



EWAQ032CWN



- > Air cooled chiller
- > Scroll compressor
- > R410A refrigerant

- **Unit description:** Daikin air cooled chiller with inverter driven hermetic scroll compressors and R410A refrigerant. Unit colour: Daikin White
- **Compressor:** Inverter driven and on-off hermetic orbiting scroll are combined on each unit. Inverter compressors continuously adjust compressor speed to actual demand. Fewer power-consuming starts and stops result in decreased energy consumption (up to 30%) and more stable temperatures. Compressors are equipped with oil heaters that keeps the oil from being diluted by the refrigerant when the chiller is not running.
- **Evaporator:** The unit is equipped with a direct expansion plate to plate type evaporator. This heat exchanger is made of stainless steel brazed plates and covered with nitrile rubber based elastomeric foam. Unit is equipped with the necessary devices for plant integration, such as: flow switch, brass water filter, treated water connections, air purge and drain valves, safety valve, shut off valve.
- **Condenser:** Fins and tubes air cooled coil. Fins are designed with non-symmetric waffle louvres to enhance the heat exchange and improve the efficiency and compactness of the unit. The presence of hydrophylic and anti-corrosion treatment on the coil fins enhances the resistance to the aggressive environments.
- **Condenser coil fans:** Unit fans are axial type equipped with Brushless DC motor to maximize performances. The material of the blades is glass reinforced resin and each fan is protected by a guard. Fans offer an available external static pressure equal to allow a ducted installation (up to 78Pa).
- **Refrigerant circuit:** Each refrigerant circuit includes: Compressors, Refrigerant, Air Cooled Condenser, Electronic expansion valve, Oil separator, High pressure switch, refrigerant stop valves (liquid and gas).



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Performances calculated according to EN14511-3:2013


Cooling mode performances

Cooling capacity	31.58 kW	Evaporator water IN/OUT	12.00 °C / 7.00 °C
Power input	12.90 kW	Evaporator water flow	1.510 l/s
EER Cooling Efficiency	2.448 kW / kW	Evaporator pressure drops	24.3 kPa
		Ambient temperature	35.0 °C
		Lw / Lp @ 1m	80 dB(A) / 64 dB(A)
		Evaporator fluid	Water
		Evaporator fouling factor	0.000 m²C/W

Sound power level according to ISO 9614-1.

Unit information

Compressor type	Scroll	Refrigerant type	R410A
Capacity control	Inverter Controlled	Condenser type	Tube type
Compressor N°	3	Condenser fans N°	2
Circuit N°	1	Condenser fans control	Direct Drive
Refrigerant charge	9.6 kg	Altitude	0 MSL
		Evaporator type	Brazed plate

Actual refrigerant charge depends on the final unit construction, refer to unit nameplate.

Electrical information

Power supply	400 V / 50.0 Hz / 3N~	Max. inrush current	89 A
Compressor starting method	1 VFD + 2 DoL	Max. Running current	35.2 A

Voltage tolerance ± 10%. Phase Voltage unbalance ± 3%. Electrical data referred to standard unit without options, refer to unit name plate data.



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Physical information

Evap. connections size	1-1/4" (female) mm	Length	774 mm
Weight shipping/operating	403 kg / 434 kg	Width	1680 mm
		Height	1684 mm

Information referred to standard unit configuration without options, refer to certified unit drawing.



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**Certification notes**

Certified in accordance with Eurovent Certification Program: Liquid Chilling Packages and Heat Pumps (LCP-HP). Standard ratings are specified in the section "Rating requirements" of the Rating Standards. All standard ratings are verified by tests conducted in accordance with the following standards: EN 14511-3:2013 (performance testing) and ISO 9614 (acoustic testing).

Outside the scope of AHRI Air-Cooled Water-Chilling Packages Certification Program or not optionally certified, but is rated in accordance with AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

General notes

For more information about the above selected product, please go to <http://www.daikineurope.com/industrial/>. Unit performances are reproducible in laboratory test environment only in accordance to recognized industry standards. This technical data sheet is generated by Daikin Applied Tool software designed and distributed by Daikin Applied Europe S.p.A. The present software does not constitute an offer binding upon Daikin Applied Europe S.p.A who compiled the content of this software to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Applied Europe S.p.A. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this document. All content is copyrighted by Daikin Applied Europe S.p.A.

