

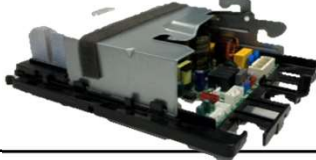
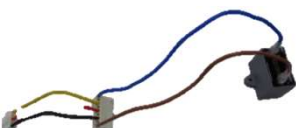
# Operation Instructions of Universal Outdoor PCB for Inverter

## 1. Features

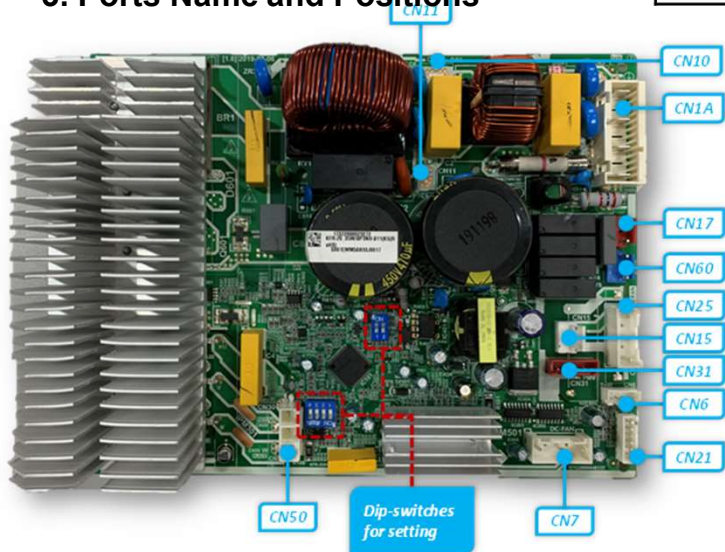
This PCB is universal for inverter outdoor units with:

1. Capacity: 9K and 12K Btu/h
2. Power supply: 220V-240V, 1Ph, 50 or 60 Hz
3. Fan type: DC motor or AC motor
4. With or without electronic expansion valve
5. Suitable for 11 different model compressors.

## 2. Packing List

Item	Appearance	Specifications
Universal PCB		Power Input: 220-240V, 1Ph, 50/60Hz
Accessory		AC-FAN connector AC-FAN capacitor

## 3. Ports Name and Positions



Port	Description	Parameter
CN1A	Port for L, N, S and E	220~240V/AC
CN60	Power output for 4-way valve	220~240V/AC
CN17	Power output for compressor heater	220~240V/AC
CN15	Power output for chassis heater	220~240V/AC
CN31	Power output for EEV	12V/DC
CN25	Power output for AC FAN	220~240V/AC
CN7	Power output for DC FAN	0~240V/AC
CN21	Port for temperature sensors	5V/DC
CN6	Port for test board	5V/DC
CN50	Power output for Compressor	0~240V/AC
SW1	Switch1	5V/DC
SW2	Switch2	5V/DC
CN10 CN11	Power output for DR module	220~240V/AC

**Note:** The ports for AC fan and DC fan are same type connector, please watch the No. of the ports for correct connection. There is an accessory inside the packing box for connecting different AC fan design.

## 4. Set the dip-switches according to the following tables in STEP 3 on next page.

Table1. Compressor Setting








Compressor	Switch				Status	Figure
	SW1-1	SW1-2	SW1-3	SW1-4		
ASN98D22UEZ					0000	
ASN98D22UFZ	OFF(0)	OFF(0)	OFF(0)	OFF(0)	0000	
KSN98D22UFZ						
ASM98D32UFZ	ON(1)	OFF(0)	OFF(0)	OFF(0)	1000	
ASM108D10UEZ						
ASK89D29UEZD	OFF(0)	ON(1)	OFF(0)	OFF(0)	0100	
KSK89D29UEZD						
ASK89D53UEZ						
ASK103D53UFZ	ON(1)	ON(1)	OFF(0)	OFF(0)	1100	
KSK89D53UEZ						
KSK103D33UEZ	OFF(0)	OFF(0)	ON(1)	OFF(0)	0010	

Table 2. Motor and Area Setting

Area	Switch	Motor type	SW2-1	SW2-2	Status	Figure
			SW2-1	SW2-2	Status	Figure
Australian, North American, European and Asia Pacific		DC	OFF(0)	OFF(0)	00	

- **ASN98D22UFZ**
  - S 5132, S 5125
  - S3425, SCJA2516, SC3431 S, S3425
- **KSN98D22UFZ**
  - S 4225, S 4232, S 5225 B, S 5232
  - S-JA2519
- **ASK89D53UEZ**
  - S-JA 2518
- **ASK103D53UFZ / KSK103D53UFZ**
  - SC -JA2518
- **KSK103D33UEZ3**
  - SC-JA2519, SC5232

### STEP 1 – Not necessary in Scandinavia

Confirm the unit is compatible with the universal PCB

1. Power Supply: 220-240V, AC, 50 or 60Hz, 1 Phase or 1.5 Phase
2. Refrigerant: R410A or R32
3. With "T-shape" top cover.

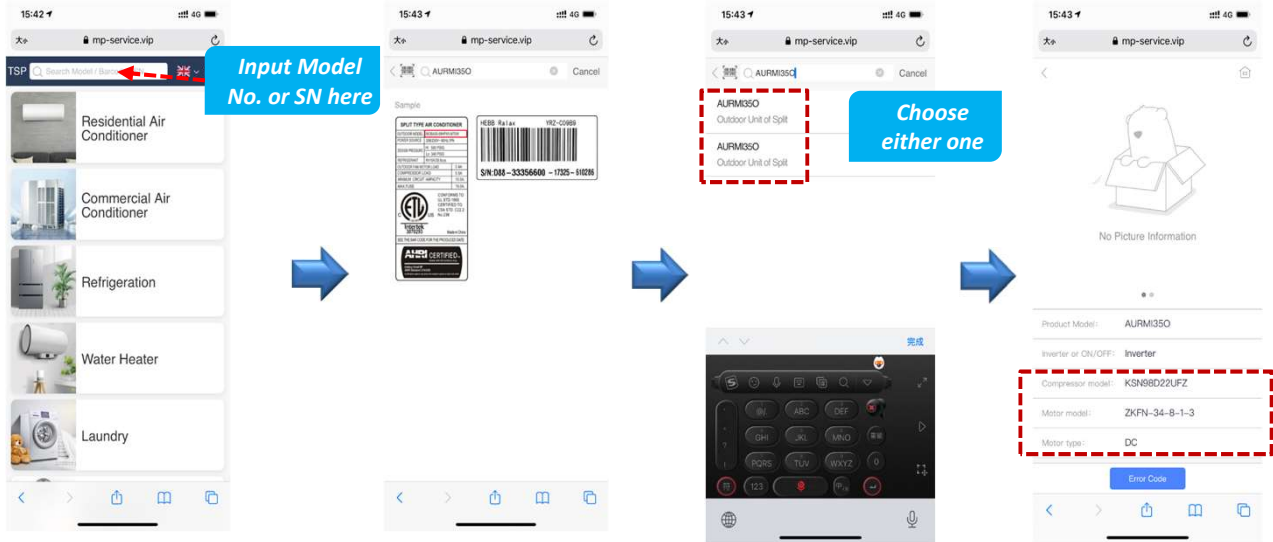
"T"-shape top cover



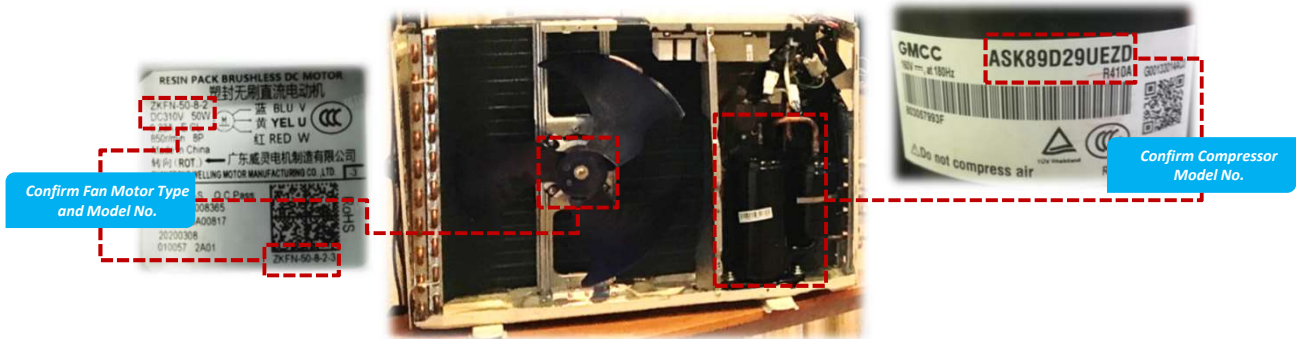
### STEP 2 - Not necessary in Scandinavia

Confirm the Model No. and Type of Compressor and Outdoor Fan Motor (Choose either 1 or 2 as your wish):

1. Use online troubleshooting system (<https://mp-service.vip>) to check the compressor and outdoor fan motor.



2. or dismantle the unit to check them out.



### STEP 3

Set the dip-switches according to the table 1 and table 2.



### STEP 4

Replace the original PCB with the universal one.

#### Accessory (For 5-pin plug AC motor):

If the motor connector is 5-pin plug, use the accessory to fit the AC fan socket CN25 on the universal PCB.

