Specification

Micro Aircon Unit (Heat&Cool)
DV1930E-AC/H

SPECIFICATION:

Unit Model Name		DV1930E-AC/H	
External dimension (mm)		355×336x170(LXWXH)	
Compressor Model		QX1903VDL	
Compressor Type		Rotary DC Inverter Motor	
Compressor Displacement		1.9cc	
Refrigerant		R134A	
Capillary		Di=0.8 mm	
Heater		400W PTC heater	
Rated Voltage (V)		48	
Max Current (A)		7.5	
Noise（dB）		≤54	
Operating Ambient Temperature（˚C）		5~55	
Unit Volume（m^3）		0.5	
External Dimension		355×336x170mm(14x13.2x6.7 inch)	
Function		Heating and Cooling	
Motor Speed		2000-6500rpm	
Cooling capacity(W)	**455**	Heating capacity(W)	**400**
Rated current(A)	1-4.1A	Max current(A)	8.3A
Max current(A)	7.5A	Evaporator air volume(m^3/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

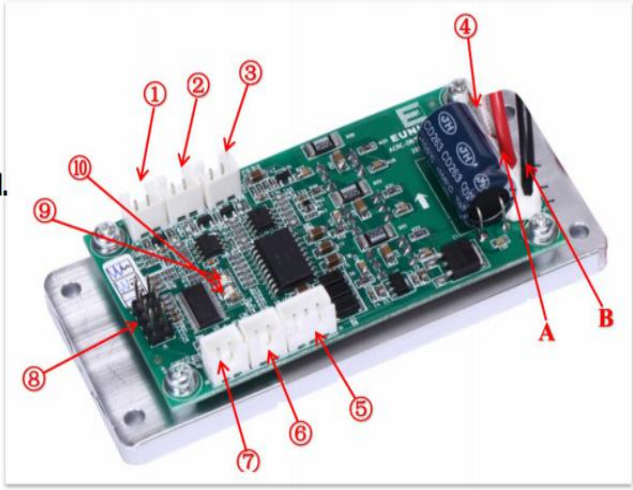
⑥ 0~5V to adjust the speed.

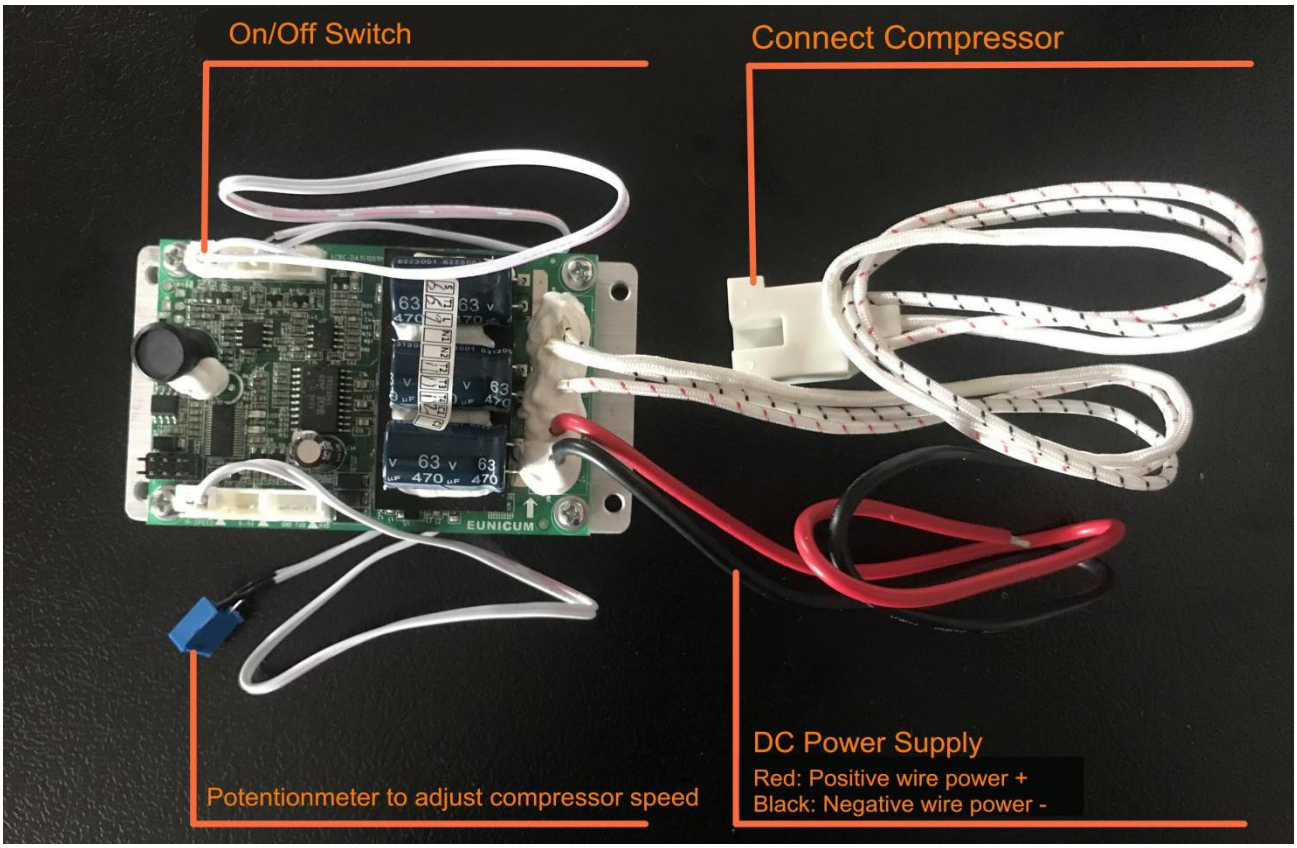
⑦ Terminals for potentionmeters with 50k ohm to adjust speed.

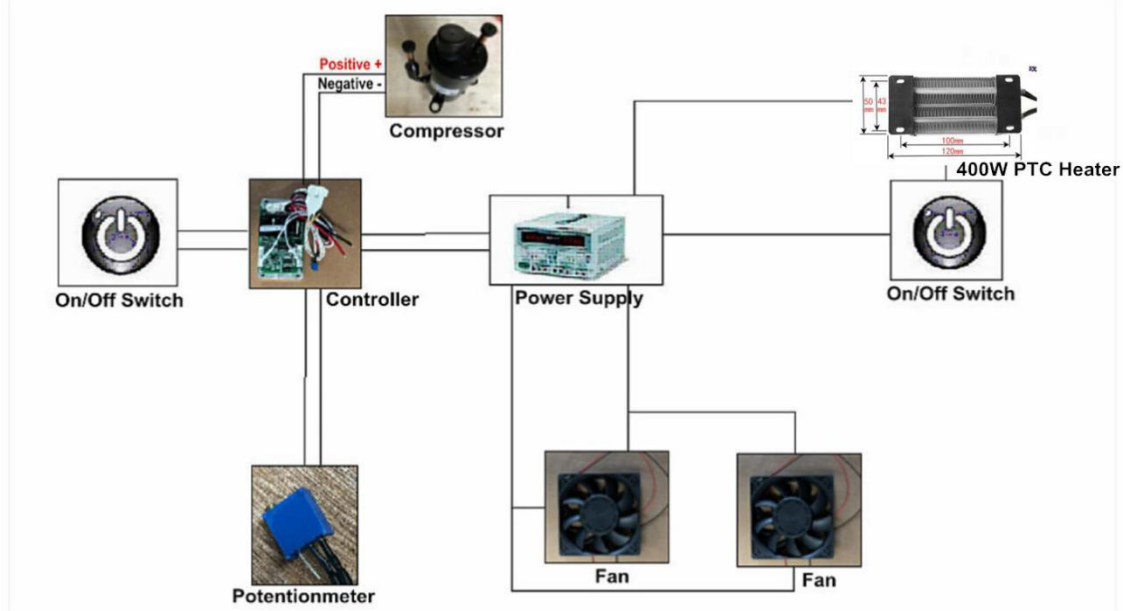
⑧ Control program edit input socket

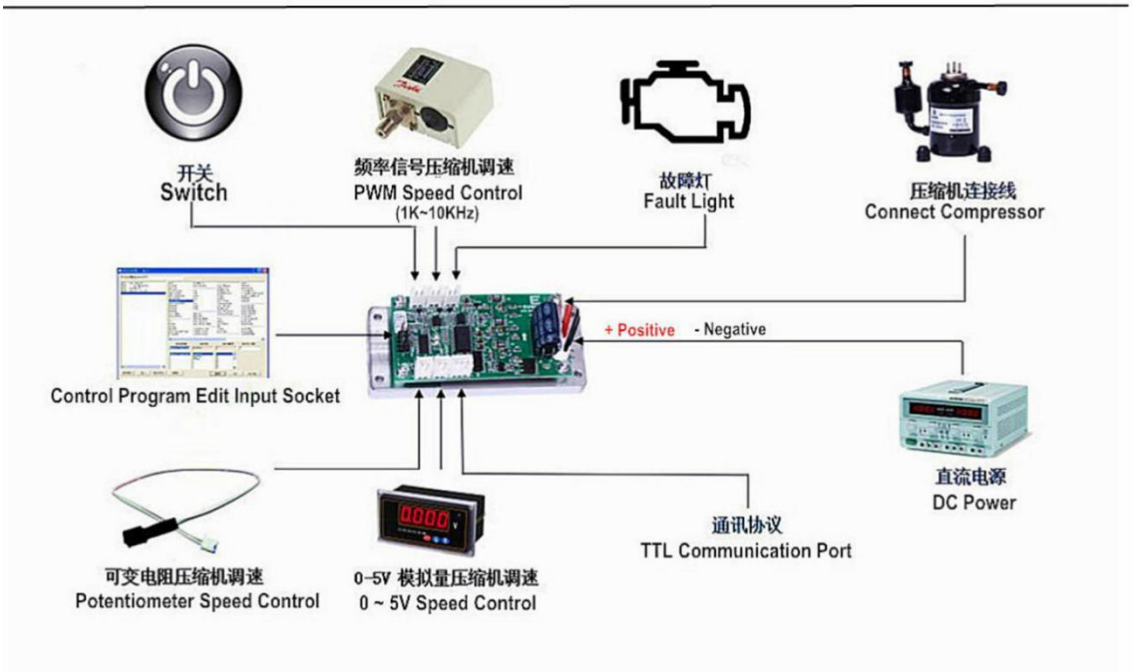
⑨ Green LED

⑩ Red LED



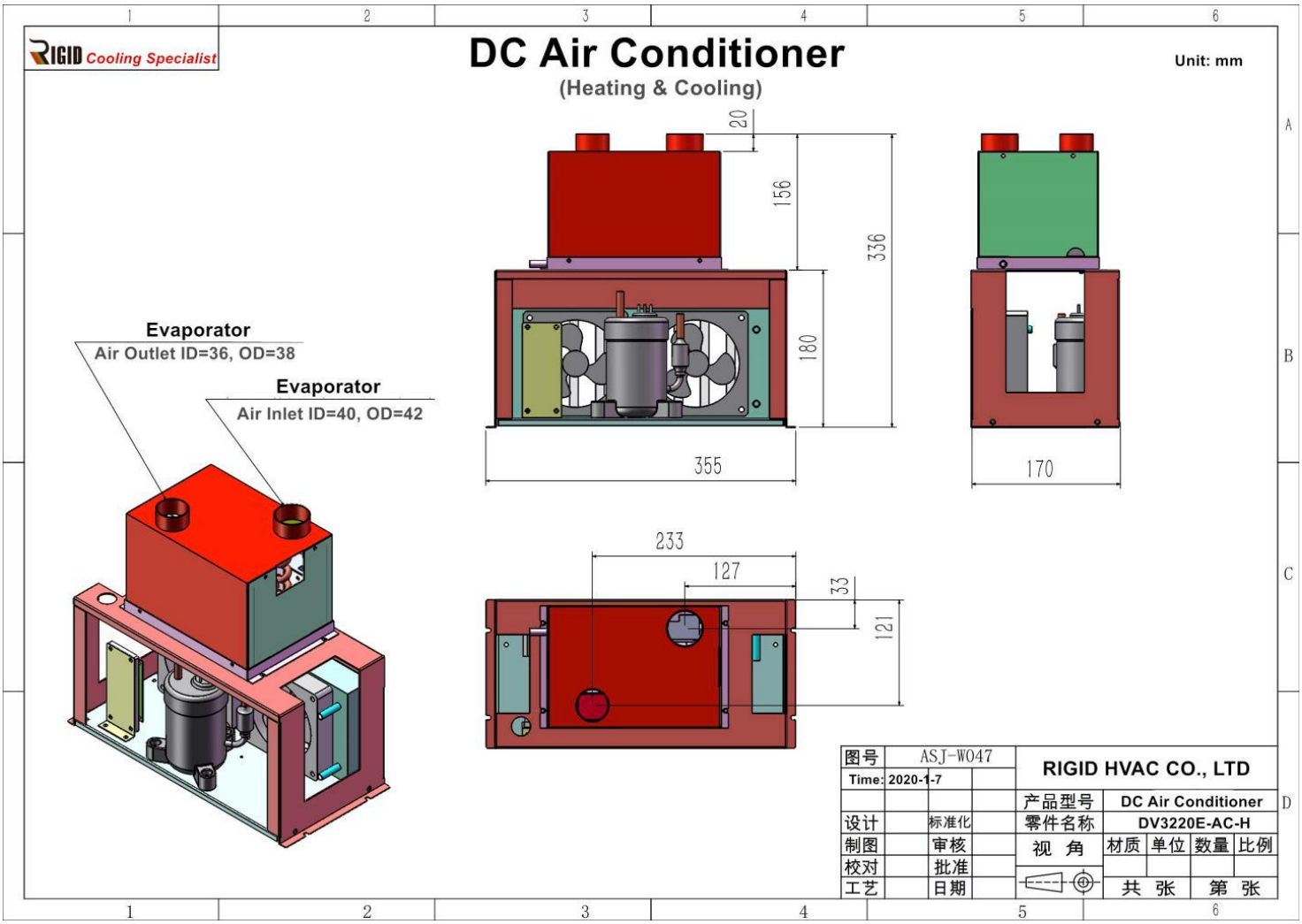



Positive +
Negative -
Compressor
400W PTC Heater
On/Off Switch
Controller
Power Supply
On/Off Switch
Potentionmeter
Fan
Fan


开关
Switch
频率信号压缩机调速
PWM Speed Control
(1K~10KHz)
故障灯
Fault Light
压缩机连接线
Connect Compressor
+ Positive
- Negative
Control Program Edit Input Socket
直流电源
DC Power
通讯协议
TTL Communication Port
可变电阻压缩机调速
Potentiometer Speed Control
0-5V 模拟量压缩机调速
0 ~ 5V Speed Control

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 ～ 6500rpm

▲The corresponding relationship between frequency instruction and speed is straight line. 300~500Hz corresponds stop and 1000Hz starts to work; 1000~10000Hz corresponds 2000rpm ～ 6500rpm

▲Variable resistance speed, 50k stops, 30k ~ 0k corresponds to 2000~6500rpm.