

Non-standard Custom CO2 Refrigerated Air Dryer

Explosion-Proof Air Dryer











Product Description

As a professional manufacturer specializing in refrigerated air dryers and desiccant air dryers, Demargo (Shanghai) Energy-Saving Technology Co., Ltd is committed to providing high-quality, non-standard customized CO2 refrigerated air dryer solutions tailored to your specific industrial needs. Our CO2 refrigerated air dryers are specially designed to remove moisture and impurities from carbon dioxide gas, ensuring the stability and safety of your production processes, while complying with international standards such as CE and ISO 9001.

Applicable Industries

Our non-standard custom CO2 refrigerated air dryers are widely used in various industries that require dry and pure CO2 gas, including but not limited to:

- **Food & Beverage Industry:** For carbonated drinks, food preservation and cold chain transportation, ensuring food safety and extending shelf life.
- **Petrochemical & Oil & Gas Industry:** Suitable for CO2 compression, recovery and reinjection processes, protecting equipment from corrosion and ensuring stable operation.

- Semiconductor Industry: Used in supercritical CO₂ cleaning, chip testing and cleanroom temperature control, meeting the strict requirements of high precision and low dew point.
- Pharmaceutical Industry: Providing clean and dry CO₂ gas for drug production and packaging, complying with hygiene and safety standards.
- Water Treatment & Environmental Protection Industry: Applied in CO₂ purification and emission control, contributing to green and low-carbon production.

Customization Process: What You Provide, We Customize

We adhere to a customer-oriented customization concept, and you only need to provide us with the following key parameters. Our professional R&D and engineering team will design and configure the most suitable CO₂ refrigerated air dryer for you, ensuring perfect matching with your production line:

- CO₂ handling capacity (Nm³/min or CFM), inlet pressure and inlet temperature.
- Required pressure dew point (from 2°C to -40°C, or lower according to your special needs).
- Working environment conditions (ambient temperature, humidity, installation space and special requirements such as explosion-proof, corrosion-proof).
- Special industry standards or certification requirements (such as ASME, CE, FDA for food and pharmaceutical industries).
- Other special needs (such as cooling method, control system type, pipeline interface size).

Optional Materials & Accessories

To ensure the durability, corrosion resistance and high efficiency of the equipment, we provide a variety of high-quality optional materials and accessories, supporting you to choose according to your industry characteristics and budget:

Optional Materials

- Body Material: Carbon steel (standard), 304/316L stainless steel (for food, pharmaceutical and corrosive environments).
- Heat Exchanger Material: Aluminum plate-fin (standard), copper tube with aluminum fins, stainless steel (for high corrosion and high hygiene requirements).
- Pipeline Material: Carbon steel, stainless steel, copper (according to the corrosiveness of the medium and working pressure).

Optional Accessories

- Compressor: Bitzer, Hitachi, Danfoss (international famous brands, high reliability and energy efficiency).
- Control System: PLC control (Siemens, Mitsubishi), touch screen operation, remote monitoring function (optional) for easy operation and maintenance.
- Refrigerant: Environmentally friendly refrigerant such as R134a, R407c, R410a (zero ozone depletion potential, complying with EPA/SNAP standards).
- Auxiliary Accessories: Dew point analyzer, automatic non-clogging drain valve, centrifugal separator, visual moisture indicator, precision filter (to further improve gas purity).
- Cooling System: Air-cooled (standard), water-cooled (optional, suitable for high ambient temperature environments).

Our Advantages

With years of experience in R&D and production of compressed air treatment equipment, we have a professional technical team and strict quality control system. All customized CO₂ refrigerated air dryers undergo 48-hour full-load testing before leaving the factory to ensure stable performance and reliable operation. We also provide 24-hour technical support and after-sales service to solve your problems in a timely manner.

For more specific details about non-standard custom CO₂ refrigerated air dryers, including customized solutions, technical parameters, quotation and delivery time, please contact us directly. We will provide you with one-to-one professional consultation and customized services to meet your unique production needs.

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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