

Zero Air Consumption Compressed Heat Adsorption Air Dryer

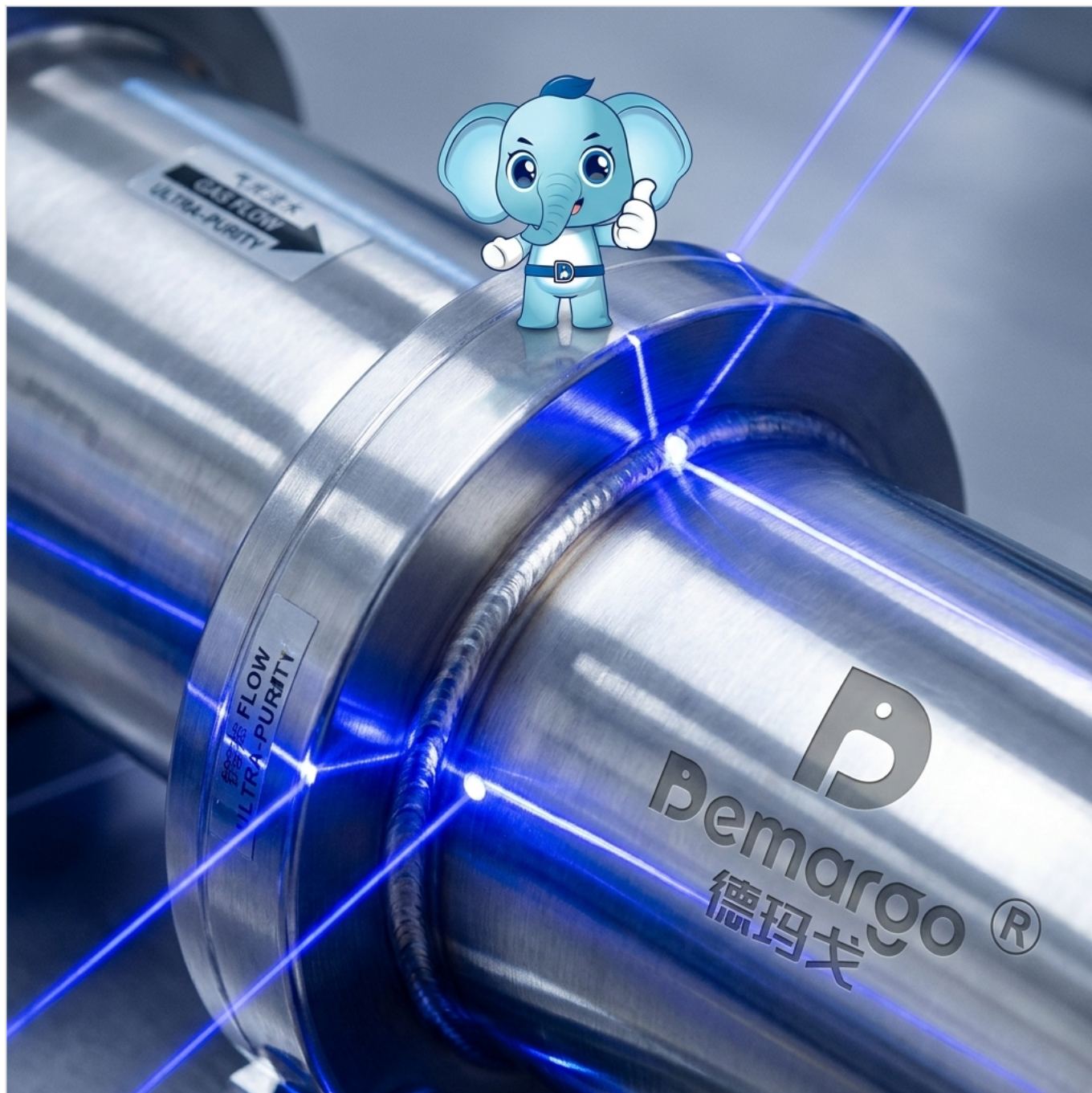
Desiccant Air Dryer













Product Description

Our zero air consumption compressed heat adsorption air dryers adopt advanced compressed heat regeneration technology, which can deeply remove moisture from compressed air without consuming additional regeneration air, achieving ultra-low pressure dew point and providing energy-saving, efficient and clean dry compressed air for industrial production.

1. Application Industries

Widely applied in industries that have strict requirements on compressed air dryness and energy conservation, such as petrochemical, natural gas, power generation, metallurgy, automotive manufacturing, electronics & semiconductor, pharmaceutical, food & beverage, precision machinery, pneumatic instrumentation and textile industry.

2. Custom Configuration Service

Please provide us with your key parameters: compressed air flow rate, working pressure, required pressure dew point (such as -20°C , -40°C , -70°C), inlet air temperature, ambient temperature and installation space. Our professional technical team will combine your actual needs to configure the most suitable zero air consumption compressed heat adsorption air dryer model and overall purification solution for you.

3. Optional Materials & Components

- Adsorption material: high-efficiency molecular sieve, activated alumina (optional according to different dew point requirements)
- Tank body: carbon steel with anti-corrosion coating, stainless steel 304 / 316L (suitable for harsh working environments)
- Control system: PLC intelligent control, touch screen operation, automatic regeneration switching, fault alarm function
- Valves: imported high-pressure solenoid valves, ball valves (high pressure resistance, long service life)
- Accessories: pressure dew point online detector, differential pressure gauge, automatic drain valve, silencer, heat exchanger
- Regeneration system: compressed heat regeneration (zero air consumption), auxiliary electric heating (optional for low-temperature environment)
- Voltage & frequency: customizable to meet the power supply standards of different countries and regions (such as 110V/60Hz, 220V/50Hz)

4. Main Features

- Zero air consumption regeneration: no need to consume compressed air for regeneration, saving energy and reducing production costs significantly
- Stable drying effect: ultra-low pressure dew point, strong moisture removal capacity, ensuring the quality of compressed air
- Intelligent operation: full automatic control, no manual intervention, easy to operate and maintain
- Durable structure: high-quality materials and components, anti-corrosion and wear-resistant, long service life
- Energy-saving and environmental protection: relying on compressed air waste heat for regeneration, reducing energy consumption and carbon emissions
- Compact design: small floor space, easy to install, suitable for various installation environments

For more detailed models, technical parameters, customization plans and quotation information, please contact us for details.

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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