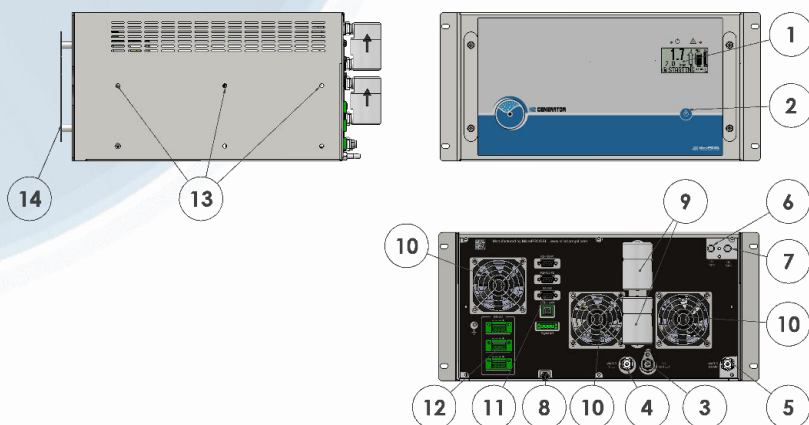




The RACK.WM series generators use an electrolytic cell with polymeric membrane (PEM) to produce pure hydrogen. The innovative gas drying system is completely maintenance-free and allows continuous operation, 24 hours a day. The exclusive, electronically-controlled gas/liquid separator, automatic checking for internal leaks whenever starting the unit, and constant control of operating parameters guarantee maximum safety.

Up to 20 units can be connected in parallel.

The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.



- 1 Touch-screen LCD 128x64 pixel
- 2 START/STOP button
- 3 Hydrogen Outlet
- 4 Water feed connector for filling the internal tank
- 5 Water feed connector for emptying the internal tank
- 6 Oxygen vent
- 7 Hydrogen vent
- 8 Water fitting for waste water
- 9 Water filters
- 10 Cooling fans air intake
- 11 I/O connectors: RS485 – RS232 – USB – Digital I/O
- 12 Power connections 24 VDC
- 13 Holes for sliding rails
- 14 Front handles

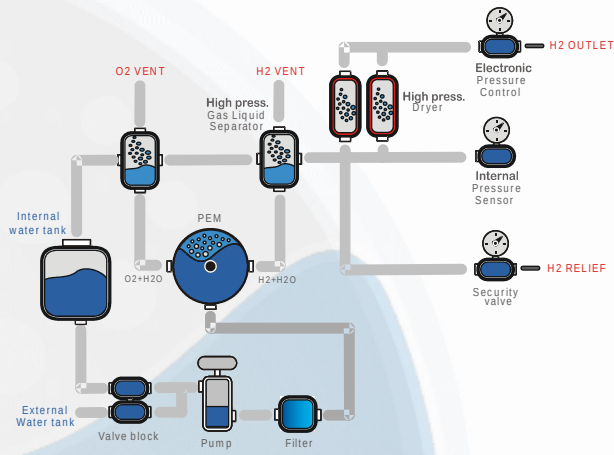
Main Applications

- Carrier gas for GC and GS-MS
- ICP-MS collision gas
- Flame ionization detector feed gas (FID)
- Refilling metal hydride tanks for use with fuel cells

Main Features

- **Available Flow-rates:**
3300 cc/min
- **Outlet pressure:**
up to 16 bars
- **Hydrogen purity:**
>99.99999%
- **Drying system:**
Innovative maintenances-free system for continuous 24-hour operation
- **Internal water tank:**
1.1 litres, with electronic level control and "Autorefill" from external tank included as standard
- **Dimensions:**
Standard 5U RACK (40 cm deep)
- **Weight:**
29 kg
- **Certification:**
CE, ISO9001

Principle diagram



Hydrogen is produced from distilled water using a polymeric membrane (PEM). No acid or alkaline solutions are used.

The drying stage requires no maintenance. A two-column drying system with automatic regeneration ensures the maximum grade of hydrogen purity.

Model	RACK.WM.H2.3300.B	
General data		
Electrolytic cell	PEM technology	
H2 purity	>99.99999% ¹	
Outlet pressure	12Bar (optional 16 Bar)	
H2 flow rate cc/min (max)	3300cc/min	
Communication		
RS232	X	
RS485	X	
USB	X	
LAN	Optional	
Software functions		
Parallel mode capability	X	
Automatic tank refill	X	
Fill canister function	X	
Water		
Quality	Deionized, ASTM II, <0.1uS	
Supply pressure (Min)	-0.2 bars (1.4 psi)	
Supply pressure (Max)	1 bar (14 psi)	
Supply flow-rate (min,max)	0.2 l/min, 1.5 l/min	
Internal tank capacity	1.1 l	
External tank capacity	5 or 10 l	
Electrical data		
Power supply connection type	Triple 4 pole connector	
Power supply voltage	24VDC	
Power supply current (max)	50A	
Dimensions	Standard 5U RACK– (deep 40cm)	
Net weight (water tank empty)	29Kg	
Connections		
Hydrogen outlet	1/8" compression fitting	
Water	Quick release push-in fitting	