



G C P A G R O W R O O M S



Product Detail in Patent Pending GC Pressure Atmosphere Grow Rooms



GC PA Grow Room w/ GC Gastight Door & IMP Gastight Envelope

At Grow Controlled LLC, we are always looking for ways to improve and implement the best growing practices. Historically, cannabis products have grown very well in mountainous regions. With modern technology, our patent-pending GCPA grow rooms can simulate those higher altitude growing environments by simply reducing the oxygen level around the plants, letting them exhale as easily as they do in the mountains.

When altering the oxygen, our in-house laboratory trials where the only variable is available oxygen (14% vs 21% O₂) have proven to yield 18-20% more flower production. We continue to push the cannabis plant into higher production by using automated control of oxygen and carbon dioxide levels. The possibilities also exist to alter light cycles, which allows for substantial energy savings, or even the ability to squeeze in an extra grow cycle every couple of years. These patent-pending pressure atmosphere concept and GC PA grow rooms enhance the production, decrease microbial activity, and offer quick payback for the extra steps needed to complete the GC PA process.

Ultimately, we are reducing the partial pressure on the plants by simulating the atmosphere of a higher altitude, thereby allowing the plant to breathe easier and create more flower. Creating a gastight room envelope is key to economically and reliably replicating these conditions. Our proprietary GrowTight Doors and GC Advantage IMP sealing methods completely isolate the growing environment. Our refrigeration systems using reheat coils also effectively regulate humidity without the need for traditional dehumidifiers. With our GC KiloWatch controlling all of these parameters, GC PA grow rooms deliver not only a yield and quality increase, but cleaner, consistent product.

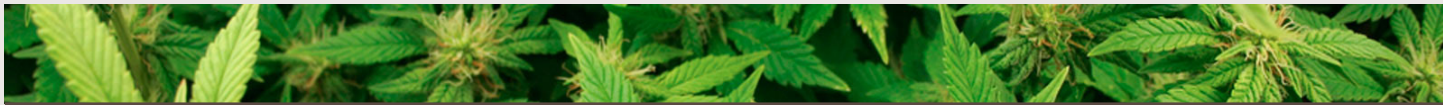
F E A T U R E S

- ▣ Patent-Pending GC PA Grow Room Technology
- ▣ Increased Yield and Consistency with GC PA Grow Rooms
- ▣ Oxygen-Reduced Rooms to Simulate Higher Altitude Growing
- ▣ GC Advantage GC Gastight Seal System on IMP Room Envelope
- ▣ GC Gastight Doors with Egress Hatches
- ▣ Oxygen, Carbon Dioxide, RH, Temperature, and Lighting Control
- ▣ GC KiloWatch for Automation and Remote Access

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ALTITUDE TO OXYGEN CHART

The chart below shows how the oxygen and air pressure levels can change at different elevations. The combination of the difference in available oxygen levels and related atmospheric pressures, left uncompensated, can result in differing growth results.

ALTITUDE (ft)	ALTITUDE (m)	OXYGEN LEVEL (%)	BAROMETER (inHg)	SIMILAR LOCATION
SEA LEVEL	SEA LEVEL	20.9	29.9	STANDARD/BASE READING
1000	304	20.1	28.9	GC HEADQUARTERS
2000	609	19.4	27.8	
3000	914	18.6	26.8	CHAMONIX, FRANCE
4000	1219	17.9	25.8	SALT LAKE CITY, UTAH
5000	1524	17.3	24.9	BOULDER, COLORADO
6000	1828	16.6	24.0	STANLEY, IDAHO
7000	2133	16.0	23.1	FLAGSTAFF, ARIZONA
8000	2438	15.4	22.2	ASPEN, COLORADO
9000	2743	14.8	21.4	HUMBOLDT COUNTY, CALIFORNIA
10000	3048	14.3	20.6	LEADVILLE, COLORADO
11000	3352	13.7	19.8	CUSCO, PERU
12000	3657	13.2	19.0	LA PAZ, BOLIVIA
13000	3962	12.7	18.3	
14000	4267	12.3	17.6	PIKES PEAK, COLORADO
15000	4572	11.8	16.9	MOUNT RAINIER, WASHINGTON
16000	4876	11.4	16.2	
17000	5181	11.0	15.6	MOUNT EVEREST BASE CAMP, NEPAL
18000	5486	10.5	14.9	
19000	5791	10.1	14.3	MOUNT KILIMANJARO, TANZANIA
20000	6096	9.7	13.7	MOUNT DENALI, ALASKA
21000	6400	9.4	13.1	
22000	6705	9.0	12.6	
23000	7010	8.7	12.1	ACONCAGUA, ARGENTINA
24000	7315	8.4	11.6	
25000	7620	8.1	11.1	HINDU KUSH, PAKISTAN
26000	7924	7.8	10.6	
27000	8229	7.5	10.1	CHO OYU, TIBET
28000	8534	7.2	9.5	K2, PAKISTAN
29000	8839	6.9	8.9	MOUNT EVEREST, NEPAL

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