



## LIQUID NITROGEN DOSING

### CHALLENGE

- Inert for oxygen reduction
- Increase preservation and shelf-life

### SOLUTION

The state-level legalization of both medical and recreational cannabis has created the need to improve the packaging process of marijuana. As the industry grows, so does the need for quality control and storage. Canning individual portions of the cannabis flower in hermetically sealed “tins” is rapidly gaining popularity. When exposed to oxygen, the active compounds in cannabis, THC and CBD, begin to degrade along with its efficacy. Dosing these containers with liquid nitrogen purges the oxygen from the package prior to sealing, reducing the O<sub>2</sub> level, and extending shelf life.

### HOW LIQUID NITROGEN DOSING WORKS

- A small, precise droplet of Liquid Nitrogen is dispensed into a can or package
- The LN<sub>2</sub> vaporizes, expanding to fill the container
- To inert the package, the vapor must be allowed to expand and push out O<sub>2</sub> before the container is sealed.

### ADVANTAGES OF USING LIQUID NITROGEN

- Nitrogen is inert—will not react with product
- Efficient & Versatile—can be used in many different packaging applications
- 78% of atmosphere is Nitrogen—readily available and safe