



BEST FOR FRESHNESS



Fruits



Vegetables



Flowers



PerfoTecO2Control

The Ultimate Gas Flush System

The PerfoTecO2Control is the ultimate gas flush system for vertical, horizontal and flow packing machines. It combines food grade compressed air, carbon dioxide and nitrogen to reach the desired gas mix. Fresh produce packers reach the required level of modified atmosphere in the packs from the moment they are packed, while reducing gas waste, increasing packing speed, reducing product in seal and achieving an accurate and stable O₂ and CO₂ levels with a deviation of less than 0.5% between packs.

PerfoTec's patented gas flush system with intelligent gas mix/flow software has three oxygen sensors which ensure pre-gas flushing takes place in the tube until the desired gas mixture is reached. After that the packaging starts with exact and consistent O₂ and CO₂ concentrations. Real time production and sensor data is recorded and displayed on the PerfoTecO2Control panel. The settings are adjusted automatically to ensure a maximum deviation of 0.5% in O₂ levels.

Security checks are built into the system whereby the packing machine is stopped if the O₂ levels are too high

or too low, and additionally, even if the packing machine has to stop frequently due to product shortage, the O₂ and CO₂ levels still remain stable. When the packing machine is turned off, the gas flow will automatically be shut down. The result is a significant reduction in gas waste and reduced costs.

Food grade compressed air combined with a carbon filter replaces expensive and less safe O₂ gas cylinders, leading to reduced costs and improved production safety. The high flow and low-pressure gas flush reduces the turbulence and velocity of the gas going into the packs, resulting in a significant reduction of product-in-seal and a higher packing speed. This leads to higher productivity and reduced overall costs.

Production data, sensor data, and operator actions are recorded while the O2Control is in production mode. This data is summarized in a report and accessible online. The reports can be downloaded for later analysis and local storage.

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Gas flow software panel:

- Pre-gas flushing until the right level is reached. Then packaging can start
- So your first package already has the correct O₂ and CO₂ level
- Real-time data display of three oxygen sensors
- Packs are filled with exact O₂ and CO₂ concentrations
- PerfoTec O₂Control automatically adjusts O₂ and CO₂ levels
- Security check on all three gas flows and O₂ level, if O₂ level is too high or too low packing machine stops
- No gas flow when packaging machine is off
- Even if the machine has to stop frequently due to product shortage, the O₂ and CO₂ levels remain stable
- Online data storage of production and sensor data

Sensors:

To ensure uniformity of the gas in the tube during production, the PerfoTecO₂Control is equipped with 3 sensors.

- Sensor 1: Measures the input O₂ level
- Sensor 2: Measures the O₂ level near the sealing jaws
- Sensor 3: Measures the O₂ level near the top of the filling tube

Reducing food waste with PerfoTec freshness extension tools

The *PerfoTecO₂Control* is an innovative ultimate gas flushing system that optimizes the quality and shelf life of fresh produce while improving productivity and safety, and reducing waste and costs. Along with complimentary PerfoTec freshness extension tools, such as our Laser Perforation System and the Fast Respiration Meter 4.0, the *PerfoTecO₂Control* offers great potential for a chain-wide approach to reduction of food waste.

Specifications PerfoTecO₂Control

Equipment height:	-	700 mm
Equipment width:	-	510 mm
Equipment length:	-	220 mm
Nett equipment weight:	-	30 kg
Environment temperature:	-	0 - 40 °C
Gas mixture range:	-	0 - 21% O ₂ and 0 - 30% CO ₂
Gas mix flow:	-	50 - 1000 l/min
Max gas flush pressure:	-	8 bar
Electrical connection:	-	115/230V, 1ph+N+E, 50/60 Hz
Amperage:	-	0.5 A @230V (1A @115V)
Internet connection:	-	10Mbps, ethernet connection
Remote support:	-	Router initiated, secure connection, via specialized servers
Release date:	-	July 2020



Visiting address