

Supercritical CO2 Extraction System

This supercritical CO2 extraction system extracts compounds from solid or liquid materials using supercritical carbon dioxide. It features a modular design with extraction vessels, separators, and a control system.



ADDITIONAL IMAGES



System Overview

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This professional-grade extraction system is designed for high-efficiency processing of essential oils and other valuable compounds. The fully integrated unit features a sophisticated modular design including extraction and separation vessels, high-pressure CO2 pumps, and an advanced chilling and heating network. Engineered for safety and precision, the system enables automated control and data logging to support pharmaceutical, food, and cosmetic industry standards.

Technical Features

Included Components

- Extraction Vessels
- Separation Vessels
- High Pressure CO2 Pump
- Chilling System
- Heating System
- Co-solvent Pump
- CO2 Storage Tank
- CO2 Recovery Pump
- Pressure Regulator Valves

Compliance & Safety

Safety Mechanisms

- Emergency stop buttons
- Pressure protection mechanisms
- Pressure relief valves
- Automatic shutdown mechanisms

Certifications

CE

Control & Monitoring

System Control

- Automated operation
- Data logging
- Independent temperature control
- Independent pressure control
- Digital process flow monitoring

Materials

Material Construction

Stainless steel components for durability and hygiene