



Movement by Perfection



The Royal League in ventilation, control and drive technology



Energy efficiency for refrigerating plants

Special: Refrigeration



Energy efficiency for refrigerating plants

Ziehl-Abegg – higher energy and cost efficiency in your refrigerating plant

Rely on products from Ziehl-Abegg. We provide clever and economical solutions in cold-storage rooms and cooling cabinets. We provide top efficiency in compressor control and we create unique silence around the condenser.

Energy and cost efficiency, durability and reliability. Don't leave those potential opportunities untapped!

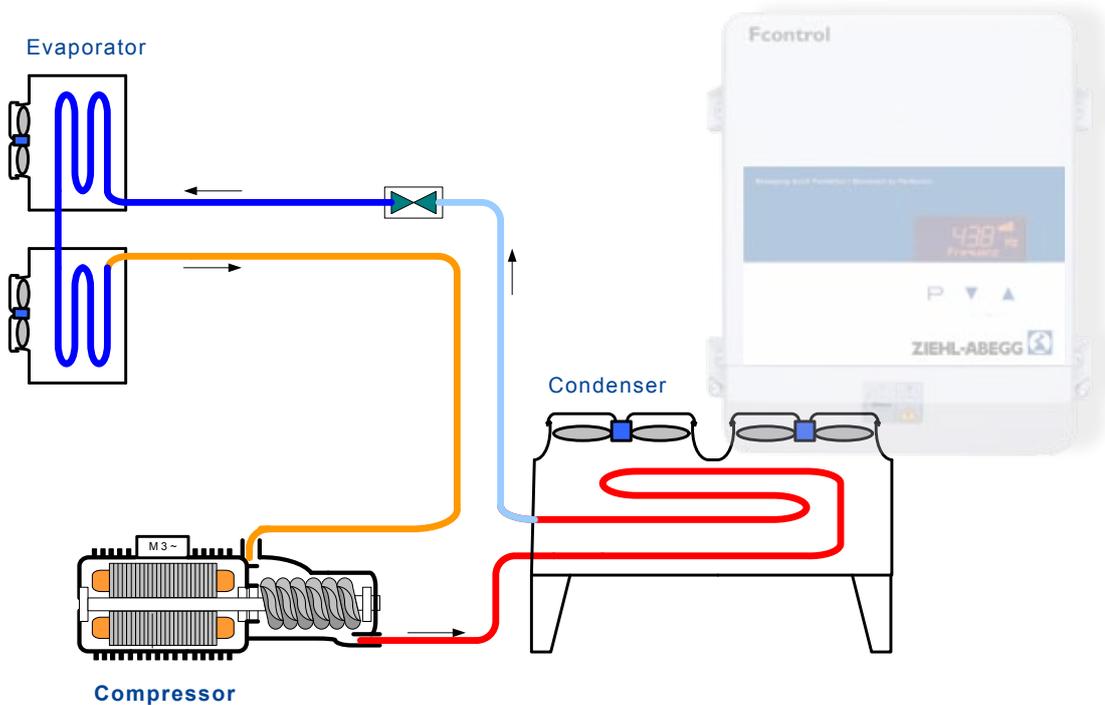
Profit from our experience and decide in favour of innovative products from Ziehl-Abegg.



ECQ



FE2owlet-ECblue



Refrigeration circuit

Evaporator - the cold side of the refrigeration circuit

The reliable solutions from Ziehl-Abegg reduce the energy transfer in the cold sector, which significantly increases the efficiency of your refrigeration plant.

- **For cold storage rooms:** FE2owlet-ECblue fans are powerful while combining the highest efficiency and lowest noise generation
- **For cooling cabinets:** ECQ fans easily and quickly replace inefficient shaded pole motors

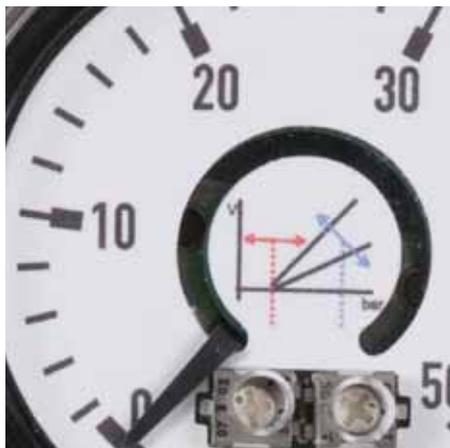
Recommended system components:

- Ziehl-Abegg guiding vanes increase your fan's throw range, providing homogeneous cooling
- Ziehl-Abegg speed controllers for evaporator fan speed-preselection - perfectly aligned to your requirements





Frequency inverter Fcontrol



Control module



Guide vane

Compressor – the unit with the highest energy requirement

Refrigeration equipment is designed for the maximum refrigeration requirement under unfavourable ambient conditions. The actual requirement is usually much lower than this maximum. This is where the intelligent and demand-oriented control with Fcontrol helps out - that saves energy and money.

Fcontrol - the continuous compressor speed-control regulates the heart of your refrigeration plant at the ideal frequency and power. That in turn optimally adapts the pressure and temperature curves of the refrigeration circuit to the demand. With fewer start-stop cycles, noises from the compressor are reduced and the mechanical stress on the components is diminished.

Fcontrol – the benefits at a glance:

- Can be retrofit to existing networks and already extant compressor
- Operation without shielded motor lines, for any line length
- Housing in IP54 for outdoor installation without a switch cabinet
- Higher performance through possible operation over 50 Hz
- The Fcontrol acts like a soft start and reduces the starting current

Condenser – the hot side of the refrigeration cycle

No matter whether you decide on a FE2owlet with ECblue or on AC technology from Ziehl-Abegg, we will provide greater energy efficiency and quieter operation of the condenser. You will save money and protect the environment:

ECblue, the compact variant. Count on the latest generation of EC fans with bionic blade design – the FE2owlet-ECblue:

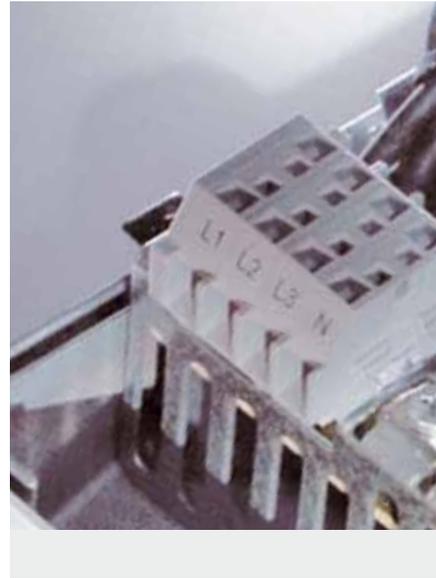
- Simplest fan speed control with modern sensor control modules
- On-demand control: Pressure-dependent or temperature-dependent

Proven AC technology, with the intelligent Fcontrol frequency inverter – for 1~ and 3~ fans on condensers:

- Immediate energy savings with Fcontrol
- Operation with any line length without shielded motor lines
- Easy to retrofit on existing compressors
- Reliable, quiet operation of several fans in parallel
- The integrated sine filter guarantees gentle motor operation and long fan life
- Housing in IP54 for installation without a switch cabinet, even outdoors

And of course, our solutions already exceed future ErP requirements.

The Royal League



ZIEHL-ABEGG 

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