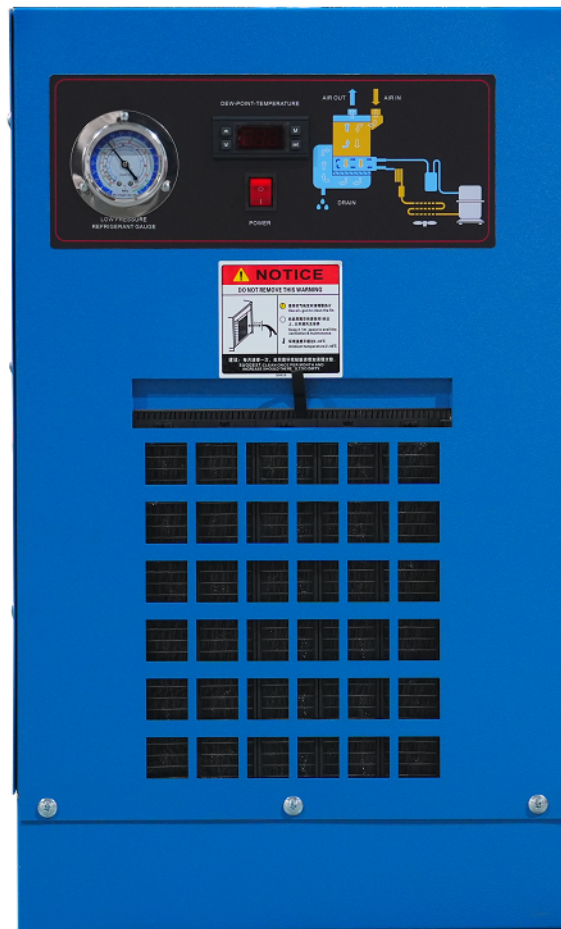


DM015APF Refrigerated Compressed Air Dryer

Refrigerated Air Dryer









Product Specifications

Air Capacity	1.5 Nm ³ /min
Rated/Maximum Inlet Pressure	7Bar /16Bar
Rated/Maximum Inlet Temperature	45°C /55°C
Pressure Dew Point (PDP)	2-10°C
Heat Exchanger Type	Aluminum Plate-Fin Heat Exchanger
Refrigerant	R134a
Power Supply Specification	220V/1PH/50HZ
Whole Machine Power	0.7kw
Fan Power	180w

Product Description

Product Overview

This DM015APF refrigerated air dryer is a professional compressed air purification equipment, designed to efficiently remove moisture, water vapor and condensate from compressed air. With stable performance, compact structure and easy operation, it perfectly meets the purification needs of small and medium-sized compressed air systems, protecting downstream pneumatic equipment, pipelines and precision instruments from corrosion, freezing and blockage, and ensuring stable production operation.

Product Features

- Adopts high-quality hermetic rotary compressor, featuring stable operation, low noise, strong refrigeration capacity and long service life, with zero oil leakage hidden danger.
- Equipped with aluminum-magnesium alloy plate-fin evaporator & heat exchanger, high heat exchange efficiency, lightweight and corrosion-resistant, optimizing overall drying effect.
- Stable pressure dew point control ranging from 2°C to 10°C, delivering consistent high-quality dry compressed air continuously.
- Low pressure loss design ($\leq 17\text{KPa}$), effectively reducing air system energy consumption and lowering operating costs.
- Built-in automatic drainage system, realizing uninterrupted automatic condensate discharge without manual operation.
- Air-cooled cooling mode, simple structure, no need for additional cooling water, easy daily maintenance.
- Compact and reasonable body design, small occupied space, supports no-foundation indoor installation, flexible placement.
- Configured with complete high and low pressure protection devices, equipped with local fault alarm, ensuring safe and stable long-term operation.
- Adopts eco-friendly R134a refrigerant, compliant with international environmental protection standards, safe and non-toxic.

Product Core Advantages

- 1. Stable & Reliable Performance:** Mature refrigeration system design, stable dew point output, no frequent fluctuation, strong equipment durability.
- 2. Energy Saving & Low Consumption:** Optimized internal structure reduces pressure loss, matched high-efficiency components lower overall power consumption.
- 3. Easy Installation & Maintenance:** No foundation installation, lightweight body, simple pipeline connection, low daily maintenance workload.
- 4. Compact Structure:** Small outline dimension, suitable for narrow installation spaces and scattered small production scenarios.
- 5. Safe Operation:** Full-range pressure protection and local fault alarm, avoiding equipment damage and production interruption.
- 6. Cost-Effective:** High-quality core components, long service cycle, low later maintenance and replacement costs.

Complete Core Technical Parameters

1. Basic Equipment & Air Performance Data

Item	Parameter	Unit
Product Type	Refrigerated Air Dryer	-
Model	DM015APF	-

Application Medium	Compressed Air	-
Pressure Loss	≤17	KPa
Rated Flow Rate	1.5	Nm ³ /min
Outlet Air Flow	1.5	Nm ³ /min
Rated Inlet Pressure	7	Bar
Max Inlet Pressure	16	Bar
Rated Inlet Temperature	45	°C
Max Inlet Temperature	55	°C
Relative Humidity	65	%
Pressure Dew Point	2-10	°C
Inlet Oil Content	3	mg
Inlet Particles	1	ppm

2. Refrigeration System Parameters

Item	Parameter	Unit
Refrigeration Compressor	Hermetic Rotary Compressor	-
Compressor Model	DFV115HF	-
Refrigerant	R134a	-
Refrigerant Charge	0.25	Kg
Main Unit Power	0.7	HP
Main Unit Refrigerating Capacity	1020	W
Evaporator Type	Aluminum Plate-fin Heat Exchanger	-
Heat Exchanger Material	Aluminum-magnesium Alloy	-
Air Cooled Condenser	Standard Configuration	-
Evaporation Pressure	2.2	Bar
Condensing Pressure	11	Bar
High Pressure Protection	15	Bar
Low Pressure Protection	0.15	Bar

3. Electrical & Operating Environment Parameters

Item	Parameter	Unit
Total Machine Power	0.7	kW
Fan Power	180	W
Power Supply	220V/1PH/50HZ	-
Start-Stop Mode	Local Control	-
Fault Alarm	Local Alarm	-
Communication Protocol	None	-
Ambient Temperature	2-38	°C
Cooling Air Volume	1800	m ³ /h
Installation Location	Indoor	-
Hazard Nature	Non-hazardous	-

4. Mechanical & Connection Data

Item	Parameter	Unit
Connection Size	G1"	-
Blowdown Connection Size	Φ8 mm Hose	mm
Blowdown Type	Automatic	-
Condensate Treatment	On-site Collection	-
Main Material	Aluminum-magnesium Alloy	-
Equipment Installation	No Foundation Installation	-
Transport Mode	Hydraulic Truck / Manual Handling	-
Overall Dimension (L*W*H)	450*470*750	mm
Net Weight	40	kg

Core Purpose & Applicable Industries

Core Purpose

Efficiently dry compressed air, eliminate excess moisture and condensate in the air pipeline, prevent pipeline corrosion, instrument failure, equipment freezing and product quality defects caused by moisture. Provide stable dry compressed air for various industrial pneumatic systems, extend the service life of pneumatic components, and guarantee the stability and reliability of production processes.

Applicable Industries

- Small & medium-sized industrial compressed air systems
- Food processing & beverage production lines
- Small precision electronic & electrical manufacturing
- Pneumatic automation equipment & small machinery
- Instrumentation & precision processing industry
- Printing, packaging and small assembly lines
- Laboratory air purification systems
- Auto repair shops & small manufacturing workshops

Model	Capacity (Nm³/min)	Power	Compressor Power (HP)	Weight (kg)	Dimensions (L×W×H)
DM010GF	1	220/50	0.65	50	720*375*670
DM015GF	1.5	220/50	0.85	60	750*400*700
DM026GF	2.6	220/50	1	80	800*450*730
DM040GF	4.0	220/50	1.25	105	800*475*800
DM065GF	6.5	220/50	1.75	136	950*500*880
DM085GF	8.5	220/50	2	165	1060*560*983
DM110GF	11	380/50	3	195	1180*630*1092
DM138GF	13.8	380/50	3.5	255	1180*670*1092
DM150GF	17	380/50	4	300	1240*670*1188
DM200GF	23	380/50	5	385	1420*790*1340
DM250GF	27	380/50	6	400	1650*820*1370
DM300GF	35	380/50	8	550	1650*820*1370
DM400GF	45	380/50	10	630	1850*920*1550
DM500GF	55	380/50	12	680	1980*930*1826
DM600GF	65	380/50	15	720	2080*930*1834

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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