



Drass Gas Mixer is capable to mix up to three given inlet gases so to obtain any required diving gas mixture. The machine is suitable to produce any mixture of nitrox, heliox or trimix, with extremely high accuracy, and with high capacity (more than 250 Nm³/h).

Uniquely on the market, the Gas Mixer will accept as inlet gases not only pure gases (helium, nitrogen, oxygen) as the commercially available gas mixers, but also air or pre-mixed gases, such as heliox, nitrox, trimix.

This makes the Gas Mixer capable to re-process residual mixed gas, after verification of its breathing quality, so to be used in the next diving activities.

The Gas Mixer capabilities include:

- Oxygen enrichment, to add oxygen to pure gases or existing gas mixtures.
- Heliox Dilution, to dilute the oxygen content of an existing gas mixture with helium background.
- Nitrox Dilution, to dilute the oxygen content of an existing gas mixture with nitrogen background.
- Printing of gas analysis results.

Above capabilities are obtained thanks to the high accuracy analysis system (O₂+He) capable to measure the inlet gas mixtures, and the internally developed compensation algorithm, aimed to adjust the characteristics of the dosing system to fit any given inlet gas.

After a gas mixture has been produced, the system can analyze it with high accuracy (O₂ error less than 0.1%), and print a sticker with the analysis results, together with the name of the operator and date/time, in plain text and with a QR code. Such sticker can then be applied to the bottle, for future reference.

The unique capabilities of Drass Gas mixer assure great savings, by re-processing pre-mixed gases instead of purchasing new pure gases.



INTENDED PERFORMANCES AND MAIN TECHNICAL DATA

- Possible inlet gas: pure N₂, He, O₂ and their mixtures (including air);
- Inlet gas pressure: up to 200 bar (pressure reducers included within the Gas Mixer System);
- Produced gas flowrate: User adjustable up to more than 250 Nm³/h (considering the total flow of the three Mass Flow Controllers)
- Accuracy of Gas Analysis: O₂ analysis better than 0.1%, and He analysis 1%;
- Produced gas pressure: from 0 to 20 bar.

SPECIFICATIONS

Weight:	Gas Mixer Unit: 300 kg
	Gas Mixer Tank: 280 kg
Gas Mixer Unit Electrical Data:	Voltage: 230 Vac
	Frequency: 50 Hz
	Power: 0.9 kW
Gas Mixer Tank Electrical Data:	Voltage: 24 Vdc
	Power: 0.08 kW

COMMERCIAL CODE	DESCRIPTION
96AN-03-01-01-00-00	DRASS GAS MIXER SYSTEM