

# Specification

## Micro Aircon Unit (Heat&Cool) DV1910E-AC/H



**SPECIFICATION:**

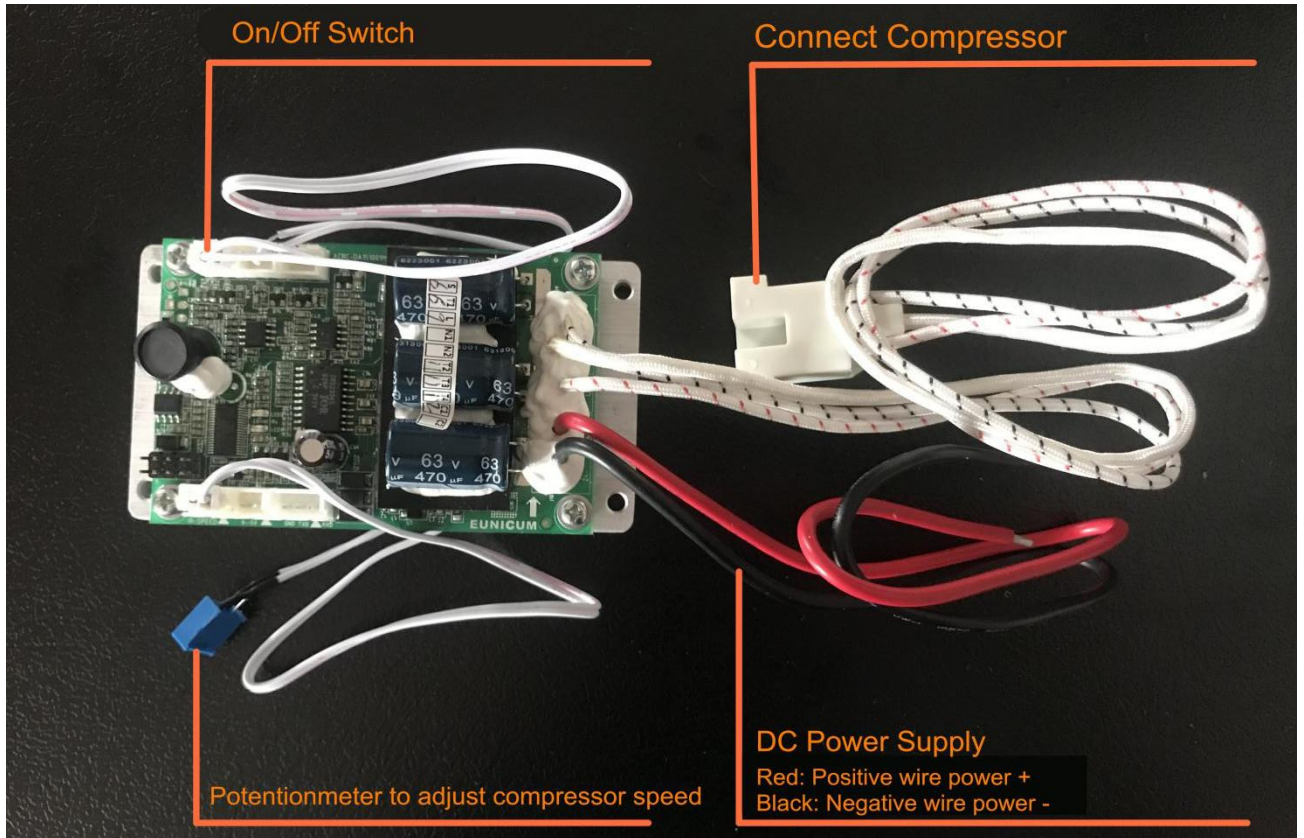
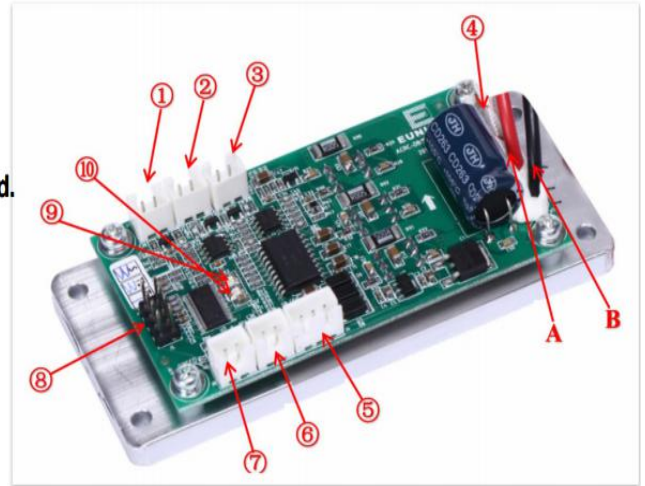
Unit Model Name	DV1910E-AC/H		
External dimension (mm)	355×336x170(LXWXH)		
Compressor Model	QX1901VDL		
Compressor Type	Rotary DC Inverter Motor		
Compressor Displacement	1.9cc		
Refrigerant	R134A		
Capillary	Di=0.8 mm		
Heater	300W PTC heater		
Rated Voltage (V)	12		
Max Current (A)	10		
Noise (dB)	≤54		
Operating Ambient Temperature (°C)	5~43		
Unit Volume (m <sup>3</sup> )	0.5		
External Dimension	355×336x170mm(14x13.2x6.7 inch)		
Function	Heating and Cooling		
Motor Speed	2000-6000rpm		
Cooling capacity(W)	<b>450</b>	Heating capacity(W)	<b>300</b>
Rated current(A)	1-8A	Max current(A)	25A
Max current(A)	10A	Evaporator air volume(m <sup>3</sup> /h)	48
Air flow(CFM)	28.30	Blower speed(RPM)	3000

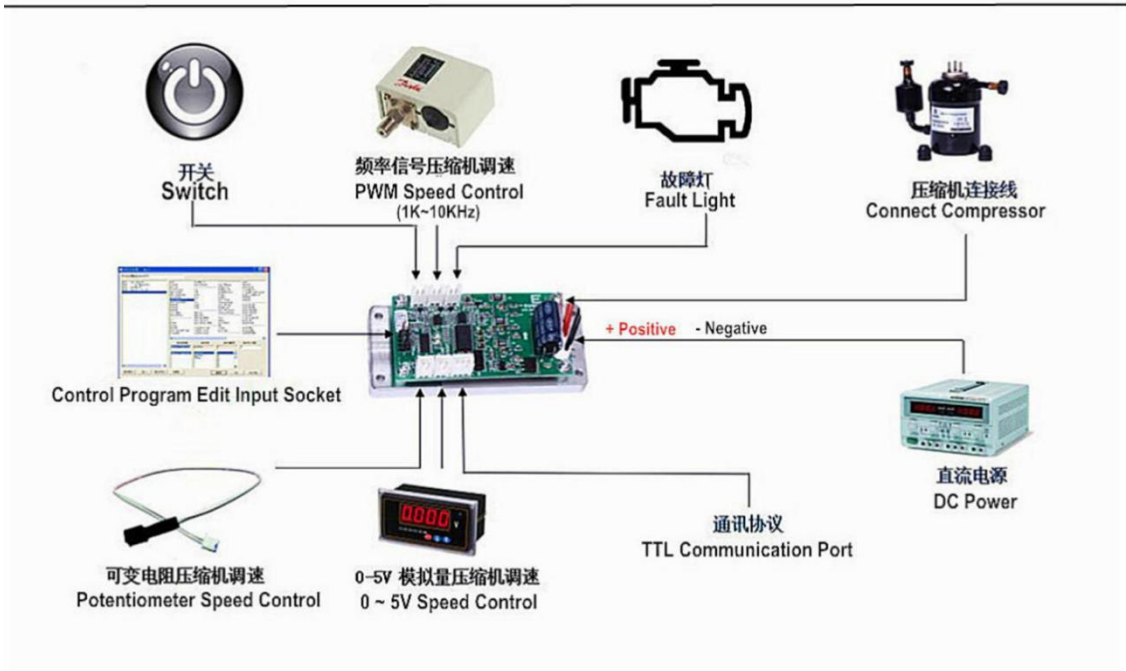
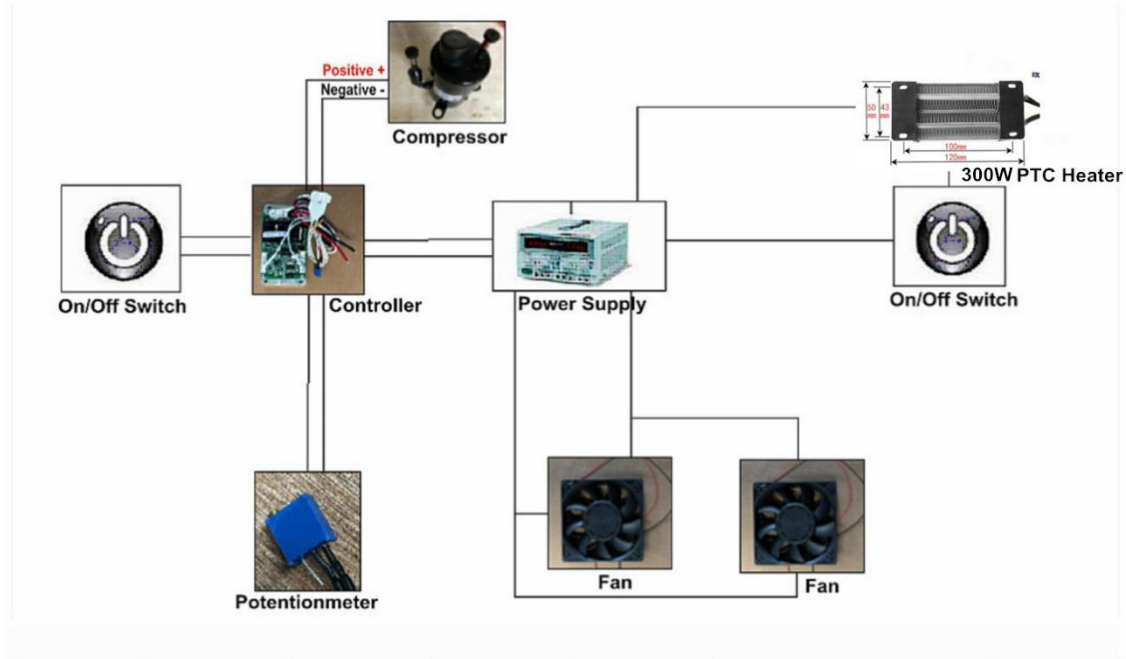


## CONTROLLER WIRE CONNECTION:

- A Positive wire Power “ + ”
- B Negative wire Power “ - ”

- ① Switch (on-off), Enable terminal, reservation for EN.
- ② PWN speed control terminal (1K~10KHz).
- ③ Fault alarm compressor failure alarm, high level-normal, low level-failure.
- ④ Connecting lines (Connecting to the compressor).
- ⑤ TTL communication port
- ⑥ 0~5V to adjust the speed.
- ⑦ Terminals for potentionmeters with 50k ohm to adjust speed.
- ⑧ Control program edit input socket
- ⑨ Green LED
- ⑩ Red LED

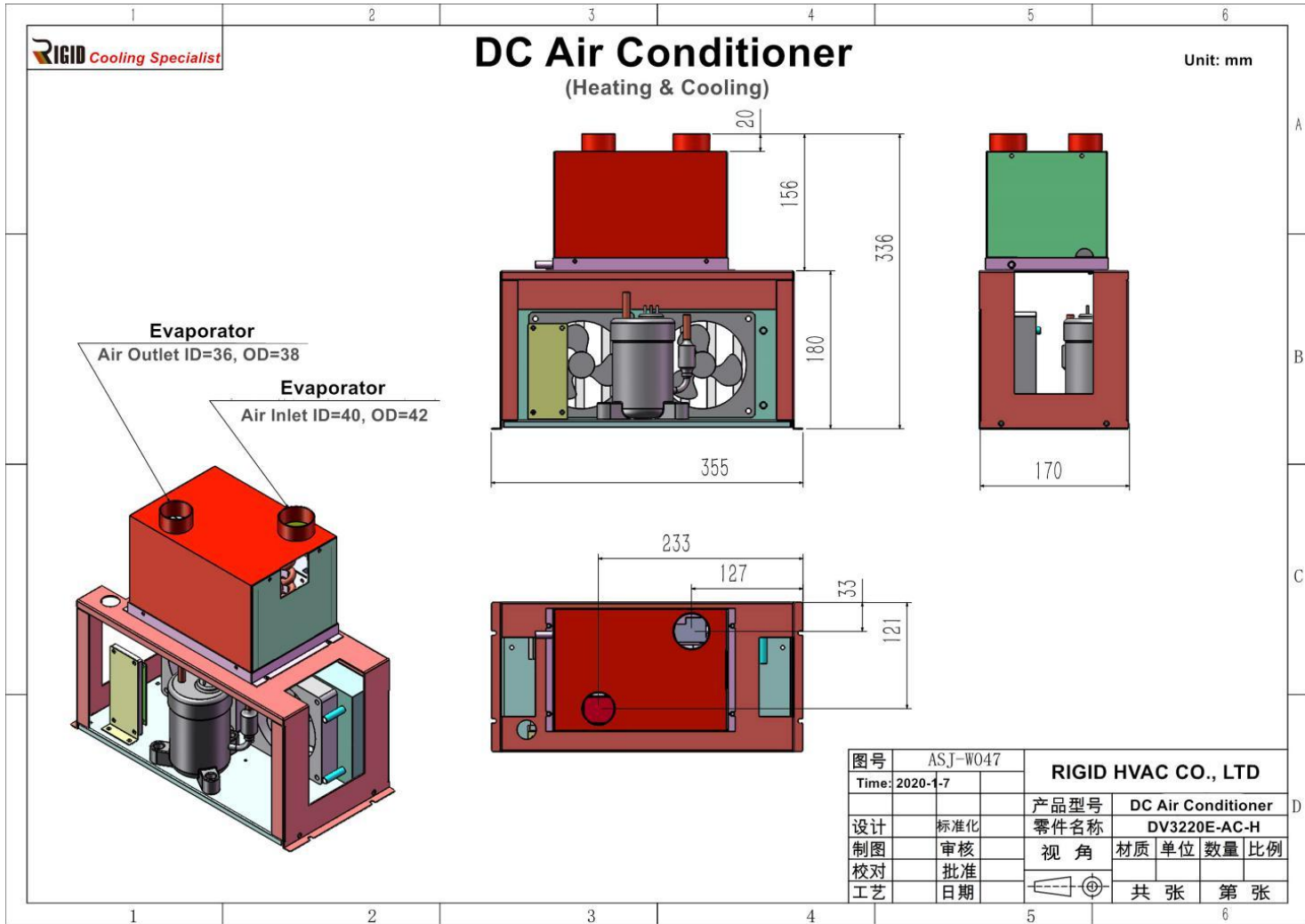






### DIMENSIONS:

355×336x170mm(LxWxH)





## ATTENTION:

1. Please check evaporator & condenser installation properly, when compressor is failed or poor refrigerating.

Make sure the system is complete vacuum and no water inside. Refrigerant oil lacking also leads to poor refrigerating capacity.

2. Notice, Refrigerant oil will be released when we are charging refrigerant gas. Make sure the compressor has enough refrigerant oil (50g). Or compressor motor will face possible jammed or stuck due to oil blockage.

3. Important Functional Description:

3.1 The controller adopts analog signal control, set by communication mode. The control mode will not be saved.

3.2 Communication control mode please follows the communication protocol MODBUS RTU. (\* Details please check the attached file.)

3.3 Under analog signal control, there are 3 types of instructions: constant pressure simulation instruction, variable resistor speed and Variable frequency speed. The highest is priority. (The default input instruction is 0).

▲ The corresponding relation between simulation instruction and speed is straight line. 0V-0.5V corresponds stop, it starts to work when instruction is more than 0.7V; 0.7V - 5V corresponds 2000rpm ~ 6000rpm

▲ The corresponding relationship between frequency instruction and speed is straight line. 300~500Hz corresponds stop and 1000Hz starts to work; 1000~10000Hz corresponds 2000rpm ~ 6000rpm

▲ Variable resistance speed, 50k stops, 30k ~ 0k corresponds to 2000~6000rpm.