



## WHY DRY & CURE WITH FREEZE DRYING?

Welcome to a Revolutionary Method for Drying and Curing Cannabis and Hemp in 24-48 Hours with our Crop-to-Cure Technology®

### HOW IS CANNABIS & HEMP FREEZE DRIED?

The basic principle of freeze drying cannabis or hemp is the removal of water from cannabis as water vapor through sublimation. With the biomass solidly frozen during the process, and under a deep vacuum, shrinkage is eliminated, and near perfect preservation will result. This process is also known as lyophilization.

### HANG DRIED VS. FREEZE DRIED

When you traditionally hang dry and cure a cannabis or hemp plant for 2 to 4 weeks, the enzymes that cause plant senescence deteriorate as they act on the chlorophyll. That is why it takes so long to get rid of the “green” or grassy taste. In freeze drying, all the cell walls are opened so it is easy for the biomass to absorb moisture from the air.

When freeze dried cannabis comes out of the freeze dryer and is in an oxygen rich atmosphere, the oxygen, moisture, plus enzymes, which are still 100% potent, will cause degradation of the chlorophyll in 1-4 hours (pending humidity), and give you a product that is cured as if it were traditionally dried and cured in a fraction of the time.

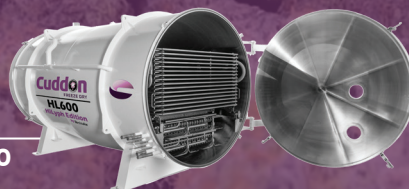
### CUDDON FREEZE DRY EQUIPMENT

We proudly work with Cuddon Freeze Dry, the world leader in commercial lyophilization solutions, to design the new Resinator-exclusive HiLyph models which are specifically engineered for cannabis and hemp applications. These extremely advanced freeze dryers use CO2 refrigerant which is very environmentally friendly and has zero ozone depletion potential alongside a GWP rating of only 1.

**CRYO-TRIM® + LYOPHILIZATION = CROP-TO-CURE® IN 24-48<sup>HRS</sup>**



HL50



HL600



HL1200

#### Traditional Dried Test Results:

Total Cannabinoids:  
**24.03%**

Total THC:  
**20.74%**



Strain: Lemon Cherry Gelato

#### Live Dried Test Results:

Total Cannabinoids:  
**27.46%**

Total THC:  
**23.17%**



SCAN TO  
LEARN  
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# WHY SHOULD I FREEZE DRY MY CANNABIS?

## FASTER DRYING & CURING

You will obtain consistent, reliable results, while automating the drying and curing process. Experience revolutionary drying and curing times in 24-48 hours per batch.

## PRESERVATION

Preserve more cannabinoids and terpenes including THC, CBD, CBN, CBG, and CBC than any other drying method.

## POTENCY & ADDED VALUE

More potent than traditionally dried and cured products with enhanced quality distinction allows for higher retail price point and direct to market benefits vs. traditional practices. Our Crop-to-Cure® method maintains potency with no degradation of terpenes resulting in better fragrance and taste while seeing an average of 10 to 15% increase in total cannabinoids, allowing for a premium product markup and increased revenue.

## USER EXPERIENCE

Freeze drying cannabis prevents deterioration of THC-A, which when decarboxylated, converts into Delta-9 THC, and CBN, the cannabinoid responsible for making users feel drowsy to lethargic.

## RETENTION

The biomass retains its shape, size, color, and fragrance with ZERO shrinkage. When stored properly in airtight containers, shelf life can exceed 1 year. Gain larger yield retention through loss prevention, increasing your bottom line.

## SAVINGS

Alleviates the cost of large, expensive curing and drying rooms. Realize a considerable decrease in utility fees and facility maintenance while saving time and money through labor cost reduction.

## STOPS MOLD & PESTS GROWTH

Deep vacuum through lyophilization reduces the possibility of mold, mildew, bud rot, and pest contamination.

## ODOR CONTROL

During the drying process the product is locked in a sealed container and under vacuum. This provides odor control which can limit safety and security concerns.

## CAPACITY

Cuddon HiLyph edition freeze dryers come in four models and range in throughput from 16 to 330 finished, dry pounds per day from a single unit.

**CONTACT US TODAY TO LEARN HOW CROP-TO-CURE® CAN REVOLUTIONIZE YOUR OPERATION.**



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