

MGD SERIES GAS DRYER SYSTEM

Manufacturing Forward





Mikropor began its journey in 1987 with a passion to create “Tomorrow’s Technology” and has become one of the leading manufacturers of atmospheric air filtration solutions and compressed air treatment systems for a variety of industries.

By closely following the latest developments in technology, Mikropor’s “Best in Class” products and solutions are appreciated by customers in more than 100 countries.

The company’s sustainable growth has been provided by its passion for innovation and commitment to quality, as well as its dedication to technology. Mikropor is an environmentally conscious company that values people, while developing products that extend the needs and expectations of customers.

With this mission, Mikropor continues to become one of the most recognized brands in the world by expanding its global penetration in the field of technological filtration and contributes to a healthier planet.

www.mikropor.com

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In industrial applications, Oxygen (O₂), Nitrogen (N₂), Hydrogen (H₂), 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, Mikropor 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 and double 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.

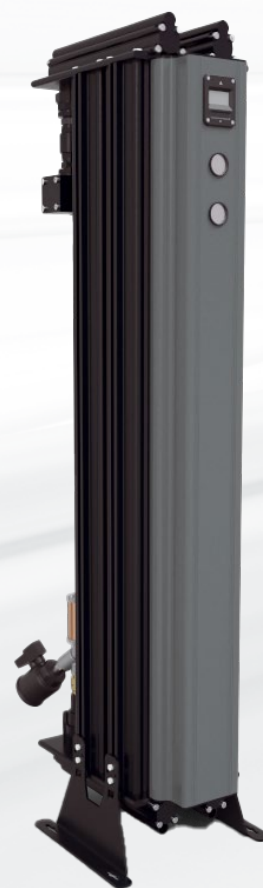
A stable dew point of -40°C is achieved without degradation of the purity of the gases (<10ppm).

Standard Features

- Mini PLC
- Particule (P) Filter

Optional Features

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



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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.

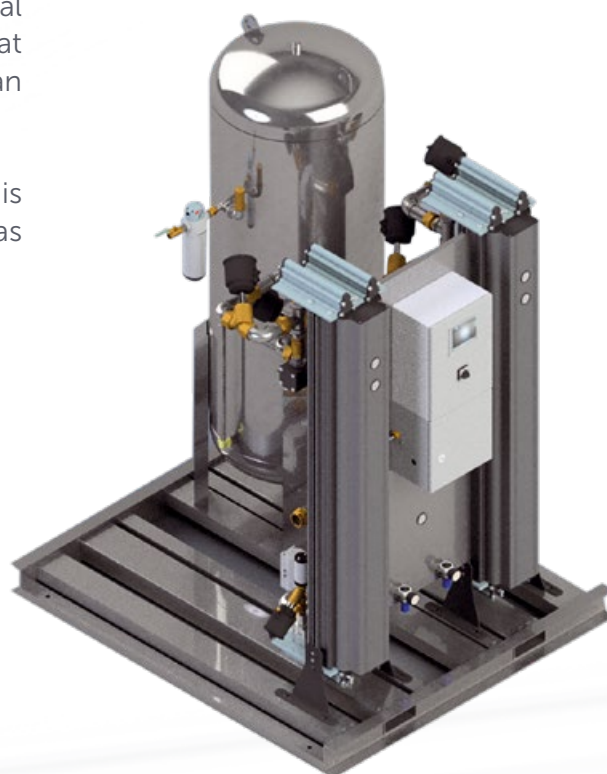
The fluctuation value of the output gas is <150ppm. The dewpoint value is provided as <-40°C. It has stainless steel connection parts.

Standard Features

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

Optional Features

- Oxygen Analyser
- Dew Point Sensor
- Pressure Transmitter



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Technical Specification

Gas Dryer Model	Flow Rate (m³/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

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
5	0.75	25	1
6	0.88	30	1
7	1	35	1
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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