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D-27

MOLECULAR DISTILLATION





Molecular Distillation



D-27

ROLLED FILM DISTILLATION

92% Botanical Compound Removal 

95% Target Purity 

Ultra-High Volume Liquid Nitrogen Cold Trap 

The D-27 is a form of short-path distillation that uses UHV(Ultra-High Vacuum) levels to achieve molecular separation of the individual target cannabinoids from the crude oil. Using deep vac, controlled residence time and metered feed, a single-operator can produce high purity(90-95%) cannabinoid distillate.

Dimensions

67"L×24"W×77.54"H
(170cmL×61cmW×197cmH)

Total Amp Draw

60 amps
(Including ancillary equipment)

- Dry pumps included
- 3rd Party Engineer Reviewed
- 316L Sanitary Stainless Steel
- Optional diffusion and rotary vane pumps
- Easy material Loading/Unloading
- Utilizing dry pumps results in not getting water into your diffusion pump oil
- 12Month Parts/Labor Warranty
- Technical Support
- Designed in USA

D-27



Product Overview

The Rolled Film Distillation system utilizes rollers in contrast to wipers to increase evaporative surface and promote consistent operation. The stainless steel construction also allows for superior thermal properties in comparison to glass. A crude oil that has all of its residual solvents removed may be fed into the system at rates of 4-5 liters per hour to distill its remaining volatiles and terpenes. A second pass may also be performed on the botanical concentrate resulting in a high potency and visually appealing distillate.

Production Capacity



0.27m²

Evaporative surface area



4-5

Liters per hour



1

Single operator

Standard Features

Dimensions

- 67" L x 24" W x 77.54" H
(170 cm L x 61 cm W x 197 cm H)

Weight

- 600 lbs

Operational Footprint

- 10' L x 5' W x 9' H
(305 cm L x 152 cm W x 274 cm H)

Electrical Requirements

- 110v & 230v Single-Phase,
Full-Load-Amperage(FLA): 60

Vacuum System

- Turbo pump: 240 liters per second
- Roughing scroll pump:
12.7 m2 per hour

Roller Controller

- 100-240V, 1 amp, single-phase
- 1x NEMA 5-15 plug

Feed Pump

- 110V, 5 amps, single-phase,
50/60 Hz
- 1x NEMA 5-15 plug

Integrated Components

• ***Vacuum system***

- * Gauge Controls
- 100V-240V, 6 amps, single-phase,
50/60 Hz
- 1x NEMA 5-15
- * Vacuum Pump
- 100V-240V, 10/6 amps,
single-phase, 50/60 Hz
- 1x NEMA 5-15

• ***Heating and Cooling System***

- * Heater 1 - Evaporator
- 230V, 13 amps, single-phase,
50/60 Hz
- 1x NEMA 6-20 plug
- * Heater 2 - Feed Vessel
- 1kW, 230V, 9 amps, single-phase
- 1x NEMA 6-20 plug
- * Chiller - Condensor
- 230V, 16 amps, single-phase
- 1x NEMA 6-20 plug

What's Required

- Professional HVAC
Technician for heat
removal
- Licensed Electrician
- Heat Gun

