

.red® Pure Hydrogen Generators



Product datasheet

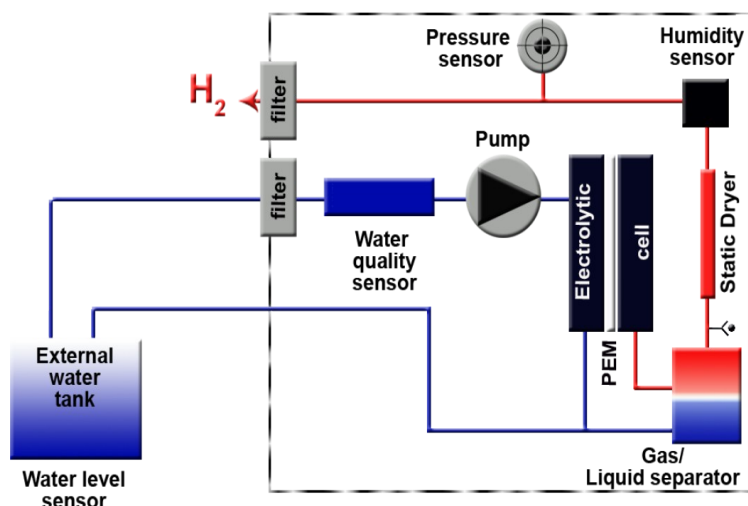
Description

Features

- Models available for 100, 160, 250, 400, 500, 700 or 900Nml/min
- Produce high purity (99.99%) 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-flame ionisation detector combustion gas. Can also be used with other GC detectors requiring combustion gas
- Manufactured to a high quality following the rigorous ISO 9001 production control
- EC/UK, Japanese and US versions available



Schematic



.red[®] Pure Hydrogen Generators



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General specifications

	Models Pure H2
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 H2 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 temperature conditions:	10 to 40°C, 50 to 104°F

Dimensions and connections

Dimensions:	16x35x25cm (WxDxH) (without external tank)
Dimensions (shipping):	41x51x36 (WxDxH)
Net Weight (Kg):	11-17Kg (depending on model)
Gross (shipping) Weight (Kg):	15-21Kg (depending on model)
Connections inlet:	n/a
Connections outlet:	1/8" Swagelok male compression

Output

Delivery pressure:	20 - 155psig/1.5 - 10.5 barg
Hydrogen purity:	99.99%/4.0
Flow rate at normal conditions*:	100 to 900mL/min (depending on model)
Power consumption:	100-460 Watts (depending on model)

Parts supplied

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



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Ordering information

Code	Description	Model
700600	Hydrogen gen dot-red® Pure 100ml/min EU	dot-red Pure H2 100-EU/UK
700601	Hydrogen gen dot-red® Pure 100ml/min US	dot-red Pure H2 100-US
700602	Hydrogen gen dot-red® Pure 100ml/min JPN	dot-red Pure H2 100-JPN
700603	Hydrogen gen dot-red® Pure 160ml/min EU	dot-red Pure H2 160-EU/UK
700604	Hydrogen gen dot-red® Pure 160ml/min US	dot-red Pure H2 160-US
700605	Hydrogen gen dot-red® Pure 160ml/min JPN	dot-red Pure H2 160-JPN
700606	Hydrogen gen dot-red® Pure 250ml/min EU	dot-red Pure H2 250-EU/UK
700607	Hydrogen gen dot-red® Pure 250ml/min US	dot-red Pure H2 250-US
700608	Hydrogen gen dot-red® Pure 250ml/min JPN	dot-red Pure H2 250-JPN
700609	Hydrogen gen dot-red® Pure 400ml/min EU	dot-red Pure H2 400-EU/UK
700610	Hydrogen gen dot-red® Pure 400ml/min US	dot-red Pure H2 400-US
700611	Hydrogen gen dot-red® Pure 400ml/min JPN	dot-red Pure H2 400-JPN
700612	Hydrogen gen dot-red® Pure 500ml/min EU	dot-red Pure H2 500-EU/UK
700613	Hydrogen gen dot-red® Pure 500ml/min US	dot-red Pure H2 500-US
700614	Hydrogen gen dot-red® Pure 500ml/min JPN	dot-red Pure H2 500-JPN
700615	Hydrogen gen dot-red® Pure 700ml/min EU	dot-red Pure H2 700-EU/UK
700616	Hydrogen gen dot-red® Pure 700ml/min US	dot-red Pure H2 700-US
700617	Hydrogen gen dot-red® Pure 700ml/min JPN	dot-red Pure H2 700-JPN
700618	Hydrogen gen dot-red® Pure 900ml/min EU	dot-red Pure H2 900-EU/UK
700619	Hydrogen gen dot-red® Pure 900ml/min US	dot-red Pure H2 900-US
700620	Hydrogen gen dot-red® Pure 900ml/min JPN	dot-red Pure H2 900-JPN

Servicing

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

Options and accessories

Cascading option: Cat. no. 671001110

Remote control software/hardware: 671001111

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

Additional floor water tank, 5L: 671001100

Additional floor water tank, 10L: 671001102

Additional 5L floor water tank, fully equipped: 671001105

Additional floor water tank, fully equipped: 671001107

Spare parts and consumables

Deionizer cartridge (spare): 671101110

Maintenance kit/filter set: 671101120

New cell, standard exchange: 671101131

New cell: 671101032

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