

Fan Coil Units (FCUs)



Precision Cooling with Performance You Can Trust

ZECO Fan Coil Units (FCUs) are engineered for modern buildings demanding precise climate control, low noise, and compact design. Available in Single Skin, Double Skin, and BLDC Motor variants, ZECO FCUs offer energy-efficient and space-saving solutions for commercial, institutional, and hospitality applications. These units deliver reliable cooling and heating while seamlessly integrating with VRF/VRV and chilled water systems.

Product Technical Specifications - Product Range

ZECO offers a versatile range of Fan Coil Units to meet diverse project requirements—whether for commercial, residential, or industrial applications. Our FCUs are engineered with performance flexibility, build quality, and application-specific design in mind..

Single Skin FCU

Double Skin FCU

FCU with BLDC Motor

Low & High Static Pressure Options

Low Static Pressure FCU

Low static FCUs are perfect for spaces where ducting is minimal or where direct air throw is sufficient. These units consume less energy and are more compact, making them ideal for cost-effective, space-sensitive projects.

High Static Pressure FCU

High static FCUs are perfect for spaces where ducting is minimal or where direct air throw is sufficient. These units consume less energy and are more compact, making them ideal for cost-effective, space-sensitive projects.

Features

- Compact Design
- AHRI Compliant Performance:
- Multiple Unit Types:
- Quiet Operation:
- Motor Options:
- Flexible Coil Options
- Versatile Pipe Configurations
- VRF/VRV Compatible
- Durable Drain Pan
- Efficient Filtration
- Service-Friendly Access
- Multiple Mounting Options

Benefits

- Improved Indoor Air Quality
- Energy Savings
- Low Noise Levels
- Flexible Integration
- Application Versatility
- Reduced Downtime
- Long-Term Durability
- Customizable Capacities
- Cost-Effective Comfort
- Sustainable Choice

Product Technical Specification

- Air Flow (CFM) – 400 CFM to 1600 CFM
- Total Capacity (TR) – 1 TR to 4 TR
- Three Speed Motor & Variable Speed (BLDC Motor)
- 12mm thick box type pre filter.
- Cooling Coil 3 & 4 RD (As per requirement).
- Fin Spacing – 12 FPI
- Entering Water Temp – 6.5 degree Celsius
- Leaving Water Temp – 12.5 degree Celsius

Construction Details

1. Single Skin:

- Cabinet material & Finish – 0.6mm Pre Coated G.I to 1.0 mm Pre Coated G.I
- Coil No. Of Rows & Fins Per Inch – 3 or 4 Row & 12 FPI
- Blower Material – Aluminium
- Coil Tube Material & Wall Thickness – Copper & 30 Gauge
- Fin Material – Aluminum.
- Single Skin Drain Pan with 13mm thick nitrile insulation.

2. Double Skin:

- Panel Thickness – 12 mm & 25 mm
- Cabinet material & Finish – Outer Skin – 0.6 mm Pre Coated G.I, Inner Skin – 0.6 mm Plain G.I
- Aluminum Frame Work.
- Blower Material – Aluminium.
- Coil Tube Material & Wall Thickness – Copper & 30 Gauge.
- Double Skin Drain Pan – Inner Skin 22G SS-304 & Outer Skin 24G Plain G.I. With 13mm thermocole or Puff In Between.
- Fin Material – Aluminum.
- Header Material – Copper Header With Flare Nut.

Product Certifications

AHRI Certified – ANSI / AHRI Standard 440-2008



Precision Comfort – Exactly Where You Need It

Feature / Capability	Single Skin FCU	Double Skin FCU	BLDC Motor FCU
Compact Design	✓	○	✓
Low Noise Operation	○	✓	✓
Energy Efficiency	○	✓	✓✓
High Static Pressure Capability	○	✓	✓
Low Static Applications	✓	✓	✓
Premium Acoustic Insulation	✗	✓	✓
Space-Saving Installation	✓	○	✓
Durable Construction	✓	✓✓	✓
Thermal Insulation	✗	✓	✓
Condensation Control	○	✓✓	✓
Efficient Filtration	✓	✓	✓
Service-Friendly Access	✓	✓	✓
Flexible Pipe Configurations	✓	✓	✓
VRF/VRV Compatibility	✓	✓	✓
Chilled Water Integration	✓	✓	✓
Variable Speed Operation	✗	○	✓✓
Energy Savings Potential	○	✓	✓✓
Long-Term Reliability	✓	✓✓	✓✓
Cost-Effective Solution	✓✓	○	✓
Premium Performance Applications	✗	✓✓	✓✓

Legend

✓ Standard / Best Fit

○ Optional / Available

✗ Not Applicable /
Not Recommended