

DM300MR Zero-air-loss compressed-heat dryer

Desiccant Air Dryer











Product Specifications

Flow	Contra-Flow
Drying Medium	Air
Structure	Screw
Operation Pressure	Atmospheric Pressure
Inlet Temperature	Normal Temperature

Cooling Way	Water Cooling
Capacity	50m³/Min
Inlet Air Temperature	≥110℃
Design Temperature	200℃
Exhaust Temperature	≤50℃
Outlet Pressure Dew Point	≤-40 ℃
Pressure Loss	≤0.04MPa
Regeneration Method	Compressed Heat Regeneration
Control System	Intelligent PLC with Touch Screen HMI
Compressed Type	Alumina or Molecular Sieve
Cooling Water Flow Rate	40t/H
Inlet and Outlet Diameters of Cooling	DN65
Power Supply	220V/50Hz/1p Auxiliary: 380V/3/50Hz)
Transport Package	Wooden

Product Description

Zero-Air-Loss Compressed-Heat Dryer

Our Zero-Air-Loss Compressed-Heat Dryer represents the pinnacle of energy efficiency in compressed air drying technology. Unlike conventional blower-purge or heated dryers that continuously consume energy to expel saturated air, this innovative dryer utilizes the inherent heat of the compressed air itself for regeneration. Through an advanced internal cycling process, it achieves profound dew points without any loss of compressed air to the atmosphere. This "zero air loss" design translates into dramatic reductions in energy consumption and operating costs, delivering a rapid return on investment. Ideal for demanding applications where reliability and low lifetime cost are critical, this dryer provides a maintenance-friendly and environmentally conscious solution for achieving consistently dry, high-quality compressed air.

Available in a variety of colors and styles !



Parameter	DM300YR	DM350YR	DM400YR	DM450YR	DM500YR	DM600YR	DM700YR	DM800YR	DM1000YR
Treatment Capacity (Nm ³ /min)	32	36	42	45	50	60	70	80	100
Power Consumption (w)	150	150	150	150	200	200	200	200	200
Overall Dimension - Length (mm)	2450	2450	2500	3100	3150	3250	3300	3350	3800
Overall Dimension - Width (mm)	1800	1800	1800	1900	2100	2300	2500	2500	2800
Overall Dimension - Height (mm)	2800	2800	2800	2850	2900	2950	3100	3200	3600
Inlet & Outlet Diameter	DN80	DN80	DN100	DN100	DN125	DN125	DN125	DN125	DN150
Weight (kg)	1880	2000	2200	2350	2500	2800	3250	4350	5000

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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