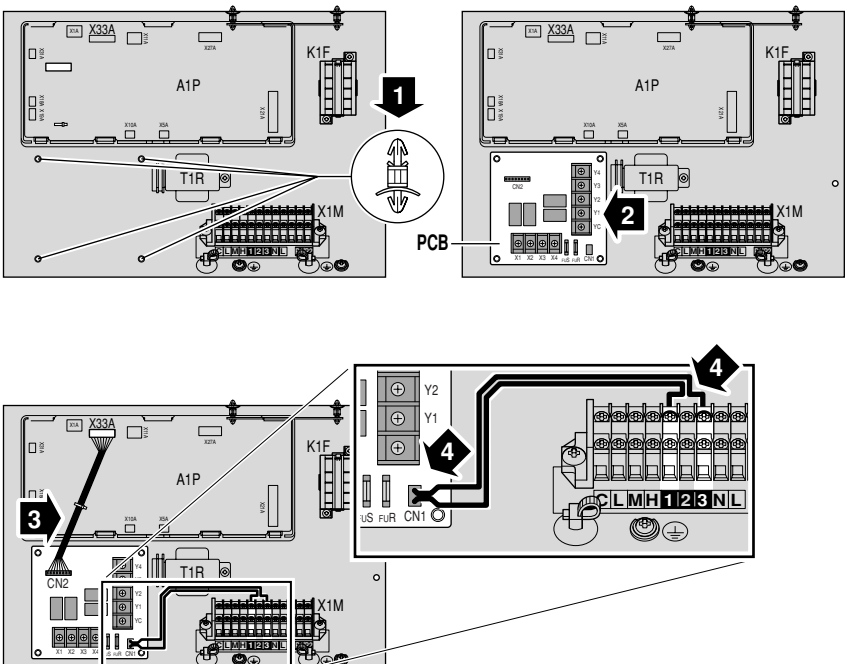


NAME OF PARTS



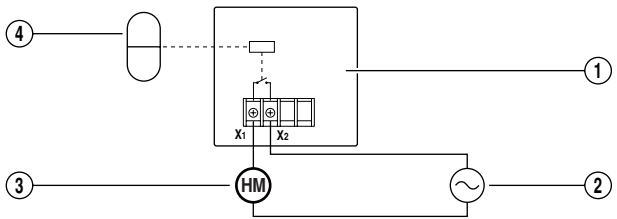
1 Connector to indoor PCB
2 Pilot lamp connection
3 Hour meter connection
4 Electric heater connection
5 Electric heater control relay power supply
6 Fuses 5A - 250V
7 Humidifier connection

INSTALLATION IN FDY(P)125-200-250



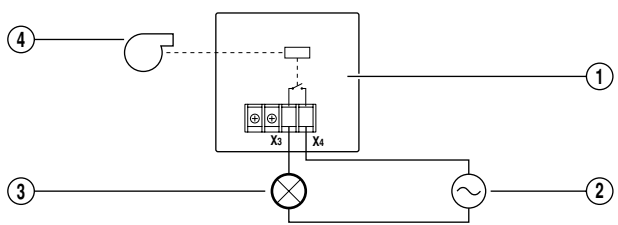
POSSIBLE CONNECTIONS

■ Connection of hour meter



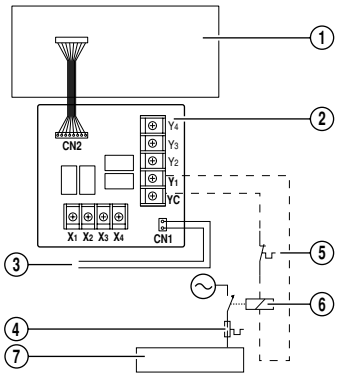
1 PCB
2 Power supply for hour meter (3A - 250V AC/0.3A - 110V DC)
3 Hour meter
4 Compressor

■ Connection of operation lamp



1 PCB
2 Power supply for operation lamp (3A - 250V AC/ 0.3A - 110V DC)
3 Operation lamp
4 Fan

■ Electrical connection of electric heater



1 Main PCB

2 Optional PCB

3 Main terminal (1-3) (230V - 50 Hz)

Field supply:

4 Thermal fuse (Max. 110°C): to protect the installation from accident (e.g. fire) when a malfunction occurs.
(1 fuse in case of single phase power supply and minimum 2 fuses for three phase power supply.)

5 Thermal protector: to protect the electric heater for overheating.

6 Relay (Max. 550VA)

7 Heater

Important installation caution

The heater should be installed according to local regulations and must comply with EN60335-2-40.

A thermal fuse should be installed on the heater so that there is no danger of damage to the heater and no safety risk when the fan is stopped or when the PCB is malfunctioning.

The electric heater must be installed on a safe location in the discharge duct, so that there is no danger for damage to the unit.

Maximum temperature in the discharge duct may not exceed 90°C. Select the proper safety device or thermal protector accordingly.

Temperature on the unit casing may not exceed 70°C.

Maximum heater capacity to be installed:

- FDY(P)125 9 KW
- FDY(P)200 13 KW
- FDY(P)250 16 KW

■ Electrical connection of humidifier (control by 1 humidifier adjustment switch)

1 Main PCB

2 Optional PCB

3 Main terminal (1-3) (230V - 50 Hz)

Field supply:

4 Humidifier HU (YC-Y2) min. 20 mA - 125V AC, max. 1A - 250V AC

5 Relay RY (YC-Y4) max. 400 mA - 250V AC (only required in case **B**)

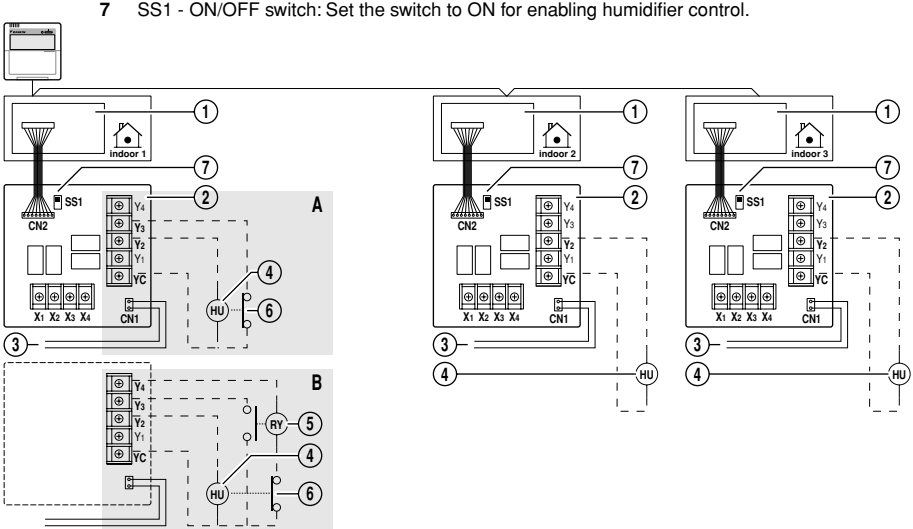
case **A**: (YC-Y3) min. 200V AC, max. 2 mA

case **B**: Humidifier adjustment switch current >2 mA

Current of RY must be lower than current of the humidifier adjustment switch.

6 Humidifier adjustment switch

7 SS1 - ON/OFF switch: Set the switch to ON for enabling humidifier control.



■ Remote control settings

Mode N°	Setting	FIRST CODE N°	SECOND CODE N°
15(25)	Operate the humidifier during heating mode if suction air temperature is more than 20°C (also in thermostat off condition).	1	02
	Operate humidifier and drainpump.	3	01

Notes

DAIKIN EUROPE NV
Zandvoordestraat 300, B-8400 Oostende, Belgium

4PWEN07819-1A