MAP Mix Provectus

Gas mixer for blending of 2 or 3 gasses: argon, carbon dioxide, nitrogen, oxygen and air

A more powerful way to mix gas!

The revolutionary MAP Mix Provectus uses an entirely new operating principle to advance the accuracy, operation and appearance of a gas mixer. Simple to use, highly reliable and rich in data, this mixer gives vital feedback on information such as current gas flow, total gas consumption and actual gas mix at any time.

It's also simple when it comes to configuration. No longer do you need to worry about the specification of the right pressure and gasses when ordering, whether it will work with your onsite generation system or which gasses you need to mix. Your only decision is whether you need to mix two or three gasses — everything else gets set up the first time you start up the gas mixer.

Even though it is only slightly larger than a shoebox the MAP Mix Provectus still delivers an outstanding gas mixing capacity of up to 90 m^3/hour (3200 SCHF) — and if that's not enough, you can bridge up to three mixers and triple the capacity.

Benefits

- Uses an intuitive touch screen for easy set-up and operation
- Meets traceability requirements by storing accurate information about current gas flow, consumption over time and gas mix
- Avoids operator errors with programming of up to 10 standard gas mixes
- Integrates fully with the MAP Check 3 gas analyser for ultimate effectiveness

Features

- Data logging of consumption, date, time and gas mix
- Very low pressure drop over the mixer, making it suitable for working with nitrogen and oxygen generators
- USB, Ethernet (LAN), RS232, Modbus TCP connections for data logging and control
- Mixes oxygen, nitrogen, carbon dioxide, air and argon

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HOW DOES IT WORK?

1: After unpacking, use the intuitive touch screen to easily programme the mixer according to the gasses connected and the desired gas mixture.
The MAP Mix Provectus can be programmed with up to 10 preset gas mixtures for easy change of gas mix by the operator.

2: During operation the MAP Mix Provectus ensures the correct gas mixture for the application and keeps the operator informed about inlet pressure, outlet pressure and gas flow. In case of any irregularities, the mixer alerts the operator.

3: The MAP Mix Provectus provides operators and quality personnel with vital information about actual gas consumption, inlet and outlet pressure and gas mixture. Best of all, everything can be logged and transferred to a PC or an external data warehouse.

Optional buffer tank specially designed for use with Dansensor's range of gas mixers

PBI-DS-Dash-gastec-MAP Mix Provectus Argon-EN-1

Technical Specifications

General standard features	
Mixer configurations	2-gas or 3-gas models available, with LCD display or as "Black-Box" without display
Connections	2 x RS232C, LAN 10/100 Mbit (Modbus TCP), USB, 24 VDC logic for start/stop and alarm
Power supply	103-132 / 207-264 VAC (autoranging), 47-63 Hz.
Compliances	CE
Dimensions	192 x 230 x 375 mm (H x W x D)
Weight	12.0 - 14.0 kg (depending on model)
Mixer parameters	
Gas media	Dry and clean O_2, CO_2, Ar, N_2 or Air (0°C to +50°C / 32°F to +122°F gas temperature)
Gas inlet pressure	2 to 10 bar (30 to 145 psi) , dependig on back pressure and flow
Pressure drop	Example: 1 bar at 10 bar input pressure (14.5 psi at 145 psi input pressure)
Gas flow per gas string	6 to 500 L/min (0.21 to 17.6 SCFM)
Max output gas flow	2-gas: 1000 L/min (2115 SCFH), 3-gas: 1500 L/min (3175 SCFH) depending on mixture setting
Mixer settings	Range 0%, 2% - 100%
Mixer accuracy	± 2% absolute in flow ranges above 50 L/min (105 SCFH) total output flow. Argon: ± 2% absolute at argon flow > 50 l
Flow measuring	Total and daily consumption
Operating modes	Buffer or flow configuration, selectable in software and by installation
Accessories (optional)	
Protection kit	IP45 protection
Bracket, assembley	2 brackets, 8 screws
Buffer tank kit	Tank 15 l, fittings

Mix	2-gas	3-gas
Typical mix 1:	Ar 82% + CO_2 18%, flow range: 33 to 609 L/min	Ar 70% + CO_2 20% + O_2 10%, flow range: 60 to 714 L/min
Typical mix 2:	Ar 90% + CO_2 10%, flow range: 60 to 555 L/min	Ar 70% + CO_2 28% + O_2 2%, flow range: 300 to 714 L/min
Worst case mix:	Ar 98% + CO_2 2%, flow range: 300 to 509 L/min	Ar 88% + CO_2 10% + O_2 2%, flow range: 300 to 568 L/min
Best case mix:	Ar 50% + CO_2 50%, flow range: 12 to 1000 L/min	Ar 34% + CO_2 33% + O_2 33%, flow range: 18 to 1470 L/min

Specifications subject to change without notice.

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