



fastfilter

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Infinity
Supercritical LLC

New Surplus and Extra Parts Available from Infinity Supercritical

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Infinity Supercritical has lots of extra components, parts, and fittings left over from our manufacturing shop. These include new and used liquid CO2 pumps, pressure fittings, collection vessels, and other items.

PDF Version of the webpage (first 10 pages)

This webpage QR code

<https://infinitysupercritical.com/fastfilter.html>

Fast Filter

Available for licensing (cad/cam build plans and license to sell).

Description of the Fast Filter:

If you currently use Buchner flasks, consider a Infinity Fast Filter System for dewaxing your winterized solution for more than 10 times faster than conventional filtering.

This is the perfect compliment to your botanical extraction system, whether it be hydrocarbons, ethanol, or supercritical CO₂.

We offer two sized systems which will handle any production from 5L pours, to over 10L pours in a few minutes.

The modular system includes everything you need to get started, including a vacuum pump, paper filters, and a fast filter system mounted in a cart frame with industrial casters, that can be easily moved by one person. The 5L system runs off of 110V and can be solar powered with an inverter for off-grid use. The 10L system is 110V but can be ordered as 220V 50 hz or 60 hz.

The Fast Filter System allows you to process more product, in less time, saving you valuable labor and giving you access to more profits.

- Industrial Cart with Casters (USA)
- Starter Kit Paper Filters (20 inch or 50 cm)
- Small Footprint 24x24x48 inches
- Self-contained System
- Plug and Play



Fast Filter Features

Features and Process:

- Different than Buchner: Fast filtering, can use variety of sorbents (paper, carbon, Zeolites, etc.). No glassware.
- Portable: Self-contained industrial cart-based system is mounted on casters. Roll anywhere.
- Cleaning: use ethanol to clean surfaces
- Construction: Industrial steel and food grade surfaces.
- Maintenance: Clean surface after use. Change gaskets as desired. Change filter after every pour.
- Vacuum: On-board vacuum included system.
- Filtrate (finished concentrate without wax): Collected in stainless collection vessel at bottom of cart. Use rotary evaporator to remove ethanol.
- Wax By-Product: Sell for cosmetics, consumer, surfboard wax, food coatings, polish, wood coating and end sealants, or making candles.
- Paper Filter: Discard after use. May use 20 inch or 50 cm diameter filters in 5, 10, 20+ microns.
- Other Filter Media: Carbon, zeolites, and other media.
- Containment Loading Vessel: 5 Liter. Feed rate .5 to 2 Liter per minute depending on wax density.
- Collection Vessel: Up to 10 Liters
- Winterizing Solution: Ethanol to concentrate 10:1
- Modular: 24x48 inch footprint caster beam cart
- Made in the USA.

Customer Testimonial:

We nicknamed it The Beast and it does a great job, we are really happy with the performance...



Fast Filter Wax Removal

The removal of wax from a winterized solution (botanical oil extraction that has been mixed with ethanol, and put into a freezer to separate wax) can be a time-consuming operation. These machines decrease the time and increase production.

This is especially important with industrial botanical extraction production, where plant wax needs to be removed.

Some systems can be used in the high-tech industry for Graphene.

This system can also be used for vacuum bagging (composites), vacuum forming, vacuum clamping, and other uses where a vacuum pump is needed.



Fast Filter Details

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Operation

Fast Filter Operation 5L and 10L Systems

Initial Setup

1. Check tip indicators and shock indicators
2. Remove fast filter from crate
3. Inspect for any damage that may have occurred
 - a. Photograph if any and contact Infinity Supercritical
4. Unpack and check contents of all internal packages
5. Move to desired operating location
6. Attach the small hose from the bottom of the filter dish to the center line of the collection container
7. Attach the long hose from the collection container to the vacuum pump
8. Lift the top handle over the cap of the collection container to create a seal
9. Check to be sure all 8 wing bolts on the filter dish are tightened
10. Plug in the system power cable. The Fast Filter requires standard single phase 110-120v power.

Operation

1. Place filter in the dish and use a spray bottle to wet the filter with desired solvent
2. Turn on the power switch
 - a. Machine vibration may occur
3. Pour 1L of extract and solvent over the filter
4. Turn off the power when extract has been pulled through the filter
5. Remove and discard the used filter
6. To continue filtration, repeat steps 1-4
 - a. Do not put more than 2 gallons of solution through the system without checking your collection container.
Overfilling the collection container can cause solution to be sucked into vacuum system and may cause damage.
7. With the vacuum system off, remove the lid from the collection container and transfer your filtered solution to
the next step in your refinement process
8. If desired, use a filter with a smaller micron size and filter your solution a second time to remove smaller wax particles.

Cleaning

1/14/2021 Components should be cleaned with ethanol















