

Product datasheet

Description:

Features

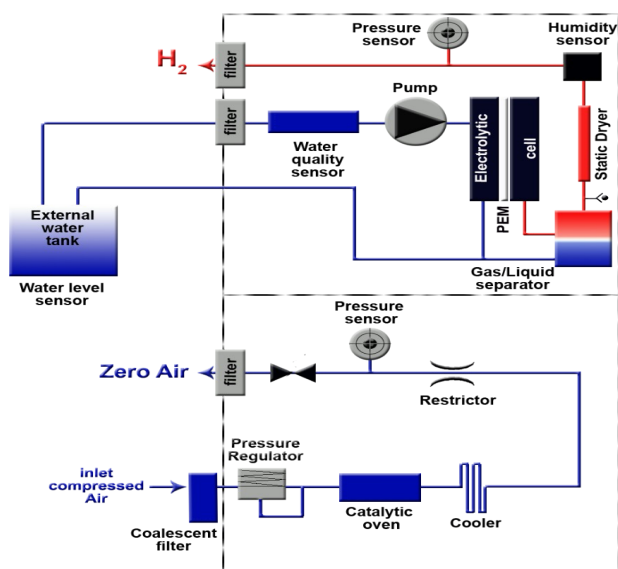
- Produces from 100 to 250mL/min of high purity (99.99%) hydrogen
- ... and up to 1.5NL/min of air (model dependent)
- Wide output pressure range from 1.5 to a high 10.5 bar for hydrogen
- ... and up to 7 barg (100 psig) for air depending on the input pressure from the external compressor
- The hydrogen-air combination makes an ideal gas supply unit for GC-FID
- All the advantages of the .red hydrogen generators are maintained in providing an economical, safe alternative to high pressure cylinders
- No need for costly downstream secondary filtration, minimum maintenance and easy installation and operation
- Manufactured to a high quality following the rigorous ISO 9001 production control
- Japanese , EC/UK and US versions available
- Note - External supply of compressed air required



Technical Specifications

Model: Pure H2/Air 100 to 250/1500

Schematic



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General specifications

Electrolysis cell (hydrogen channel):	Solid polymer membrane type (PEM)
Auto drying system (hydrogen channel):	No maintenance system (exclusive design)
Safety (hydrogen channel):	Auto shut-off/low internal volume of H2 gas (<40mL)
Pretreatment (air channel):	Via coalescing filter
User interface:	Set points, system status, user parameter/Touch screen/LCD graphic display
Remote command:	USB/download of the logfile possible
Water quality required (hydrogen channel):	Deionised or distilled <10µS conductivity
Compressed air required (air channel):	To ca. 8 barg (115 psi) compressed air. Water vapour and particulates are removed at the coalescing filter
Power requirements:	230V/50Hz or 230V/60Hz or 115V/60Hz or 100V/60Hz
Ambient temperature	10 to 40°C, 50 to 104°F

Dimensions and connections

Dimensions:	16x35x39cm (WxDxH) (without external tank)
Dimensions (shipping):	41x51x50cm (WxDxH)
Net Weight (all models):	15Kg
Gross (shipping) Weight (all models):	19Kg
Connections inlet:	n/a
Connections outlet:	1/8" Swagelok male compression

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Output

Hydrogen delivery pressure: 20 - 155psig/1.5 - 10.5 barg

Hydrogen purity: 99.99%/4.0, <0.1ppm hydrocarbons

Hydrogen flow rate at normal conditions*: from 100 to 250mL/min (depending on model)

Air delivery pressure: Up to 7 barg/100psig (depending on the inlet pressure)

Air purity: Hydrocarbon free, <0.1ppm. Particle free down to <0.1µm

Air flow rate at normal conditions*: up to 1500mL/min

Power consumption: 360 to 400 Watts (depending on model)

Ordering information

Code	Description	Model
700700	Generator dot-red® Pure H2/Air 100/1500	dot-red H2/Air 100/1500E
700701	Generator dot-red® Pure H2/Air 100/1500	dot-red H2/Air 100/1500U
700702	Generator dot-red® Pure H2/Air 100/1500	dot-red H2/Air 100/1500J
700703	Generator dot-red® Pure H2/Air 160/1500	dot-red H2/Air 160/1500E
700704	Generator dot-red® Pure H2/Air 160/1500	dot-red H2/Air 160/1500U
700705	Generator dot-red® Pure H2/Air 160/1500	dot-red H2/Air 160/1500J
700706	Generator dot-red® Pure H2/Air 250/1500	dot-red H2/Air 250/1500E
700707	Generator dot-red® Pure H2/Air 250/1500	dot-red H2/Air 250/1500U
700708	Generator dot-red® Pure H2/Air 250/1500	dot-red H2/Air 250/1500J

Parts supplied

Standard: 1 x Pure H2/Air 100/1500-100 unit, 1 x CD-manual

Optional: As below

Supplied: Singly

Servicing

Action & frequency: Change water de-ionisation cartridge every 6 months or earlier if necessary. Service every 12 months.

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Options and accessories

Table water tank, 5L, 7x33x33cm instead of floor water tank: 671001210

Additional floor water tank, 5L: 671001100

Additional floor water tank, 10L: 671101102

Additional 5L floor water tank, fully equipped: 671001105

Additional floor water tank, fully equipped: 671101107

Spare parts and consumables

Deionizer cartridge (spare) for hydrogen channel: 671101110

Maintenance kit/filter set for hydrogen channel: 671101120

New cell, standard exchange: 671101131

New cell: 671101032

Filter set (coalescing and dust), air channel: 671005110

Replacement catalysis oven, new, air channel: 671005210

