Cannabis Processing Expertise

Better Drying for Superior Cannabis Product Integrity
Cannabis processing includes multiple steps between harvest and shelf, and as the market becomes more competitive, deep knowledge in multiple areas becomes critical to success. Maximizing yield involves proper transport, drying, storage, oil extraction or flower drying.

To prevent loss of active materials, ensure safe storage and maximize yield, you’ll need expertise in three critical areas: **Cannabis, System Integration and Processing Equipment**. Putting all the knowledge together is where the combination of ABM Equipment, Kason and Marion Process Solutions stand out with deep experience in biomass processing and experience in working with multiple cannabis processors. We don’t just sell equipment: we make sure it works to each client’s full satisfaction in every single installation.

- Higher yield and higher quality
- Biomass, flower, and terpene processing
- Integration, installation and service
- Food/pharma grade equipment
- Made in the USA
**Extraction Biomass Dryer: Full Integration, High Throughput**

The Extraction Biomass Dryer processes 800-8000 pounds of biomass per hour, producing a consistent, high-quality output with 10% moisture content. The fully integrated system includes all five steps required between harvest and storage:

- Conveying
- Particle Size Reduction
- Drying
- Sorting
- Packaging

Based on Kason circular fluid-bed dryer technology, the Extraction Biomass Dryer operates at a precisely controlled low heat, completely eliminating the risk of discoloration of the hemp or damage to any of the active ingredients. It’s able to retain more CBD & THC than its tumbling predecessors by using heat as an evaporation accelerant rather than driver.

Additionally, the majority of lost trichomes and other volatiles are also captured and returned on batch-by-batch bases instead of accumulating on equipment or escaping into the environment.

By integrating several machines for conveyance, particle size reduction, sorting, and packaging the ABM solution eliminates integration guesswork or patching together multiple solutions.

**DRY MORE. SPEND LESS. RETAIN CBD.**
Microwave Technology

Don’t let your profits get hung out to dry... it can take weeks for the post-harvest processing of hemp or cannabis the old fashioned way. With WaveMix™, Marion’s microwave drying technology, you can go from wet to dry in under 180 minutes with maximum CBD retention. WaveMix gives you the ability to dry whole flowers and to push more product through, with sizes ranging from 600 to 3,000 lbs, allowing you to take your production to the next level.

Repeatable Results

When you need every batch to turn out the same, you need a machine designed to deliver predictable product. WaveMix gently removes moisture from hemp or cannabis by precisely applying consistent low-temperature thermal power. The uniform process prevents overheating or burning, unlocking your potential for maximum extraction. WaveMix puts you in full control of all the variables, resulting in higher quality product, harvest after harvest.

Experience Matters

While hemp and cannabis are emerging markets, Marion has been processing and drying products for more than 80 years. Using our insight to drive innovative technologies, we’ve been at the forefront of many industries, and our attentive customer service has delivered on even the highest of expectations. When you choose WaveMix, you begin a partnership with a company that not only stands behind our products, we stand beside our customers. Look to Marion Process Solutions to create a competitive advantage — for you.

- Superior CBD retention
- Process up to 3,000 lbs
- From wet to dry in 3 hours or less
- Made in the USA
Grow With Us

Mother Nature may have her own schedule, but with WaveMix, you can accelerate time. By drying up to 99.5% faster, this allows you move product through your facility almost as fast as it comes in from the fields. And, we help create even more opportunity for growth with a comparatively smaller equipment footprint and increased energy efficiency, which contribute to a lower total cost of ownership.

The Difference Is in the Details

Drying 3,000 lbs of hemp or cannabis in a matter of minutes might seem like magic, but there’s some serious science behind it. Depending on the size of WaveMix machine you choose, the variables will change. But the incredible outcome is always constant — perfectly dried product that is ready for extraction faster than ever before.

Specifications

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<th>60cf</th>
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<td>Maximum Machine Temp Degree F</td>
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<td>Electrical Requirements</td>
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<td>Final Dry Material Weight (10% moisture)</td>
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<td>Power Density (W/lb)</td>
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Hemp drying curve
WaveMix™ For Smokable Flower Drying

It can take weeks for the post-harvest processing of hemp or cannabis the old-fashioned way. With WaveMix™, Marion’s microwave drying technology, you can process buds and flowers at up to 1000 pounds per hour while maintaining all of their beauty, flavor, and potency.

By combining vacuum with microwave, the WaveMix removes moisture from hemp or cannabis by precisely and consistently applying low temperature for drying evenly and consistently, WaveMix puts you in full control of all the variables, resulting in higher quality product consistently, harvest after harvest.

TXM (Terp Xtract Master) Series™: Terpene Oil Separator

The TXM uses a combination of the WaveMix™ and a cold trap to create as solvent-free separation process for cannabinoid terpenes. The result is a clear, wide-spectrum terpene oil containing all of the active materials in the original plant, without color-changing contaminants. All equipment in the process is pharma-grade, ensuring complete safety of the end product. Sanitary finishes and welding provide the ability to quickly clean equipment between batches for use for different crops and mixes.

TXM can produce 1.5 pounds of material within 45 minutes, compare to 2 days using hang drying processes, at a lower operational cost than gas-powered steam drying. No post-processing is required and the quality of the oil is consistent on every batch, using the precision controls built into the microwave and vacuum technology.
Precision and Care Lead to Profits

Cannabis processing is a high-precision proposition. Better care and handling of material leads to higher yields and lower risks to growers and processors. The cannabis industry is still developing, and with more than 140 cannabinoids and 200 terpenes identified to date—science is just beginning to understand the multiple uses of these materials. Buying high-precision equipment now means that as the industry develops, you won’t be left with outdated equipment. With processing equipment that preserves the delicate nature of the product, you’ll always end up with high-grade oils and extracts that reliably replicate the attributes of the plant itself. Furthermore, with food and medical-grade equipment, you’re protected when it comes to regulation and sanitary requirements.