

EWAD~C

family for large applications

o All Seasons CLIMATE COMFORT

Heating

Air Conditioning

Applied Systems

Refrigeration







FEATURES & BENEFITS

APPLICATION FLEXIBILITY

No matter what the application, our series can provide the ideal solution thanks to its wide range of capacities (from 619-2,008 kW) and ambient operating temperatures (from -18°C to +52°C), while having one of the smallest footprint in the market.

LOW OPERATING COST

Reduced operating costs are achieved by our unique single screw compressor that provides maximum efficiency under both full and partial load conditions.

OUTSTANDING RELIABILITY

Innovative technology (eg. advanced composite compressor gaterotors) reduces the wear within the equipment contributing to increased equipment life and low total-cost-of-ownership.

SUPERIOR CONTROL LOGIC

The easy-to-use controls allow you to programme the system for maximum efficiency while, at the same time, providing a complete history of the unit's operations.

LOW OPERATING SOUND LEVEL

Reduced sound levels under full and partial operating conditions are achieved by the latest compressor technology and a unique fan design that moves large volumes of air almost silently, providing quiet operation for installation in even residential neighbourhoods.

INTEGRATED CONTROL SYSTEMS

Achieving absolute control over the operations of our 'EWAD~C' series of chillers is achieved by using the MicroTech III control units. These units provide a simple, user-friendly set of controls that allow you to set and monitor every aspect of the chiller's operations and to retain a long-term record for use by the maintenance engineers. To provide a total solution, the controllers easily integrate with the building automation system using LonTalk, BACnet, Modbus or other ethernet TCP/IP communication protocols.

OPTION AVAILABILITY

Since we offer a variety of combinations of capacities, efficiencies and sound control, we also offer an extensive list of options to optimise the EWAD~C chillers for your specific application and requirements. We found that our customers almost always selected many of these and so we now supply them as standard – however, there is a new range of options to enable you to **tailor** the system to your exact specifications. Notable amongst these is the **'Heat Recovery'** option for increased energy savings and to extend the application possibilities in hotels, etc.

	SOUND LEVEL				CAPACITY RANGE						
EFFICIENCY	Standard	Low	Reduced	600	800	1,000	1,500	2,000	2,500		
Standard	✓	✓	✓		619-1,922 kW						
High	✓	✓	✓		736-2,008 kW						
Premium	✓	✓	✓		809-	1,562 kW					



FEATURES & BENEFITS

INVERTER TECHNOLOGY

The use of inverter driven screw compressors in the new 'EWAD~CZ' range allows the units to deliver the highest partial load efficiency scores in their class with an **ESEER up to 5.8**, substantially reducing CO_2 emissions and decreasing annual operating costs.

APPLICATION FLEXIBILITY

Our new range, which is available in thirteen sizes, can be used in a variety of combinations to provide the optimal solution for applications where a reliable and top-performing chiller is essential.

EXTENSIVE OPTION LIST

The units now come ready fitted with an wide range of features but there is also an **extensive option list** that includes:

- fan speed regulation for an increased energy efficiency
- rapid restart option for facilities that cannot afford to loose cooling after a power failure

OUTSTANDING RELIABILITY

Even when maintenance activity is taking place, there is no loss of cooling 'back up' as the 'EWAD~CZ' chillers, depending on their size, have either two or three truly independent refrigerant circuits. Moreover, each component is chosen with maximum attention, to ensure the highest level of reliability to satisfy even the most demanding requirements.

WHY AN INVERTER?

Our market-leading inverter technology enables **the unit to continuously regulate** its thermal transfer flow by altering the speed of the compressor in response to the cooling demand. This is ideal for applications with variable load requirements such as comfort applications, where the high partial load efficiency of our solutions allows substantially reduced CO₂ emissions and decreased annual operating costs, hence much quicker system payback times.

Further, the use of inverter technology also contributes to **quieter sound levels** and precise chiller water temperatures, as well as lower starting current requirements, optimum power factors (always above 0.95), a reduction of water tanks for the hydraulic system and increased reliability thanks to fewer compressor startups and shut downs.

	SOUND LEVEL			CAPACITY RANGE						
EFFICIENCY	Standard	Low	Reduced	600	800	1,000	1,500	2,000	2,500	
Standard										
High	✓	✓	✓	635-1,802 kW						
Premium										

EWAD~CF

With the introduction of the new "free cooling" range to the EWAD-C chiller series, we deliver on our commitment to supply superior solutions, suitable for diverse applications, requiring the highest levels of energy efficiency, savings and comfort.



FEATURES & BENEFITS

INCREASED ENERGY EFFICIENCY

Using a 'free cooling' chiller the consumption of energy by the cooling units is significantly reduced during the colder seasons. In fact, when outside temperatures are cold enough – 3°C or lower depending on model – the chillers compressors are fully shut down and cooling is practically for free. This leads to dramatically **reduced** load on the compressors and **annual operating costs** as savings of up to 75% in energy consumption can be achieved.

Moreover, cutting the compressor usage is also contributing to extend the chillers' operating life, minimising even further the overall cost of an installation.

LOWERED CARBON FOOTPRINT

Because our 'free cooling' chillers use the colder outside air to precool the water used, they use significantly less input energy thus **reducing the global environmental impact** of the system and helping deliver the EU's energy targets while, at the same time improving your company's **green profile.**

DATA CENTRE MARKET

During the 1980s, computers started to be deployed everywhere, and as IT operations started to grow in complexity, companies

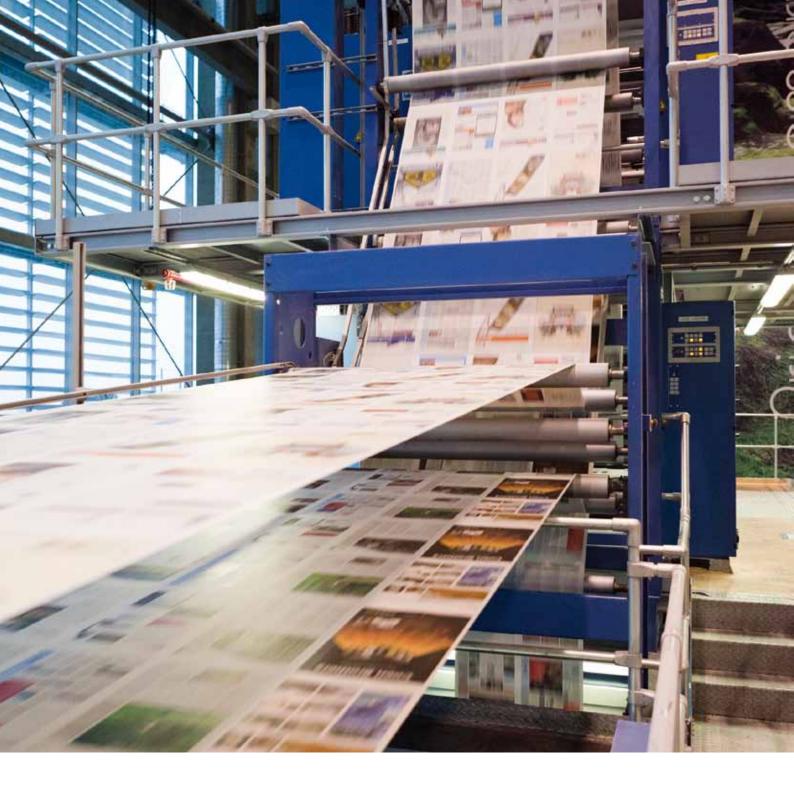
became aware of the need to place servers in a specific room inside the company or even to create specific facilities to house them. These facilities, or data centres, consume massive amounts of power and generate a great deal of heat and this has to be managed carefully to optimise performance of the equipment.

Over the years, data centres have become one of the biggest producers of greenhouse emissions in the business sector – and this is set to rise even further. The EU now wants to see a reduction in the power consumption and environmental impact of these facilities. One very important part of the solution is the use of highly energy efficient cooling systems such as the 'EWAD~CF' series.

WHAT'S FREE COOLING?

Free cooling is an economical method of using low external air temperatures to assist in chilling water, which is then used for the air conditioning systems in data centres or industrial processes. When the ambient air temperature drops below the set temperature, all or part of the chilled water bypasses the existing chiller and runs through the 'Free Cooling System'. This enables the chiller system to use less power resulting in energy savings, without compromising cooling requirements.

	SOUND LEVEL				CAPACITY RANGE					
EFFICIENCY	Standard	Low	Reduced	600	800	1,000	1,500	2,000	2,500	
Standard										
High	✓	✓	✓		602-1,555 kW					
Premium										





Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

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