Project's name: Internal webpage
Configuration Name: Internal

AIR-WATER CHILLER
KWG3052RVH4C

*Orientative image. Components may vary

ADRIATICA

R410A R452B R454B

Features			
Refrigerant fluid/GWP	R454B | 466	Nº Circuits / Nº Compressors	1/1
kg c1 | kg c2 | kg c3	5.7 | - | -	Power stages	25%-100%
Eq Tons CO2	2.6		

Project Conditions	
Refrigeration Mode	
Outdoor temperature (ºC)	28
Leaving water temperature (ºC)	10
Water Delta Temp (ºC)	5
Water inlet temperature (ºC)	15.0
Fluid	Pure water

Performance	
Cooling capacity (kW | TR | kBTU/h)	62.1 | 18.0 | 216.0
Power Input compressors (kW)	12.0
Power input fans (kW)	1.4
Total power supply (kW)	13.4
EER Project conditions (kW/kW)	4.63
EER (EN 14511:2018) 35ºC/12-7ºC (kW/kW)	3.39

Partial Operation Data 50%	
Cooling capacity (kW)	33.3
Power Input compressors (kW)	5.8
Power input fans (kW)	0.7
EER (kW/kW)	4.97

Seasonal Efficiencies			
SEER|ηs,c(%) (EN 14825:2018)	5.71 | 225.5%	IPLV (kW/TR | kW/kBTU·h)	24.34 | 0.48
SEPR HT | SEPR MT (EN 14825:2018)	6.90 | 4.97		

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KEYTER

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Dimensions and weigths *	
Length (mm)	2525
Width (mm)	1050
Height (mm)	1630
Empty Weight (kg)	645
Service Weight (kg)	850

*Weights do not include the entire combination of options. Consult for more details.

Hydraulic data	
Water flow (m3/h) *	10.7
Exchanger	Plates
Fouling Factor (cm2·K/W)	0.43
Equipment pressure drop (kPa)	64.2
Connection diameter	2"
Expansion vessel capacity (L)	15
Water Storage Tank (L)	200
Hydraulic Pump type	Standard pressure
Model	CDX200/12
Available pressure (kPa)	97.5

* Flow rate for cooling priority

Electrical information	
Unit voltage supply	400V-III+N-50Hz
Nominal Intensity (A)	22.2
Maximum intensity (A)	44.2
Start - up intensity (A)	54.2
Start- up intensity with soft starter (A)	-

Outdoor Fans	
Fan speed (%)	100%
Fan type	800 EC
Outdoor fans number	1
Air flow rate (m3/h)	22000
Available pressure (Pa)	0

Sound Level									
Frec (Hz)	63	125	250	500	1000	2000	4000	8000	Total (dB)
Lp10 (dB)	62.1	59.7	58.6	56.1	53.1	49.3	40.7	34.1	58.2
Lw (dB)	94.1	91.7	90.6	88.1	85.1	81.3	72.7	66.1	90.2

Acoustic Pressure reference : 2 * 10E-5 Pa, tolerance +/-3 dB.
Level measured at 10 m , at 1,5 m from the floor, open field, directive 1. Sound pressure level depends on the installation conditions as well.

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Equipment Description
KEYTER ADRIATICA KWG units are reversible air-cooled chillers and heat pumps for water temperature control in comfort and industrial applications. In line with our strong commitment to the environment, this range has been specially designed with low GWP R454B refrigerant and the latest generation of scroll compressors for higher efficiency.

Selected equipment	
Hermetic scroll inverter compressors mounted on anti-vibration mounts, with non-return valve on discharge, crankcase heater, internal klixon and discharge temperature probe.	✓
High and low pressure switches, dehydrators filters, liquid sight glass, liquid receiver and particle separator	✓
Electronic expansion valve	✓
R454B refrigerant	✓
Hydraulic version H (Standard pressure pump)	●
Perimeter closure (Uninsulated Paneling)	✓
Aluminum microchannel coil with aluminum fins	✓
Copper brazed stainless steel plate heat exchangers.	✓
Pressure gauges at equipment inlet and outlet	✓
Curved outer nozzles (silent ring)	✓
Outdoor electronic axial fan (800 EC)	✓
Electric power and control panel, with thermal and magneto-thermal protection of compressors and fans.	✓
Supply voltage 400V-III+N-50Hz	✓
Aquamanager regulation	✓
User terminal (PGD)	✓
Phase control relay (Premium)	✓

Standard equipment ✓ Optional equipment ●

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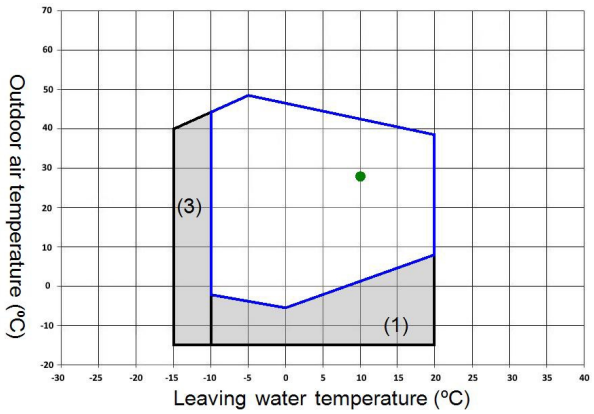
Envelope

Cooling



Orientative envelope with standard fans working at 100%. For working points close to the border, please check feasibility.

(1) Condensation control modulating fans; (2) Study on demand.

Regulations

Quality and Ecodesign. Energy efficency.

KEYTER Technologies takes into consideration European standards and guidelines for quality, environment and Eco-efficient design. The units comply with the requirements of the following European standards:

- ISO 9001:2015 Quality management system, certified by TÜV Rheinland.
- ISO 14001:2015 Environmental mangement system, certified by TÜV Rheinland.
- Machinery Directive 2006/42/EC, certified by TÜV Rheinland.
- Pressure Equipment Directive 2014/68/EU. Certified by TÜV Rheinland.
- Low Voltage Directive 2014/35/EU.
- Ecodesign Directive 2009/125/EC, EU/2016/2281.
- Directive on substances that deplete the ozone layer 1005/2009/EC.
- Directive on fluorinated greenhouse gases 517/2014/EU.
- Electromagnetic Compatibility Directive 2014/30/EU and regulations on Radiated electromagnetic emissions, channelled emissions and electromagnetic immunity: IEC 61000-3-3, IEC 61000-6-4, IEC 61000-6-2.
- Directive RoHS 2011/65/EC, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- European Standard EN 60204-1. Machine safety. Electrical equipment of the machines.
- Directive on the efficiency of fan motors, 2012/27/EU.
- European Standard EN 378-2.

In addition, the technical team of Keyter Technologies is continuously investigating and incorporating trends and new developments that allow an improvement of the energy efficiency of the equipment to adapt to the new future regulations.

Keyter Technologies has a waste management system through authorized ISO 14001 certified manager, specially dedicated that allows you to reduce the environmental impact of your products, as well as to contemplate ecodesign parameters in the design of the equipment in order to minimize the use of HFC refrigerant gases, plastic packaging, oils, etc.

The specifications and technical characteristics reflected in this manual are given as information. The manufacturer reserves all rights of change without prior notice.

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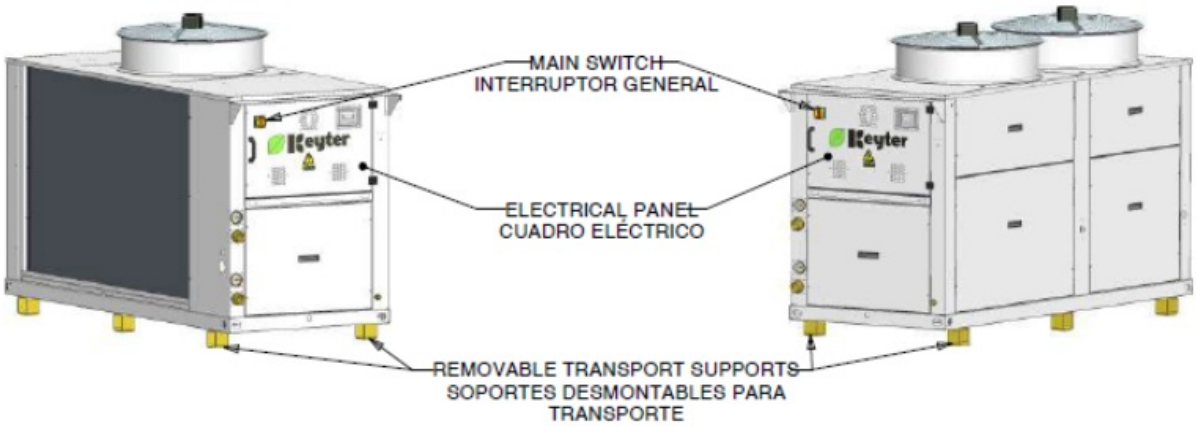
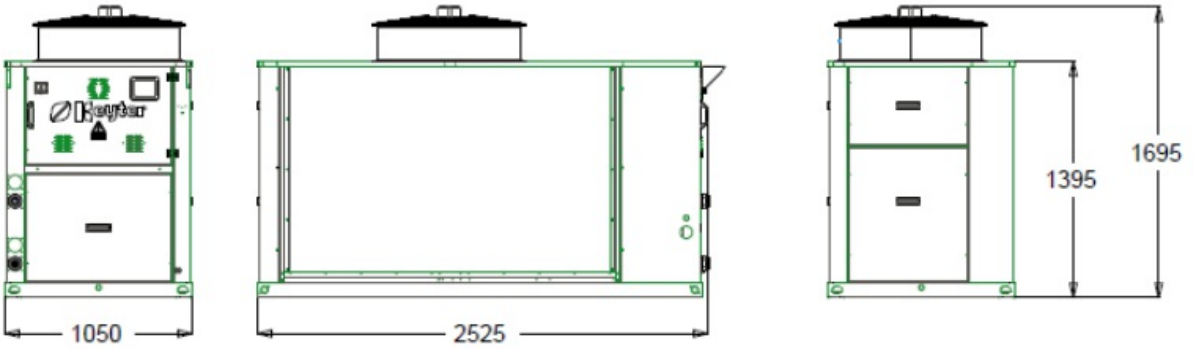
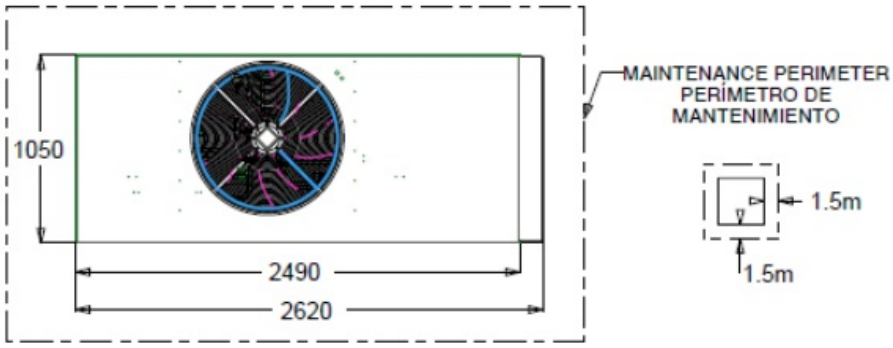
H VERSION / VERSIÓN H

KWG 3052-3070 MODELS
MODELOS KWG 3052-3070

KWG 3080-3120 MODELS
MODELOS KWG 3080-3120







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