

WMS-30kW GRID TIE
Focused on the essential: water

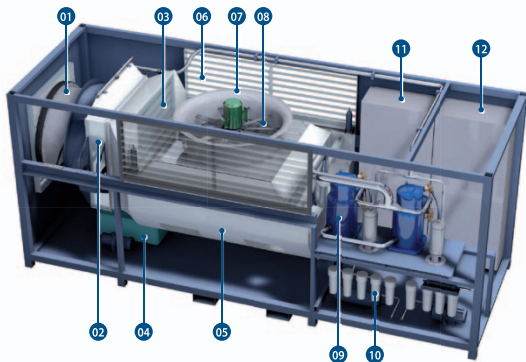
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WMS-30kW Grid Tie, focused on the essential: **water**

Some remote areas require more water than energy. Based on this observation, Eole Water has decided to develop a technology designed to provide water to areas already supplied with stable and reliable energy. It has given birth to the **WMS-30kW Grid Tie**, focusing on the essential: water production. Connected to an electrical network, or to a generator, this solution offers a high and constant water production, 24 hours per day, while complying with a high energetic efficiency. Featuring a 20' container size, the **WMS-30kW Grid Tie** can be shipped at low cost and does not need any heavy lifting equipment to be implemented in the hosting area. The tested quality of its components and its ergonomic inside carefully thought allow reducing and facilitating all maintenance operations.

General components

- 01 • Heat exchanger air extractor
- 02 • Heat exchanger
- 03 • Air flow regulator
- 04 • Heat exchanger self-cleaning system
- 05 • Water collector
- 06 • Sandstorms shutters
- 07 • Humidity condenser air blower
- 08 • Humidity condenser
- 09 • Cooling compressors
- 10 • Water filters
- 11 • Control unit
- 12 • Power unit



Technical Specifications

GENERAL

Rated power	30 kW - 3-phase (50/60 Hz) – 400 VAC
Dimensions	5 m (L) x 2 m (W) x 2 m (H)
Weight	3 000 kg
Upgraded power	40 kW
Sound level	65 dB(A) at 5 m

CONTROL & MONITORING

Monitoring	Programmable Logic Controller
Communication	GSM data transmission or 3G broadband
Human/Machine Interface	Touch screen – data archiving

WATER PRODUCTION IN VARIOUS CONDITIONS

Zones	Conditions	Production
Tempered zone	25°C - 60% HR	1320 l/day
Costal zone	30°C - 70% HR	1750 l/day
Arid mountain zone	25°C - 40% HR	880 l/day
Desert zone	35°C - 30% HR	825 l/day

SYSTEM DESCRIPTION

Compressor unit	2 x 15 kW SCROLL
Refrigerant gas	R410A (CFC FREE)
Air flow generator	2 x 15000 m ³ /h
Humidity condenser	Food safe stainless steel
Heat exchanger	Anti corrosion treated aluminum and copper
Regulation	Programmable Logic Controller Electronically driven expansion
Water treatment	Filtration 10 µ Carbon block filtration 1 µ Ultra filtration 0.005 µ Ultraviolet treatment Mineralization cartridge Water pressure booster unit