

DM026APF Refrigerated Compressed Air Dryer

Refrigerated Air Dryer









Product Specifications

Maximum Air Flow	Maximum Air Flow
Pressure Dew Point	35.6-50°F
Working Pressure	7 bar / 0.7 MPa
Maximum Working Pressure	10.5 bar / 1.05 MPa
Inlet Temperature	Inlet Temperature
Ambient Temperature	Ambient Temperature
Duty Cycle	Continuous Operation
Control Method	Microcomputer Control
Pressure Drop	Pressure Drop

Drain Valve	Electronic Drain Valve
Cooling Method	Air-Cooled
Refrigerant Type	R134a
Power	110/230V AC 60Hz
Input Power	1.0 HP
Power Consumption	135 W
Dimensions (L × W × H)	31.4" × 17.7" × 28.3"

Product Description

Core Product Advantages & Features

- **Stable & Efficient Dew Point Control:** Adopts high-precision dew point display with stable pressure dew point ranging from 2-10°C, ensuring consistent dry compressed air output and meeting strict industrial air purification requirements.
- **High-efficiency Refrigeration System:** Equipped with brand hermetic rotary compressor and eco-friendly R410a refrigerant, featuring low energy consumption, low noise, stable operation and long service life; matched with aluminum-magnesium alloy plate-fin heat exchangers for ultra-high heat exchange efficiency and minimal pressure loss.
- **Smart Control & Easy Operation:** Supports local and remote start-stop control, built-in 485 communication interface for remote monitoring and linkage control; equipped with local fault alarm and complete high/low pressure protection, realizing safe and unmanned operation.
- **Compact & Space-saving Design:** Miniature overall dimension, lightweight body, foundation-free installation, top-mounted air exhaust design, saving installation space and adapting to narrow working spaces; easy transportation via hydraulic trolley or manual handling.
- **Maintenance-free & Long Service Life:** Built-in electronic timing automatic blowdown system, no manual operation required; aluminum-magnesium alloy material structure features strong corrosion resistance, no rust and long durable usage; low operation cost with simple daily maintenance.
- **Wide Application Adaptability:** Wide range of inlet pressure and temperature, stable operation under 2-38°C ambient temperature, low pressure drop design, compatible with various compressed air systems.
- **Safe & Eco-friendly:** Non-hazardous equipment, air-cooled cooling mode, no extra water source needed; compliant with international industrial safety and environmental protection standards.

Core Product Parameters

Basic Equipment Data

Item	Parameter	Item	Parameter
Product Type	Refrigerated Air Dryer	Model	DM026APF
Application Medium	Compressed Air	Pressure Drop	≤19Kpa
Rated Inlet Air Flow	2.6 Nm³/min	Outlet Air Flow	2.6 Nm³/min
Rated Inlet Air Pressure	7 Bar	Max Inlet Air Pressure	16 Bar
Rated Inlet Air Temperature	45°C	Max Inlet Air Temperature	55°C
Relative Humidity	65%	Pressure Dew Point	2-10°C

Refrigeration System Data

Item	Parameter	Item	Parameter
Refrigeration Compressor	Hermetic Rotary Compressor	Evaporator Type	Aluminum Plate-fin Heat Exchanger

Refrigerant	R410a	Refrigerant Charge	0.6 Kg
Main Unit Power	0.8 HP	Dew Point Display	Equipped
Cooling Type	Air-cooled	Air Exhaust Mode	Top-mounted Exhaust
Heat Exchanger Material	Aluminum-magnesium Alloy	Condenser Type	Air-cooled Condenser

Electrical & Control System Data

Item	Parameter	Item	Parameter
Total Machine Power	0.75 kW	Ambient Temperature	2-38°C
Start-stop Mode	Local/Remote Control	Cooling Air Volume	1800 m³/h
Fault Alarm	Local Alarm	Fan Power	180 W
Communication Mode	485 Interface	Installation Location	Indoor
Power Specification	220V/1PH/50HZ	Hazard Class	Non-hazardous

Mechanical & Installation Data

Item	Parameter	Item	Parameter
Connection Size	G1"	Inlet Oil Content	3 mg
Blowdown Size	Φ8 mm Hose	Inlet Particle Content	1 ppm
Blowdown Type	Electronic Timing Automatic Blowdown	Condensate Treatment	On-site Collection
Main Material	Aluminum-magnesium Alloy	Installation Type	Foundation-free Installation
Transportation Mode	Hydraulic Trolley/Manual Handling	Overall Dimension	500*520*730 mm
Net Weight	45 kg	-	-

Refrigeration System Operating Protection Data

Item	Parameter	Item	Parameter
Evaporation Pressure	7.5 Bar	Condensation Pressure	23 Bar
High Pressure Protection	35 Bar	Low Pressure Protection	0.3 Bar

Core Applications & Industry Scope

Core Applications

This refrigerated compressed air dryer is specially designed to remove moisture, water vapor, partial oil and particulate impurities from compressed air, providing clean, dry and stable compressed air for various pneumatic equipment and industrial processes, effectively protecting downstream pneumatic components, precision instruments and production equipment from water corrosion and damage.

Applied Industries

- Manufacturing Industry: Automobile manufacturing, mechanical processing, electronic product manufacturing, injection molding industry
- Pneumatic Equipment Industry: Pneumatic tools, pneumatic valves, pneumatic transmission systems, automation assembly lines
- Food & Beverage Industry: Food processing, beverage production, packaging machinery (clean compressed air supply)
- Pharmaceutical Industry: Pharmaceutical production, medical device processing, sterile pneumatic systems
- Electronics & Electrical Industry: Precision electronic components production, semiconductor processing, circuit board manufacturing

- General Industrial Applications: Air compressor stations, industrial air purification systems, small and medium-sized industrial production lines
 - Packaging & Printing Industry: Automatic packaging machinery, printing equipment, pneumatic printing systems
-

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!

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