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## CANNABIS DRYING CHAMBERS: MJ SERIES

The rapidly expanding industry of cannabis cultivation has led to inquiries regarding controlled environment chambers for processes in this field. Darwin Chambers provides chambers designed for the replicable drying of cannabis. The drying process is critical to maintaining proper levels of cannabinoids and preventing mold and mildew.

Darwin Chambers manufactures and installs drying chambers that can control temperature, air flow, additive humidity, and dehumidification at programmed (ramped) levels. This enables lot to lot consistency whether the drying happens in humid, coastal areas or dry, high altitude areas. Product can also be stored long term with precise levels of humidity to prevent mold or brittleness.

### Benefits of Controlled and Stable Drying

Generally, it is recommended to keep the drying temperature between 16 and 21°C because many terpenoids (molecules that are partially responsible for the psychoactive effects but also largely responsible for the odor of the plant) evaporate at temperatures beyond 21°C. Non-programmed drying humidity levels should generally be between 45-55%. Higher humidity levels are associated with mold. Lower humidity levels tend to dry the products too quickly. If the plant material dries too quickly, some of the chlorophyll will fail to be converted which will result in a sub-optimal taste and a harsher smoke when combusted and inhaled.

While some customers will follow the above guidelines, others will want to program increased drying at some times and/or more humidity toward the end of drying using the microprocessor's programming features.

Controls: All controls/instrumentation and sensors are calibrated to NIST-traceable standards. Chamber features microprocessor controller with PID, Auto tuning, programmable (hi/lo) alarms, ability to ramp/soak, process variable and set-point variable offset, dual display of actual and set-point temperature and humidity.

Touchpad Control System: Touchpad controls temperature and humidity combines all of the features of typical loop controllers, video/chart recorders and data logging systems into a single, intuitive device. Unit is designed for specifically for chambers. Touchpad provides a 4.3" color touch screen interface with standard, user configurable, runtime features for single, dual or 3-loop control applications. Integrated LAN features include email, SMS (text messaging) on alarm, FTP (file transfer protocol for automated file transfer/data backup), remote access (web and VNC embedded servers) and national time server time synchronization are standard.



### Standard Chamber Features

- Touchscreen Control Interface with customer programmed automation
- Exceptional Temperature And Humidity Uniformity
- High / Low Alarms
- Corrosive Resistant Equipment
- Complies With NSF Standards
- Pre-tested, Pre-charged Refrigeration Systems
- Dehumidification - Humidification - Ventilation
- Air Filtration
- Energy Efficient Offering Lowered Maintenance Costs
- Back wall plenum

### Optional Chamber Features

- Insulated Viewing Windows in Doors or Walls
- Shelving and Curing Racks
- Extended Temperature And Humidity Ranges
- Stainless Steel / Special Surfaces
- Added Redundancy in Controls and/or Conditioning system
- Custom Lighting Systems
- Unlimited Door / View Window Sizing
- Glass Door



Tech support available via video call! ~