



Perfume Chiller mixing machine

Operation Manual



1 . Product Description

This perfume making equipment is developed on the basis of bring in overseas advanced technology, it is specialized used in clarification and filtration of fluid after freezing in cosmetic water, perfume. It adopts **stainless steel 304-2B outer and 316L** connect part, with pneumatic diaphragm pump imported from U.S. as pressure source so as to positive pressure filtrating. The connecting pipes adopt sanitation grade polishing pipe, most are quick-install connecting way, easy to take apart and clean. Equipped with polypropylene micro porous filtrating membrane which is widely applied in cosmetic industry, research institute, hospital, laboratory etc, to clarify of little fluid and sterilization or chemical analysis, convenient and reliable.

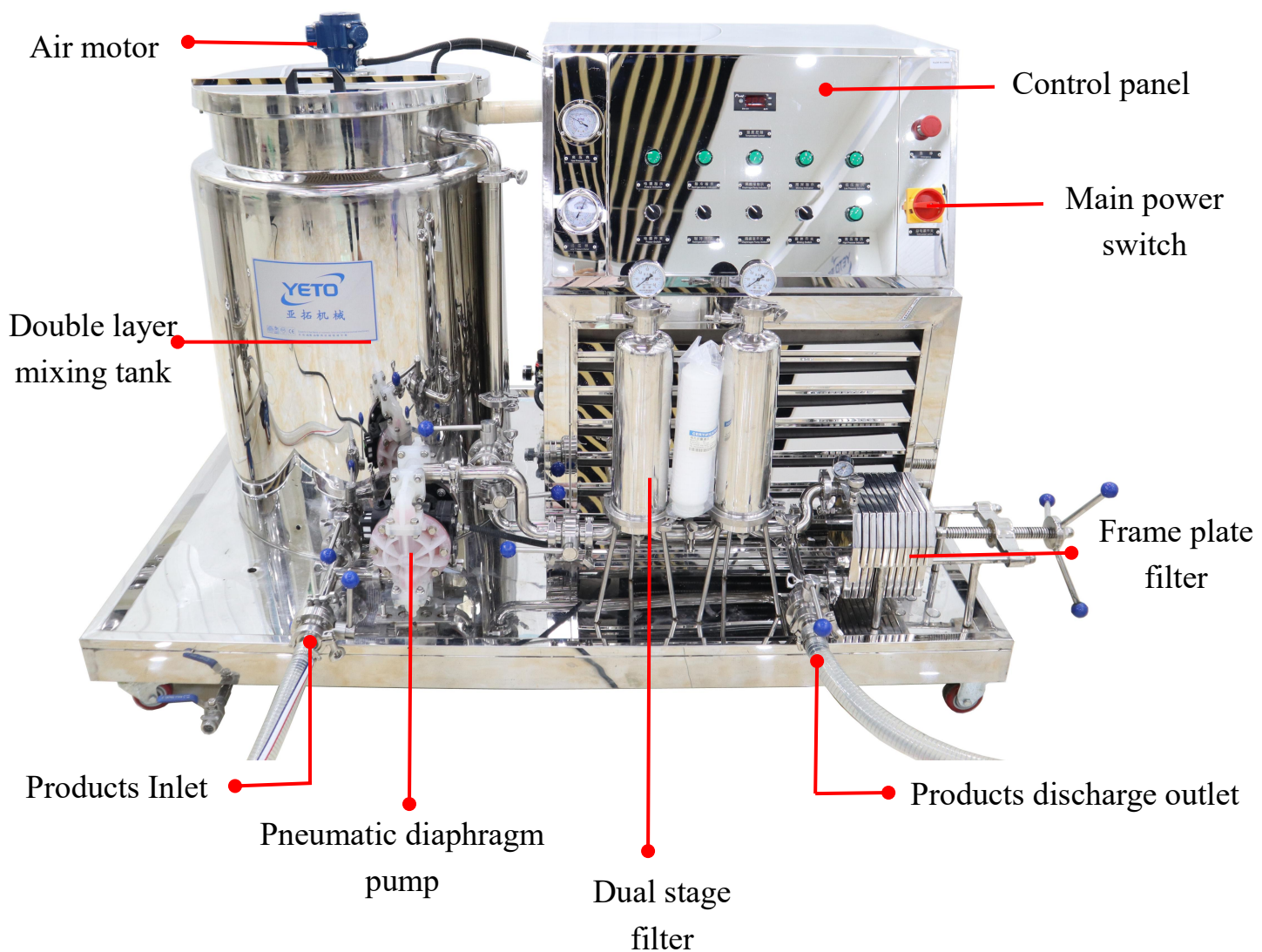
2 . Technical parameter:

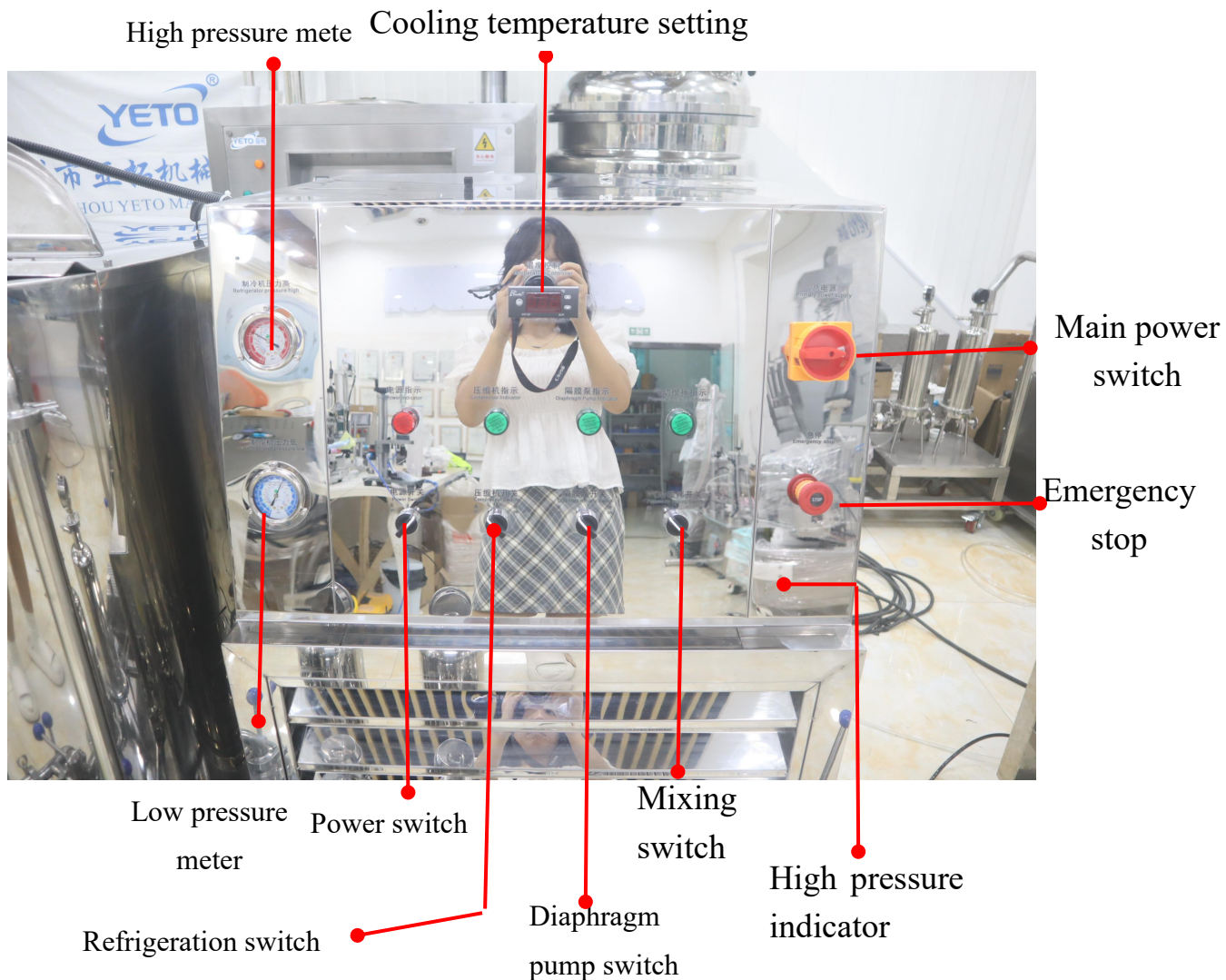
specification	3p(100-300L)	5p(300-700L)	10p(1000L)
Power	308v/50HZ		
General power	2.2KW	3.75KW	7.5KW
Refrigeration temperature	-5°C- -15°C		
Refrigeration liquid	R404A		
Air source pressure	0.4-0.6Mpa		
Filter pressure	0.2 Mpa		
Stair filter	1.0μm		
Two level filter	0.2μm		

3 . Equipment Configuration

- 1, Stainless steel insulating frozen tank and Titanium metal pipe
- 2, Ultra-low temperature chiller (imported from France)
- 3, Antisepsis pneumatic diaphragm pump, place of origin USA.
- 4, Polypropylene microporous filtrating membrane
- 5, Portable stainless steel bracket
- 6, Stainless steel movable supporter sealing type electric control system and sanitary pipe fittings and valves.

4 . Structure of Machine





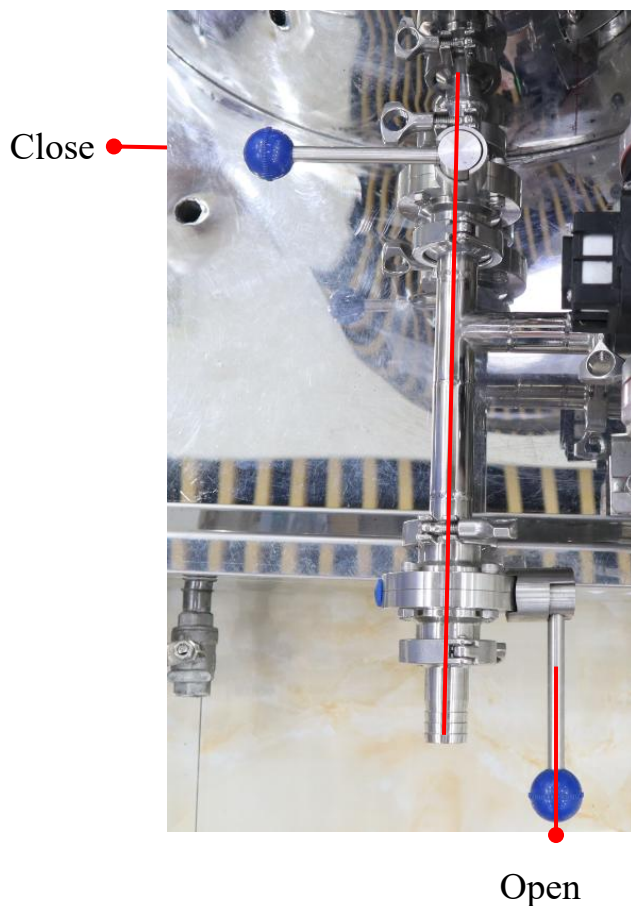
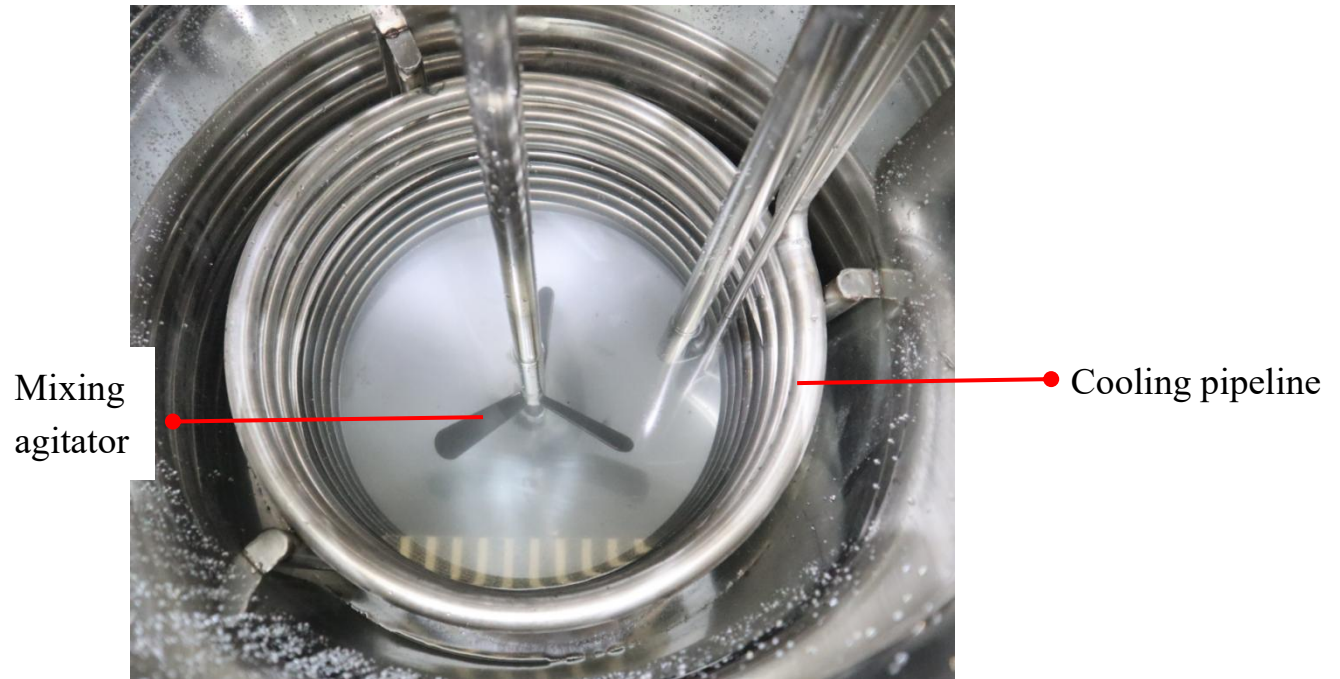
The green color indicator on top is for showing the running status of each function ,if the light is not on that means the button is not working or the light is damaged.

Main power switch: the total power supply .

Refrigeration switch: open this button,the compressor will start working after 50-60seconds.

Diaphragm pump switch : this button is for pneumatic pump,when open the pump,the products can be pumped into the mixing tank, filtered circularly and discharged out .

Mixing switch: to open and close the mixing function.

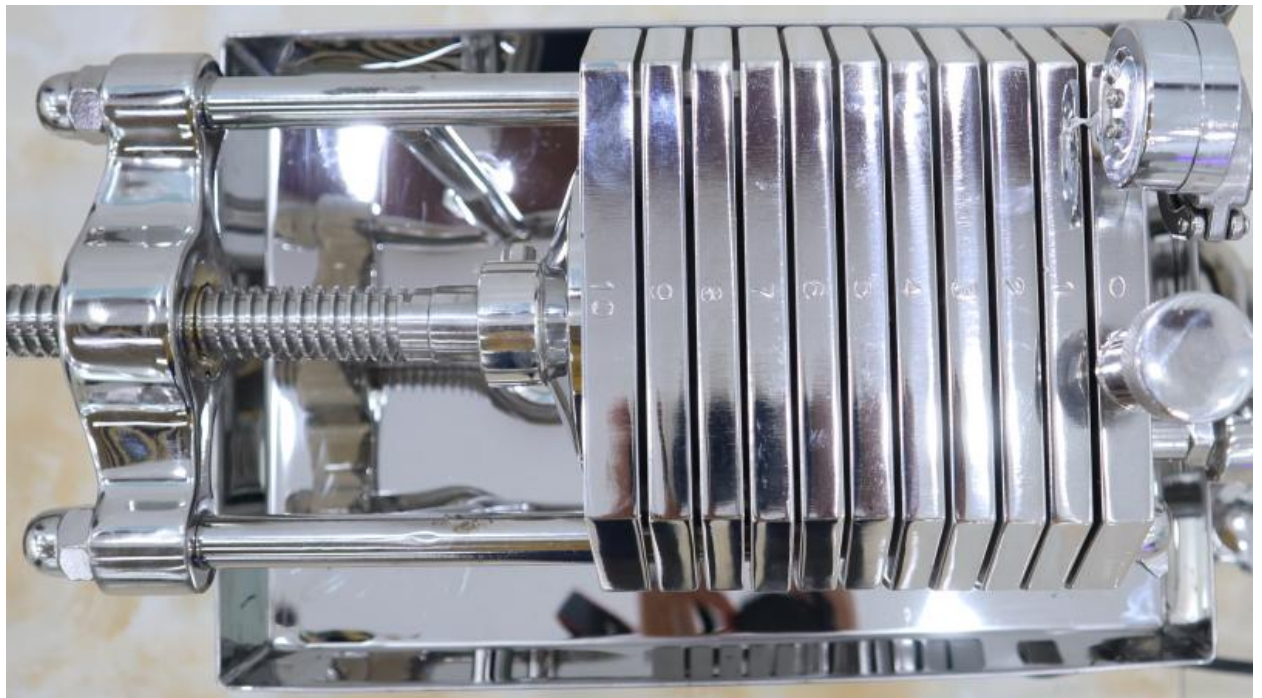


Ball valve control

Remark: Pull the valve to open or close the valve .

Open : The direction of the ball valve is parallel to the direction of the pipe

Close : The direction of the ball valve is perpendicular to the direction of the pipe direction .



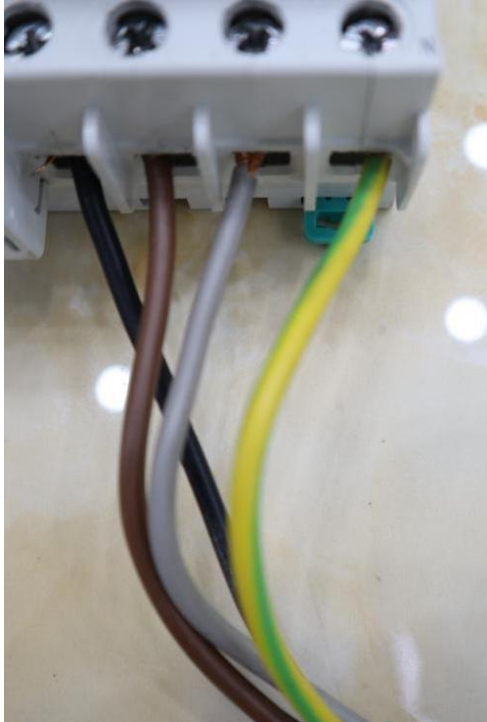
The sequence of plate installation must be like this, cannot mistake



Put the filter paper into pure water and stick on the both side of left plate.

5 . Operation procedure .

5-1 Electric power and air source connection



Electric wire connection :

Neutral wire : Yellow

Live wire : Grey , brown , Black

Air source interface

A :Connect with air compressor

B: Air source switch

C: Pressure regulator

D: Pressure gauge : **0.4-0.8Mpa**

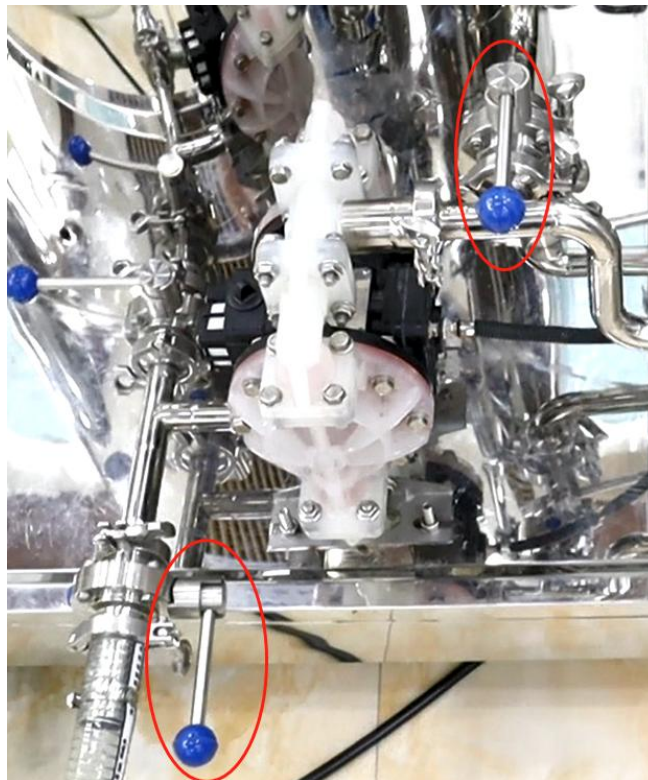


5-2 Cooling temperature setting

Turn on the “**Total power switch**” and “**Power switch**” firstly . Then press “**1**” (**Set**) and the number will flash, then the number can be changed with 2(added) and 3(reduced) .



5-3 Pump the products into mixing tank , **only need to open these two valve as below**, and close other valves .



5-4 Start mixing and circulating filtration

Close the products inlet valve and outlet valve, and open all other valves .

Then turn on these switch “ **Mixing switch** ” “ **Diaphragm pump switch** ” “ **Refrigeration switch** ”, the products will start mixing ,cooling and automatic cycle filtration .

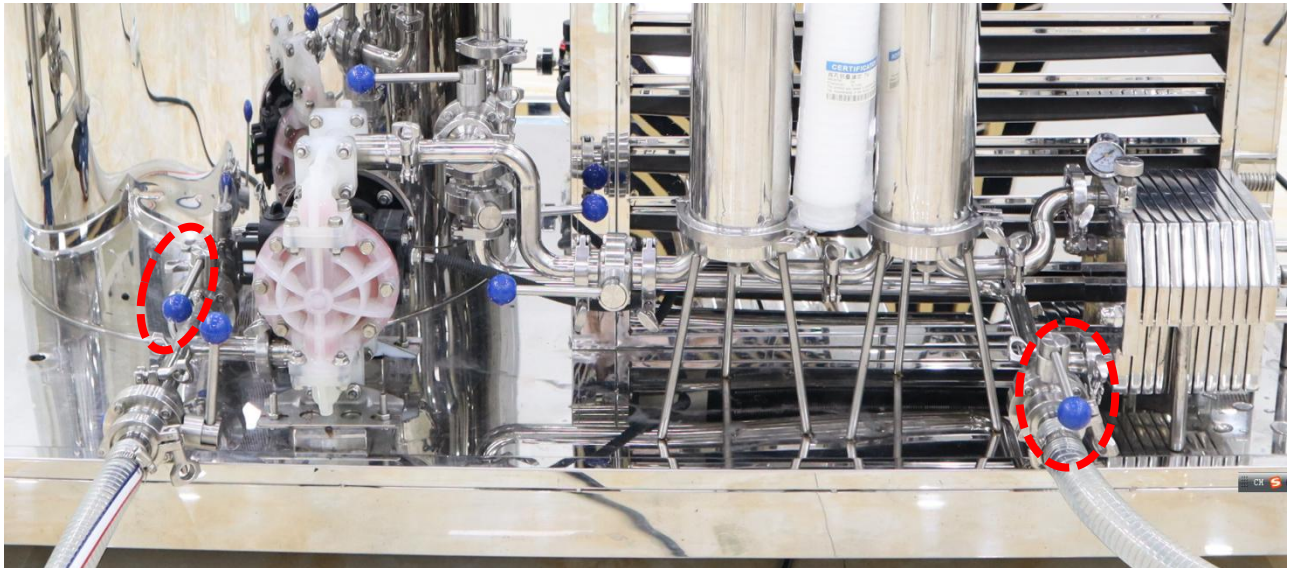
Warning :

- The wind direction have to come out from this direction, that means the wire must be connect right as below .
- If not this direction, please turn off the “ Refrigeration switch ” and “ Total power switch ” immediately, then change the wire direction of any two Live wire .



5-5 Discharge products

Turn off these switch “ **Mixing switch** ” and “ **Refrigeration switch** ”, and then **open the below two valves** and close other all valves .



6 . Attention

6-1 The filter has to be changed when the smell changes, also it has to be changed after 15days if your machine .

6-2 Please use it frequently everyday.

6-3 Refrigerant should be added when the compressor can not open .

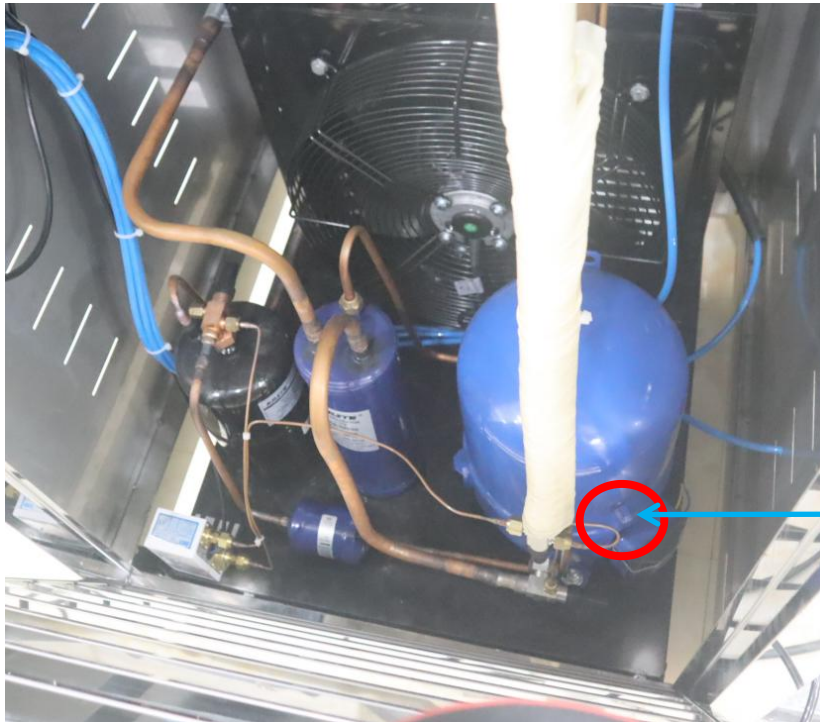
6-4 We suggest that **100L -300L working capacity for per batch, the liquids level should be over the cooling pipe**, if not the cooling pipe will be damaged after long term working . The smallest working capacity is 100L, we don't suggest working several batch per day, 1 batch is ok .

7 . Trouble elimination

Troubleshooting

- A. If the temperature on the scale shows higher than the needed temperature for cooling liquids, then set and adjust the temperature on the scale.
- B. If the chiller stops and doesn't work for about 3 minutes, you can restart it after 3 minutes.
- C. Please ask an expert if the low and high pressure light doesn't work or failure to operate.
- D. For the lack of the AMP(A) of the thermal relay.
- E. Under normal circumstance, the high pressure is around 1.0-1.8Mpa, the low pressure is around 0.15-0.45Mpa.
- F. For the lower speed of water outlet, check the filter, to see whether it is blocked, And change a new one accordingly, For the first grade filter, install a filter of 1.0 μ m, for the second filter, for the second filter, install a 0.2 μ m filter. (You can also get to know the degree of blocking by observing the pressure difference) .

Freon filling process



Freon type number: **R404A**

Weight of Freon required: **2.5-3kg**
You can check it based your machine pressure on the control panel.



Freon filling inlet



When you run the cooling compressor. Please assure your pressure range within my red mark.

High pressure: 1.5-2.0(If it exceeds this value, you need release some Freon from the machine.)

Low pressure: 0.3-0.4(If it has not reached this value, you need to fill enough Freon to the machine.)