



C Ū R P O D S Y S T E M



The CūrPod System is a hermetically sealed enclosure with a stainless steel base and a clear molded cover that sits in a channel for perfect sealing. It has a capacity for approximately 20 pounds of product in four standard 15.5 x 23.5 x 7.75 inch plastic crates.

- ▣ No Guessing
- ▣ No Labor
- ▣ No Burping
- ▣ Automatic Operation
- ▣ No Recordkeeping
- ▣ Full Data Recording

Each pod is self-contained with built in Oxygen, Carbon Dioxide, temperature and Relative Humidity sensors with digital communications to a central operating panel. Built in control valves and gauges regulate the connected Nitrogen, Air, or CO2 supply to accurately maintain the programmed levels. A patent-pending respiration technology automatically indicates dry and cure status.

- ▣ Customize & control Oxygen level
- ▣ Perfect your curing process for consistent flavor time and again
- ▣ Preserve product with high N levels for up to 12 months
- ▣ Stock pre rolls for up to 12 months with fresh drop flavor

F E A T U R E S

- ▣ Patent-Pending Dry Cure Status using Respiration Data
- ▣ Expands on Our Patented Technology - U.S. Patent No. 8739694, Canadian Patent No. CA2746152 for Large Dry Rooms
- ▣ Self-Contained Control of Low O2 Atmosphere for Long Term Holding
- ▣ Built-In High-Resolution Gas Analysers
- ▣ Automatic Operation & Full Data Recording
- ▣ Moisture Sensors for Precise & Consistent Moisture Content in Final Product (*Coming Soon*)
- ▣ Hydrate Dry Product
- ▣ Introduce Terpenes

The central operating panel supports from 1 to 32 CūrPods which can be mixed between standard CūrPod and CūrPod minis and all the settings are made from this panel through its touch screen or remotely from a PC computer connected through a network. The measured data is regularly collected and can be displayed on a program that runs on the PC and can be exported to Excel or other common programs.

- ▣ Breakdown chlorophyll and sugars, not terpenes
- ▣ More time growing; less time curing
- ▣ Reduce microbial contamination
- ▣ Increase average cost per pound
- ▣ Easily maintain fresh drop flavor for up to 12 months
- ▣ Consistent cure process



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C Ū R P O D S Y S T E M

F E A T U R E S & S P E C I F I C A T I O N S

MEASUREMENT & CONTROL RANGE

Oxygen: 0-25% or 0-2.5% Auto range Resolution: low range +/- 0.002% O₂ Electrochemical 4-year long life sensor
Carbon Dioxide: Two options at purchase, 0-50000 ppm or 0-20% CO₂ Resolution: < 5% 0.002% >5% 0.02%

CONTROL INPUTS

Control Gases required: Nitrogen with an oxygen content lower than minimum required CA Oxygen.
Fresh Filtered Air. CO₂ if required. Gas supply inlet pressure 1 to 3 Bar (15 to 50 psi)

Automatic atmosphere control with included solenoids.

Control Setpoints for Oxygen and CO₂ adjustable to a 0.01% resolution. Gas control differentials 0.05%, CO₂ add differential 0.2%.

Air added when Oxygen is measured low: Air flow adjustable 0.1 to 1 L/min

Nitrogen added when Oxygen is measured high or when CO₂ is high. Adjustable flow 0.2 to 2 L/min

CO₂ (if connected) added when CO₂ is low. Adjustable flow 20 to 200 mL/min.

Additional flow rate adjustable from controller from 100% to 1% of maximum flow over a 5 minute period.

CO₂ scrubber for CO₂ control.

Descant tube for Humidity Control.

RESPIRATION & RQ MEASUREMENT

Automatic frequency of measurement, adjustable from 10 to 999 hours

OPERATION OF INTERNAL FAN

ON when control gases being added. With no gas addition, adjustable over range 1 to 299 seconds every 300 seconds.

TEMPERATURE MEASUREMENT

Probe with a typical accuracy of 0.1°C available for measuring and recording the product temperature

ANALYSER CALIBRATION

Zero stability typically better than 0.05% over 12 months

Automatic barometric pressure compensation for span calibration

Remote calibration possible from operating panel.

Sampling port available for atmosphere sampling with a portable standard analyser and for Ethylene and volatile measurement

PRESSURE RELIEF

The flow of correction gases into the CūrPod are automatically discharged to atmosphere through a vent.

ELECTRICAL CONNECTION

One multicore cable for CAN data connection and 24v operational power. Connector & wall mounted termination box provided with each LabPod.

CENTRAL OPERATION PANEL

5.7inch touch screen display. Capacity for up to 32 CūrPod connections. 24v power supply for the system included in Panel.

Additional power supply needed for greater than 16 CūrPods. The controller has a standard Ethernet connection with a dedicated IP address. Remote client and PC software provided for PC operation.

Continuous readout of gas and temperature and operational status. Access to all control settings. Remote analyser calibration protected with a passcode. Settings for empty volume and product weight for respiration rate calculations

DATA COLLECTION

O₂, CO₂ and temperature recorded every hour together with most recent RQ and respiration results. Results stored on CF card in PLC and on hard disk of connected PC. Can be displayed on PC in Graphical and tabular formats and exported in various formats including Excel, Word and pdf.

LEAKTIGHTNESS

Oxygen at typically 1% in a static LabPod (no produce, no correcting gas) will remain within 0.1% O₂ over a period of 24 hours.

DIMENSIONS

135 x 84 x 70 cm high Weight 46 Kg. Empty volume 379L Pull down time to 2% Oxygen with N₂ at 5 L/min is 4 Hours.

Capacity: 4 x RPC crates (Typical Single RPC size: 40 x 60 x 20 cm, 17 Kg capacity)

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