

With more than a decade of experience in the importation of laboratory equipment you can rely on our ability to assist with your purchase and delivery.

Quality in your hands - 15 years



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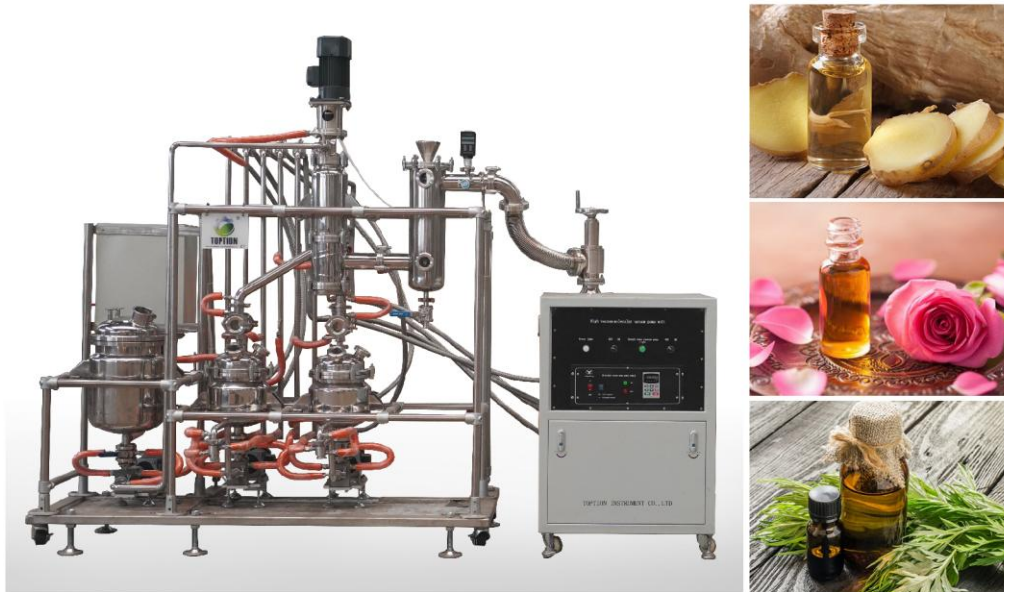
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MOLECULAR DISTILLATION ONE STOP SOLUTION

Quality Manufacturing 15 Years



TOPTION INSTRUMENT Co., Ltd., has spent many years becoming a world leading lab solution provider, supply the best solutions and products for our global customers. Excellent quality, advanced technology, and professional service are crucial for making lab research and production successful.

Since 2004 TOPTION'S equipment has been used and praised in many countries including Canada, United States, Poland, and Spain. Our stainless steel, high precision molecular distillation equipment currently services more than 85% of the market share in the cannabis industry.

TOPTION has passed ISO9001 & CE certification. Choose TOPTION to maximize your results. We believe, TOPTION will be your TOP OPTION.

Certificate – Сертификат – 證明書 – 證明書 – 證明書







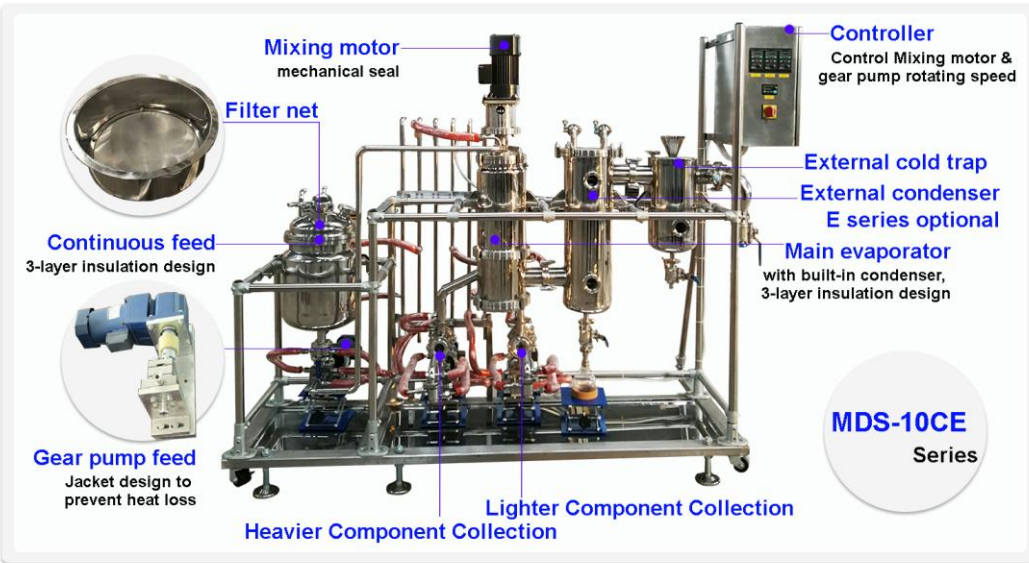


Molecular Distillation Equipment

Short path (molecular) distillation system is considered as the safest mode of separation and to purify the thermally unstable molecules & related compounds with low volatility & elevated boiling point. In the high vacuum environment, molecular distillation has the advantages of low distillation temperature, short heating time and rapid separation.

A complete molecular distillation plant should include:

| | |
|--------------------------|---------------------------------------|
| Short path evaporator | Heating system (RT-200°C or RT-300°C) |
| Material charging system | Cooling system (-20°C or 180°C) |
| Material collection unit | Vacuum system (0.05pa / 1pa / 10pa) |



MDS-10CE Series

- Mixing motor mechanical seal
- Filter net
- Continuous feed 3-layer insulation design
- Gear pump feed Jacket design to prevent heat loss
- Controller Control Mixing motor & gear pump rotating speed
- External cold trap
- External condenser E series optional
- Main evaporator with built-in condenser, 3-layer insulation design
- Lighter Component Collection
- Heavier Component Collection

• Heating System & Cooling System



Molecular Distillation Equipment

- Vacuum System - ultimate vacuum 10Pa, 1Pa, 0.05Pa



Oil Pump - ultimate vacuum 10Pa



Roots Pump Set - ultimate vacuum 1Pa



High Vacuum Molecular Pump - ultimate vacuum 0.05Pa



| Model | Evaporator Area(m ²) | Internal Condenser Area (m ²) | Capacity (L/h) | Mixing Power (W) | Motor (W) | Liquid Nitrogen Cold Trap |
|---------|----------------------------------|---|----------------|------------------|-----------|---------------------------|
| MDS-6 | 0.06 | 0.10 | 1-3 | 200W | | 1L |
| MDS-10 | 0.10 | 0.15 | 5-12 | 370W | | 3L |
| MDS-20 | 0.20 | 0.40 | 10-25 | 370W | | 3L |
| MDS-30 | 0.30 | 0.50 | 18-30 | 550W | | 3L |
| MDS-50 | 0.50 | 2.00 | 20-60 | 1500W | | 5L |
| MDS-100 | 1.00 | 3.00 | 50-100 | 3000W | | 5L |
| MDS-150 | 1.50 | 4.00 | 75-150 | 3000W | | 5L |
| MDS-200 | 2.00 | 5.00 | 100-200 | 3000W | | 5L |

★★★★★ MDS-10 For Research, MDS-50 For Production.

Technical Parameters

- “A” Series – Pressure differential feeding method.
- “B” Series – High precision gear pump feeding mode.
- “C” Series – High precision gear pump feeding & discharging.
- “E” Series Optional – External condenser.



← “A” Series

- Jacketed Material Feeding Tank.
- Feeding Type: Differential Pressure PTFE Valve.
- Collection Type: Glass Flask

“B” Series →

- Jacketed Stainless Steel Material Feeding Tank.
- Gear Pump Material Feeding Type.
- Glass Flask Collection Type.



← “C” (E) Series



- Jacketed Stainless Steel Material Feeding Tank.
- Gear Pump Material Feeding Type.
- Gear Pump Collection Type.

Molecular Distillation Equipment



MDS-10CE



MDS-20CE
(1pa vacuum system)



2-stages 20C
(customized system)



2-stages 200C system



2-stages 300C system

Application of molecular distillation equipment

Molecular distillation is applied for creating a high value clear distillate from Plant Oil Concentrates, such as refine cannabis and hemp concentrates into a golden clear distillate that can be infused into a variety of edible products or fine oils to be used in vape cartridges or other products.



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15 Years

Quality Manufacturing

24 Years

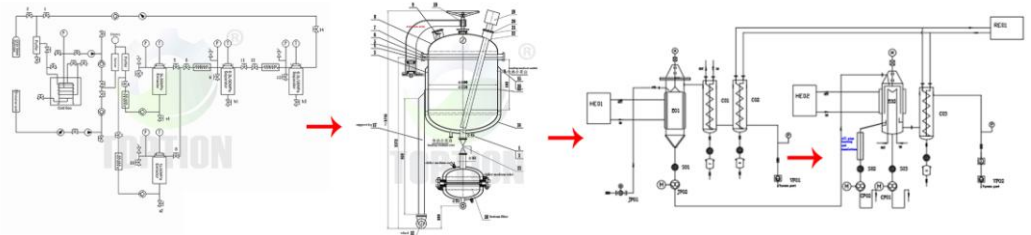
Experience Chemical
Engineers Team

85%

Market Share
In Cannabis Industry

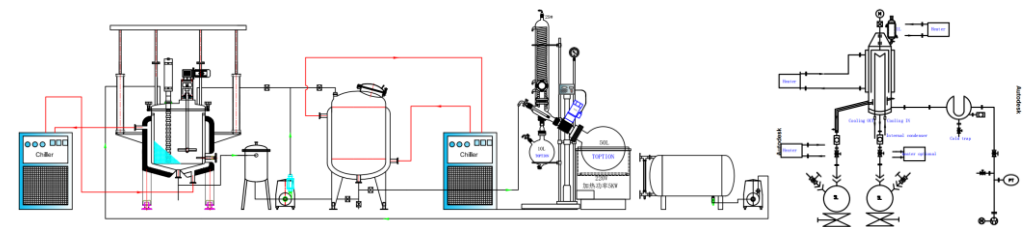
1. Supercritical Extraction

Supercritical extraction – dewaxing filtration system – concentration (suggest use scraped film equipment / rotary evaporator) – molecular distillation system



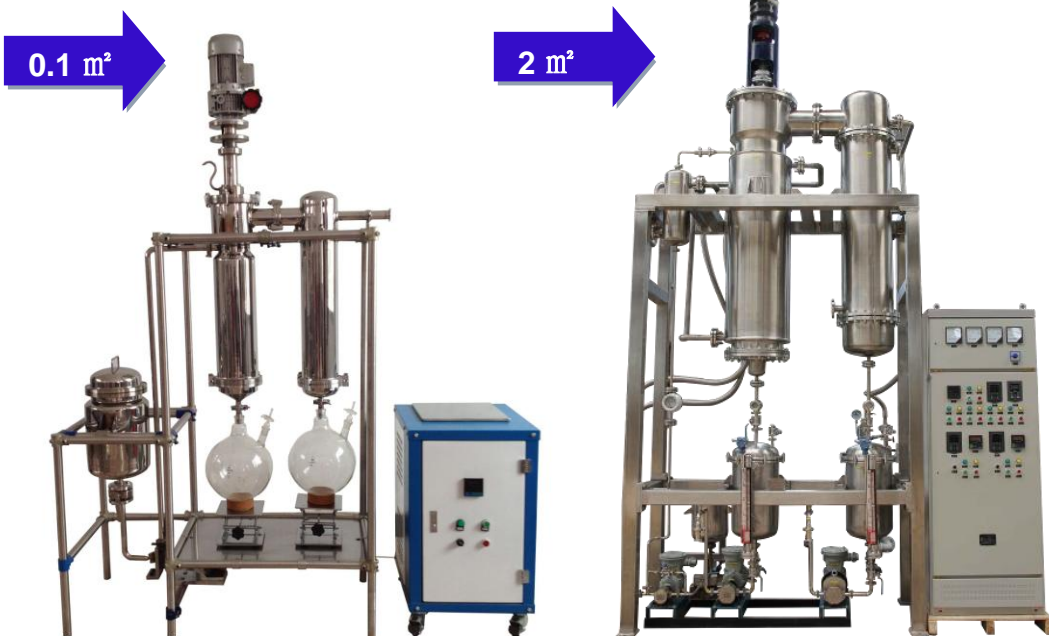
2. Solvent Extraction Method – Ultrasonic Extraction

Ultrasonic extraction – Multi union bag-type filter - Alcohol recovery – Scraper concentration / rotary evaporator concentration – molecular distillation system



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Wiped Film Evaporator – Solvent Removing High Efficient Type

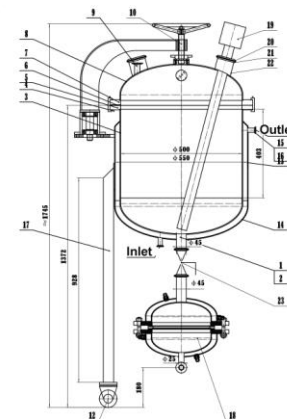


| Model | Evaporator Area(m ²) | Height (mm) | Capacity (L/H) |
|-----------|----------------------------------|-------------|----------------|
| PWFS -0.1 | 0.1 | 1200 | 2-10 |
| PWFS -0.2 | 0.2 | 1580 | 10-20 |
| PWFS -0.3 | 0.3 | 1980 | 15-30 |
| PWFS -0.5 | 0.5 | 2750 | 20-50 |
| PWFS -1.0 | 1.0 | 3350 | 50-100 |
| PWFS -2.0 | 2.0 | 4320 | 100-200 |
| PWFS -3.0 | 3.0 | 5100 | 100-300 |
| PWFS -4.0 | 4.0 | 5600 | 120-350 |
| PWFS -5.0 | 5.0 | 6000 | 150-405 |
| PWFS -6.0 | 6.0 | 6500 | 180-550 |
| PWFS -8.0 | 8.0 | 7230 | 250-750 |
| PWFS -10 | 10 | 7350 | 300-950 |

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Dewaxing Filtration Apparatus

Add reagents to melt CBD extract under high temperature, switch to low-temperature condition by temp. control equipment, to make a large amount of wax crystal precipitation. CBD oil is clear liquid oil, and then the CBD mixed cannabis oil is obtained through "pressure filtration".



Advantages

- Integrated design of dissolution, crystallization and filtration, save space & convenient operation.
- Use "insert pump", mix more evenly and extract CBD cleaner liquid more thoroughly.
- Pressure filtration is more thorough and does not waste CBD mixture.
- Provide good sample source to improve the production efficiency of back-end equipment.

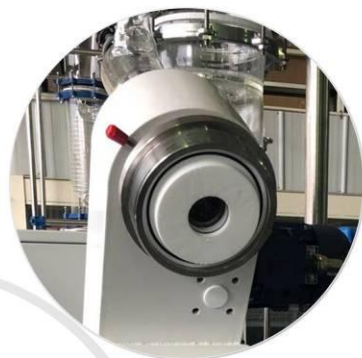
Rotary Evaporator - Solvent Removing Economical Type



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Rotary evaporator is mainly used in pharmaceutical, chemistry and bio-pharmaceuticals industries, for concentration, crystallization, drying, separation and solvent recovery. Especially suitable for the biological products concentration and purification which is easy to decompose deformation under high temperature.

100L



100L Evaporation Flask
Hydraulic Lifting



50L glass collection flask * 1pcs

10L glass collection flask * 1pcs



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| Model | Rotating bottle capacity (L) | Collecting bottle capacity (L) | Temp. range (°C) | Lifting method | Heating power |
|-----------|------------------------------|--------------------------------|------------------|----------------|---------------|
| RE-52AA | 0.5L | 0.5L | RT-99±0.2 | Electric lift | 1.1KW |
| RE-2000A | 2L | 1L | RT-99±0.2 | Electric lift | 1.5KW |
| RE-5000A | 5L | 3L | RT-99±0.2 | Electric lift | 2.2KW |
| RE-5210A | 10L | 5L | RT-99 (170) ±0.2 | Electric lift | 3KW |
| RE-5220A | 20L | 10L + 3L | RT-99 (170) ±0.2 | Electric lift | 5KW |
| RE-5230A | 30L | 10L + 10L | RT-99 (170) ±0.2 | Electric lift | 5KW |
| RE-5250A | 50L | 20L + 10L | RT-99(170) ±0.2 | Electric lift | 7KW |
| RE-52100A | 100L | 50L+10L | RT-99 (170)±0.2 | Electric lift | 16KW |



Believe TOPTION will be your TOP OPTION.

- Professional Customize.
- Global OEM.
- Welcome visit factory to negotiate.