

XI'AN TOPTION INSTRUMENT CO.,LTD

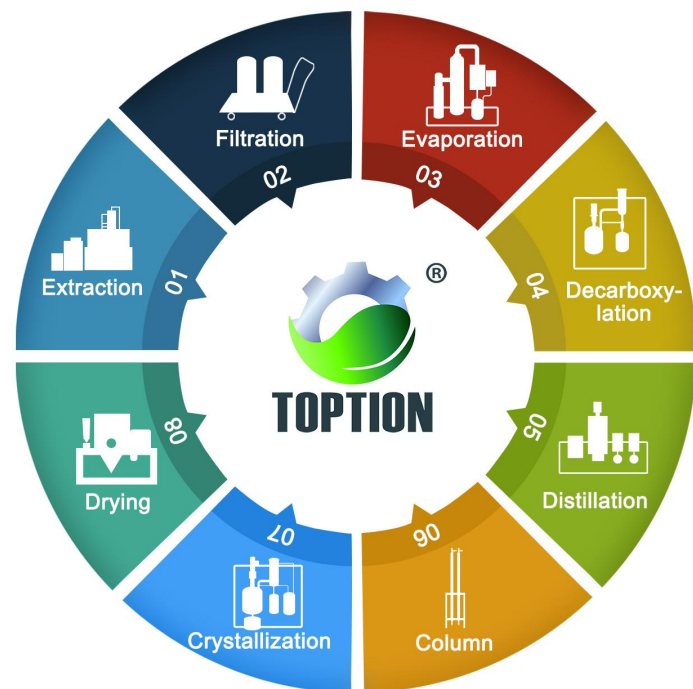
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XI'AN TOPTION INSTRUMENT CO.,LTD



Extraction | Distillation | Drying Solution

Quality Manufacturing 18 Years



TOPTION INSTRUMENT has spent 18+ years becoming a world leading manufacturer engaged in the research, development, production, sale and service of Extraction , distillation ,filtration ,drying & Pretreatment series equipment.

The headquartered is in Xi'an City, the ancient capital with 5000+ history; includes several production bases, own professional research and development team 25+ persons; the distillation production base is located in Xi'an, covering an area of 4040 m²; the drying and other production bases are located in southern China cities.

Since 2004 TOPTION'S equipment has been used and praised in many counties including United States, Canada, Poland, Spain, Italy, Sweden, Switzerland, Germany, France & Colombia. We are your dependable partner in distillation and drying industry, we are flexible, intelligent, and truly care about your benefits potential. We want your business to be remembered and welcomed by your customers.

TOPTION has passed ISO9001 & CE certification. We work closely with our clients to deliver a successful and extraordinary equipment, choose TOPTION to maximize your benefits.

TOPTION will be your TOP OPTION.



001-2016/ISO
Scope
Design and production of molecular
distillation and wiped film evaporators, etc.



CONTENTS

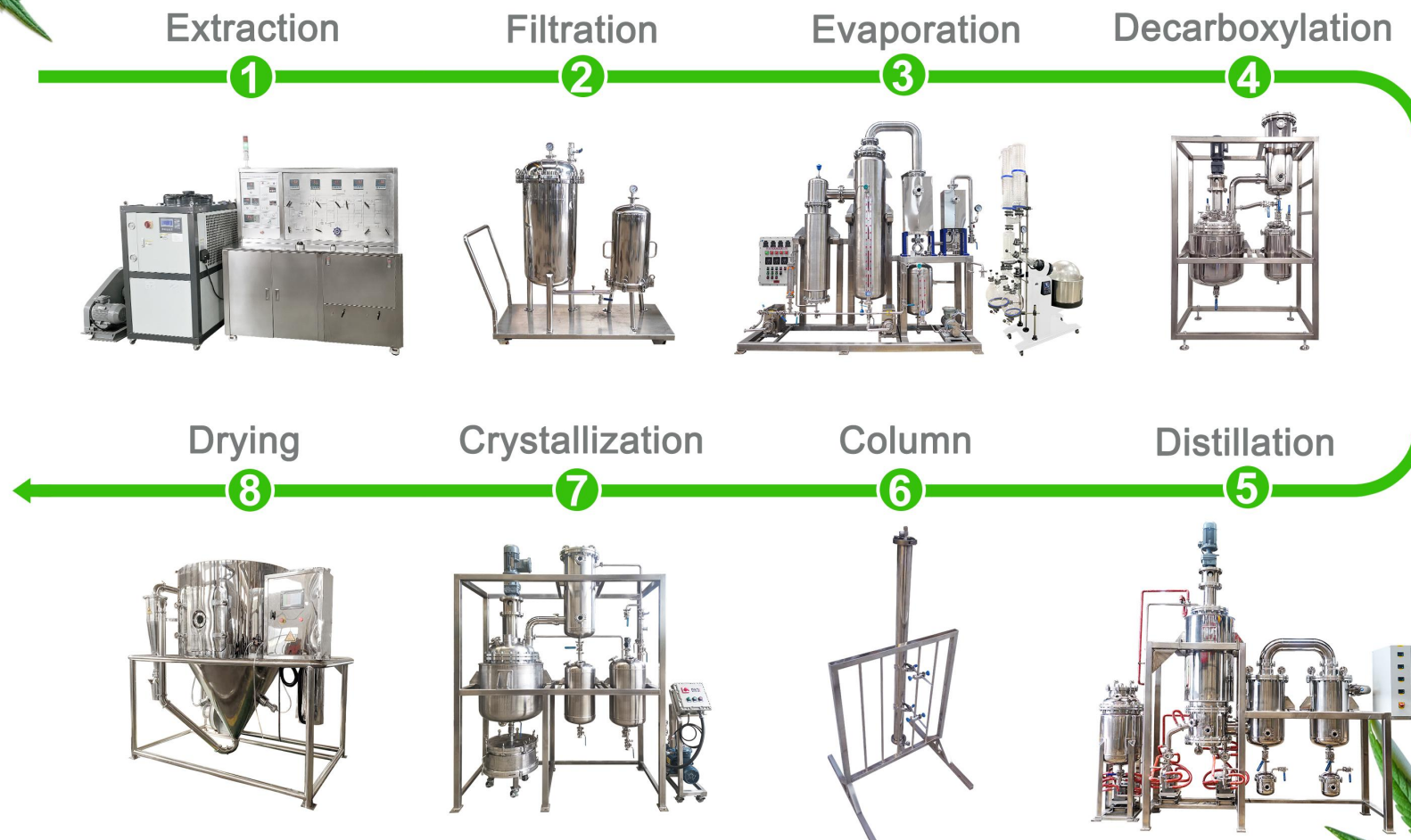
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Export Business
Quality Assurance
R & D Capacity
Production Flexibility
Company



Extraction | Distillation | Drying Solution



Supercritical Co2 Extraction



Technical parameter

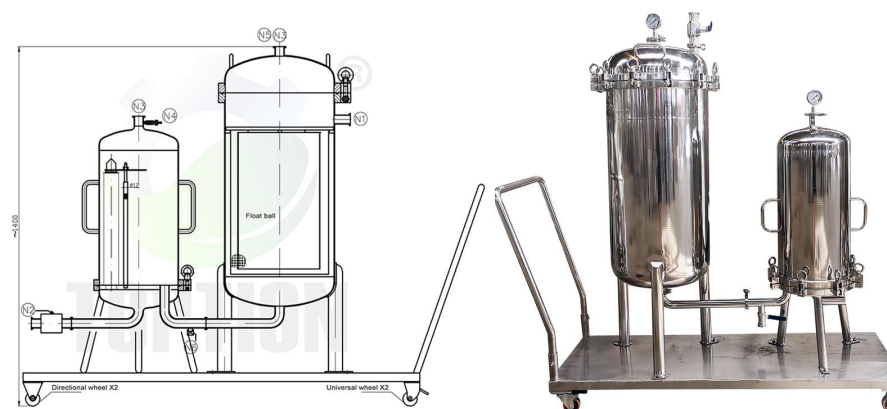
Model	Extract Capacity	Pressure	Temperature range	Combining form
TOP120-50-0.5	0.5L	500bar	RT-75°C	One extracting pot-two separating pot circulation mode
TOP120-50-01	1L	500bar	RT-75°C	One extracting pot-two separating pot one rectifying column circulation mode
TOP120-50-02	2L	500bar	RT-75°C	One extracting pot-two separating pot circulation mode
TOP120-50-05	5L	500bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP220-50-06	(5+1)L	500bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP220-40-11	(10+1)L	400bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP220-40-20	(10+10)L	400bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP120-40-24	24L	400bar	RT-75°C	One extracting pot-two separating pot circulation mode
TOP220-40-48	24L×2	400bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP420-40-96	24L×4	400bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP220-40-100	50L×2	400bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP320-40-150	50L×3	400bar	RT-75°C	Three extracting pot-two separating pot circulation mode
TOP420-40-200	50L×4	400bar	RT-75°C	Four extracting pot-two separating pot circulation mode
TOP220-40-200	100L×2	400bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP630-40-300	50L×6	400bar	RT-75°C	Six extracting pot-three separating pot circulation mode
TOP320-35-300	100L×3	350bar	RT-75°C	Three extracting pot-two separating pot circulation mode
TOP320-35-600	200L×3	350bar	RT-75°C	Three extracting pot-two separating pot circulation mode
TOP220-35-600	300L×2	350bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP220-35-1000	500L×2	350bar	RT-75°C	Two extracting pot-two separating pot circulation mode
TOP220-35-2000	1000L×2	350bar	RT-75°C	Two extracting pot-two separating pot circulation mode

Multistage bag filter

TOPTION bag & cartridge filter system is specifically used for deep fine filtration of plants crude oil after centrifugal extraction. The modular closed system has effectively solved Difficulties in the filtering process.

Product analysis

- This stacked filter system consists of three parts: a centrifugal pump, a bag filter, and a precision cartridge filter.



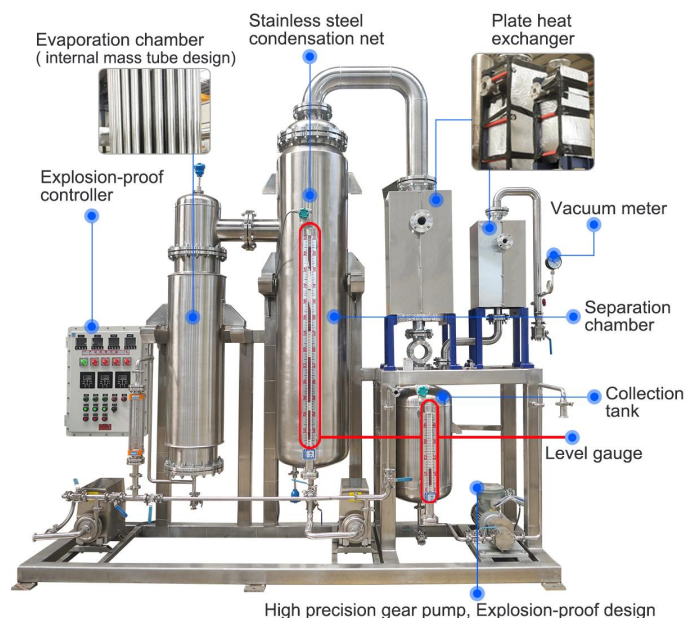
F120 bag & cartridge filter system

Technical parameters

Name	Inside the container
Design pressure (MPa)	0.8
Working pressure (MPa)	0.5
Operating temperature (°C)	80
Weld coefficient	0.85



Rising Film Evaporator



Technical parameters

Model	RFE-200L	RFE-400L
Evaporator	5m ² , SS304 material, steam and hot oil dual purpose, with 50mm heat insulation layer outside the cylinder	10m ² , SS304
Evaporation chamber	Φ400, volume 160L	Φ500, volume 260L
Condenser 1#	15m ² , plate heat exchanger, all stainless steel welded	20m ² , plate heat exchanger
Condenser 2#	5m ² , plate heat exchanger, all stainless steel welded	10m ² , plate heat exchanger
Storage tank	100L, with level transmitter	200L, with level transmitter
Feed pump	100-260L/h, magnetic drive, frequency conversion speed regulation	100-500L/h
Discharge pump 1#	100-260L/h, magnetic drive, frequency conversion speed regulation	100-500L/h
Discharge pump 2#	100-260L/h, magnetic drive, continuous output	100-400L/h
Storage tank	1000L, SS304 material	1000L, SS304 material
Pressure gauge with output	0~-0.1Mpa, adjustable pressure control range	0~-0.1Mpa, adjustable pressure control range
Electric valve	DN50, SS304	DN50, SS304
Flowmeter	DN20, 100-500 L/h	DN20, 100-500 L/h
Level gauge	Display liquid level and high liquid level alarm	Display liquid level and high liquid level alarm
Level Transmitter	Control the start & stop of discharge pump 2#	Control the start & stop of discharge pump 2#
Temperature measurement	Have	Have
Electric control box	Flameproof	Flameproof



Rotary Evaporator

• Solvent Removing Economical Type



(1L 2L 5L 10L 20L 50L 100L 200L Easily scalable)

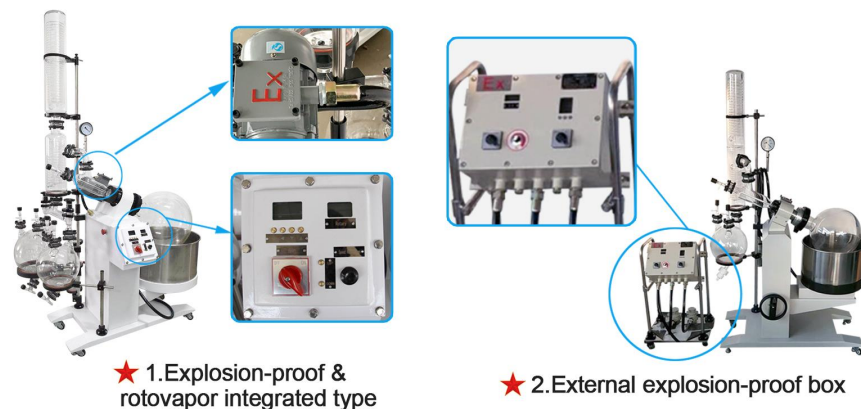
Rotary evaporator is mainly used in pharmaceutical, chemistry and bio-pharmaceuticals industries, for concentration, crystallization, drying, separation and solvent recovery.

Technical parameter

Model	Rotating bottle capacity (L)	Collecting bottle capacity (L)	Temperange (°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
RE-52200A	200L	50L+50L	RT-99 (170) ±0.2	Electric lift	30KW



Ex-plosion proof function customize



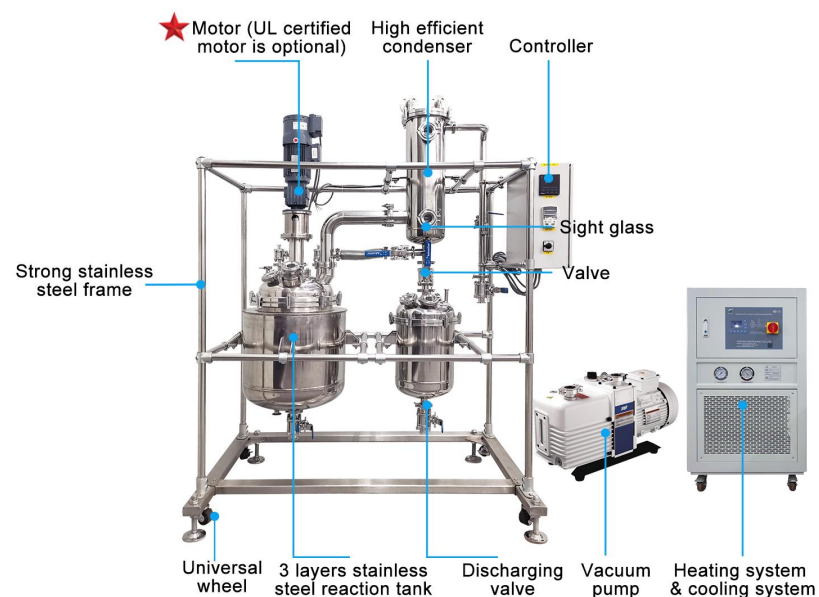
Technical support & flexible design



Decarboxylation



Product analysis



Technical parameter

Model	TDC-50L	TDC-100L	TDC-200L
Stirred reactor	Net volume 50L	Net volume 100L	Net volume 200L
	The part in contact with the material is S31603, and the rest is S30408		
	Magnetic drive, static sealing		
	Mixing power 750W, frequency conversion speed regulation	Stirring power 1.5KW, frequency conversion speed regulation	Stirring power 1.5KW, frequency conversion speed regulation
	The jacket is heated cyclically, with a 40mm heat insulation layer outside the jacket		
	Install pressure gauges and thermometers		
	One feed port, interface KF16, with one ball valve	One feed port, interface KF25, with one ball valve	One feed port, interface KF25, with one ball valve
	One gas protection port, interface KF16, with one ball valve	One gas protection port, interface KF25, with one ball valve	One gas protection port, interface KF25, with one ball valve
Condenser	Jacket inlet and outlet DN25	Jacket inlet and outlet DN25	One spare port, interface KF25, with one ball valve. Jacket inlet and outlet DN25
	Heat exchange area 1m ²	Heat exchange area 2m ²	Heat exchange area 3m ²
	Material S31603		
	Refrigerant import and export DN15		
Receiving tank	Volume 30L	Volume 50L	Volume 100L
	Material S31603		
	With observation window		
Electrical box	Non-explosion-proof, explosion-proof type is available		

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 feeding pump	Cooling system (-20°C~180°C or -40°C~RT or -80°C~RT)
Material discharging pump	Vacuum system (0.05pa / 1pa / 10pa)

Product parameters (Lab-Pilot-Industry wide capacity range)

Model	Evaporator Area (m ²)	Internal Condenser Area (m ²)	Capacity (L/h)	Mixing Motor Power (W)	External condenser + Cold trap
MDS-10	0.10 (5 Inch)	0.15	3-15	370W	1+1
MDS-20	0.20 (7 Inch)	0.40	5-25	370W	1+1
MDS-30	0.30 (8 Inch)	0.50	5-30	550W	1+1
MDS-50	0.50 (12 Inch)	2.00	10-50	1500W	1+1
MDS-100	1.00 (14 Inch)	3.00	30-200	3000W	1+1
MDS-200	2.00 (20 Inch)	5.00	30-260	3000W	1+1
MDS-500	5.00 (32 Inch)	10.00	50-300	4000W	1+1

(MDS-10~50 For Research, MDS-100 / 200 / 500 for production.)

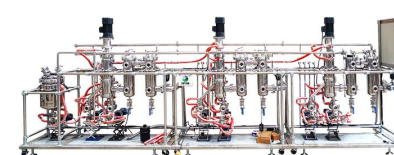
Product type

"C"(E) Series

- UL certified motor & controller are optional.
- Jacketed Stainless Steel Material Feeding Tank.
- Gear Pump Material Feeding Type.
- Gear Pump Collection Type.



MDS-10CE



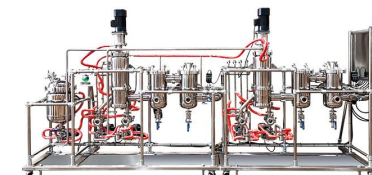
MDS-10CE three stages type



MDS-20CE



MDS-10A



MDS-30CE Two stages type



MDS-50CE



MDS-50CE



MDS-50CE



MDS-100CE



MDS-200CE

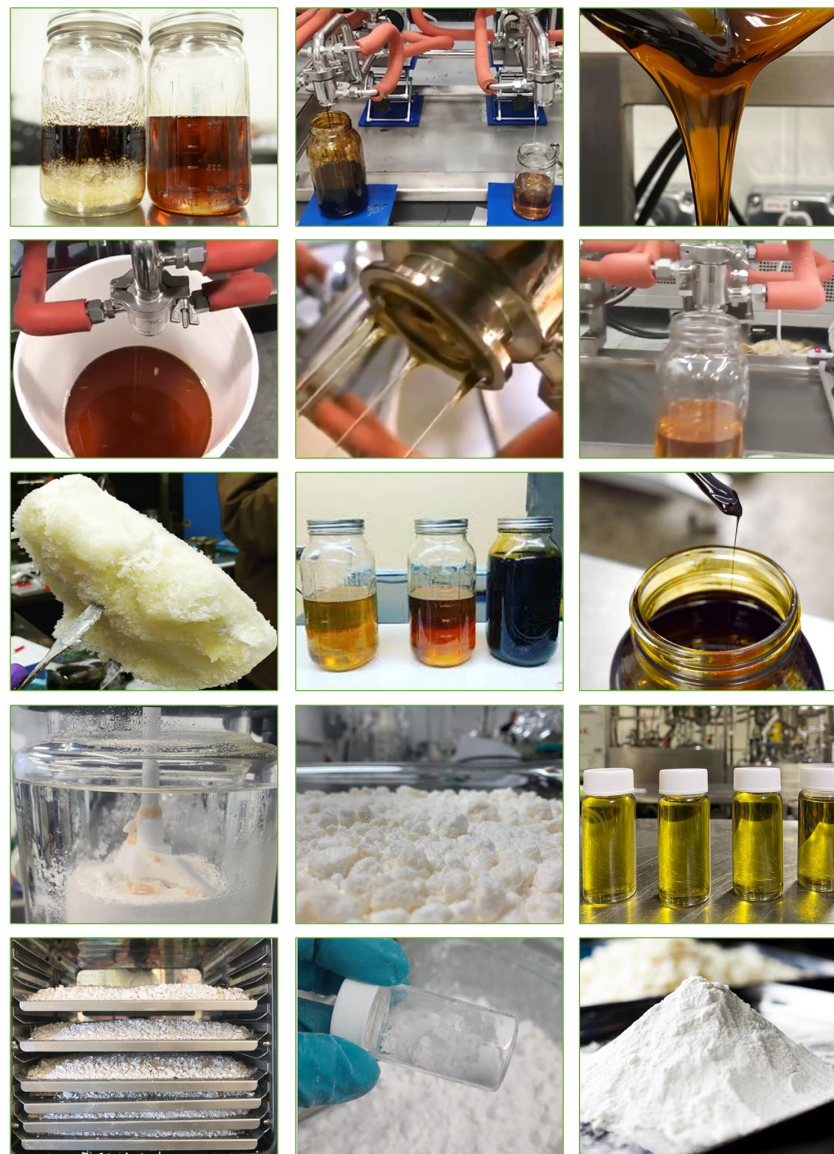
Heating System & Cooling System



Vacuum System-ultimate vacuum 10Pa,1Pa,0.05Pa
(UL certified pumps, EX vacuum pumps are optional)



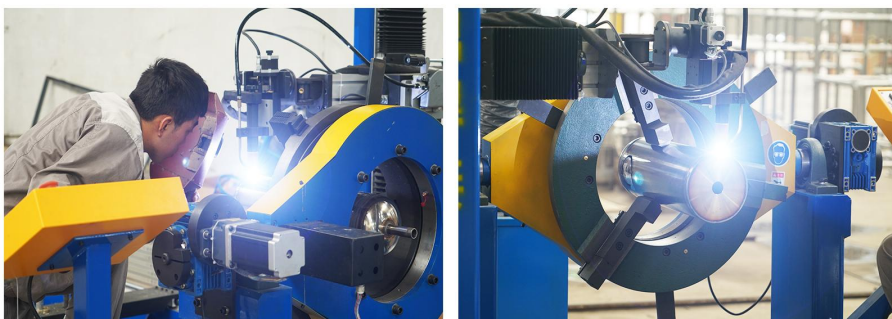
Customer case



Focus on detail reliable quality



Focus on detail reliable quality



Crystallization/Filtration to remove impurity



50L



100L



200L

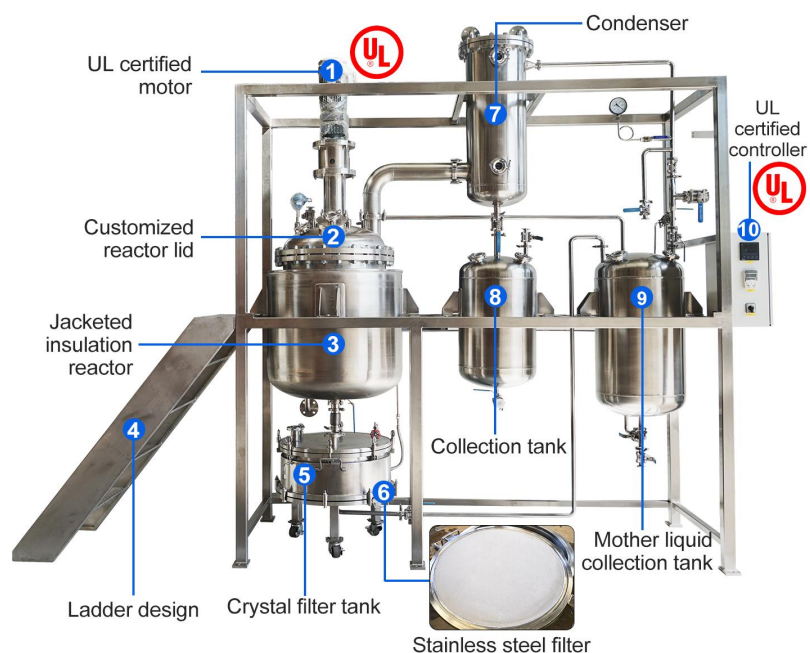


customized



customized

Product analysis



Technical parameter

Model	TCFR-50L	TCFR-100L	TCFR-200L
Stirred reactor	Net volume 50L	Net volume 100L	Net volume 200L
	Stainless steel 304		
	agnetic drive, static sealing		
	Mixing power 750W, frequency conversion speed regulation	Mixing power 1.5KW, frequency conversion speed regulation	Mixing power 1.5KW, frequency conversion speed regulation
	The jacket is cyclically heated, and the jacket is covered with a 70mm heat insulation layer		
	Install pressure gauges and thermometers		
	One feed port, interface KF16, with one ball valve	One feed port, interface KF25, with one ball valve	One feed port, interface KF25, with one ball valve
	One gas protection port, interface KF16, with one ball valve	One gas protection port, interface KF25, with one ball valve	One gas protection port, interface KF25, with one ball valve
	Jacket import and export DN25		
Condenser	Heat exchange area 1m ²	Heat exchange area 2m ²	Heat exchange area 3m ²
	Material S304	Material S304	Material S304
	Refrigerant import and export DN20		
Solvent tank	Volume 30L	Volume 50L	Volume 100L
	Material S304	Material S304	Material S304
	With sight glass	With sight glass	With sight glass
Mother liquor tank	Volume 30L	Volume 80L	Volume 150L
	Material S304	Material S304	Material S304
	With sight glass	With sight glass	With sight glass
Filter	Φ400×200(25L)	Φ500×200(40L)	Φ600×220(60L)
	50μm filter plate+ filter cloth		
	Vacuum insulation	Vacuum insulation	Vacuum insulation
Electrical box	Flameproof	Flameproof	Flameproof



Customer success case



Our
Factory

Exhibitions



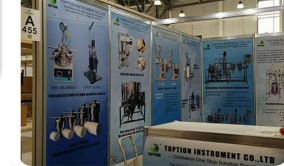
Marijuana
Business
MJBizCon



NCIA'S
CANNABIS
BUSINESS SUMMIT
& EXPO
SAN FRANCISCO, CA | MOSCONE CENTER
EDUCATION: JULY 20-22 | EXHIBITS: JULY 21-22



canna trade
International Cannabis Expo
BERNEXPO
20-22 May 2022
One stop solution of hemp oil processing equipment.



**ANALITIKA
EXPO**



2019 KOREA LAB 16-19 April
laboratory & Analytical Equipment KINTEX1, Hall4



**ASIA INTERNATIONAL
HEMP EXPO & FORUM** 2023
22-25 NOV 6 FLOOR QSIICC, BANGKOK THAILAND

Application field

- ★ Thermal separation of heat-sensitive compounds
- ★ Purification of organic synthetic substances
- ★ Separation of active ingredients in biological extract
- ★ Recycling of industrial waste
- ★ Removal of toxic substances in food industry
- ★ Decolorization and deodorization of organic compounds
- ★ High-precision removal of residual solvents in compounds

Customer success cases in these applications



Pharmaceuticals



CBD Oil



Fish oil



Waterproof materials for construction



waterproof coating



Epoxy resin purification



Resin type



Thickening agent



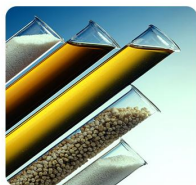
Liquid crystal materials



Color changing glass material



Waste oil treatment



Food additives



Essential oil



Incense oil



Clove oil



Garlic Essential Oil



Perfume



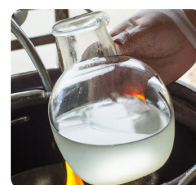
Lubricants



Plasticizer



Electronic chemical purification



Paraffin wax



Polymers demonomer



Purification of monoglycerides



Microcrystalline waxes



Fischer-Tropsch wax



Astaxanthin



Carotene



Capsaicin



Palm oil



Vitamin E



Insecticide



Pesticide purification