

HWA1-A/BT 04349

HWA1-A/BT 02106-04349

Air-Cooled liquid chiller for water up to -8°C, and outdoor installation

MAXA
AIR CONDITIONING

Offer Number: 62325

Date: 10/10/2025



COMPRESSOR

Hermetic scroll complete with internal thermal protection.

The compressor is isolated from the structure by the interposition of special rubber mountings. The mobile spiral is driven by an electric motor 2-pole (2900 rpm) cooled by the inlet refrigerant, and the starter is directed.

All compressors have full charge of oil polyester, suitable for use with refrigerant R410A. An electrical heater, located on the crankcase, is automatically activated when the unit is switch off in order to prevent the mixing of oil in the refrigerant. When connecting in tandem there is an oil equalizing line with a level indicator.

CARPENTRY

Suitable for outdoor installation, consisting of thick profiles in hot galvanized steel sheet or painted with RAL 7035 polyester powder resistant to atmospheric agents.

USER (SIDE) HEAT EXCHANGER

AISI 304 steel braze-welded plate exchanger, insulated with Black closed-cell flexible elastomeric foam (FEF) coupled with a 3 mm layer of reticulated foam in PE and an exterior embossed finishing PE film in aluminium in color; total thickness 6+3 mm, thermal conductivity (λ) $\leq 0,034$ W/m·K. A differential pressure switch, mounted on the water side, safeguard the flow rate and prevent ice from forming inside the evaporator. Maximum operating pressure exchanger: 15 bar on the water side and 45 bar on the refrigerant side

SOURCE (SIDE) HEAT EXCHANGER AIR

Full-aluminium coil microchannel type. Coil structure made with an open-angle V-geometry layout.

FAN SECTION

Ventilation system composed by 800mm axial electric fans, protected to IP54, with an external rotor and plastic-coated aluminium blades. Housed in aerodynamic hoods complete with safety grille. Brushless electronically commutated electrical motor and incorporated thermal protection. Continuous adjustment of fan rotation speed.

ADVANTIX SPA

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Iscritta presso il Tribunale di Verona ai n° 12621/17484 - Capitale Sociale € 3.100.000 i.v
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REFRIGERANT CIRCUIT

One or two independent refrigeration circuits made of copper, brazed and factory-assembled, complete with:

- Anti-acid dehydrator filter with solid cartridge;
- Liquid flow and moisture indicator;
- Low and high pressure transducer;
- Electronic expansion valve;
- Low and high pressure safety pressure switch;
- Low and high pressure safety valve;
- Shut-off valve on liquid line;
- Service valves

Thermal insulated of suction line with insulation material in highly flexible closed-cell elastomer based on EPDM rubber. Refrigeration circuit pressure tested to check leaks and supplied complete of refrigerant charge.

ELECTRICAL PANEL

Fully constructed and wired in accordance with EN 60204. The capacity section includes:

- Main door lock isolator switch
- Terminals main power (400Vac / 3ph / 50Hz)
- Isolating transformer for auxiliary circuit power supply (400Vac/230Vac-24Vac)
- Compressor circuit breaker
- Fan overload circuit breakers
- Compressor control contactor.

The control section includes:

- Interface terminal with alphanumeric display
- Displaying function of setting values, analog inputs, error codes, alarm history, and parameter index
- Water side protection of antifreeze pump (if present and on heat pump models)
- Keys for on/off switching and reset of alarms
- Keys combination to constrain the defrosting process and constraining the pump at maximum rpm (if present)
- Remote/Local power on/off management of the unit
- Digital input for the machine power ON/OFF
- Analog input for enabling remote plant temperature sensor
- Digital input for double set point enablement
- Digital input for Summer/Winter mode activation (for heat pump version only)
- BMS connectivity predisposition (Modbus / Bacnet / Knx / Lonworks)
- Thermoregulation and timing of the compressors
- Fan motor speed regulation in evaporation/condensation
- Dynamic set point management.

Selection data

		Summer
Air temperature (wet bulb)	°C	24
Air temperature (dry bulb)	°C	35

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Outlet water temperature	°C	-8
Capacity	kW	191.23
Power absorption	kW	98.43
Flow rate	L/s	13.74
Pressure drop at selected conditions	kPa	33.49
Glycol	%	50
ΔT	-	5
EER	W/W	1.94

Technical sheet

Description	Unit of measurement	Value
Nominal air flow	L/s	15072
^[1] Seasonal Energy Efficiency Ratio cooling (SEER)	-	4,12
Power supply	V/Ph/Hz	400/3/50
Compressor Model	-	scroll
Compressors	n.	4
n° refrigerant circuits	n.	2
Fan specification	Type	AC
Fans	n.	3
Refrigerant	Type	R410A
Refrigerant gas content	kg	20+20,5
^[1] Water flow	L/s	8,25
Water connection	inch	3"
^[2] Minimum water content	L	520
Sound pressure	dB(A)	55,9
Dimensions (L = Length; A = Height; P = Width)	mm	4060x2350x2200

^[1] Chilled water from 12 to 7 °C, ambient air temperature 35 °C

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^[2] Calculated minimum plant water volume. Onboard tank volume not calculated

Fitted accessories

EC - EC inverter fans

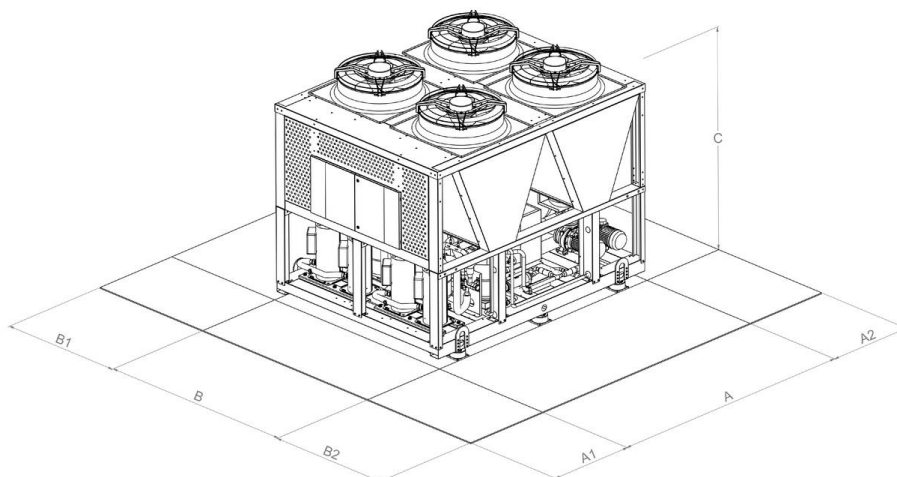
includes CC function (condensig control). Included with SSL version only on HWA1-A (not in HWA-A)

Loose accessories

AG - Rubber shock absorbers

LNC - LAN/WiFi local converter, Maxa DAS license included

Unit dimensional drawings



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