

DM026GF Refrigerated Compressed Air Dryer

Refrigerated Air Dryer



Product Specifications

Max. Air Handling Capacity	2.6 Nm ³ /min
Pressure Dew Point	2-10°C
Standard Working Pressure	7 bar/0.7MPa
Max. Working Pressure	10.5bar/1.05Mpa

Standard/Max. Inlet Air Temperature	< 45°C/80°C
Ambient Temperature	≤38°C
Applicable Working System	Continuous Operation
Control Mode	Microcomputer Control
Pressure Drop	≤0.020Mpa
Blowdown Valve	Electronic Drain Valve
Cooling Method	Air-cooled
Refrigerant	R22
Power Supply V/PH/Hz	220V AC 50HZ
Refrigeration Power	1.0 HP
Fan Power	90W
Connection Type	Thread Connection
Inlet & Outlet Connection Size	1"(Female Thread) DN25
Overall Dimension(L*W*H)	800mmx450mm x 730mm
Net Weight	55Kg
Installation Method	Foundation-free Installation

Product Description

Core Advantages & Product Features

1. High-Efficiency Double Heat Exchange Barrel with Pure Copper Bellows

Adopts high-quality pure copper bellows and dual heat exchange barrel structure, bringing multiple core benefits: Effectively prevent condensation at the outlet pipeline, avoiding pipeline corrosion and air quality pollution; Realize secondary heat exchange between cooled dry compressed air and high-temperature incoming compressed air, recycling excess kinetic energy and cooling capacity to cut down energy waste, reducing electricity consumption by 5% compared with ordinary dryers; The bellows design improves heat exchange efficiency by 10% than standard straight pipes with the same pipe diameter and length, boosting overall drying performance.

2. Premium Brand Capacity Adjustment Device

Equipped with top-level energy regulation components to optimize unit operation: Effectively avoid evaporator icing and compressed air pipeline blockage under low-load working conditions; Prevent liquid compression inside the system, greatly extending the service life of the refrigeration compressor; Keep the refrigerating capacity balanced with gas heat load at all times, improving operation economy and reducing energy waste; Stabilize evaporation temperature and pressure, eliminating large fluctuations in gas temperature to ensure stable pressure dew point.

3. Precision Throttle Valve

Built-in high-precision throttle valve to accurately adjust refrigerant flow, realizing constant-temperature refrigeration and stable drying effect, ensuring consistent output of dry compressed air.

4. Enlarged High-Efficiency Condenser

The condenser heat dissipation area is enlarged by 15% based on standard heat dissipation capacity. Verified by professional tests, it saves 3% more energy than standard condensers, effectively lowering long-term operation and maintenance costs.

5. World-Famous Brand Refrigeration Compressors

All units are standardly equipped with brand-new genuine refrigeration compressors from well-known brands including Danfoss, Hitachi, Panasonic, Copeland, ensuring stable, reliable and long-term continuous operation of the whole machine with low failure rate.

6. Optimized Heat Exchanger Installation

The heat exchange barrel adopts staggered high-low installation design, which guarantees smooth discharge of condensed water, avoiding water accumulation inside the machine and secondary moisture pollution.

7. High-Efficiency Clamp-type Gas-Liquid Separator

Built-in professional clamp-type gas-liquid separation device, with a separation rate up to 99.99%, thoroughly removing moisture and impurities in compressed air, ensuring stable air outlet and constant dew point.

8. Full-Series Comprehensive Safety Protection

Standardly configured with high and low pressure protection, over-current protection devices. Once the unit malfunctions during operation, the protection system will start immediately to avoid damage to core components and reduce maintenance costs.

Core Applications & Industries

This DM026GF refrigerated compressed air dryer is specially designed to remove moisture, water droplets and impurities from compressed air, providing stable dry compressed air for various industrial scenarios. It is widely applied in multiple industries such as:

- **Mechanical Manufacturing & Auto Industry:** Pneumatic tools, pneumatic transmission, auto parts production, spray painting equipment
- **Electronics & Electrical Appliance Industry:** Electronic component production, precision instrument processing, circuit board manufacturing
- **Food & Beverage Industry:** Food packaging, beverage filling, food processing pneumatic systems
- **Pharmaceutical Industry:** Pharmaceutical production, medical equipment supporting, clean pneumatic systems
- **Textile & Printing Industry:** Textile machinery, printing equipment, packaging machinery
- **Petrochemical & General Industry:** Air compressor supporting, industrial pneumatic control systems, pipeline gas drying

Model	Capacity (Nm ³ /min)	Power	Compressor Power (HP)	Weight (kg)	Dimensions (L×W×H)
DM150GF	17	380/50	4	360	1240*670*1180
DM200GF	23	380/50	5	420	1420*790*1340
DM250GF	27	380/50	6	550	1420*800*1345
DM300GF	35	380/50	8	640	1650*820*1370
DM400GF	45	380/50	10	730	1850*920*1550
DM500GF	55	380/50	12	830	1980*920*1816
DM600GF	65	380/50	15	1020	1980*920*1816
DM800GF	85	380/50	20	1600	2480*1350*2070
DM1100GF	110	380/50	25	2400	2480*1440*2070
DM1200GF	130	380/50	30	2560	2450*1440*1900
DM1500GF	150	380/50	37	2750	2650*1550*2193
DM1800GF	180	380/50	45	3250	2720*1650*2260
DM2000GF	210	380/50	50	3600	3450*1725*2380

DM3000GF	300	380/50	80	4250	3800*1980*2580
DM4000GF	400	380/50	100	4560	4200*2150*2670

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!

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