

.red® Ultra Pure Hydrogen gas generator



Product datasheet

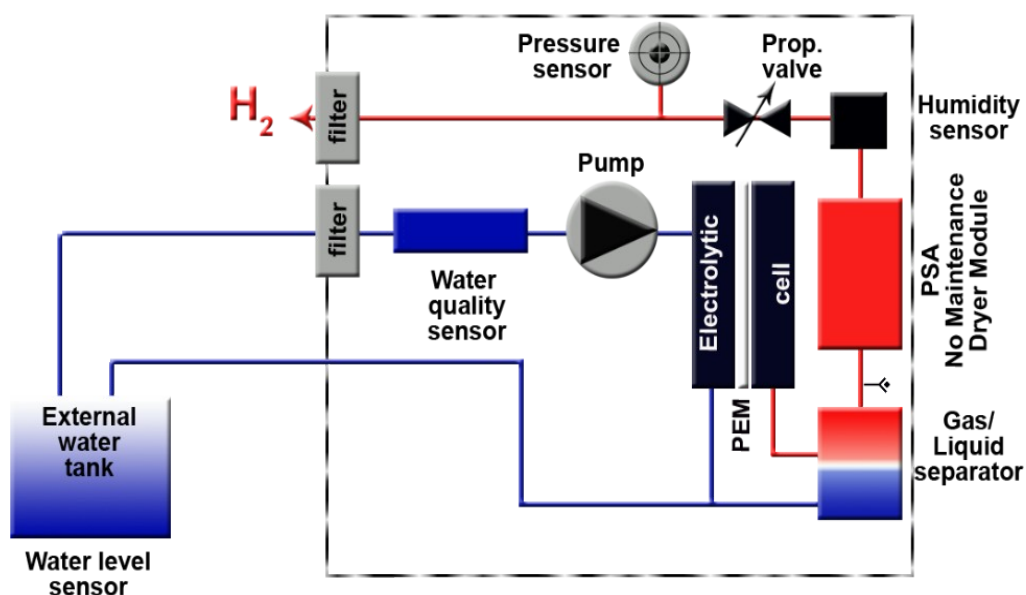
Description

Features

- Models available for 100, 160, 250, 400, 500, 700 or 900Nml/min gas production
- Produces ultra-high purity (99.9999%) hydrogen
- Wide output pressure range from 1.5 to a high 10.5 bar
- Economical, safe alternative to high pressure cylinders
- Low running costs - only requiring power and good quality water feed
- No need for costly downstream secondary filtration
- Minimum maintenance, easy installation and operation
- Designed for use as a GC carrier gas, but also can be used as a GC-FID and other detector combustion gas
- Manufactured to a high quality following the rigorous ISO 9001 production control
- EC/UK, Japanese and US versions available



Schematic



Distributed by
Stratlab Ltd.,
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General specifications

| | |
|---------------------------|--|
| Electrolysis cell: | Solid polymer membrane type (PEM) |
| Auto drying system: | No maintenance system (exclusive design) |
| Noise level: | Less than 48dB(A) |
| Safety: | Auto shut-off/low internal volume of H ₂ gas (<40mL) |
| User interface: | Set points, system status, user parameter/Touch screen/LCD graphic display |
| Remote command: | USB/download of the logfile possible |
| Cascading: | up to 10 units (if option installed) |
| Water quality required: | Deionised or distilled <10µS conductivity |
| Power requirements: | 230V/50Hz or 230V/60Hz or 115V/60Hz or 100V/60Hz |
| Ambient temp. conditions: | 10 to 40°C, 50 to 104°F |

Dimensions and connections

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

Output

| | |
|----------------------------------|--------------------------------------|
| Delivery pressure: | 20 - 155psig/1.5 - 10.5 barg |
| Hydrogen purity: | 99.9999%/6.0 |
| Flow rate at normal conditions*: | up to 900mL/min (depending on model) |
| Power consumption: | 170 Watts |



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Ordering information

| Code | Description | Model |
|--------|---|---------------------------|
| 700500 | Hydrogen dot-red Ultrapure 100ml/mn EU | dot-red Ultrapure H2 100E |
| 700501 | Hydrogen dot-red Ultrapure 100ml/mn US | dot-red Ultrapure H2 100U |
| 700502 | Hydrogen dot-red Ultrapure 100ml/mn JPN | dot-red Ultrapure H2 100J |
| 700503 | Hydrogen dot-red Ultrapure 160ml/mn EU | dot-red Ultrapure H2 160E |
| 700504 | Hydrogen dot-red Ultrapure 160ml/mn US | dot-red Ultrapure H2 160U |
| 700505 | Hydrogen dot-red Ultrapure 160ml/mn JPN | dot-red Ultrapure H2 160J |
| 700506 | Hydrogen dot-red Ultrapure 250ml/mn EU | dot-red Ultrapure H2 250E |
| 700507 | Hydrogen dot-red Ultrapure 250ml/mn US | dot-red Ultrapure H2 250U |
| 700508 | Hydrogen dot-red Ultrapure 250ml/mn JPN | dot-red Ultrapure H2 250J |
| 700509 | Hydrogen dot-red Ultrapure 400ml/mn EU | dot-red Ultrapure H2 400E |
| 700510 | Hydrogen dot-red Ultrapure 400ml/mn US | dot-red Ultrapure H2 400U |
| 700511 | Hydrogen dot-red Ultrapure 400ml/mn JPN | dot-red Ultrapure H2 400J |
| 700512 | Hydrogen dot-red Ultrapure 500ml/mn EU | dot-red Ultrapure H2 500E |
| 700513 | Hydrogen dot-red Ultrapure 500ml/mn US | dot-red Ultrapure H2 500U |
| 700514 | Hydrogen dot-red Ultrapure 500ml/mn JPN | dot-red Ultrapure H2 500J |
| 700515 | Hydrogen dot-red Ultrapure 700ml/mn EU | dot-red Ultrapure H2 700E |
| 700516 | Hydrogen dot-red Ultrapure 700ml/mn US | dot-red Ultrapure H2 700U |
| 700517 | Hydrogen dot-red Ultrapure 700ml/mn JPN | dot-red Ultrapure H2 700J |
| 700518 | Hydrogen dot-red Ultrapure 900ml/mn EU | dot-red Ultrapure H2 900E |
| 700519 | Hydrogen dot-red Ultrapure 900ml/mn US | dot-red Ultrapure H2 900U |
| 700520 | Hydrogen dot-red Ultrapure 900ml/mn JPN | dot-red Ultrapure H2 900J |

Parts supplied

Standard: 1 x Ultra Pure H2 unit, 1 x CD-manual
Optional: As below

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

- Cascading option: Cat. no. 671001110
- Remote control software/hardware: Cat. no. 671001111
- Table water tank, 5L, 7x33x33cm instead of floor water tank: Cat. no. 671001210
- Additional floor water tank, 5L: Cat. no. 671001100
- Additional floor water tank, 10L: Cat. no. 671001102
- Additional 5L floor water tank, fully equipped: Cat. no. 671001105
- Additional floor water tank, fully equipped: Cat. no. 671001107

Spare parts and consumables

- Deionizer cartridge (spare): Cat. no. 671101110
- Maintenance kit/filter set: Cat. no. 671101120
- New cell, standard exchange: Cat. no. 671101131
- New cell: Cat. no. 671101032

File: 2010 dot-red Ultra Pure H2 generator spec sheet V3.odt

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The logo for Stratlab, consisting of a solid orange square on the left, the word "STRATLAB" in a bold, black, uppercase, sans-serif font in the center, and another solid orange square on the right.