



Plant Extraction And Laboratory Equipment

PRODUCT CATALOG | Shanghai Better Industry Co., Ltd

- Supercritical CO2 extraction machines
- Essential oil steam distillation plants from 10L to 50L
- Winterization systems and low temperature ethanol extraction
- Counter flow and ultrasonic solvent extraction
- Rotary evaporators, glass reactors and short path distillers

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Shanghai Better Industry Co., Ltd

Qualified as a High-Tech Enterprise, Shanghai Better Industry has been developing steadily and at a fast pace. The head office is in Jiading District, Shanghai, 20km from Hongqiao high-speed railway station and Hongqiao airport and 60km from Pudong international airport.

Better Industry owns one factory for plant extraction systems and one factory for laboratory equipment, with a land area of 45,000 square metres. That covers six single-storey workshops, one high-rise office building and an independent two-storey R&D centre, with more than 170 skilled workers and engineers. The factory owns entirely independent intellectual property rights and has applied for 62 patents in total, including 11 invention patents.

Through more than 20 years of innovation, Better Industry supplies counter flow extraction systems, ultrasonic extraction systems, low temperature extraction systems, CO2 supercritical extractors with winterization, short path distillation and rotary evaporators, as well as drying machines, and provides customised turn-key solutions covering specific extraction process parameters, engineering design, equipment manufacturing and installation.



The factory site in Jiading District, Shanghai



Inside one of the six production workshops

45,000 m2

Land area, two factories

170+

Workers and engineers

62

Patents applied

0.5L - 200L

Standard machine range

Six Equipment Lines

CO2 Supercritical Fluid Extraction Equipment

Solvent-free extraction with food-grade CO2. One extractor, two separators, 50MPa design pressure, recycled CO2.

Specification note: Working pressure 50MPa, extraction temperature from ambient to 85°C, CO2 flow 0–50L/h, 3 phase 380V 50Hz.

Essential Oil Extraction Machine

Steam distillation plants from 10L to 50L for flowers, leaves, wood, citrus peel, resin and spice.

Specification note: Distillation pots from 10L to 50L, 4kW to 11kW installed power, 3 phase 380V 50Hz.

Normal and High Temperature Solvent Extraction Machine

Counter flow and ultrasonic assisted solvent extraction systems for herb and botanical actives.

Specification note: Configuration, tank volume and solvent recovery are engineered per project. Specifications are quoted against your material and batch size.

Winterization Machine

Whole winterization systems that chill, hold, filter and recover solvent to remove waxes and lipids from crude extract.

Specification note: Winterization systems are configured around your batch size, ethanol ratio and hold temperature. Specifications are quoted per project.

Low Temperature Ethanol Extraction Machine

Cold ethanol extraction systems operating down to -75°C so waxes and chlorophyll stay behind in the biomass.

Specification note: Systems are built around your daily biomass throughput, solvent ratio and recovery target. Specifications are quoted per project.

Laboratory Equipment

Rotary evaporators, jacketed glass reactors and short path distillers for trials, refining and pilot production.

Specification note: Jacketed glass reactor HGR-50: 50L, AC motor, water or oil recycling, -60 to 200°C, borosilicate glass 3.3 (GG-17).

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CO2 SUPERCRITICAL FLUID EXTRACTION EQUIPMENT

Supercritical CO2 Cinnamon Oil Extraction Machine

Model HSFE-5

A 5L supercritical fluid extraction system with one extractor and two separators, rated to 50MPa and up to 85°C, for solvent-free extraction of cinnamon oil and other botanical oils.

Model	HSFE-5
Extraction kettle	5L
Working pressure	50MPa
The flow of CO2	0~50L/h
Voltage	3 phase 380V 50HZ
Extraction temperature	Ambient temperature to 85°C

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CO2 SUPERCRITICAL FLUID EXTRACTION EQUIPMENT

Supercritical CO2 Neem Oil Extraction Machine

Model HSFE-10

A 10L supercritical fluid extraction system rated to 50MPa and 85°C, with one extractor and two separators, for solvent-free neem oil and other botanical extraction.

Model	HSFE-10
Extraction kettle	10L
Working pressure	50MPa
The flow of CO2	0~50L/h
Voltage	3 phase 380V 50HZ
Extraction temperature	Ambient temperature to 85°C

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ESSENTIAL OIL EXTRACTION MACHINE

Plant Essential Oil Extraction Equipment

Model HEC10

A compact steam distillation plant with a 4kW heater, 0.3m² heating area and 0.7m² condensing area, occupying about 1.5 square metres of floor space.

Model	HEC10
Power	4kW
Capacity	10
Condenser diameter	102
Heating area of extraction tank	0.3m ²
Condensing area of condenser	0.7m ²

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ESSENTIAL OIL EXTRACTION MACHINE

Jasmine Essential Oil Extract Machine 30L

Model EC30 / HEC30

A 30L steam distillation machine with 5.5kW heating, 0.33m² heating area and 0.72m² condensing area, built for jasmine and other delicate flower material.

Model	EC30 jasmine essential oil extract machine
Power	5.5KW (3 phase, 380v/50Hz)
Volume of distillation pot	30L (according to demand of customers)
Heating area of distillation pot	0.33M ²
Condensation area of condenser	0.72M ²
Power of heater	5.5KW



ESSENTIAL OIL EXTRACTION MACHINE

Lavender Essential Oil Extraction Machine

Model HEC50

The largest steam distillation plant in the range: a 50L pot with 11kW heating, 0.50m² heating area, 0.85m² condensing area and a separate 0.80m² cooling area.

Model	HEC50
Distilling pot	50L
Power	11kW
Heating area	0.50M ²
Condensing area	0.85M ²
Cooling area	0.80m ²
Power supply	380V/50HZ/3P



ESSENTIAL OIL EXTRACTION MACHINE

OEM ODM Pure Essential Citronella Oil Distillation Plant

Model HEC20

A 20L steam distillation plant with 4.5kW heating, 0.4m² heating area and 0.75m² condensing area, supplied on an OEM and ODM basis.

Model	HEC20
Power	4.5KW (3 phase, 380v/50Hz)
Volume of distillation pot	20L (according to demand of customers)
Heating area of distillation pot	0.4M ²
Condensation area of condenser	0.75M ²
Power of heater	4.5KW



LABORATORY EQUIPMENT

Jacketed Glass Reactor with Oil Bath for Heating

Model HGR-50

A 50L double-layer jacketed glass reactor in borosilicate 3.3 (GG-17), working from -60°C to 200°C with water or oil recycling in the jacket.

Mode	HGR-50
Volume	50L
Motor	AC Motor
Heating type	Water or oil recycling
Working temperature	-60 to 200°C
Glass material	Borosilicate Glass 3.3 (GG-17)

From Enquiry To Installation

1. Requirement analysis

Two things start every quotation: the raw material you will process, and the production capacity you need per batch. Everything else is engineered around those two answers.

2. Extraction trial

An extraction test can be run with your raw material. Videos and pictures of the trial are sent to you for reference before anything is built.

3. Process parameters

The trial defines the specific extraction process parameters: pressure, temperature, solvent ratio, cycle time and the separation stages.

4. Engineering design

The line is laid out around those parameters, the batch size and the space available in your building.

5. Manufacturing

Equipment is manufactured in the plant extraction factory. Every procedure and detail is inspected, which is why a supercritical CO2 machine takes around 60 workdays.

6. Assembly and testing

The machine is assembled and tested before packing, so it has already been run before it is crated.

7. Packing and shipping

Machines are packed in plywood cases for export.

8. Installation and training

Installation support and engineer training are provided on site, and online video guidance is available for smaller issues afterwards.

Contact

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