



# MAGNUS AIR AND WATER COOLED CHILLERS WITH TURBO COMPRESOSRS 220-1949 kW



## ABOUT THE RANGE

This modern range of high energy efficient chillers are available for air and water sourced cooling using the latest oil free turbocor compressors. This compressor type is fundamentally innovative thanks to the use of magnetic bearings and digital rotor speed control, which allows partial load efficiency levels to be reached. The ozone friendly R134a refrigerant allows the units to run at maximum efficiency whilst reducing carbon footprints. The units can easily adapt to various thermal load conditions due to the precise thermoregulation along with the use of inverter technology; providing complete flexibility.

All units within the Magnus MA range are manufactured to meet strict EU testing guidelines and are controlled by ISO 14001 and ISO 19001.

## CONTACT US

Call us free on  
**0800 169 3861** or  
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## THE ICS COOL ENERGY PACKAGE

ICS Cool Energy also provide the following services and project management assistance:

- Fully qualified, Europe-wide refrigeration engineers with over 30 years of experience
- In-house bespoke manufacture
- Full 3D CAD assisted engineering and design
- 24-hour customer service desk
- Maintenance packages available
- Out of hours emergency support
- Fully inclusive turnkey installation packages
- Parts, Glycol & contingency plans
- Advice on refrigerant, water treatment and protection for your cooling system
- Offices Europe-wide

E&OE. All data is subject to change and continuous improvement without notice. Equipment designed to ISO 9001 and all relevant electrical, pressure and mechanical directives.

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MAGNUS SERIES		FUNCTIONS							FAN		HEAT EXCHANGERS		NOISE OPTIONS			
Product	Capacity	COOLING	HEATING	PH	TH	CA	HE	FC	AXIAL	CENTRIFUGAL	P	T	K	Q	SSEL	
Chillers, air source for outdoor installation																
MA*	220-1325 kW	✓		✓				✓	✓			✓			✓	✓
Chiller, water source																
MA-W*	241-1949 kW	✓	✓									✓				

Evaporator water (in/out) = 12/7°C, condenser air (in) = 35°C (Air Sourced only)  
 Evaporator water (in/out) = 12/7°C; condenser water (in/out) = 30/35°C, based on Eurovent standard.  
 Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non certified units.  
 \*Unit in standard configuration/execution, without optional accessories.

## UNIT MODELS

This range is designed and manufactured to work at very high efficiency levels, and at full and partial loads thanks to large capacity modulation and expanded exchanger, offering minimum running costs to the unit in real working conditions. The air source unit (MA) provides Class A-HE efficiency, significantly reducing energy usage. In addition, the EL noise version offers the lowest sound levels thanks to its systematic design.

Thanks to the innovative turbocor compressor, the units within this range allow for low inrush currents which reduces breakaway starting currents.

This range ensures maximum flexibility due to the precise thermoregulation and inverter technology, allowing adaptability at different thermal load conditions.

The base and supporting structure of the units are manufactured using galvanised epoxy powder coated steel with increased thickness to ensure complete resistance to external wear.

Every unit is fitted with the latest Carel LCD panel; allowing the user to change settings easily and safely whilst having the ability to analyse temperatures within industrial processes or HVAC applications.

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