

CO2 Cascade Refrigeration Unit

The CO2 Cascade Refrigeration Unit is designed for ultra-low temperature cold storage. It uses R744 as the low-temperature refrigerant and R404/R507 as the high-temperature refrigerant.



ADDITIONAL IMAGES



Overview

Industrial CO2 Cascade Refrigeration System

This industrial CO2 cascade refrigeration unit is engineered for demanding ultra-low temperature applications. Utilizing a cascade cycle with R744 (CO2) as the low-stage refrigerant, it provides superior performance and environmental sustainability for cold storage and process cooling. The system is designed for reliability, featuring robust compressor technology and advanced control systems to ensure precise temperature management in industrial environments.

Technical Specifications

Low Temperature Refrigerant

R744 (CO2)

Compressor Options

- Screw Compressor
- Piston Compressor

Evaporation Temperature

<-30°C

High Temperature Refrigerant

R404, R507

System Features

Customization & Compatibility

- Customizable Refrigeration Capacity
- Optional Energy Regulation
- Optional Condenser
- Global Electricity System Compatibility

Primary Applications

Ultra-low temperature cold storage, Industrial refrigeration, Process cooling