

Hybrid Molecular Distillation Unit

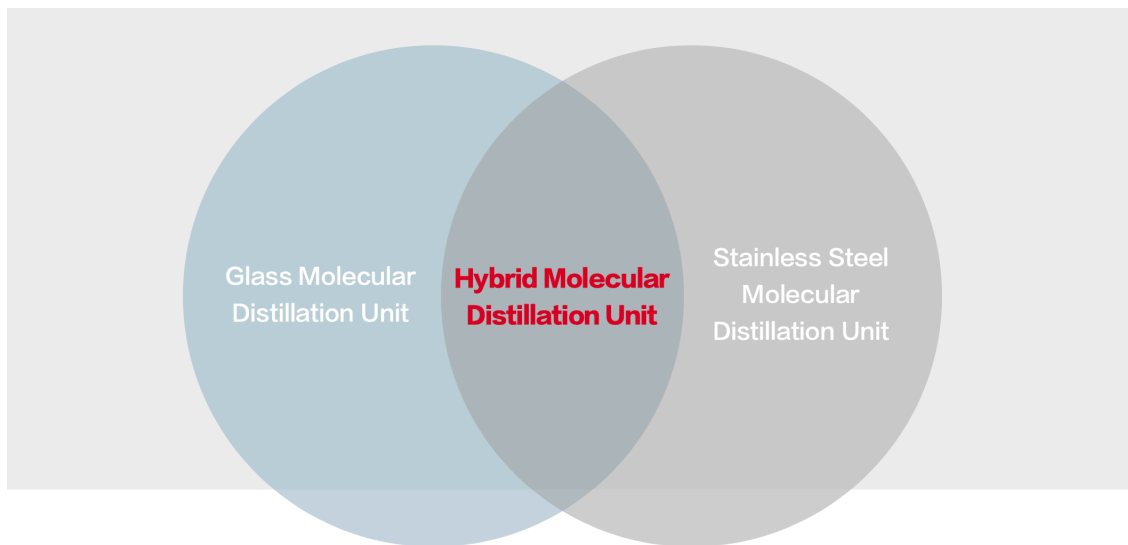
/ LiquidExtrac Scientific and Industrial Equipment



Hybrid Molecular Distillation Unit

Molecular distillation is a type of short-path vacuum distillation, characterized by an extremely low vacuum pressure. It is a special liquid-liquid separation technology, which is different from the traditional distillation by boiling point difference separation principle, but by different substances molecular movement of the average free path difference to achieve separation.

Hybrid wiped film distillation is a NEW STYLE molecular distillation equipment that made by glass and stainless steel. It combines the advantages of glass wiped film still and stainless steel molecular distillation such as process visibility, durable in use, high evaporator rate and so forth.



FEATURES

Well-designed Evaporator Body

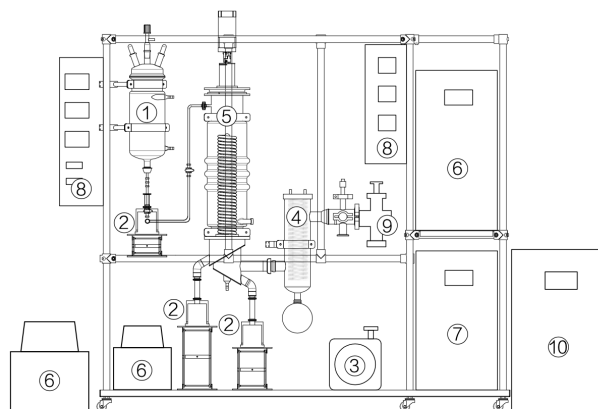
- Glass and stainless steel combined design combines transparency and durability
- Stainless steel coil has more efficient heat transfer performance
- Short residence time, uniform heating
- High borosilicate glass to observe distillation process

More Details

- All-in-one control panel design
- Grease free high vacuum joints capable of as low as 0.1 Pa
- 45 degree chute on the strip controls residence time
- Precisely designed wiper structure for high stability in long-term operation

Structure Display

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|-------------------|-------------------------------|
| ① Feeding Flask | ⑥ Heating Circulator |
| ② Gear Pumps | ⑦ Heating Cooling Circulator |
| ③ Vacuum Pump | ⑧ Integrated Electric Cabinet |
| ④ Cold Trap | ⑨ Air-cooled Diffusion Pump |
| ⑤ Main Evaporator | ⑩ Cooling Circulator |



Specifications

Model	LEHMD-150	LEHMD-200
Feed Rate (kg/hr)	1.25-12.5	1.75-17.5
CBD Throughput (kg)	2.5-5	3.5-7
Dimension (LxWxH mm)	2270x1940x628	2420x2040x628
Effective Evaporation Area (m ²)	0.25	0.35
Evaporator Internal Diameter (mm/inch)	150/6.0	200/7.9
Feeding Funnel Volume (L)	3	5
Internal Condenser Area (m ²)	0.4	0.5
Distillate Receiving Vessel Volume (L)	5	5
Residue Receiving Vessel Volume (L)	3	5
Motor Power (W)	120	
Maximum Speed (rpm)	400	
Stirrer Seal	Oil-less Magnetic, High Vacuum	
Wiper	Scraper	
Material	Borosilicate Glass 3.3 (evaporator) / SS316L (wet parts) / SS304 (frame)	
Vacuum Gauge	Pirani Style	
Operation Temperature (C)	Up to 250	
Vacuum Degree	Better than 10 Pa	
Voltage	220V-Single Phase / Customizable	