

DM15MR Micro-Heated Desiccant Air Dryer

Desiccant Air Dryer







Product Specifications

Max. Air Handling Capacity	1.5 Nm ³ /min
Finished Air Dew Point	-40 ~ -70°C
Standard Working Pressure	7 bar / 0.7 Mpa
Max. Working Pressure	10.5 bar / 1.05 Mpa
Inlet Air Temperature	Less than 45°C
Inlet Oil Content	≤ 0.1 mg/m ³
Applicable Working System	Continuous Operation
Control Mode	Microcomputer Control
Pressure Drop	≤ 0.020 Mpa

Desiccant	Activated Alumina + Molecular Sieve
Single Tower Working Cycle	30-180 minutes
Power	1200W
Regeneration Air Consumption	4-6%
Power Supply (V/PH/Hz)	220V AC, 50Hz
Connection Mode	Thread Connection
Thread Connection	DN25 / 1"
Overall Dimension (L*W*H)	750mm × 400mm × 1370mm
Weight	116 Kg

Product Description

Customer Notice

At least one oil removal filter must be installed at the inlet of the desiccant air dryer, and one dust removal filter must be installed at the outlet.

Product Performance & Features

Five Core Advantages of the Dryer

- Reasonable tower design ensures sufficient contact time between compressed air and desiccant, fully meeting the required dew point standard.
- Adopts imported-imitation dryer structure, featuring compact structure and elegant appearance.
- Layered filling technology of activated alumina and molecular sieve guarantees stable and low dew point output.
- 20% extra desiccant filling margin is reserved to compensate for the abrasion and aging of desiccant during long-term operation.
- Equipped with high-precision customized diffuser to ensure uniform airflow passing through the desiccant layer and eliminate channeling phenomenon.

Stable and Consistent Outlet Air Dew Point

- Reasonable cylinder design and control system slow down the airflow speed inside the dryer, prolonging the contact time between compressed air and desiccant to meet the dew point requirement of finished air.
- The 20% additional desiccant margin compensates for the natural aging of desiccant, ensuring optimal performance of the desiccant throughout its expected service life.
- Large-sized high-efficiency diffuser realizes uniform airflow distribution across the desiccant layer, thoroughly eliminating airflow channeling and ensuring stable drying effect.

Long Service Life of Desiccant (Activated Alumina & Molecular Sieve Layered Filling)

- Proper cylinder size and precise control system maintain an appropriate airflow rate through the desiccant, preventing desiccant movement and dust flying, and reducing pressure loss at the same time.
- The incoming airflow is treated by a high-efficiency oil removal filter before entering the cylinder, which instantly removes moisture, oil and heavy pollutants in the airflow to avoid contamination of the desiccant layer.
- Desiccant replacement cycle is more than 2 years, and the directional valve can operate continuously for more than 100,000 times without failure.

Reliable Control System and Components

The dryer adopts innovative pneumatic valves and advanced, reliable electrical components, featuring automatic working

switching. It runs stably and reliably, and is not affected by power grid, voltage, electric field and other external factors.

Core Product Advantages

- **Ultra-Low Dew Point Performance:** Finished air dew point ranges from -40°C to -70°C, fully satisfying the high-standard gas demand of precision industries.
- **Low Energy Consumption:** Extremely low regeneration air consumption and small pressure loss, effectively reducing daily operation cost.
- **Long Service Life:** Durable desiccant and high-quality directional valves, long equipment service life, less daily maintenance.
- **Stable Operation:** Microcomputer automatic control, no manual operation required, strong anti-interference ability, continuous and stable operation.
- **Easy Installation & Maintenance:** Foundation-free installation, simple pipeline connection, convenient desiccant replacement and daily maintenance.
- **Compact Structure:** Optimized integrated structure, small footprint, suitable for various industrial installation scenarios.

Core Purpose & Application Industries

Core Purpose

This micro-heat adsorption air dryer is specially used to deeply purify and dry compressed air, efficiently remove moisture, oil and impurities in compressed air, output high-dryness, low-dew-point clean compressed air, protect rear-end pneumatic equipment, precision instruments and industrial processing equipment from moisture damage, and ensure the stable and efficient operation of the entire compressed air system.

Application Industries

- Precision machinery manufacturing, automation equipment industry
- Electronic component production, semiconductor processing industry
- Pharmaceutical, food and beverage processing and packaging industry
- Laser cutting, laser welding and other precision laser processing industries
- Automobile manufacturing and auto parts processing industry
- Aerospace, instrumentation and other high-precision pneumatic systems
- General industrial compressed air purification and drying systems

Model	Capacity (Nm ³ /min)	Power	Weight (kg)	Dimensions (L×W×H)
DM15MR	1.5	220/50	145	750*350*1440
DM2MR	2.6	220/50	195	750*400*1640
DM40MR	3.8	220/50	285	1000*500*1518
DM6MR	6.5	220/50	420	1000*500*1950
DM85MR	8.5	220/50	550	1000*500*1910
DM110MR	11	220/50	650	1200*550*2100
DM138MR	13.8	220/50	750	1250*575*2160
DM150MR	16	220/50	860	1400*550*2220
DM200MR	23	220/50	965	1450*550*2480
DM250MR	27	220/50	1250	1500*600*2550
DM300MR	33	220/50	1575	1900*1000*2710
DM400MR	45	220/50	1758	2000*1200*2766
DM500MR	55	220/50	2300	2100*1280*2780
DM600MR	65	220/50	2500	2400*1350*2820
DM800MR	85	220/50	2800	2650*1500*2930
DM1000MR	100	220/50	3650	2800*1800*3000
DM1500MR	150	220/50	5200	2900*2000*3200
DM2000MR	200	220/50	7250	3000*2100*3400

Refrigerated Air Dryer & Desiccant Air Dryer - Demargo

Demargo (Shanghai) Energy-Saving Technology Co., Ltd. is a national high-tech enterprise and a Shanghai "Specialized, Refined, Characteristic and Innovative" enterprise, devoting itself to the R&D, production, sales and after-sales service of compressed air purification equipment for 19 years. With a firm commitment to energy conservation, environmental protection and technological innovation, we have grown into a leading manufacturer in the air compression post-treatment industry, providing high-quality, customized solutions for global industrial customers.

Our core strength lies in strong technological research and development capabilities. Up to now, we have owned 24 authorized patents and 22 patents under application, covering key technologies of air drying and purification equipment, which effectively guarantees the stability and energy efficiency of our products. We have passed ISO9001 and QS certifications, and our products comply with international industrial standards, with dew point ranging from -23°C to -70°C, air treatment capacity of 1~500Nm³/min, and outlet oil content as low as 0.003PPM, reaching the industry-leading precision level.

We boast a comprehensive and diverse product portfolio, covering more than 60 product categories, including 21 standard products and a variety of non-standard customized products that lead the industry. Our main products include air compressors and their accessories, air receivers, refrigerated dryers (including plate heat exchanger type, high-temperature air-cooled type, DC inverter type, etc.), adsorption dryers, combined dryers, heat of compression adsorption dryers, filters, zero-air-consumption blower-heated dryers, self-cleaning air filters, compressed air pre-cooling units, low-temperature high-pressure nitrogen pre-cooling units, industrial chillers, oil-water separators, oil removers and aftercoolers, etc.. We support 12 types of product configurations such as air-cooled/water-cooled, fluorine-free/high-temperature, inverter/explosion-proof, and can provide intelligent solutions such as industrial computer and programmable control according to customer needs.

With excellent product quality and professional service, we have won wide recognition in the global market. Our customers are distributed in more than 20 countries and regions around the world, including Brazil, Australia, etc., and we have established in-depth cooperation with more than 20 OEM manufacturers and 2299 brand agents. Our annual output reaches 9,682 sets, and the cumulative sales volume exceeds 100,000 sets, which fully demonstrates the market influence and customer trust in our brand.

Customer-centricity is our consistent service philosophy. We provide a full-cycle service system from pre-sales design, in-sales installation to after-sales maintenance: we promise 30-minute response, 24-hour online guidance and 48-hour on-site service, and ensure spare parts supply response within 24 hours, effectively solving the worries of customers in product use. We are committed to tailoring the most suitable compressed air purification solutions for customers in more than 30 industries such as power, aerospace, electronics, and chemical industry, helping enterprises reduce energy consumption, improve production efficiency and product quality.

Looking forward to the future, Demargo will continue to increase R&D investment, accelerate technological innovation, expand the global market layout, and strive to become a world-class provider of compressed air purification and energy-saving solutions. We sincerely look forward to cooperating with partners from all over the world to jointly promote the development of the global industrial energy-saving and environmental protection industry!

Demargo (Shanghai) Energy Saving Technology Co.,Ltd

Address: No.9, Lane 38, Caoli Road, Fengjing Town, Jinshan District, Shanghai, China

Address: No. 9, Lane 38, Caoli Road, Fengjing Town, Jinshan District, Shanghai

Tel: +8617316541891 / +8617321147609

Email: nora@compressor-airdryer.com / Jim@compressor-airdryer.com

WhatsApp: +8617316541891 / +8617321147609