



MGM SERIES GAS MIXERS





Founded in 1983 in Liege, Belgium, Drytec provides compressed air products worldwide and sales & after-sales service to channel partners throughout Europe. Drytec is keeping a high level of stock in Belgium with over 1000 dryers on shelves and thousands of consumables to serve customers in the best and fastest way. With nearly 45 years of experience in compressed air systems, Drytec is now one of the leading companies in the field of compressed air filters and automatic drainage systems for various industries.

Note: The product images/visuals may include optional components. Images represent the appearance of the product. Please check the standard and optional lists of the relevant product for the most accurate cautiously.

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Many different gases are produced and used in compressed air systems according to the needs. The most commonly used industrial gases are nitrogen and oxygen. These gases are produced and used in different quantities and purities according to the need. Many different gases are produced and used in compressed air systems according to the needs. Although each gas is used for different purposes, gas mixers provide the mixing of these gases as major gas and minor gas phases and gas production on demand. The gas mixer mixes two different gases in specific proportions to obtain a homogeneous gas mixture.



Working Principle

The system regulates the main and auxiliary gas flows to the same pressure. The main gas flows through an orifice, while the auxiliary gas passes through an adjustable valve. These gases are mixed under a flow condition and directed into a tank. When the pressure of the tank reaches a certain level, the gas flow is automatically stopped. Continuously monitor the accuracy of the mix in the mixer and make adjustments as needed.



Advantages

- Durable design and construction suitable for industrial applications
- Easy-to-operate by monitor controlling
- Automatic adjustment in any changes in pressure and gas flow
- Continuous and reliable mixing process
- On-site and instant homogenous gas mixture for related application

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Standard

- Mini PLC
- P Filters
- Mixing Tank
- Pressure Regulators
- Nitrogen and Oxygen Manometers
- Pressure Transmitter
- Oxygen Analyser
- Manual Valve

Optional

- Nitrogen Flowmeter
- Oxygen Flowmeter
- Gas Inlet Temperature Sensor
- Aftercooler

Applications and Specific Designs

- Welding Manufacturing → Carbon Dioxide/Argon, Oxygen/Argon, Helium/Argon
- Food Packaging → Carbon Dioxide/Nitrogen, Oxygen/Carbon Dioxide
- Leak Detection → Helium/Nitrogen, Helium/Air
- Blanketing Atmospheres → Oxygen/Nitrogen
- Laser Cutting → Oxygen/Nitrogen

Technical Specifications

Models	Max. Flow Capacity (m ³ /h)	Surge Tank Volume (l)	N ₂ Inlet Connection Size	O ₂ Inlet Connection Size	Mix Gas Outlet Connection Size
MGM-65	65	140	1/2"	1/4"	1/4"
MGM-135	135	280	1"	1/2"	1/4"
MGM-270	270	450	1 1/2"	1"	1/2"
MGM-500	500	910	1 1/2"	1"	1/2"

*For other or more information, please consult the Drytec technical team.

Given flows are at 7 barg pressure with reference to 20°C and 1 bar atmospheric air suction as per ISO 7183 standard

Reference Conditions

Mixed Gas Outlet Pressure Range (barg)	Supply Gas Inlet Pressure Range (barg)	Working Temperature Range (°C)	Power Supply
3.5	7	0-40	115 VAC, 50-60 Hz 220 VAC, 50-60 Hz



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