

WMX WMG

Water cooled chiller, For indoor installation
centrifugal compressor flooded evaporator
Cooling capacity 280 - 324 kW

HFC
Refrigerant

R134a

HFO
Refrigerant

R1234ze
Low GWP



Aermecc participate in the EUROVENT program: LCP the products are present on the site www.eurovent-certification.com



- **HIGH EFFICIENCY ALSO AT PARTIAL LOADS ESEER 8,4**
- **DESIGN COMPACT**
- **EXTREMELY RELIABLE AND FLEXIBLE**

Features

Units for internal installation offering chilled water.

Compact and flexible, perfect alignment to the requested load thanks to an accurate control algorithm. They are equipped with centrifugal compressors and heat exchangers, plant side and flooded the source, ensuring a reduction in the refrigerant charge by 50% compared to conventional flooded exchangers.

The base, the structure and the panels are made of steel treated with rustproof polyester paint.

The technological choices made, always oriented to the highest quality **and efficiency can reach 5.71 EER values (class A for the working conditions Eurovent).**

Component layout designed to enable several units to be positioned side by side in restricted plant rooms. Ideal when standby is required or when cooling duty is to be increased at a later date

Versions

WMX Chiller with R134a

WMG Chiller with R1234ze

Both versions can be silenced

HFO R1234ze is a mixture featuring **ODP=0 e GWP (Global Warming Potential) = 7, R134a GWP = 1430**, with thermodynamic properties that guarantee and sometimes improve efficiencies achieved with HFC refrigerants.

- **New generation two-stage oil free centrifugal compressor** with magnetic levitation friction free bearings

Compressor features:

- Operates without oil as bearings are magnetic levitation type. Vibration free and very quiet
- Provided with inverter technology that permits capacity modulation down to 20% A version

- Integrated controller that **reduces starting current to 6 A only**

Unit features

- 5 times lighter than an equivalent screw compressor
- Extremely compact wide to allow access through a standard doorway
- High efficiency with generously sizes heat exchanger
- Extraordinary efficiency at part load (**ESEER up to 8.4 among the highest in the market**)
- Electronic expansion valve
- Electronic controller for monitoring and proactive controls
- Microprocessor control system
- LCD user interface: colour touch-screen with simple and intuitive graphical menu
- **Acoustic enclosure (option):** heavy gauge galvanized sheet steel with internal acoustic insulation.

Accessories

- **AER485P1TW:** RS-485 interface for supervision systems with MODBUS protocol.
- **PTW: Remote control of chiller operating**

functions.

- **MULTICHILLER:** Control system for multiple parallel installed constant flow chillers provid-

ing individual chiller on/off and control capability. **(When this accessory is present, the AER485P1TW is factory fitted as standard).**

Unit Configurator

By suitably combining the numerous options available it is possible to configure each model in such a way as to meet the most demanding of system requirements.

Field	Description	7	Efficiency
1,2	WM		A High efficiency
3	Refrigerant		U Very high efficiency
	X R134a	8	Versions
	G R1234ze		° Standard
4,5,6	Size		L Low noise
	300		

Technical data

WMX/G - A		300X	300G	
	V/ph/Hz	400V/3/50Hz		
12°C / 7°C	Cooling capacity	kW	323,6	311,8
	Total input power	kW	60,4	57,6
	EER		5,36	5,41
	ESEER		8,19	8,27
	Cooling Energy Class Eurovent		A	A
	Water flow rate system side	l/h	55900	53400
	Pressure drop	kPa	34	31
	Water flow rate geothermal side	l/h	67700	63600
	Pressure drop	kPa	41	36

WMX/G - U		300X	300G	
	V/ph/Hz	400V/3/50Hz		
12°C / 7°C	Cooling capacity	kW	279,7	281,8
	Total input power	kW	49,0	49,1
	EER		5,71	5,74
	ESEER		8,44	8,31
	Cooling Energy Class Eurovent		A	A
	Water flow rate system side	l/h	48300	48400
	Pressure drop	kPa	25	25
	Water flow rate geothermal side	l/h	58300	57800
	Pressure drop	kPa	30	29

Date (14511:2013)

Water system side (in/out) 12°C/7°C; Water geothermal (in/out) 30°C/35°C

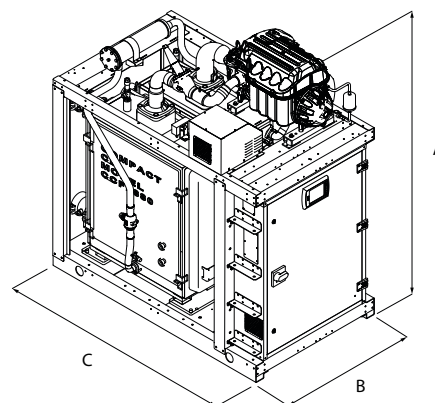
		300X	300G	
Electrical data				
Total input current (cooling)	A	A	94	85
	U	A	78	74
Maximum current (FLA)		A	135	150
Starting current (LRA)		A	6	6
Two-stage oil free centrifugal compressor				
Compressors / Circuit		n°/n°	1/1	1/1
Refrigerant		Type	R134a	R1234ze
Heat exchanger system side				
Heat exchanger		Type/n°	Flooded Spray system /1	
Heat exchanger source side				
Heat exchanger		Type/n°	Shell&tube compact /1	
Sound data				
Sound power level	A	dB(A)	90	
	U	dB(A)	85	
	AL	dB(A)	84	
	UL	dB(A)	78	

Sound power Aermec determines sound power values on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification.

Note: For more information, refer to the selection program or the technical documentation available on the website www.aermec.com

Dimensions (mm)

WM			300X	300G
Height	A/U	A	mm	1905
	AL/UL	A	mm	1942
Width		B	mm	1041
Length		C	mm	1770
Weight	A/U		kg	2205
	AL/UL		kg	2390



Aermec reserves the right to make all modification deemed necessary for improving the product at any time with any modification of technical data.

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