

Dansensor® MAP Mix Primo

AN EASY WAY TO MIX GAS



Benefits

- Compact design
- Easy to use
- Easy to install
- Economic
- No maintenance

Features

- No adjustment, offers preset blending of 2 gasses
- 7 versions available matching most MAP applications:
 - O₂/CO₂
 - N₂/CO₂
 - N₂/O₂
- Flow rate from 40 -100 litres/min depending on pressure
- For integration in smaller packaging machines
- Very suitable for semi-automatic tray sealers

Compact gas mixer for Modified Atmosphere Packaging (MAP) applications

Premixed gas for MAP is expensive! Even in smaller low capacity packaging machines you can achieve major gas savings by blending the gas yourself.

The Dansensor® MAP Mix Primo is an entry-level gas mixer to be used in Modified Atmosphere Packaging applications. It is tested and approved for use in the food industry.

The Dansensor MAP Mix Primo mixer has a compact design suitable for integration in the gas flushing system of the machine e.g. semi-automatic tray sealers.

The mixer is adjusted and locked to a preset factory calibrated gas mix. Non return check valves are included for the gas inlets ensuring stable and accurate mixing during operation.

The Dansensor MAP Mix Primo has a sturdy aluminium housing with solid standard gas connections on one side and 4 holes (M6) in the bottom for screw mounting enabling easy installation. With no electronic or mechanical user adjustments the unit requires no maintenance.

HOW DOES IT WORK?

Installation and use

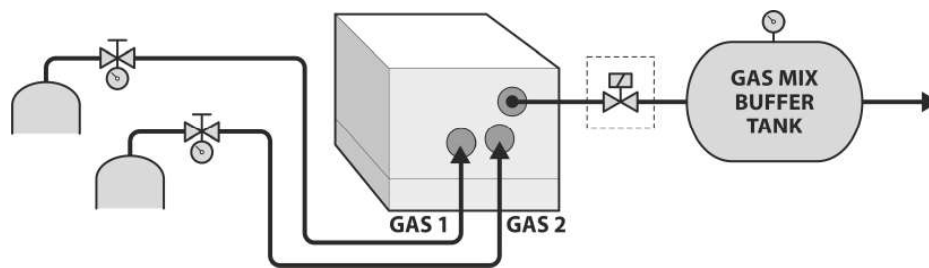
The Dansensor MAP Mix Primo is installed as an integrated component in the gas flush system of the packaging machine.

The bottom of the Dansensor MAP Mix Primo is easily mounted to the machine frame. All gas connections are accessed on one side of the mixer.

The inlets are connected to the pressure regulator outlets of the gas supply (bottle, generator, etc.) via non return check valves, which are included in the standard delivery. The outlet is connected to the buffer tank of the machine, or preferably to an on/off control valve between the mixer and the buffer tank in order to ensure the specified mixing accuracy.

The Dansensor MAP Mix Primo will now supply the pre-set gas mix once the regulators of the gas supply are adjusted to a pressure within the inlet range of the mixer.

See the Dansensor MAP Mix Primo User Guide for details about the gas connections and optimum pressure regulation.



Dash-gastec-Dansensor MAP Mix Primo-EV-1

Technical Specifications

General standard features			
Mixer configuration	Preset mix of 2 gases		
Usage	Buffer tank applications		
Material	Anodised aluminum, brass (lead free), stainless steel		
Dimensions	67 x 80 x 112 mm (H x W x D) (without fittings and check valves)		
Weight	1.6 kg (shipping weight: 1.7 kg)		
Mounting	Screw mounting, 4 holes (M6)		
Compliances	EU regulation 1935/2004 -		
Mixer parameters			
Gas media	2-gas mix of clean dry gases O ₂ /CO ₂ , N ₂ /CO ₂ , N ₂ /O ₂		
Models	O ₂ -CO ₂ , select between: 80% O ₂ /20% CO ₂ or 70% O ₂ /30% CO ₂	N ₂ -CO ₂ , select between: 80% N ₂ /20% CO ₂ 70% N ₂ /30% CO ₂ , or 50% N ₂ /50% CO ₂	N ₂ -O ₂ , select between: 70% N ₂ /30% O ₂ 80% N ₂ /20% O ₂
Gas inlet pressure	3 – 9 bar(g) (second inlet must be 1-3 bar higher than primary (ref.) in-let)		
Max. outlet pressure	7 bar(g)		
Outlet flow rate	40-100 l/min. (depending on inlet pressure, mix and (receiver) back pressure). Typically 70 l/min (@5 bar inlet)		
Setting accuracy	+/- 0.5 % abs. (fixed mix preset at factory)		
Mixing accuracy (stability)	+/- 1.5% abs.		
Operational temperatures (ambient and gases)	0 to +45°C		
Gas inlet connections	Non return check valves with G 1/4" female thread . Connected to the mixer with push-in fittings for an Ø8 mm hose		
Gas outlet connection	Female thread G 1/4"		

Specifications subject to change without notice.