

CUP-30

CENTRIFUGE UTILITY PLATFORM

Closed-Loop Alcohol Extraction System

The CUP-30 is a large capacity system that uses alcohol to extract your target compounds from various botanical materials. Utilizing the same technology as the original CUP-15 with programmable parameters, and a built in centrifuge, this system is the industry solution to scaleable extraction.



CUP-30 Advantages

98% Botanical Compound
Removal



97% Alcohol Removal



-40°C Low Temperature
Rating



- Closed-Loop System
- 3rd Party Engineer Reviewed
- UL Listed US/Canada
- 304 & 316L Sanitary Stainless Steel
- Vacuum Jacket Insulation
- Easy Material Loading/Unloading
- Bi-Directional Agitation
- Variable Speed Control
- Heavy-Duty Spin Drying
- 12 Month Parts/Labor Warranty
- Technical Support
- Made in USA

Product Overview

The CUP-30 combines closed loop alcohol extraction with centrifugal technology, ensuring consistent and convenient results by a single operator. A touch screen HMI features a menu with various agitation and spin-dry cycles, each of which is programmable to the operator's specifications. With a runtime of only 10-20 minutes and a throughput of approximately 600 lbs per 8-hour work day, this system will efficiently attain your processing goals.

Production Capacity



25-30 lbs

Plant material per batch
(depending on mill size)



15-20 min

Average Run Time
(depending on SOP)



25-30 gal.

Alcohol Requirement Per Run
(wash tincture can be used twice)

Standard Features

Vessel

- (1) Alcohol Feed Port: 1.5" Sanitary Triclamp Fittings
- (1) 1.5" Tri-clamp; Remote Discharge Vent and Pressure Relief Port
- 2" Tri-Clamp Angled Drain
- Liquid/Vapor Tight (No Pressure) Vessel with EPDM Lid Seal

Dimensions

- CUP-30: w/o Auxiliary Components (49" L x 27.5" W x 58.5" H)
- Main Control Panel: (24" L x 32" W x 54" H)
- Main Frame Weight: 890 lbs / 404 kg

Controls

- Industrial HazLoc Control Panel
- Touchscreen HMI
- 20ft Tethered Control Panel (Installed Outside of HazLoc)
- Emergency Stop
- Variable Frequency Drive: 0-1500 RPM

Electrical

- 230V, 30 amp, Three-Phase
- 5HP Motor
- UL-NEMA L15-30 Plug

Included Ancillary Equipment

(1) 30 Gallon Jacketed Stainless Steel Discharge Vessel

- Dimensions 30"L x 30"W x 24"H
- Weight x 114 lbs / 52 kg

(1) Master Control Panel

- Dimensions 24"L x 32"W x 54"H
- Weight x 50 lbs / 23 kg

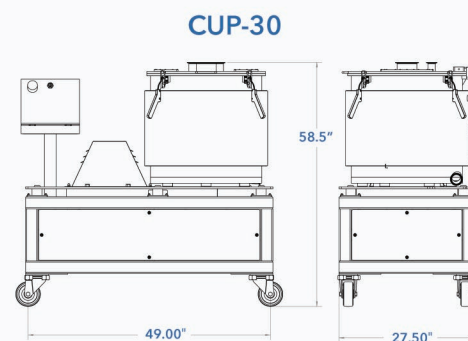
(1) Barrier Fluid Reservoir

- Dimensions - 39"L x 18"W x 56"H
- Weight x 113 lbs / 51 kg

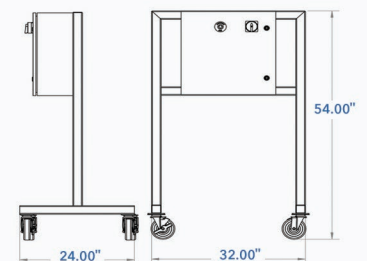
(10) Closed Mesh Extraction Bags

(1) 10' Hose

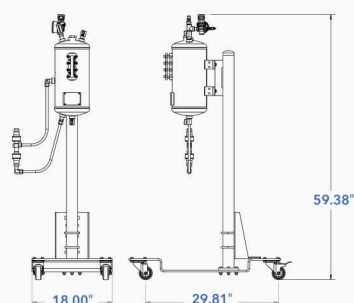
(1) 3' Hose



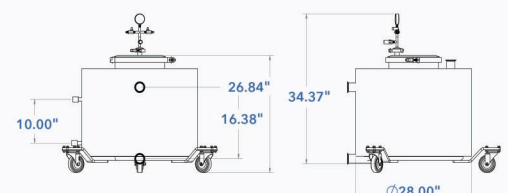
Main Control Panel



Barrier Fluid Reservoir



Discharge Vessel



Operation

Through the HMI, the operator may access 2 different programs: Agitation and Spin-dry. Each program has three cycle presets, two of which are programmable (will save long term) and one being manual (will not save long term). To begin, the operator fills a mesh bag with botanical material and places the bag in the system. After sealing the system properly, it is then filled with alcohol and agitated using the 'Agitation' program. When the 'Agitation' program is complete, the operator opens the drain valve allowing the saturated alcohol to drain into an appropriate discharge container. After draining, the operator may now select the 'Spin-Dry' program where the residual alcohol will be removed through centrifugal force.

1) Loading the System

A mesh bag is filled and packed evenly with botanical matter. The bag is then sealed with the zipper, and placed in the basket of the vessel.

2) Filling the System

The system is sealed and filled with approximately 30 gallons of alcohol, which may be done either pneumatically (with a pump + air compressor) or with gaseous nitrogen.

3) Agitation

The 'Agitation' program is chosen and the machine bi-directionally spins the basket with the botanical material and alcohol, extracting approximately 98% of the target compounds.

4) Draining

When the 'Agitation' program is complete, the drain valve is opened to allow the alcohol to drain into an appropriate discharge container.

5) Spin-Dry

Leaving the drain valve open, the 'Spin-dry' program is chosen and the basket is spun at high speeds to centrifugally remove approximately 97% of any residual alcohol.

6) System Unloading

Once the 'Spin-Dry' program is finished and the basket has completely stopped spinning, the lid may be opened and the bag removed. The botanical matter has now been stripped of its target compounds and may be disposed of properly.

7) Repeat

The system is loaded again and the same 30 gallons of alcohol may be re-used for multiple extractions until fully saturated (approximately 3 bags or 90 lbs).

