



iO EXTRACTOR

A FULLY AUTOMATED
HYDROCARBON
EXTRACTION SOLUTION

BIOMASS TYPE	PROCESS TEMPERATURE	RUN TIME	CAPACITY	RUNS/DAY	TOTAL PROCESSED PER DAY
FRESH FROZEN	-65° F	40 MIN PER RUN	20 LBS/RUN	35 RUNS PER DAY ¹	700 LBS DAY
CURED	-65° F	55 MIN PER RUN	15 LBS/RUN	25 RUNS PER DAY ¹	375 LBS DAY

¹ Runs per day considers machine downtime for cleaning, maintenance, and loading new material

The IO is a fully automated BHO extraction system capable of processing 20lbs of fresh-frozen every 40 minutes. Its patented dual passive/active solvent recovery technique minimizes run times, and built-in automated process controls eliminate manual error. Effortlessly produce consistent top-shelf extracts run after run. Beyond being the only fully automated BHO extraction system, the IO represents a comprehensive solution that addresses critical industry challenges. Operator safety is paramount, demonstrated by the system's industry-first ventilation and gas-detection integrations. The IO's automated controls not only expedite training, facilitate recipe creation, and minimize labor costs, but the nitrogen assist feature also optimizes the extraction process. By enhancing solvent performance and throughput efficiency, this unique feature elevates the system's capabilities and the quality of the end products.



DESIGNED FOR SAFETY

Our commitment to safety is leading the extraction market to new standards. With emergency stop buttons, intrinsically safe circuits, and smartphone integrations between C1D1 Room and Extractor Control Systems for remote management and operation, IO offers safety features you can't find anywhere else.



AUTOMATION

The IO Extractor eliminate weeks or months of apprenticeship training required for manually controlled hydrocarbon systems, saving you on labor costs. More importantly, its pre-programmed recipe-monitoring system checks pressures and temperatures hundreds of times per second to remove the risk of operator error.



EASE OF OPERATION

At the press of a button, IO allows one lab technician to simultaneously manage multiple IO Extractor units and perform post-processing tasks, streamlining workflow in the lab. Processors can also utilize the Easy Access App to monitor the extraction from outside the lab.



QUALITY & YIELD

IO processes up to 15 lbs of dried material or 50 lbs of fresh-frozen material every 40 minutes. With a 55 minute and 40 minute cycle time, the cycle-to-cycle changeover time with IO is just 90 seconds. With mechanized precision, the IO Extractor produces consistent and quality extracts that consumers will expect of your brand, cycle after cycle.

VS

HYDROCARBON VS. CO2 EXTRACTION

Hydrocarbon-based solvent extraction produces a higher-quality end product rich in cannabinoids and terpenes. It's the only way to extract fresh-frozen material and has a significantly higher throughput than other extraction methods. BHO is the only true full-spectrum solution that can scale.

INSTALLATION + COMMISSIONING / After receiving an order, our Service and Support Technicians will walk you through our proven installation process with a full complement of support documentation and scheduled drawing reviews with your technical team and contractors. Luna's proven process culminates in two days of commissioning and training with your staff.

TRAINING / After completing our hands-on commissioning process, we continue with Luna's free onsite training after the system is installed and ready for operation. Free on-site training will be scheduled with the customer, covering operation, maintenance, cleaning, and basic troubleshooting.

WARRANTY / All Luna Technologies equipment is provided with a 1-year warranty.

CUSTOMER SUPPORT / Our white-glove customer care program is designed to support you every step of the way. Minimize downtime when problems arise with realtime support, giving us remote access to your equipment to ensure success. Internet connectivity allows the Luna Tech Support team to connect remotely to each IO or Oberon extractor for real-time troubleshooting.

PRODUCT TYPES BY EXTRACTION METHOD

Exclusive to BHO



LIVE RESIN



SAUCE



DIAMONDS



LIVE RESIN CARTRIDGE



HIGH PURITY TERPENES



99% PURITY ISOLATE

BHO/CO2/ETHANOL



SHATTER



DISTILLATE



CRUDE



FLAVORED VAPE CARTRIDGE

AUTOMATED CONTROLS

01/STRAIN SPECIFIC RECIPE OPTIMIZATION

Computer control of the entire extraction process allows users to fine-tune extraction recipes to maximize yield and efficiency. Complete with data logging for all process parameters, including temperatures, pressures, fluid levels, valve status, and more.

02/ELIMINATE OPERATOR ERROR

With a pre-programmed recipe monitoring pressures and temperatures hundreds of times per second, you can set it and "forget" it. There's virtually no risk of costly operator errors.

03/CONSISTENT PRODUCT QUALITY

Maintain product quality run after run with precise temperature control and chillers featuring industry-leading 12kW cooling.

04/OPERATOR TRAINING

Every operator is a master extraction artist after their first cycle! Automated controls eliminate weeks or months of apprenticeship training required for manually controlled BHO systems, allowing you to reduce training-related downtime.

MINIMIZE DOWNTIME

01/FILTER SLEEVE SYSTEM

Hot-swap pre-packed plant material filter bags for 90-second cycle-to-cycle turnaround time.

02/TOOL-FREE OPERATION

No need to unbolt collection pots, material columns, or hoses: IO is operated with two buttons and three hand-turn latches.

PureFlowN₂

Boosted productivity with PureFlowN₂. Speed up propane and butane capture while easing chiller workload. Inject super-chilled nitrogen into the solvent pump to eliminate any issues with overheating vapor, guaranteeing exceptional quality and maximum yield. Plus, this comes standard on all new IO's.



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