



## EWAD-TZ

Air cooled chiller  
with R-134a inverter  
driven screw  
compressor





## → Energy savings

Today, Daikin is leading the way towards more efficient and cost-effective comfort solutions.

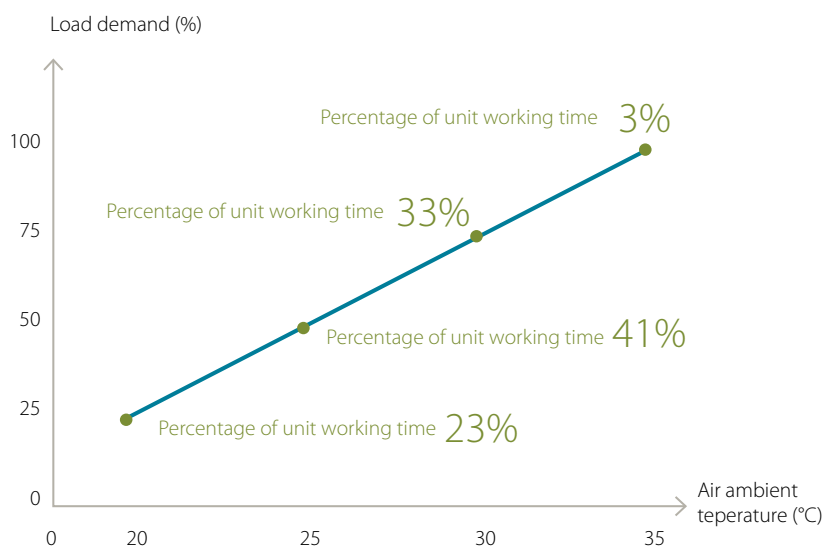
All Daikin products - residential and commercial as well as industrial - are seasonal efficient, they all reduce energy and costs in a smart way.

## → ESEER up to 6

New inverter screw chiller and capacity range (165-700 kW)

Delivers an ESEER of up to 6 (compared to 3.8 for a traditional chiller) giving it a CLASS A energy efficiency rating with exceptional part-load efficiency. This is one of the highest in the market and helps you save money.

**Lower running cost reducing the energy consumption up to 30% compared to a traditional non-inverter chiller**



### Seasonal efficiency

The European Seasonal Energy Efficiency Ratio (ESEER) is the parameter fully recognized in Europe for evaluating the product's annual performance.

It is calculated through a weighted formula that takes into account the variation of EER with the load rate and the variation of air inlet condenser temperature.

# Daikin chillers

The Daikin Group has a long worldwide experience in the design and manufacturing of screw chillers, enhancing the inverter technology for all those applications that require remarkable load variations during the year. Daikin chillers are assembled and factory tested before shipment, controls are pre-wired, adjusted and tested to offer almost a plug&play unit even for high cooling capacities. A special attention is also dedicated to provide the maximum serviceability so to ease the maintenance operations on site.

Daikin is a worldwide provider of 'green' chillers that ensure the lowest total cost of ownership and a fast payback time.

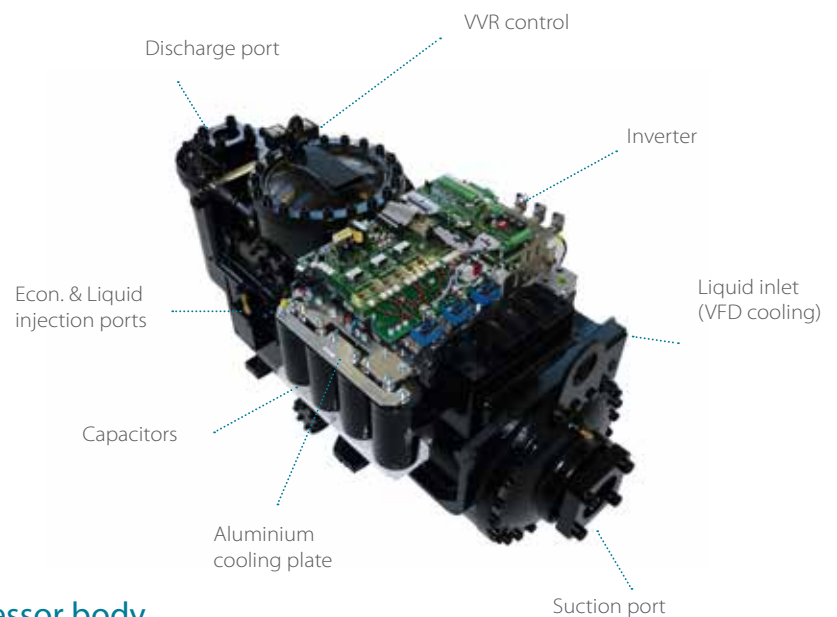
In its capacity range the new Daikin Inverter Screw chiller is suitable to comfort or process applications where the load variation during the year is not negligible and high part load efficiency is a must.

The new chiller represents a great opportunity to new or retrofit projects, easy to install and highly serviceable.



## New inverter compressor technology

- ✓ Compressor and inverter fully designed by Daikin
- ✓ Inverter integral to the compressor body
- ✓ Inverter refrigerant cooled
- ✓ VVR = Variable Volume Ratio for optimized efficiency
- ✓ Enlarged discharge port and suction side for reduced refrigerant pressure drop
- ✓ New optimized compressor motors





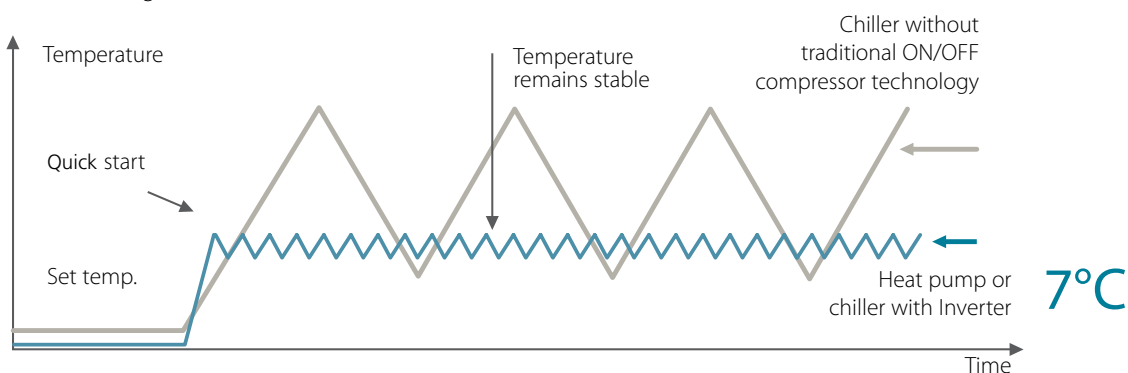
## → Rapid payback

As a result of leading edge design and engineering delivering the top efficiencies, our system regularly gives a 3-year Return-on-Investment (ROI) whereas a non-inverter unit takes twice as long. Software is available for annual energy cost and payback calculations.

## → Comfort level

### Inverter stepless regulation

Based on the geographical location and the application, the load profile of a building can vary enormously but our system has an infinitely variable load regulation without pre-set steps for a perfect comfort solution. The stepless regulation provides the required power to meet the demand, ensuring highly accurate leaving water temperature control and so delivering optimal comfort as well as cost savings.



## → Compact design

The compact design of our EWAD-TZ means you get the equivalent cooling capacity of a non-inverter unit but with better efficiency and the same physical footprint

The new series has been designed to need the minimum installation space. In particular, the highly efficient compressor with its integral inverter allows us to mount more compact heat exchangers in the frame and, combined with the use of a compact control panel, more power is delivered from a reduced footprint.



## → Extensive option list

Including:

- › Rapid restart after power failure
- › Variable speed water pumps
- › EC brushless condenser fans

## → Green heart

The Daikin philosophy is very much in line with recent and forthcoming legislation on energy efficiency and CO<sub>2</sub> emissions. The new inverter screw compressor at the heart of the 'EWAD-TZ' chiller range reflects our commitment to developing highly efficient systems that help to reduce energy consumption, without compromising on reliability and performance.

When updating and renewing business-critical process cooling and climate management systems, business owners can install the new 'EWAD-TZ' chillers to deliver a low ecological footprint.

## → Silent operations



As nothing is more disturbing to our comfort than the sound of machinery, our new series has been specially engineered with sound sensitive environments in mind. Great care has been taken to reduce sound levels under both full and part load operations by the use of a unique fan design incorporating variable fan velocity and additional vibration damping combined with a new inverter driven compressor with a variable frequency. All this results in the lowest possible sound levels.



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