

Micro-Heat Regeneration Adsorption Type Compressed Air Dryer

◆ Product Description

A compressed air dryer is a piece of equipment specially designed to remove moisture from compressed air, and it is widely used in various fields such as chemical industry, electronics, and food processing.



- Deep Dehumidification, Precisely Controllable Dew Point
- Energy-Efficient & High-Performance, Optimized Operating Costs
- Stable & Durable, Ultra-Low Maintenance Costs
- Wide Compatibility, Flexible & Convenient Installation
- Intelligent Control, Safe & Reliable Operation

◆ Product Structure

● The compressed air dryer adopts an integrated and compact design, with the core process consisting of intake air filtration and preprocessing → temperature reduction via built-in pre-cooler → single-stage compression refrigeration and adsorption drying → gas-water separation and automatic drainage → intelligent control and safety protection. Through the synergistic operation of precision filtration, high-efficiency heat exchange, deep dehumidification, automatic separation and other units, it is equipped with a PLC intelligent control system and multiple safety protection devices. This design not only simplifies flow channels and reduces energy consumption, but also saves floor space, while achieving unattended operation and stable performance. It meets the dehumidification needs of single-stage compression working conditions in various industries.

◆ Typical Applications

- Compressed air dryers are commonly used in fields such as chemical industry, pneumatic control, electronics, metallurgy, food processing, pharmaceuticals, and instrumentation. Typical applications include the drying of medical compressed air, gas for valves and pneumatic motors, and gas used in the pressurization process of communication cables. They can also be applied to humidity control in aircraft cockpits and air humidity regulation inside submarines, among other scenarios.

◆ Typical Product Data and Physical Properties

Body Frame Material: Q235 Carbon Steel
 Pre-cooler Material: Red Copper Tubes + Aluminum Alloy Fins
 Intake Air Filter Material: Glass Fiber Filter Media
 Compression Stage: Single-Stage Compression
 Working Pressure: 0.7MPa
 Minimum Processed Airflow: 12.8m³/min
 3.6m³/min
 Pressure Dew Point: 2°C - 10°C
 Voltage/Power: 380V/60Hz/4KW
 220V/50Hz/0.9KW
 Connection Port: DN65 / DN45
 Temperature Resistance Range: -20°C ~ 120°C

Availability:

Item#	Compression Stage	Working Pressure	Minimum Processing Capacity	Voltage/Power	Connection Port
1.4.24.01.0115	Single-Stage Compression	0.7MPa	12.8m ³ /min	380V/60HZ/4KW	DN65
1.4.24.01.0102	Single-Stage Compression	0.7MPa	3.6/min	220V/50HZ/0.9KW	DN45

◆ Technical and Application Assistance

HORB provides a technical hotline to answer your technical and application related questions.

◆ Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. HORB data is for reference purposes only.

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