



Air cooled reversible heat pumps with scroll compressors. Nominal cooling capacity 12,8 - 88,4 kW Nominal heating capacity 11,1 - 84,3 kW



High efficiency air cooled reversible process heat pumps.

The HAEevo TECH reversible heat pumps are high efficiency units specifically designed for wine industry, and generally for all process applications when high performance, continuous operation and reduced management costs are the main requirements. The oversized heat exchangers surfaces and optimised scroll compressors ensure high performances, maximising the energy savings. The wide numbers of options available makes the units highly customizable, suitable to satisfying any type of plant solution. All units are compliant with the limits imposed by the ErP regulation for seasonal efficiency ratio SEPR HT and SCOP.



10

HAE

(KIIA)

Standard features

- Hermetic scroll compressors;
- Compressors crankcase heater and phase monitor;
- High-efficiency finned coil evaporator with copper tubes and aluminum fins, installed inside the carbon steel water storage tank;
- Axial AC fans;
- Air cooled condensers with copper tubes and aluminium fins protected by hydrophilic treatment;
- Condenser air filters;
- Electronic expansion valves;
- 4-way refrigerant cycle reversing valve;
- Storage tank;
- Single water pump with medium head pressure (P3);
- Internal hydraulic by-pass between the inlet and outlet connections;
- Electronic level sensor with water conductivity function;
- High and low refrigerant pressure switches;
- Parametric microprocessor control;
- IP54 electrical protection rating.

Options

- Single water pump with high head pressure (P5);
- Single water pump with medium head pressure (P3) suitable for open hydraulic systems;
- Non-Ferrous hydraulic circuit, suitable for aggressive process fluids (finned coil evaporator with copper tubes and fins installed inside the AISI304 water storage tank):
- Anti-freeze protection heaters for evaporator and pump (if included);
- EC brushless fans.





Condenser air filters:

LED remote display:

LCD remote display;

technology;

Benefits

Kits

gy savings;

den changes of the required load;

Tamb max = +46 °C; Tamb min = -10 °C;

Tamb max = +20 °C; Tamb min = -10 °C.

Seasonal energy efficiency compliant with ErP Directive 2009/125/EC;
Scroll compressors ensure high efficiency and performances, maximising the ener-

with impure process fluids even with high percentages of glycol;

• Manual filling tank kit: suitable for at atmospheric hydraulic circuits;

• Automatic hydraulic bypass kit: includes adjustable pressure relief valve;

• xWEB300D PR0 to monitoring, control and register data, based on "WEB server"

• Automatic filling kit: suitable for pressurized hydraulic circuits;

RS485 Modbus interface for connection to supervisor systems:

• Modularity kit, for master/slave system management (up to 5 units).

Glvcol filling kit: suitable for pressurized hydraulic circuits:

• Evaporator with in-tank configuration specifically designed for process cooling

• Oversized water storage tank, useful to compensate the instability caused by sud-

• Extended operating limits (chiller mode): Tw in max = +35 °C; Tw out min = -10 °C;

Extended operating limits (HP mode): Tw out max = +55 °C; Tw out min = +30 °C;

applications. It allows high flow rates with low pressure drops and compatibility

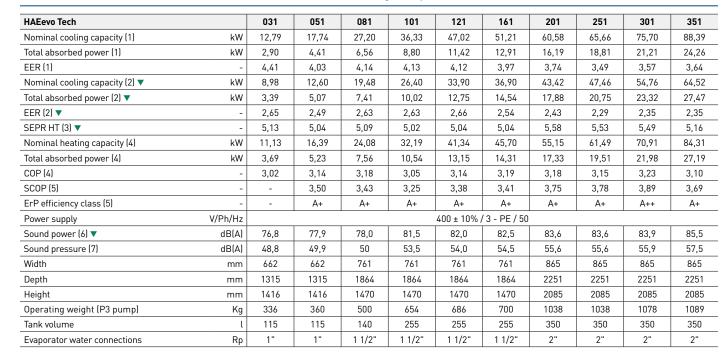


Single water pump with medium or high head pressure.

Integrated oversized water storage tank.

Parametric microprocessor control.

Hydrophilic coating of condensers fins.



Data declared according to UNI EN 14511:2018. All data refers to standard units without accessories/options which require an electrical feeding source and in nominal working conditions. The listed noise levels, weights and dimensions refer to base units with no options fitted.

(1) Data referred to the full load functioning and nominal conditions, external ambient temperature 25 °C and evaporator water temperature IN/OUT 20/15 °C; (2) Data referred to the full load functioning and nominal conditions, external ambient temperature 35 °C and evaporator water temperature IN/OUT 12/7 °C;

(3) Data declared in compliance with the European Regulation (EU) 2016/2281 for high temperature process chillers;

[4] Data referred to the full load functioning and nominal conditions, external ambient temperature 7 °C and condenser water temperature IN/OUT 40/45 °C;

(5) Data declared according to the European Regulation 813/2013 for low temperature heat pumps;

(6) Sound power on the basis of measurements made in compliance with ISO 3744;

(7) Average value obtained in free field on a reflective surface at the distance of 10 m by the external side of the electrical cabinet of the unit and at height of 1.6 m by the unit foothold. Considered tolerances ±2 dB. The sound levels are referred to the full load operations in nominal working conditions.

Eurovent certified data.





MTA is ISO9001 certified, a sign of its commitment to complete customer satisfaction.

MTA products comply with European safety directives, as recognised by the CE symbol modults are listed on: www.eurovent-certification.com summer Certification.com summer Certification.com www.eurovent-certification.com www.eurovent-certification.co



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M.T.A. S.p.A.



Cooling, conditioning, purifying.