

DM110ZHMR Combined Compressed Air Dryer

Combined Air Dryer







Product Specifications

Air Handling Capacity	11m ³ /min
Inlet Air Temperature	≤55°C
Cooling Method	Air Cooling
Ambient Temperature	≤38°C
Pressure Dew Point	-40°C
Refrigerant	R22
Inlet Air Pressure	0.6-1.0MPa
Adsorbent	Alumina or Molecular Sieve
Control Mode	PLC Control

Pressure Loss	≤0.05MPa
Power Supply	380/50V/Hz
Refrigeration Power	3.0hp
Heating Power	4.5kW
Cooling Air Volume	7800m³/h
Air Connection Diameter	2"
Equipment Weight	580kg

Product Description

This combined compressed air dryer can achieve a compressed air pressure dew point of -40 °C. For the dryness level of treated compressed air, please refer to Section 2.3 "Estimation of Condensate Output in Air Compressor System".

2) The adsorbent is a consumable part, with a replacement cycle of approximately 8000 hours.

Core Product Parameters

- **Model:** DM110ZHMR Combined Compressed Air Dryer
- **Air Flow:** 11 m³/min
- **Pressure Dew Point:** Stable at -40 °C
- **Working Pressure:** 0.6-1.0 MPa
- **Control System:** Intelligent PLC Automatic Control
- **Cooling Mode:** Efficient Air Cooling
- **Pressure Loss:** ≤0.05 MPa (Low Energy Consumption)

Core Advantages & Features

- **Ultra-Low Dew Point Performance:** Integrated refrigeration and adsorption drying technology, stably outputting compressed air with -40 °C pressure dew point, thoroughly removing moisture, oil and impurities from compressed air to meet high-purity gas demands.
- **Intelligent & Stable Operation:** Equipped with PLC automatic control system, realizing full-automatic operation, fault self-diagnosis and real-time parameter monitoring, reducing manual operation and maintenance workload.
- **Low Pressure Loss & Energy Saving:** Optimized internal airflow design, ultra-low pressure loss within 0.05 MPa, effectively reducing air compressor load and overall operating energy consumption.
- **Strong Environmental Adaptability:** Adaptable to inlet air temperature up to 55 °C and ambient temperature up to 38 °C, suitable for various harsh working environments with stable performance.
- **Flexible Adsorbent Configuration:** Optional alumina or molecular sieve adsorbent, supporting long service life (up to 8000 hours replacement cycle), easy to disassemble and replace.
- **Compact Integrated Design:** Combined structure saves installation space, air cooling design eliminates extra water supply, simple installation and wide applicability.
- **Reliable & Durable:** Stable refrigeration system, robust overall structure, long continuous working life, reducing equipment downtime and maintenance costs.

Core Applications & Industries

Core Applications

Purification and drying treatment of industrial compressed air, removing moisture, oil mist, dust and other impurities from compressed air, providing dry, clean and high-purity compressed air for industrial production and pneumatic equipment.

Applicable Industries

- Electronics & Precision Manufacturing (Semiconductor, PCB, Precision Instrument Production)
 - Pharmaceutical & Medical Equipment Industry
 - Food & Beverage Processing & Packaging Industry
 - Automobile Manufacturing & Spray Painting Industry
 - Textile Printing & Dyeing Industry
 - Petrochemical & Chemical Industry
 - Aerospace & High-End Mechanical Processing
 - General Industrial Air Compressor System Matching
 - Pneumatic Control & Pneumatic Power Equipment Supporting
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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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