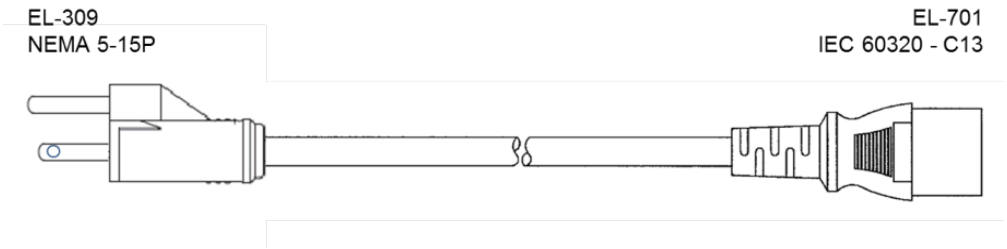
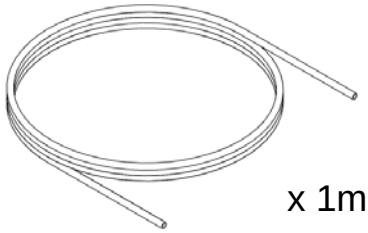
# Installation Guide – Precision 500 Generator 110V

## FITTINGS KIT



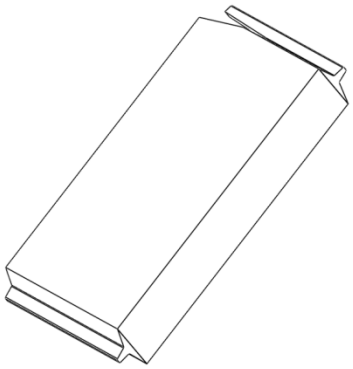

x 1

Mains Cable – US



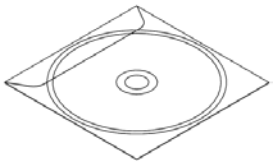
x 1m

⅜” Tygon Tube



x 1

Resin Column Re-fill



CD containing User Manual

x 1

2.5mm Hex Key

x 1

Barbed Fitting

Fountain Crescent
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Inchinnan, PA4 9RE
Scotland, UK

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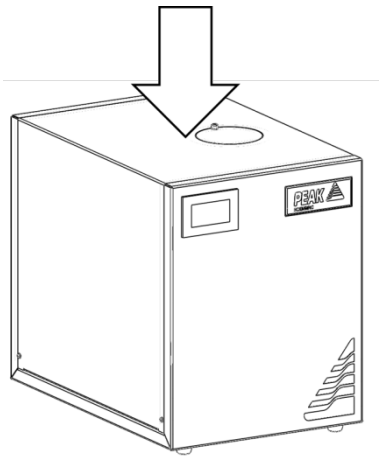
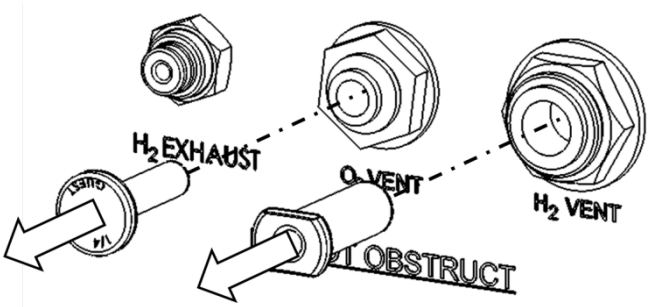
# INSTALLATION

**1.**



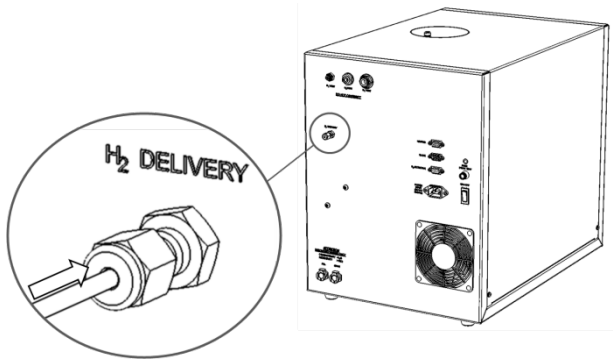
Unpack the generator from the shipping crate and position on a flat surface, in desired area.

**2.**



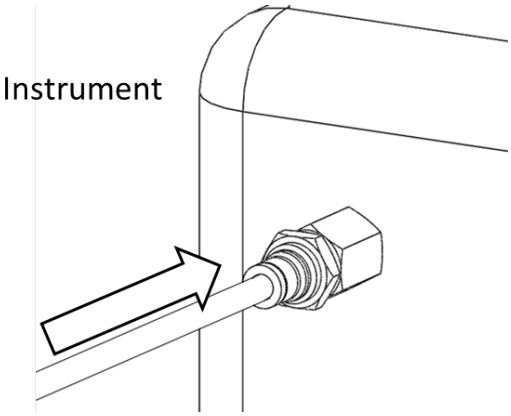

Ensure the ¼" and ⅜" plugs have been removed from the $O_2$ and $H_2$vents, located at the rear of the generator.

**3.**




Connect the ⅜" tubing, contained in the fittings kit, to the $H_2$ Delivery port at the rear of the generator.

**4.**




Connect the other end of the tubing to the Application.

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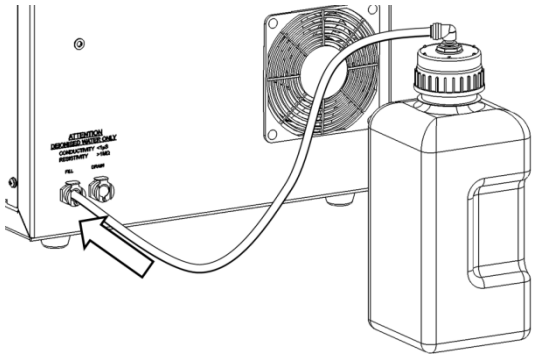
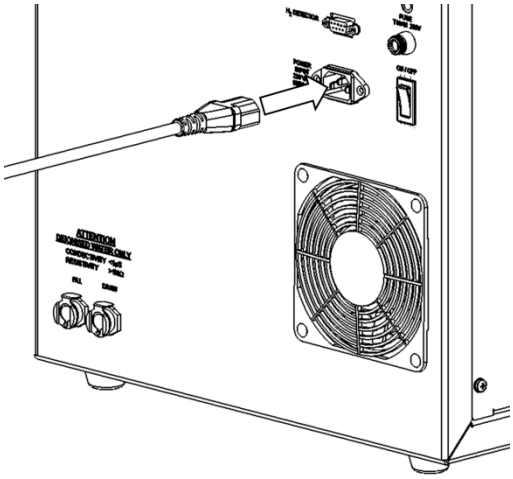
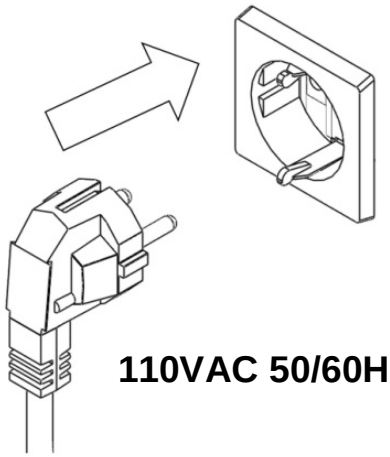
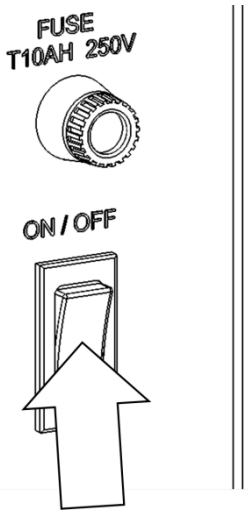
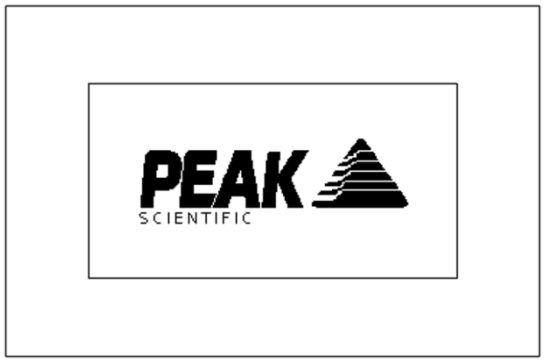
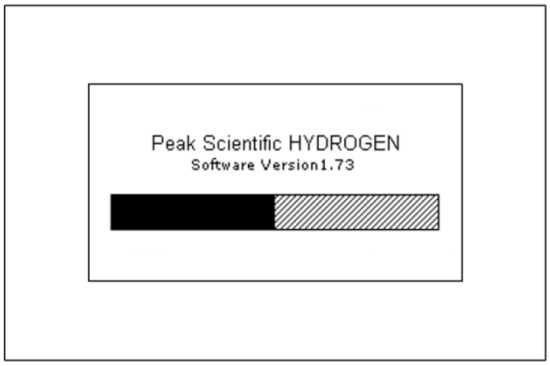
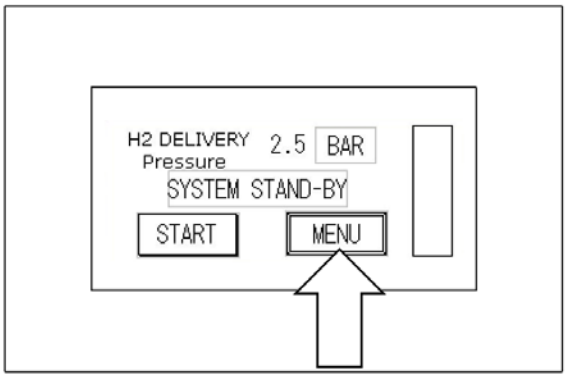
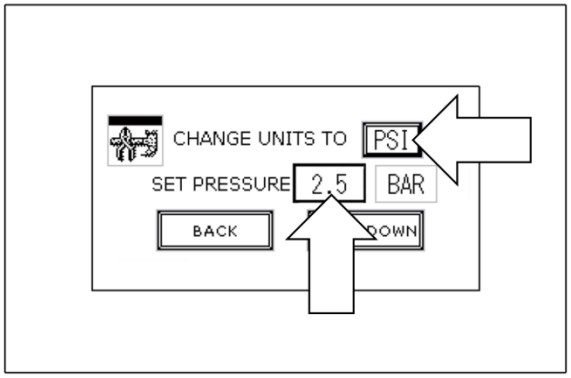
| **5.**<br>  | **6.**<br>  |
| Connect an external supply of deionised water to the Fill connection at the rear of the unit, using the supplied tubing. Water loading takes place automatically by means of a water pump located within the generator. | Select the mains cable from the fittings kit and plug the IEC 60320/C13 socket into the mains input at the rear of the generator. |
| **7.**<br>  <br>**110VAC 50/60Hz** | **8.**<br>  |
| Plug the mains cable into an appropriate 110VAC 50/60Hz single phase power supply. | Turn the generator on, using the switch on the back of the unit. |

| 9. | 10. |
|---|---|
|  |  |
| The touch HMI screen will illuminate and the start screen will be displayed. | The system will now run diagnostics and a leak detection test. |
| *** NOTE * If diagnostics are unsuccessful, an alarm will sound and a red failure screen will be displayed, complete with a mute button. The user is prompted at this point to contact their Peak service provider.** | |
| **11.** | **12.** |
|  |  |
| Upon completion of the diagnostic checks, the home screen will be displayed. The user should now select MENU. | The desired unit of measure and pressure should now be selected, by pressing the unit or pressure displayed. |

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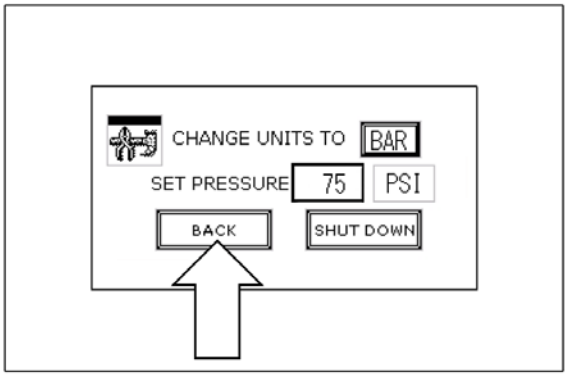
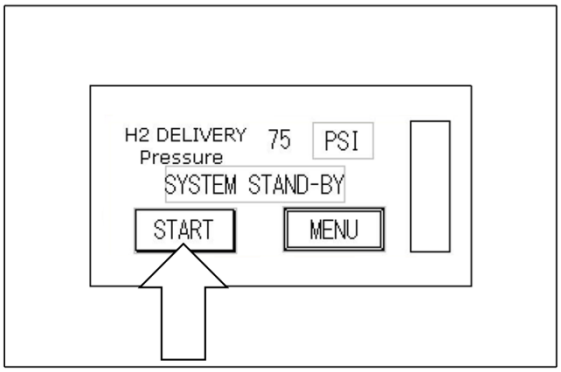
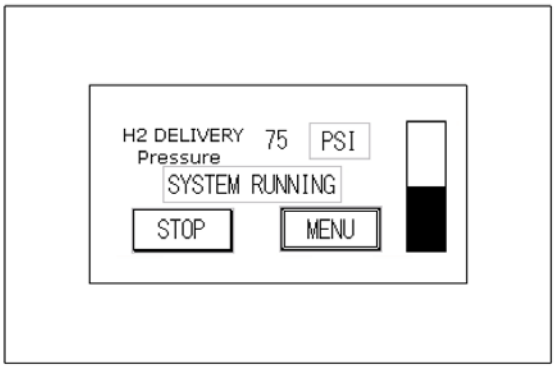
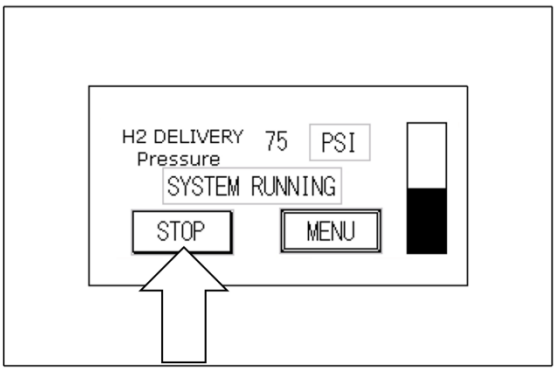
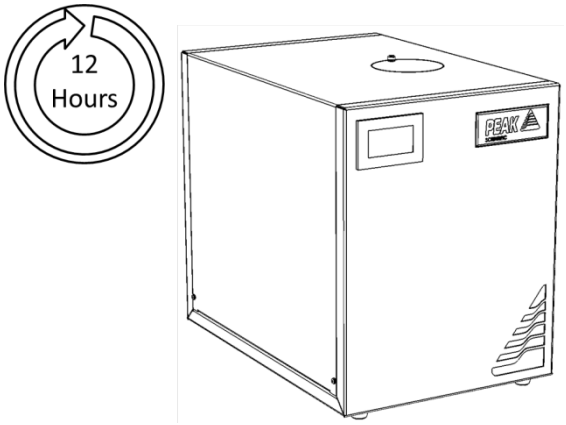
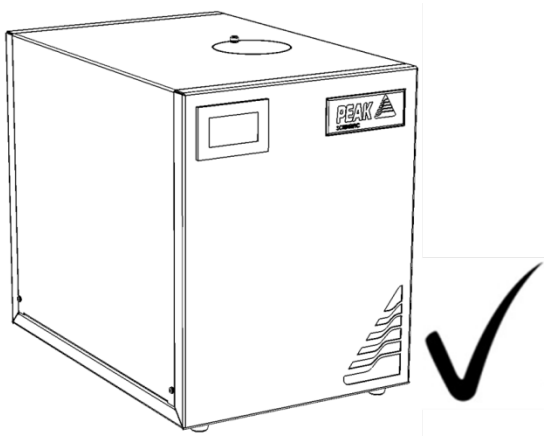
|---|---|
| **13.**<br>  | **14.**<br>  |
| Once the desired unit of measure and pressure have been selected, pressing BACK will return the user to the home screen. | Pressing START will start the supply to the application. The unit may take a few minutes to adjust to the desired pressure. |
| **15.**<br>  | **16.**<br>  |
| The unit will now maintain the desired pressure, while the application is supplied. | The system can be stopped at any time by pressing STOP. This will return the generator to Standby mode. |

**17.**




It is recommended that the unit is left to run for 12 hours before utilisation.

**18.**



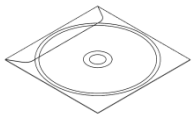
# CONGRATULATIONS

Your **PEAK SCIENTIFIC** gas generator is now fully installed, operational and ready to supply gas on demand to your instrument.

**General Notes**

***** The generator will operate on voltages of 110VAC +/- 10%. This means it will operate between 103V and 126V. It is okay to operate the generator on a mains voltage between 103V and 126V for a short period of time, however we would recommend fitting the listed transformer at your earliest convenience.

For all other technical specifications, operating instructions, service requirements, contact details and trouble shooting, please refer to the user manual contained on the CD supplied in the fittings kit. Please keep this for future reference.



**19.**

It is very important to register your generator with PEAK SCIENTIFIC. This will initiate your warranty entitlement. Please use the form on the next page to register your generator. You will need the generators serial number which can be found on the serial label on the rear of the generator.

# IMPORTANT DOCUMENTS

## Warranty Entitlement

To register your generator for your warranty entitlement, send the completed form to Peak Scientific by:

- **Email** warranty@peakscientific.com
- **Online** http://www.peakscientific.com/service-and-support/warranty_registration
- **Phone** +44 (0)141 530 4185
- **Fax** +44 (0)141 812 8200

| PRODUCT WARRANTY REGISTRATION | |
|---|---|
| COMPANY: | CONTACT NAME: |
| ADDRESS: | |
| | EMAIL ADDRESS: |
| | |
| CITY/TOWN: | **GENERATOR SERIAL NUMBER:** |
| POSTCODE: | |
| COUNTRY: | MODEL TYPE: |
| TELEPHONE: | **INSTALLATION DATE (DD/MM/YYYY):** |
| | |

## Important Please Note:

You have 1 month to register your Peak Scientific product from the date of shipment.

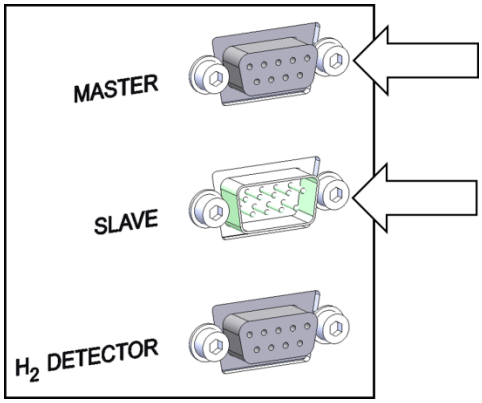
If you wish to defer installation of your generator you must notify Peak Scientific within 1 month of the shipment date. This can be done by emailing warranty@peakscientific.com Once registered the warranty will be honoured for a period of 12 months after the installation date.

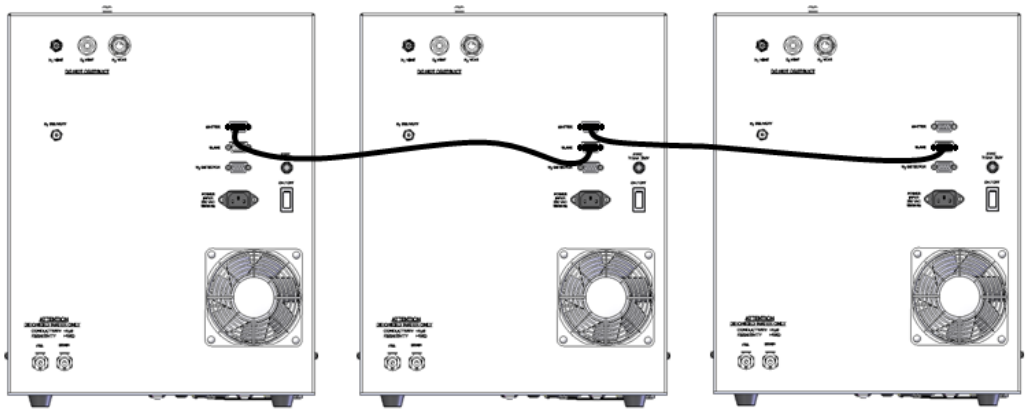
**For any generators that remain unregistered the warranty will begin from date of shipment.**

Thank you on behalf of Peak Scientific.

## Expanding Capacity

If multiple Precision 500 generators are being installed they must be connected as shown in the image below.



The units must be connected together via the ‘Master’ port on the first Precision 500, and the ‘Slave’ port at the rear of the next Precision 500 unit.

The first Precision 500 unit is automatically defined as the Master, and before the connections are made and $H_2$ is supplied, the desired pressure must be set on all units. This must be the same pressure for all.

The user can now press Start on the Master unit to begin the flow of $H_2$. The Master will now manage all the other units.

The Data Cables (08-8902) used to connect units together can be purchased from Peak Scientific.