



Innovative and Efficient Solutions for You

EWAD-C Air-Cooled Chillers 170 - 570 Tons



Engineered for flexibility and performance™

The Daikin EWAD-C Chiller

THE BEST CHOICE IN AIR-COOLED CHILLERS

Innovative Technology, Inspired Teamwork

Daikin has teamed their corporate resources and technologies to provide products that set world standards for performance, quality and sustainability. Drawing from the strengths of both companies, the Daikin family of products offers innovative solutions for today's most challenging issues backed by a culture of continuous improvement and sharing of technologies.



Efficient performance for operating cost savings throughout the life of the chiller

Quiet performance for even sound-sensitive environments

Reliable cooling on the hottest day of the year

Choices for multiple efficiency levels

Solutions for Your Toughest HVAC Issues

Reduce your operating costs

- Three levels of efficiency available to match your requirements
 - *Standard*: meets ASHRAE Standard 90.1 for efficiency
 - *High*: enhanced efficiency, up to 1.06 KW/TR at full load
 - *Premium*: highest full load efficiency in its class with part load performance that rivals chillers with VFDs

Neighborhood friendly, quiet operation

- The EWAD-C Chiller continues the Daikin legacy of air-cooled chillers with the quietest performance published, with sound pressure levels as low as 65 dBA with no attenuation
- Designed to be the quietest air-cooled chiller in the industry
 - Advanced, low-speed fans with patented blade profile for the ultimate in quiet operation
 - Unique single-rotor compressor minimizes mechanical vibration

Ideal for replacement opportunities

- Small unit footprint with the maximum condenser heat transfer per foot of unit length
- Smaller pad size required for installation

Manage your maintenance costs

- Planned maintenance agreements available from Daikin Factory Service
- **Truely semi-hermetic design-only screw chiller in the industry which is 100% Field Serviceable**
- Easy access for in-house maintenance staff or service contractors to reach the most commonly serviced unit components



Daikin EWAD-C Chiller

- 1] Compressor Controls**
Uses precise control logic for excellent operating efficiencies at both full and part load.
- 2] Optimized Condenser**
Maximum heat transfer surface area resulting in a small unit footprint.
- 3] Evaporators**
Direct expansion, pure counter-flow for impressive heat exchanger effectiveness.
- 4] Economizer**
Optimizes refrigerant flow for maximum performance on high and premium efficiency models.
- 5] Patented One-piece Molded Fan Blade**
Moves large quantities of air at exceptionally quiet levels. Composite material developed and tested for 10 years to resist UV light damage and corrosion.
- 6] Unique Single-rotor Screw Compressor**
Designed specifically to operate more quietly than dual screw compressors.
- 7] Easy Access**
Key components conveniently located on the periphery of the unit: compressors, filter-driers, manual liquid-line shutoff valves.



Interior View



Patented Condenser Fan Blade Design



Single Main Rotor - Dual Gaterotor Screw Compressor

- 8] **Serviceability**
Enough headroom for a service person to stand up comfortably inside the unit. Semi-hermetic compressor with complete field-serviceability.
- 9] **Multiple Compressors with Independent Circuits**
For efficient part load operation and unit redundancy.
- 10] **Precise, Proactive Controls**
Adjust to changing operating conditions, keeping the unit safely online while delivering optimum efficiency. Unit controller is easy for operators to learn and use.
- 11] **Wye-delta or Solid State Starters**
Wye-delta starter provided as standard solid state starters available as an option
- 12] **Expanded Electrical Voltages**
Ideal for new construction or retrofit projects; available at 60 Hz (380) and 50 Hz (400V).
- 13] **Open Choices™ Feature**
For easy integration with your choice of building control system using BACnet®, LonTalk® or Modbus® protocols.



Side View

Making your building A GREENER PLACE

for working, learning and enjoying...

Contributing to LEED® Points

The EWAD-C Chiller leads the industry in energy efficiency, quiet operation and responsible refrigerant management. For building owners who want to pursue Leadership in Energy and Environmental Design (LEED) Green Building Certification, the performance of the Pathfinder Chiller can contribute to the following LEED points.

- Energy and Atmosphere Credit 1, Optimize Energy Efficiency 1 to 19 possible points
- Energy and Atmosphere Credit 4, Enhanced Refrigerant Management 2 points

Committed to Environmental Responsibility

Air-cooled chillers have offered environmentally responsible refrigerants since 2002. The Daikin EWAD-C Chiller continues this legacy by operating with HFC-134a, a refrigerant with no ozone depletion potential and no phase-out schedule, making it the responsible choice for today and tomorrow.

Daikin has been named one of the 100 most sustainable corporations for three years in a row by Corporate Knights, Inc with Innovest Strategic Value Advisors, Inc. Daikin is committed to designing the most energy efficient, sustainable products in the industry. Our goal is a continuous improvement in energy efficiency to reduce CO₂ emissions from product usage.



The green heart symbol represents a determination on the part of each and every employee of the Daikin Group to think green.



Ready for the World

Daikin EWAD-C chillers are available with both 50 and 60 Hz in *Standard, High* and *Premium* efficiency models, designed specifically for installation anywhere in the world. Has proven its air-cooled chiller system expertise in more than 20,000 installations in some of the most demanding climates in the world.



EWAD-C Air-Cooled Chiller Summary Specifications

	Standard Efficiency	High Efficiency	Premium Efficiency
Capacity (tons)	170-500 TR	215-570 TR	215-445
Full load KW/TR	1.27-1.17	1.13-1.06	1- 0.976
Part load (IPLV, KW/TR)	0.85-0.795	0.78-0.73	0.75-0.73
Power	50 Hz, 60 Hz	50 Hz, 60 Hz	50 Hz, 60 Hz
Sound pressure (dBA) per ISO 3744	72 - 80	72 - 80	72 - 80
Refrigerant	R-134a	R-134a	R-134a

* Cooling capacity & KW/TR values are given at nominal AHRI standard conditions.



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