



**P3C**

**PATIENT PROTECT PURGE CONTROL**  
**An Evidence Based Solution**

A black and white photograph of a newborn baby lying in a hospital bed, covered with a blanket. Medical equipment, including a clear plastic oxygen hood and various tubes, is positioned around the baby's head. A person's gloved hand is visible, adjusting the equipment.

**Protecting Vulnerable Lives**

[www.aeralin.ca](http://www.aeralin.ca)

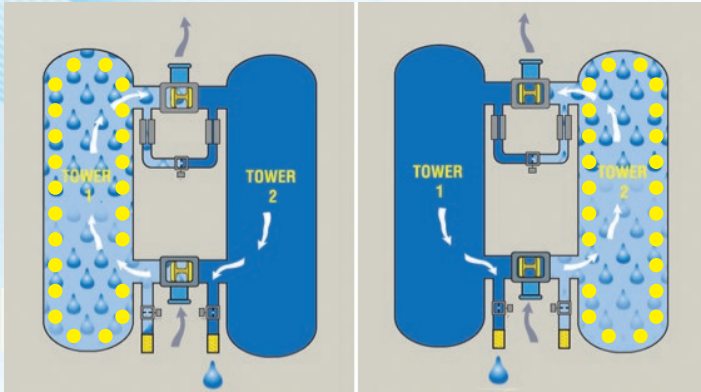
[www.airliquidehealthcare.ca](http://www.airliquidehealthcare.ca)

CONTACT US


**1-888-629-0202**

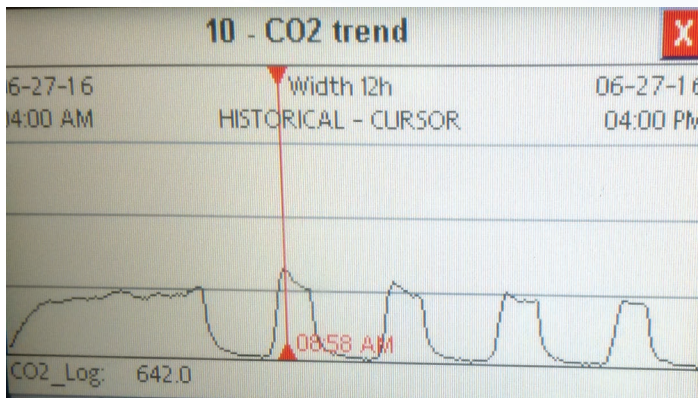
**[cs.vitalaire@airliquide.com](mailto:cs.vitalaire@airliquide.com)**

# The CO<sub>2</sub> Conundrum



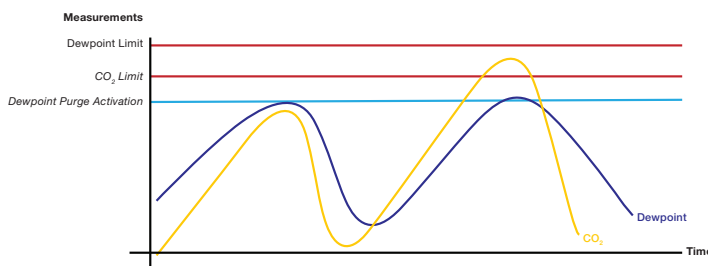
Dessiccant dryers are commonly used to remove moisture in Medical Air production. All makes and models employ activated alumina and/or molecular sieve, both of which attract moisture and carbon dioxide.

 = HUMIDITY     = CO<sub>2</sub>



Through our **aerALin™** quality control service, we discovered that current industry standard methods for operating dessiccant dryers, cause them to capture and release carbon dioxide into the process air stream.

The result is chronically off-spec Medical Air with levels of carbon dioxide exceeding the USP limit of 500ppm.



When compared with dewpoint, we noticed inconsistent waveform amplitudes for CO<sub>2</sub>, principally due to varying outdoor air quality and dryer operational settings.

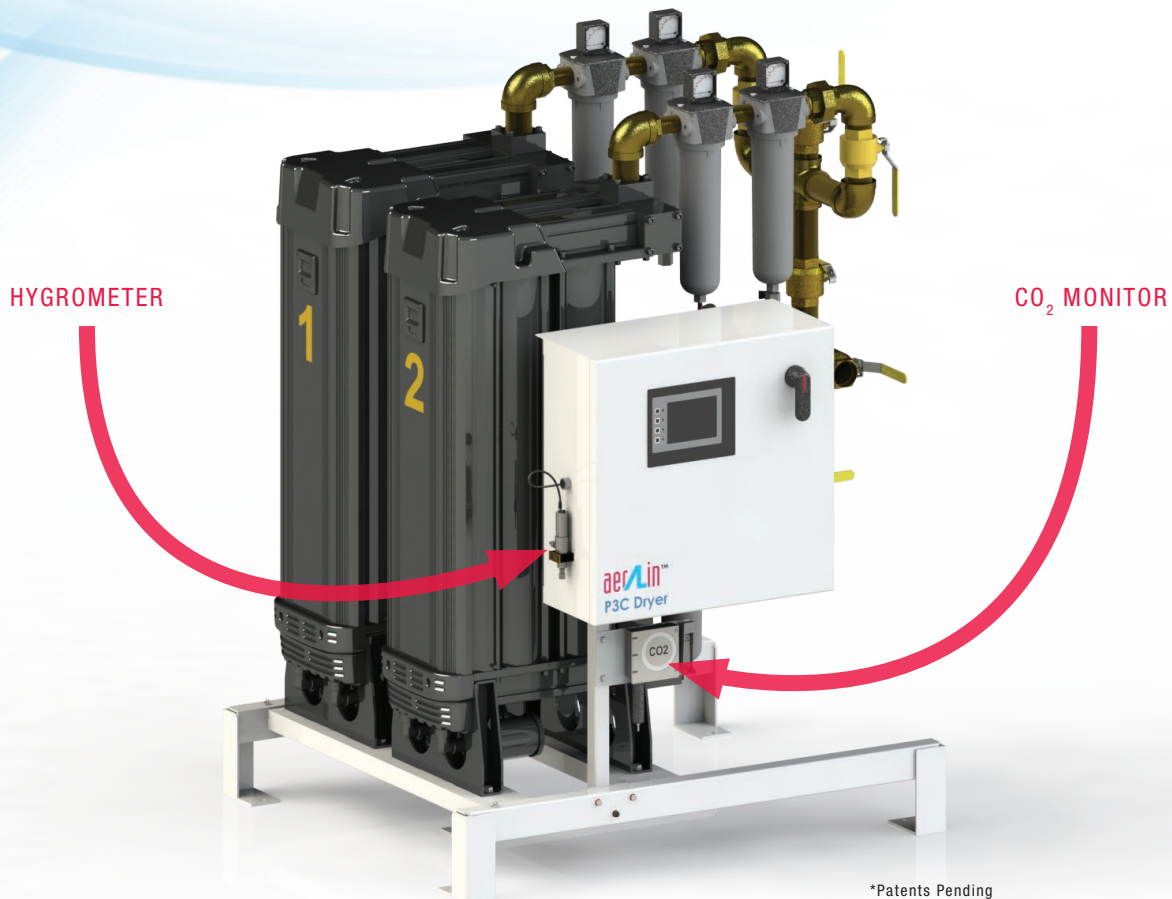
When the objective is maintaining USP compliance and  
economizing purge air loss...

The Solution is

## P3C | PATIENT PROTECT PURGE CONTROL

Dual setting purge control, with dryer purge activation based on achieving either a specific moisture or carbon dioxide trigger level\*.

The result is guaranteed USP acceptable levels for moisture and carbon dioxide **and** optimal purge economization.



## P3C Dryer

The newest member of our exclusive **aerLin™** family of products and services.



# Managing Medical Air Quality To Protect Vulnerable Lives

- Real Time Monitoring & Traceability of USP parameters
- Automatic off-spec prevention
- Trend based remediation
- Patient Protect Purge Control



**To arrange for a medical air quality assessment**

Please contact your local Air Liquide Healthcare Sales Representative  
or call **1-888-629-0202** or email [cs.vitalaire@airliquide.com](mailto:cs.vitalaire@airliquide.com)