FROM NOW ON, LONGER SHELF LIFE THANKS TO THE OPEN AIR

It may sound like a controversy, yet it is true. The Besseling PSA (Pressure Swing Adsorption) nitrogen generator produces pure nitrogen from normal environmental air. Nitrogen which can be used to expel oxygen from a room, for instance. Why not use the sources that nature offer us?

Reducing the level of oxygen in a cold room slows down the respiration of the fruits and vegetables and limits the combustion of important nutrients. Oxygen levels should be kept as low as possible (Ultra Low Oxygen) in order to keep these nutrients and, consequently, quality.

Nitrogen can be produced in various ways. Besseling has selected the PSA system. Distinguishing features of our PSA system are the minimal energy consumption, the reliability and the simplicity, to mention a few. Since the PSA system produces nitrogen under pressure, it can also be used for other applications.

BESSELING ULO SYSTEMS
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PSA NITROGEN GENERATOR

THE ART OF STORAGE

The Besseling PSA system consists of two chambers with an extremely high-grade CMS (Carbon Molecular Sieve). The molecular sieve is able to adsorb oxygen molecules during a specific period of time and under specific pressure. After saturation, the system automatically switches to the next chamber, via alternating valves. The saturated chamber is regenerated for the next cycle by reducing the pressure in the chamber, which causes the adsorbed oxygen molecules to be expelled. This simple principle is a guarantee for high reliability and durability.

The Besseling PSA nitrogen generator

- *Proven technology, simple to operate, reliable and durable*
- *Creates an over-pressure in your cold room (blows interfering gasses out)*
- *Low energy consumption*
- *Limited service requirements*
- *Efficient use of CMS*
- *Higher level of purity (stepless adjustability)*
- *Extremely user-friendly*
- *Easy mobile usage*
- *N_2 always available, no dependence on N_2-cylinder supplier*

All our PSA nitrogen generators are equipped with 2 filters and three automatic outlets. This way, the CMS is protected from oil, liquid or interfering gases.

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