



## **MGD SERIES GAS DRYER SYSTEM**





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.

[www.drytec.be](http://www.drytec.be)

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In industrial applications, Oxygen (O<sub>2</sub>), Nitrogen (N<sub>2</sub>), Hydrogen (H<sub>2</sub>), Argon (Ar), and inert gases are used in various purity ranges. These high-purity gases used in many industrial applications may contain water as an impurity. Especially in specific production areas, moisture in the system can cause problems and damage the quality of the final product. As a solution to these applications, Drytec offers gas dryer systems called MGD Series.

With MGD Series, -40°C dew point can be achieved. Special granules are used for drying processes. Thanks to MGD Gas Dryer Systems, the specified gases can be dried without disturbing the purity required for the application.

MGD Series Gas Dryers offer reliable, efficient and high performance solutions for all your industrial applications. Two types of machines are available for "Non-Flammable Gases" and "Flammable Gases", single unit and double unit depending on the usage. Both single unit and double unit design can be preferred according to the needs.

### MGD Gas Dryer for Non-Flammable Gases

Designed for non-flammable gases, the MGD design demonstrates high performance at critical purity levels. These models have ≈4% compressed gas loss.

Constant dew point of -40°C is achieved without degradation of the purity of the gases (<10 ppm).

#### Standard Features

- Mini PLC
- Particule (P) Filter

#### Optional Features

- Oxygen Analyzer
- HMI Color Touch Screen PLC
- Dew Point Sensor
- Pressure Transmitter

### MGD Gas Dryer for Flammable Gases

Designed for flammable gases, the MGD is ideal for applications requiring continuous dry gas at specific purity levels. These models have less than 0.4% gas loss.

The fluctuation value of the output gas is <150 ppm. The dewpoint value is provided as <-40°C. It has stainless steel connection parts.

#### Standard Features

- HMI Color Touch Screen PLC
- Buffer Tank
- Particule (P) Filter

#### Optional Features

- Oxygen Analyzer
- Dew Point Sensor
- Pressure Transmitter



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## Technical Specification

| Gas Dryer Model | Flow Rate (m <sup>3</sup> /h) |
|-----------------|-------------------------------|
| MGD-3           | 5                             |
| MGD-5           | 10                            |
| MGD-10          | 20                            |
| MGD-20          | 35                            |
| MGD-25          | 45                            |
| MGD-30          | 50                            |
| MGD-40          | 70                            |
| MGD-50          | 85                            |
| MGD-60          | 100                           |
| MGD-75          | 130                           |
| MGD-100         | 170                           |
| MGD-120         | 200                           |
| MGD-180         | 300                           |
| MGD-240         | 400                           |
| MGD-340         | 575                           |
| MGD-400         | 680                           |
| MGD-500         | 850                           |
| MGD-590         | 1000                          |
| MGD-735         | 1250                          |

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

| Inlet Gas Pressure | Inlet Gas Temperature | Inlet Gas Dew Point |
|--------------------|-----------------------|---------------------|
| 7 barg             | 35°C                  | Max. +20°C          |

## Correction Factor

| Pressure (barg) | F1   | Inlet Temperature (°C) | F2   |
|-----------------|------|------------------------|------|
| 4.5             | 0.69 | 20                     | 1.00 |
| 5               | 0.75 | 25                     | 1.00 |
| 6               | 0.88 | 30                     | 1.00 |
| 7               | 1.00 | 35                     | 1.00 |
| 8               | 1.12 | 40                     | 0.80 |
| 9               | 1.25 | 45                     | 0.73 |
| 10              | 1.25 | 50                     | 0.59 |
| 11              | 1.50 | -                      | -    |
| 12              | 1.62 | -                      | -    |
| 13              | 1.74 | -                      | -    |
| 14              | 1.87 | -                      | -    |
| 15              | 1.99 | -                      | -    |
| 16              | 2.11 | -                      | -    |

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