Product Description

Lab1st wiped film evaporator molecular distillation unit

LAB1ST wiped film molecular distillation unit is superior than traditional short path distillation kit by shorter residence time, lower separation temperature, capability of continuous and unattended operation. The units are available in various sizes (from 80mm diameter to 200mm or more), with processing speed up toa 28kg/h.

Glass Molecular Distillation Unit - Type C

Evaporator Unit: with dewar-style cold trap

Main Heater: up to 300℃

Pre-heater: up to 300℃

Heater/Chiller for Internal Condenser: -25℃ to 180℃

Rotary Vane Pump: 6L/s gas displacement

Additional Terpene Condenser

Chiller for Terpene Condenser: down to -20℃

Peristaltic Pump Module: for continuous inlet

Glass Valve Module: for Continuous Outlet

Diffusion Pump Chiller for Cold Trap: down to -80℃

Glass Molecular Distillation Unit - Type A
Glass Molecular Distillation Unit - Type B

Evaporator Unit : standard with dewar-style cold trap
Main Heater: 5kW heating power, up to 300C
Pre-heater Heater/Chiller for Internal Condenser: 1.5kW heating power, up to 300C
Rotary Vane Pump: 6L/s gas displacement
Evaporator Unit, Main Heater, Pre-heater Heater/Chiller, Rotary Vane Pump;
Peristaltic Pump Module for continuous inlet
Glass Valve Module for Continuous Outlet
Diffusion Pump:80L/s gas displacement,for higher vacuum

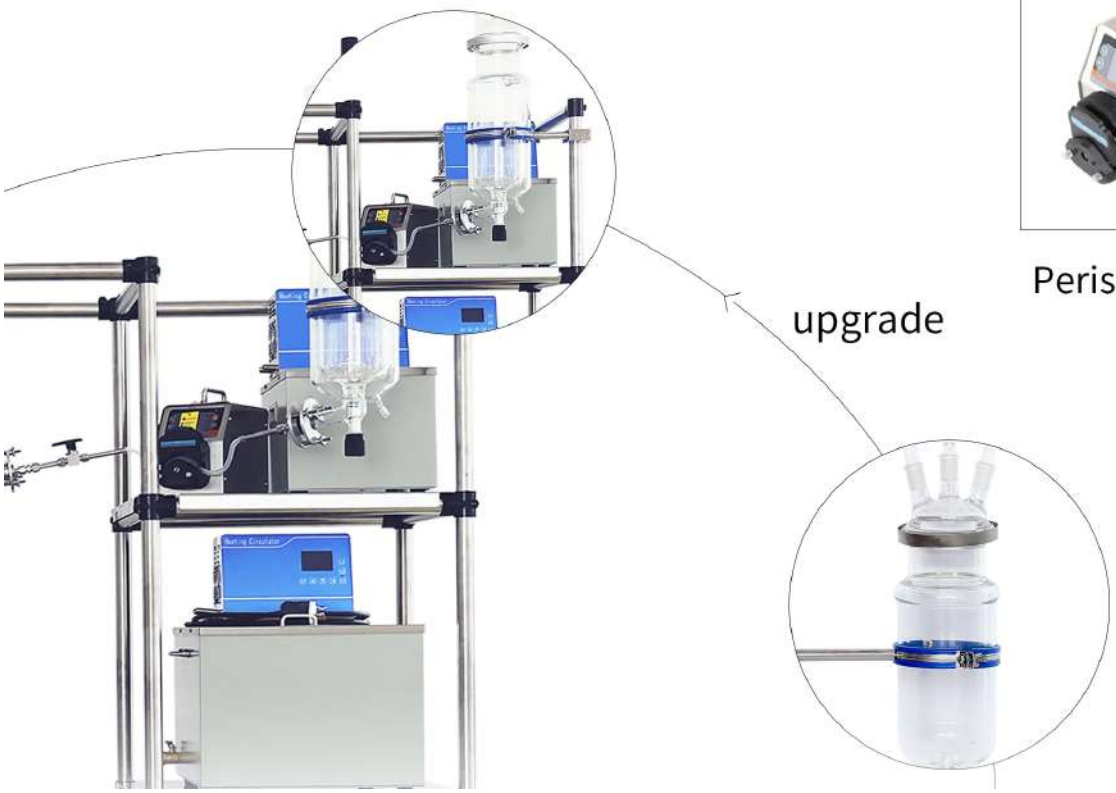
Details Images

YOU HAVE MULTIPLE OPTIONS TO MAKE YOUR OWN UNITS!

1

• CONTINUOUS FEEDING

Adding a peristaltic pump between feeding vessel and evaporator column to make flow-through technique ideal.



upgrade

Peristaltic pump

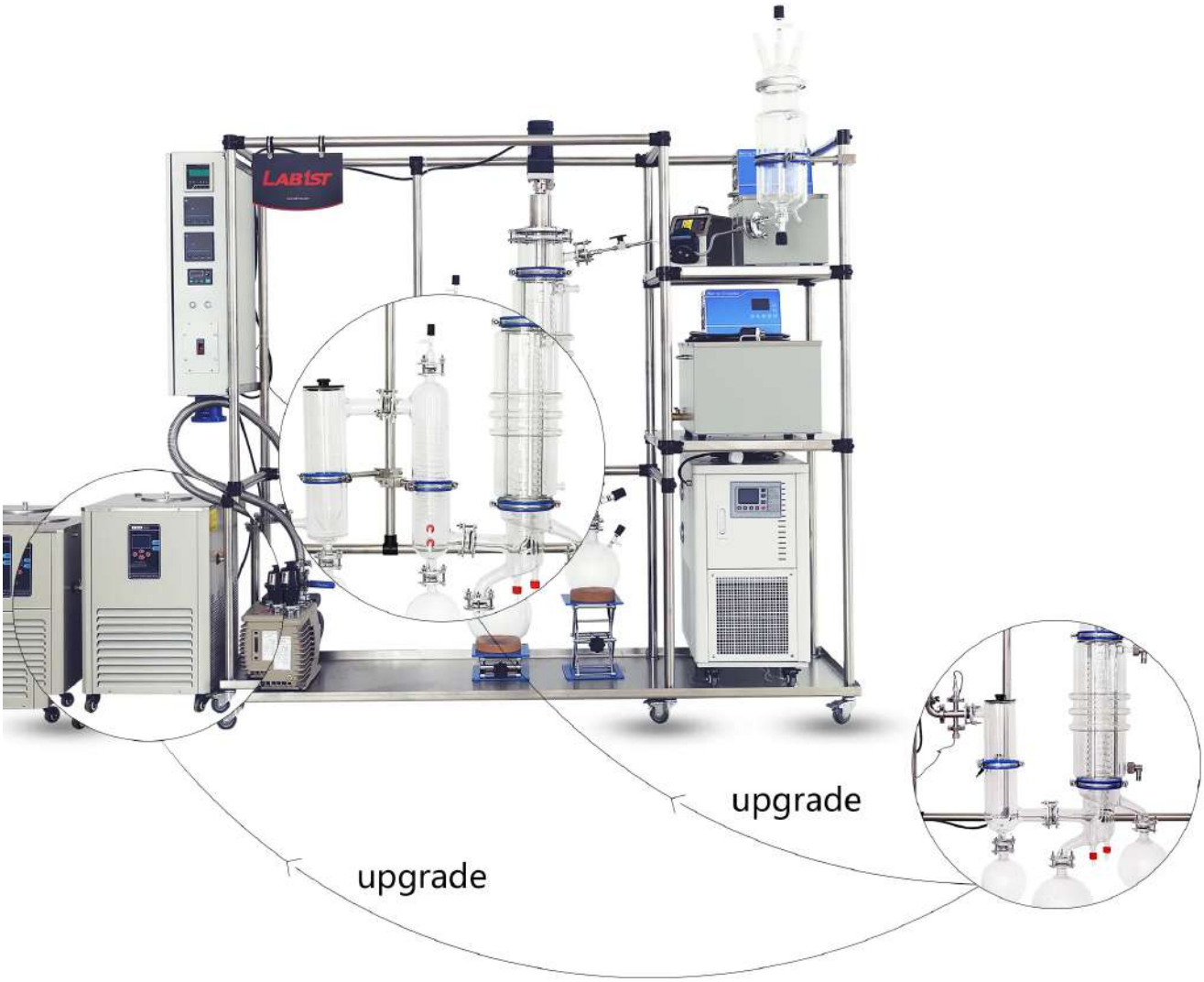
• CONTINUOUS DISCHARGING

2

There are two options for continuous collection
* With Glass/PTFE valve for continuous collection
* With two gear pumps to be efficient and automatic for continuous collection

3 • EXTERNAL CONDENSER

With an external condenser, you can collect terpenes separately



• DEWAR STYLE VS COOLING COIL COLD TRAP

4

Simple Dewar style cold trap is upgraded to cooling coil cold trap with one chiller. It is unnecessary to add dry ice again

5 • DIFFUSION PUMP

With a diffusion pump , vacuum system will be better

Diffusion pump

upgrade

Technical datas

Model	GMD-100	GMD-150	GMD-200
Feeding Rate	0.75~7.5	1.25~12.5	1.75~17.5
Herb Throughput（L/h）	1.5~3	2.5~5	3.5~7
Evaporation Area（㎡）	0.1	0.25	0.35
System Vacuum（Pa）	≤0.1Pa（No Load）		
Agitate Motor Speed（rpm）	≤400		
Material (Wet Part)	High Borosilicate Glass, PTFE, SUS316L		
Seal Gasket Standard	Food grade fluororubber（options: PTFE）		
Certification	CE（option: UL, ATEX...）		
Wiper Type	Centrifugal scraper（PTFE）		
Agitator Drive	Magnetically coupled drive		

External Condenser	——		
External Cold Trap	√		
Feeding Tank（L）	2	3	5
Feeding Pump	Peristaltic pump (options: gear pump)		
Heat Preservation	Feed and Discharge: Heating tape +PT100		
Holding Temperature（℃）	RT~100℃		
Receiving Flask	1L、2L	3L、5L	3L、5L
*Vacuum Pump Temperture	Air cooled diffusion pump，80L/s		
Power	220，1P（customizable）		
*Due to different material properties, the throughput will fluctuate, please subject to test results;			
*Diffusion pump can only be used as a second stage vacuum pump with a first-stage pump.			