Demargo® Demargo

DM065APF Refrigerated Air Dryer

Refrigerated Air Dryer


NOTICE
DEW POINT-TEMPERATURE
AIR OUT
AIR IN
POWER
DRAIN

Product Specifications

Maximum Air Flow	256 CFM
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	< 122°F
Ambient Temperature	≤ 100°F
Duty Cycle	Continuous Operation
Control Method	Microcomputer Control
Pressure Drop	≤ 0.020 MPa

Drain Valve	Electronic Drain Valve
Cooling Method	Air-Cooled
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 Features

• Adopts high-quality hermetic rotary compressor, featuring stable operation, low noise, high refrigeration efficiency and long service life.

• Equipped with aluminum-magnesium alloy plate-fin heat exchanger, delivering superior heat exchange performance and compact structure.

• Stable pressure dew point control (2-10℃), ensuring continuous and stable dry compressed air output.

• Low pressure loss design (≤25KPa), effectively reducing air system energy consumption and operating costs.

• Intelligent electronic timing automatic drain system, realizing fully automatic drainage without manual operation.

• Built-in real-time dew point display, enabling intuitive monitoring of drying effect at any time.

• Supports local & remote dual operation modes, equipped with RS485 communication interface for intelligent linkage.

• Air-cooled cooling type with top air discharge, easy installation, convenient maintenance and strong environmental adaptability.

• Complete high & low pressure protection devices, fully guaranteeing safe and stable long-term operation of the equipment.

• Compact overall size, light weight, suitable for narrow installation spaces and diversified working scenarios.

Product Competitive Advantages

1. **High Efficiency & Energy Saving**: Optimized refrigeration system and high-efficiency heat exchanger greatly reduce energy loss, lowering daily operating costs.

2. **Stable Drying Performance**: Constant pressure dew point output, no fluctuation of drying effect, fully meeting industrial production air quality requirements.

3. **Low Maintenance Cost**: Automatic drainage, durable core components and trouble-free design reduce daily maintenance workload and maintenance expenses.

4. **Flexible & Convenient Installation**: No fixed foundation needed, compact structure, small floor space, suitable for various indoor installation environments.

5. **Safe & Reliable Operation**: Full-range fault alarm and pressure protection, supporting 24-hour uninterrupted operation, with high equipment stability.

6. **Eco-friendly Design**: Adopts green environmental protection refrigerant R410a, conforming to international environmental protection standards.

7. **Intelligent Control**: Humanized operation panel, supporting remote monitoring and control, meeting intelligent factory supporting requirements.

Complete Core Technical Parameters

1. Compressed Air Performance Parameters

Item	Parameter Details	Unit
Rated Inlet Air Flow	6.5	Nm³/min
Outlet Air Flow	6.5	Nm³/min
Rated Inlet Pressure	7	Bar
Max Inlet Pressure	16	Bar
Rated Inlet Temperature	45	℃
Max Inlet Temperature	55	℃
Relative Humidity	65	%
Pressure Dew Point	2-10	℃
Pressure Loss	≤25	KPa
Inlet Oil Content	3	mg
Inlet Particles	1	ppm

2. Refrigeration System Parameters

Item	Parameter Details	Unit
Refrigeration Compressor	Hermetic Rotary Compressor	-
Refrigerant	R410a	-
Refrigerant Charge	0.8	Kg
Evaporator Type	Aluminum Plate-fin Heat Exchanger	-
Heat Exchanger Material	Aluminum-magnesium Alloy	-
Cooling Type	Air-cooled	-
Air Discharge Mode	Top Air Discharge	-
Dew Point Display	Equipped	-
Evaporation Pressure	7.5	Bar
Condensing Pressure	23	Bar
High Pressure Protection	35	Bar
Low Pressure Protection	0.3	Bar

3. Electrical & Control Parameters

Item	Parameter Details	Unit
Main Unit Power	1.7	HP
Total Machine Power	1.55	kW
Fan Power	250	W
Power Supply	220V/1PH/50HZ	-
Start-stop Mode	Local / Remote	-
Fault Alarm	Local Alarm	-
Communication Mode	485 Interface	-
Ambient Temperature	2-38	℃
Cooling Air Volume	3000	m³/h

4. Mechanical & Connection Parameters

Item	Parameter Details	Unit

Connection Size	G1.5"	-
Drain Connection Size	Φ8 Hose	mm
Drain Type	Electronic Timing Automatic Drain	-
Condensate Treatment	On-site Collection	-
Main Material	Aluminum-magnesium Alloy	-
Overall Dimension (L*W*H)	500*520*870	mm
Net Weight	65	kg

Core Applications & Service Industries

Core Purpose

Efficiently remove water vapor, moisture and condensate contained in compressed air, avoid corrosion, freezing, blockage and other faults of pneumatic pipelines, valves, instruments and execution equipment, ensure the normal operation of pneumatic systems, stabilize production process quality and extend equipment service life.

Applicable Industries

• General Industrial Compressed Air System

• Food & Beverage Processing Industry

• Pharmaceutical & Medical Equipment Manufacturing

• Precision Electronics & Electrical Appliances Manufacturing

• Textile Printing & Dyeing Industry

• Printing & Packaging Machinery Industry

• Pneumatic Automation Production Line

• Automobile Manufacturing & Maintenance Industry

• Instrumentation & Precision Machining Industry

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℃ to -70℃, 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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