

Low Temperature Air Evaporator

This air cooler is designed for use in refrigeration units, with a focus on low-temperature applications. It is suited for use in environments such as -18 refrigerators.



ADDITIONAL IMAGES



Overview

CONFIGURATION

High-Efficiency Low Temperature Air Evaporators

The D series air cooler is a versatile range of cooling equipment designed for freon refrigeration units, specifically engineered for diverse cold storage requirements. Available in DL, DD, and DJ series, these units provide reliable temperature control ranging from 0°C for preservation to -25°C or less for deep-freeze applications. Featuring robust construction with high-efficiency axial fans, these evaporators ensure uniform airflow and optimal heat exchange for professional refrigeration environments.

Series Classification

APPLICATION

Series Application Guide

Series Type	Target Temperature	Primary Application
DL Type	Approx. 0°C	Fresh preservation storage
DD Type	-18°C	Standard refrigerator/freezer storage
DJ Type	-25°C or less	Deep frozen library storage

Fan Specifications



Available Fan Diameters

- 450mm
- 500mm
- 550mm
- 600mm
- 630mm

Operating Voltage	380 V
Frequency	50 Hz
Motor Type	Three-phase motor outer rotor net cover fan
Protection & Insulation	IP54 Protection Grade, Class F Insulation
Temperature Range	-30°C to 60°C

Material & Construction



Fin Materials

Aluminum • Copper

Pipe Materials

Copper • Stainless Steel

Casing Finish

White powder-coated or Stainless Steel for corrosion resistance

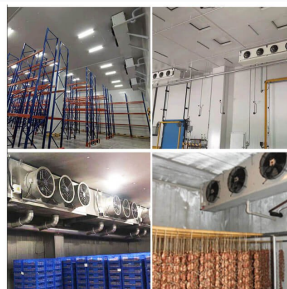
Production Process



Manufacturing Workflow

- Precision Punching
- Nesting plate preparation
- Expanded connecting
- Pipe cleaning
- U-tube seamless welding
- Seamless welding inspection
- Final Assembly
- Rigorous Packaging & Shipping

Application Features



Performance Features

Anti-corrosive construction, Optimized fin spacing, Minimal frost buildup, Ceiling-mount design, High-efficiency heat exchange