Compressed Air Cooling System

This compressed air cooling system efficiently cools compressed air for industrial applications. It uses a vertical shell and tube heat exchanger with an air-cooled aftercooler to remove moisture and reduce the temperature of compressed air.

Product Overview

Industrial Compressed Air Cooling

This compressed air cooling system is engineered to precool high-temperature compressed air, ensuring it meets the strict inlet requirements for downstream drying and cleaning equipment. By utilizing efficient heat exchange processes, the system effectively reduces air temperature and removes moisture. It is designed for reliability and performance in demanding industrial environments.

Performance Metrics

Key Performance Indicators

1 MPa	45 °C	0.015 MPa
Max Pressure	Max Export Temp	Max Pressure Drop

Rated Running Pressure	1 MPa
Air Pressure Drop	0.015 MPa
Air Export Temperature	45 °C

Technical Specifications

Temperature Limits Table

Parameter	Air Cooling	Water Cooling
Cooling Medium Temp	N/A	2-35°C
Air Entrance Temp	d 80℃	d 40℃

Cooling Method Compatibility	Water Cooling, Air Cooling
Ambient Temperature (Air Cooling)	38 °C

System Features

Key Design Features

- High-efficiency copper heat exchange pipes
- Automatic drainage device included
- Imported external rotor cooling fan
- Direct expansion aluminum fin tube row
- Low noise and high wind volume operation

Maintenance

Automatic Drainage • Long Service Life