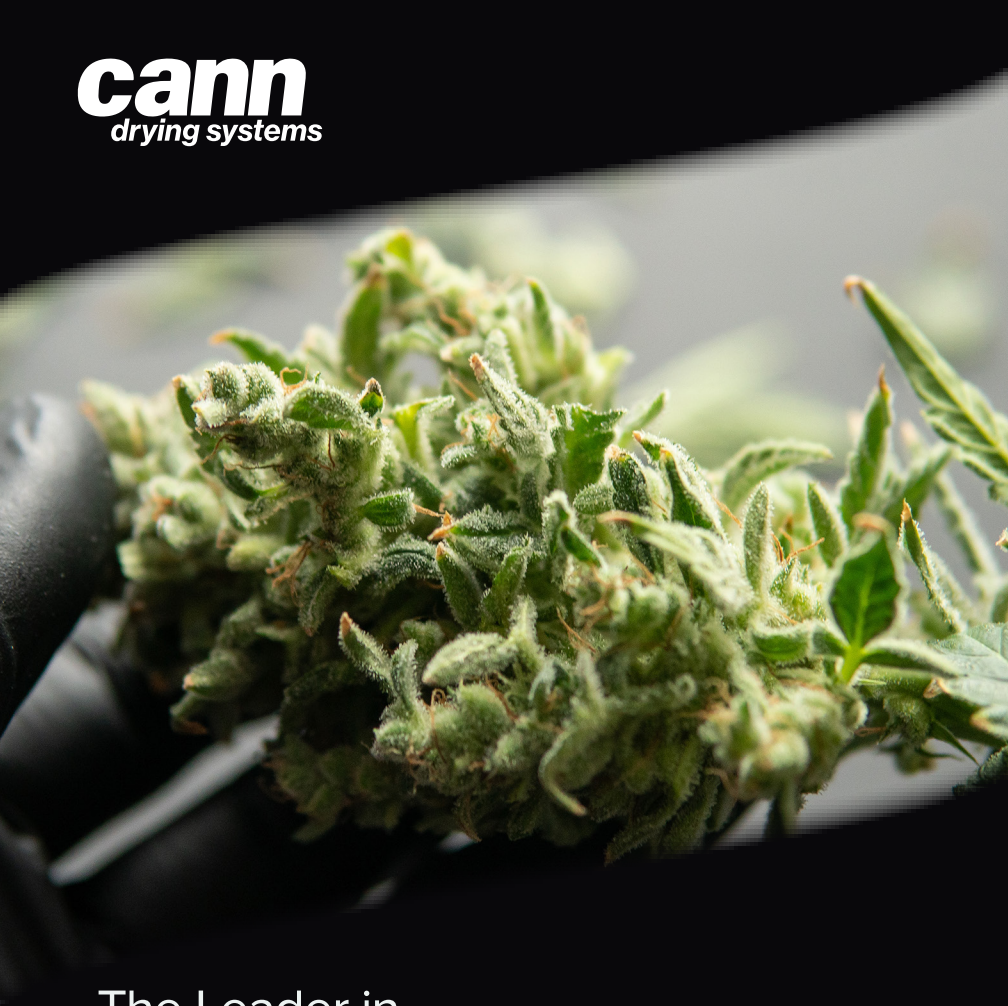
cann
drying systems



The Leader in

CANNABIS DRYING AND CURING EQUIPMENT

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ABOUT US

In the past decade, the cannabis and hemp industries have seen a tremendous amount of innovation in almost every aspect of the post-harvest process. Despite all the automation occurring in the industry - nearly 90% of commercial cannabis operations continue to dry & cure the same way the industry has since the pre-legalization days!

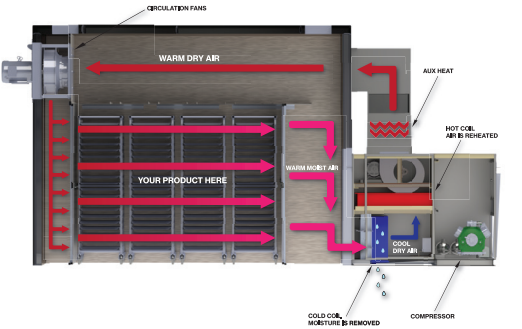
In 2017, Cann Drying Systems was founded specifically to develop automated drying & curing solutions for the Cannabis and Hemp industries so that you, the cultivator, can worry less and grow more.

We adapted technologies and principles that our parent company developed from 40+ years of experience manufacturing drying solutions for the food and lumber industries and tailored those to the highly specific needs of cannabis cultivators. Our focus on quality, energy efficiency, and post-install support has seen us grow exponentially in a few short years. We have gone from providing solutions to quality-focused boutique growers in the U.S. & Canada to building the largest drying facilities in the world in the European & South American markets.

Whatever the size of your operation, we are equipped with the knowledge and experience to provide you with the automated drying solutions to help you focus on growing your business.

HOW IT WORKS

Our CDS dryers utilize a fully enclosed chamber fit with an energy-efficient heat pump dehumidification system and laminar airflow components to precisely control the drying process. This results in a gentle and even dry throughout the entire chamber - allowing for optimized preservation of trichomes, terpenes, and cannabinoids throughout the process.



Air temperature, relative humidity, fan speed, and target flower moisture are set to the desired level. Air then begins circulating evenly over the product absorbing moisture. Rather than being exhausted, the moist air is drawn over a coil condenser. The air is then cooled and the moisture is converted to a liquid state and collected - along with any captured terpenes. This allows the user to recapture the typical terpene loss that occurs during any drying process while still allowing the natural breakdown of chlorophyll.

The now cool, dry air is then drawn over a heating coil to meet setpoints before being recirculated back over the wet flower product in the chamber. The cycle continues until the flower has achieved the desired flower moisture content.

During the entire dying cycle, the operator is able to adjust all environmental controls via a touchscreen PLC control panel as well as remotely via smartphone, tablet, or whatever device of choice. All in all, the use of a closed-loop chamber system results in better control of environmental conditions, more consistent end results, and significantly less energy usage.

CAPABILITIES & APPLICATIONS

Cann Drying Systems has the design expertise, industry-specific knowledge, and logistical capability to design, build, and install your perfect drying & curing system anywhere in the world.

During a consultation with one of our experts, we carefully select the right system for your operation, whether you are growing indoors or outdoors, or whether drying for high-quality flower, for extraction, , or a mix of both. Cann Drying Systems can design the perfect system to take the guesswork and stress out of the drying & curing process.

Drying for High-Quality Flower

- Temp: 60° - 68° F (15°- 20°C)
- RH: Moderate (55%-65%)
- Low Air Speed (5%-15%)
- Ability to cure with auto-cure kit

Drying for Extraction

- Temp: - 80°-90°F (27°-32°C)
- RH: Low (45%-55%)
- Medium Air Speed (15%-25%)
- Ability to recapture terpenes for use in finished extract products

CANN DRYING SYSTEMS STANDS FOR:

Cann Drying Systems maintains a culture that blends traditional values like a commitment to quality and long-term customer relations, with forward-facing values such as innovation and sustainability.

Quality

All of the products we manufacture are built with the highest quality materials and craftsmanship to ensure the lowest long-term cost of ownership to our customers. Our commitment to sourcing the most durable, energy-efficient components from environmentally ethical sources help us deliver our customers the best products in the industry.

Long-Term Relationships

At Cann Systems we want our customers to know we are there for them for the long-haul. Our commitment does not stop at the sale. We work hand-in-hand to understand our customer's needs

and help them fine-tune our solutions as the market continues to evolve and customers' needs change. Our high percentage of repeat customers is rooted in our continual commitment to our customers' ongoing success.

Customer Support

When you choose to work with us - you're not just committing to best-in-class equipment - but also the highest quality customer support as well. Our definition of support goes beyond just the functionality of the product. We are always available to help you optimize our systems for any application. We are not only committed to your growth - we are committed to growing with you.

Innovation

We are always looking for ways to increase the value proposition to the greater cannabis industry and our customers. Our innovation process is never-ending; at Cann Systems, we are constantly implementing new technological innovations to our systems to advance the industry and make our customers' lives easier. Our goal is to allow you to focus on what you do best.

Energy Efficiency

At Cann Drying Systems, we are a global citizen above all else, and we stand firm in our commitment to the environment. Our products are the most energy-efficient on the market. This allows our customers to have lower operating costs and a smaller carbon footprint while operating all year round.

Made in the USA

All Cann Drying Systems' products are manufactured and supported here in the USA. Manufacturing entirely in the USA is not always easy, but our rapid growth & success is living proof that American ingenuity is alive and well.

CASE STUDIES

Canada - Christina Lakes Cannabis Corp

Capacity (wet): 16,500 lbs per batch (7,490 kg)

Model: Three (3) CDS 145 DH Units with Air Distribution Components (Designed into Existing Dry Room)

End-Purpose: Extraction

"Very few, if any, products have the scale of the amount of terpenes that these things have the ability to capture...with the Cann Drying system, we can catch very large amounts of very high-quality terpenes." - Nicco DeHann, COO

Uruguay

Capacity (wet): 79,300 lbs per batch (36,000 kg)

Model: Nine (9) CDS 225 DH Units with Drying Chambers (Complete System)

End-Purpose: High Quality Flower & Extraction

Italy - Veridia

Capacity (wet): 17,600 lbs per batch (8,000 kg)

Model: Two (2) CDS 225 DH Units with Drying Chambers (Complete System)

End-Purpose: High Quality Flower & Extraction

United States - NightCap Hemp

Capacity (wet): 1,800 lbs per batch (816 kg)

Model: One (1) CDS 60 DH Unit with Drying Chamber (Complete System)

End-Purpose: High Quality Flower & Extraction

Switzerland

Capacity (wet): 1,200 lbs per batch (546 kg)

Model: Three (3) CDS 10 DH Units with Drying Chambers (Complete System)

End-Purpose: High Quality Flower & Extraction

Macedonia - Eurokan

Capacity (wet): 900 lbs per batch (408 kg)

Model: One (1) CDS 24 DH Unit with Drying Chamber (Complete System)

End-Purpose: High Quality Flower & Extraction

PRODUCTS & SERVICES

Cann Systems' CDS line of complete turn-key systems offers top-of-the-line components in one easy-to-use system that can take your drying and curing process from weeks to a Few short days. Our closed-loop drying & curing chambers can precisely control your environmental conditions utilizing many of the standard drying practices used in the industry today

We also provide our customers with industry-leading service. Our field & engineering teams offer support from installation and setup training to ongoing preventative and corrective maintenance.

Standard Equipment Features

- Precision environmental controls to ensure consistent Temp, RH, & Laminar Airflow
- Cloud-based controls let you operate from the touch-screen PLC or remotely via desktop or mobile device
- Setpoint data logging for analyses
- Ability to recapture terpenes
- Washable Food-Grade Interior & Air Purification Components
- GMP/CE Safety Compliant
- Made in the USA

CDS SERIES: TURNKEY DRYING & CURING SYSTEMS:

Cann Drying Systems understands that every cultivation operation is unique. That's why we offer the right-sized solution for every job.

We offer turnkey automated solutions for every sized operation, for the small craft grower to the largest commercial operators in the world. From 220 lbs of flower to 7600 lbs per batch

All of our solutions offer the same top-of-the-line components and features whether your operation is focused on high-quality flower, extraction, or a mix of both.

All of our turnkey CDS systems offer complete, integrated systems that include the most energy-efficient dehumidification unit on the market, laminar air handling components, cloud-based controls, terpene recapture capabilities, and insulated chambers ideal for new "Design & Build" projects.

CDS 225

Unit Specifications

Temperature Range

60° F - 120° F
(15° C - 49° C)

Water Removal Rate

225 lbs/ hr
(102 kg/hr)

Power Options (V/ Φ / Hz)

208-220/240/3/60.
380/3/50, 480/3/60,
575/3/60

Learn more about The CDS 225

Perfect for The Largest Grows

The CDS-225 can remove up to 225 lbs of water per hour and is available in a 138 rack configuration. Perfect for flower or extraction, the 138 rack chamber dries up to 7,600 lbs (3,450 kg) of wet material per batch. Multiple machines are required to meet the drying needs of the largest grows in the world.

Features

- » Precise control over Temp, RH, & Laminar Airflow ensuring a gentle, even dry
- » Remote Cloud-Based Controls
- » Setpoint data logging for analyses
- » Terpene Capture
- » Washable Food-Grade Interior & Airflow Components
- » GMP/CE Safety Compliant

CDS 145

Perfect for Large Sized Grows

The CDS-145 can remove up to 145 lbs of water per hour and is available in a 44 or 138 rack configuration. Perfect for extraction, the 44 rack chamber can dry up to 2,450 lbs (1,100 kg), while the larger 138 rack chamber dries up to 7,600 lbs (3,450 kg) of wet flower per batch.

Features

- » Precise control over Temp, RH, & Laminar Airflow ensuring a gentle, even dry
- » Remote Cloud-Based Controls
- » Setpoint data logging for analyses
- » Terpene Capture
- » Washable Food-Grade Interior & Airflow Components
- » GMP/CE Safety Compliant

Unit Specifications

Temperature Range

60° F - 120° F
(15° C - 49° C)

Water Removal Rate

145 lbs/ hr
(66 kg/hr)

Power Options (V/ Φ / Hz)

208-220/240/3/60, 380/3/50, 480/3/60, 575/3/60

Learn more about The CDS 145

CDS 60

Unit Specifications

Temperature Range

60° F - 120° F
(15° C - 49° C)

Water Removal Rate

60 lbs/ hr
(27 kg/hr)

Power Options (V/ Φ / Hz)

208-220/240/3/60, 380/3/50, 480/3/60, 575/3/60

Learn more about The CDS 60

Perfect for Mid-sized Grows

The CDS-60 can remove up to 60 lbs of water per hour and is available in an 18 or 36 rack configuration. Perfect for extraction, the 18 rack chamber can dry up to 990 lbs (450 kg), while the large 36 rack chamber dries up to 1980 lbs (900 kg) of wet flower per batch.

Features

- » Precise control over Temp, RH, & Laminar Airflow ensuring a gentle, even dry
- » Remote Cloud-Based Controls
- » Setpoint data logging for analyses
- » Terpene Capture
- » Washable Food-Grade Interior & Airflow Components
- » GMP/CE Safety Compliant

CDS 24

Perfect for Small Grows

One of our mid-sized systems, the CDS-24, can remove up to 24 lbs of water per hour. The CDS-24's chamber configuration comes in 8 or 18 rack options. The 8 rack chamber is perfect for extraction and capable of drying up to 440 lbs (200 kg) of material, while the 18 rack chamber gives you the capacity of 990 lbs (450 kg) of wet flower per batch.

Features

- » Precise control over Temp, RH, & Laminar Airflow ensuring a gentle, even dry
- » Remote Cloud-Based Controls
- » Setpoint data logging for analyses
- » Terpene Capture
- » Washable Food-Grade Interior & Airflow Components
- » GMP/CE Safety Compliant

Unit Specifications

Temperature Range

60° F - 120° F
(15° C - 49° C)

Water Removal Rate

24 lbs/ hr
(11 kg/hr)

Power Options (V/ Φ / Hz)

208-220/240/1/60,
208-220/240/3/60,
380/3/50, 480/3/60.
575/3/60

Learn more about The CDS 24

CDS 10

Unit Specifications

Temperature Range

60° F - 120° F
(15° C - 49° C)

Water Removal Rate

10 lbs/ hr
(4.5 kg/hr)

Power Options (V/ Φ / Hz)

208-220/240/1/50,
208-220/240/1/60

Learn more about The CDS 10

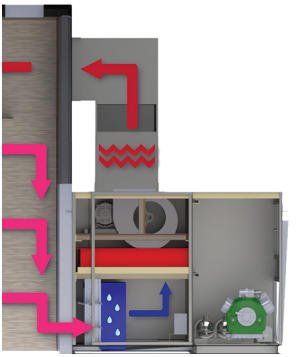
Our Smallest Drying System

The CDS-10 is capable of removing up to 10 lbs of water per hour. Available in a 4 or 8 rack chamber option, this system can dry for flower or extraction. The smaller four rack chamber is perfect for extraction and capable of drying up to 220 lbs (100 kg) of material, while the eight rack chamber doubles the capacity to 440 lbs (200 kg) of flower per batch.

Features

- » Precise control over Temp, RH, & Laminar Airflow ensuring a gentle, even dry
- » Remote Cloud-Based Controls
- » Setpoint data logging for analyses
- » Terpene Capture
- » Washable Food-Grade Interior & Airflow Components
- » GMP/CE Safety Compliant

ADDED FEATURES



Terpene Recapture

All of our CDS chamber systems (as well as our component installs into existing dry rooms) allow for reclaiming the typical terpene loss from the standard drying process. These terpenes are typically discarded via HVAC systems in a standard dry room setup.

Our heat-pump based dehumidification system contains cooling coils that condense the terpene-rich moisture coming off the flower and converts it into a liquid state. This terpene and water mixture is then collected - which the operator can then use in high-value extract and vape products.

Benefits:

» Prevent unwanted attention from neighbors & security threats.

» Maximize total terpenes: both on-plant and reclaimed from dry cycle.

» Turn terpene loss from drying into a value-add revenue stream

Hang & Tray Rack Options

Whether you prefer to wet-trim your harvest and dry on trays or you prefer to dry-trim and hang your unmanicured flower during your dry cycle, we have options for you.

We work with best-in-class partners that hold the same food-grade quality standards that we do. We developed ongoing relationships with our preferred vendors to ensure you receive the best pricing available for the best quality components on the market.

Auto-Cure Kit

The auto-cure kit allows customers to convert their drying chamber into a curing system without handling the product between cycles. Upon

request, Cann can install an automated intake and exhaust damper with HEPA grade charcoal filters. This allows the chamber to convert to a precision controlled curing system capable of mimicking the industry standard “burping” process of chamber air exchange. The ease of allowing your flower to remain in the drying chamber throughout the dry & cure cycles reduces risk of contamination as well as any need for additional labor.

Then

Now

Features of the system include:

» Auto-regulating DH system in curing cycle to ensure precise environmental conditions

» Auto “burping” function allows user to set daily air exchange schedules

» Intake air is HEPA filtered, preventing unwanted contaminants from entering chamber

» Exhaust air is charcoal filtered, removing unwanted odors from entering exterior of chamber

UV-C Microbial Mitigation System

Our drying system can now be made available with an EPA tested UV-C Light Microbial Mitigation System that actively disinfects the coil and airflow systems from the spread of common contaminants such as powdery mildew, penicillium, botrytis, and other microbials. Features of the system include:

» UV-C system can disinfect 95%+ of contaminants each hour the system is running

» Studies have shown an 83% reduction in powdery mildew from the use of UV light systems, saving potential spread and loss of crop

» Cleansed air can help enrich terpenes and enhance overall aroma

» Improves overall heat transfer energy efficiency by eliminating biofilm from coils

UPGRADE YOUR EXISTING DRY ROOM:

At Cann Drying Systems, we aim to provide the best drying and curing solutions for every cultivator and every scenario. That's why we offer the same high-quality individual components that we use in our CDS line as modular components to outfit your existing dry and cure room(s).

Dehumidification Units

» Energy-efficient heat pump
» Rated for any sized operation (10-225 lbs of water removed per hour)
» Ability to recapture terpenes

Air Handling

» Custom designed to each room
» Laminar airflow distribution components
» Energy-efficient circulation fans
» Reverse airflow capability

Controls

» PLC with cloud-based controls for remote capability
» Setpoints for Temp, RH, Fan Speed
» Can be integrated into existing controls

Accessories

» Hanging or Tray Racking Options
» Instrumentation to gauge ambient temp, RH, and on-plant moisture

Contact Us Today
FOR A FREE CONSULTATION

GOOD MANUFACTURING GMP PRACTICE

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