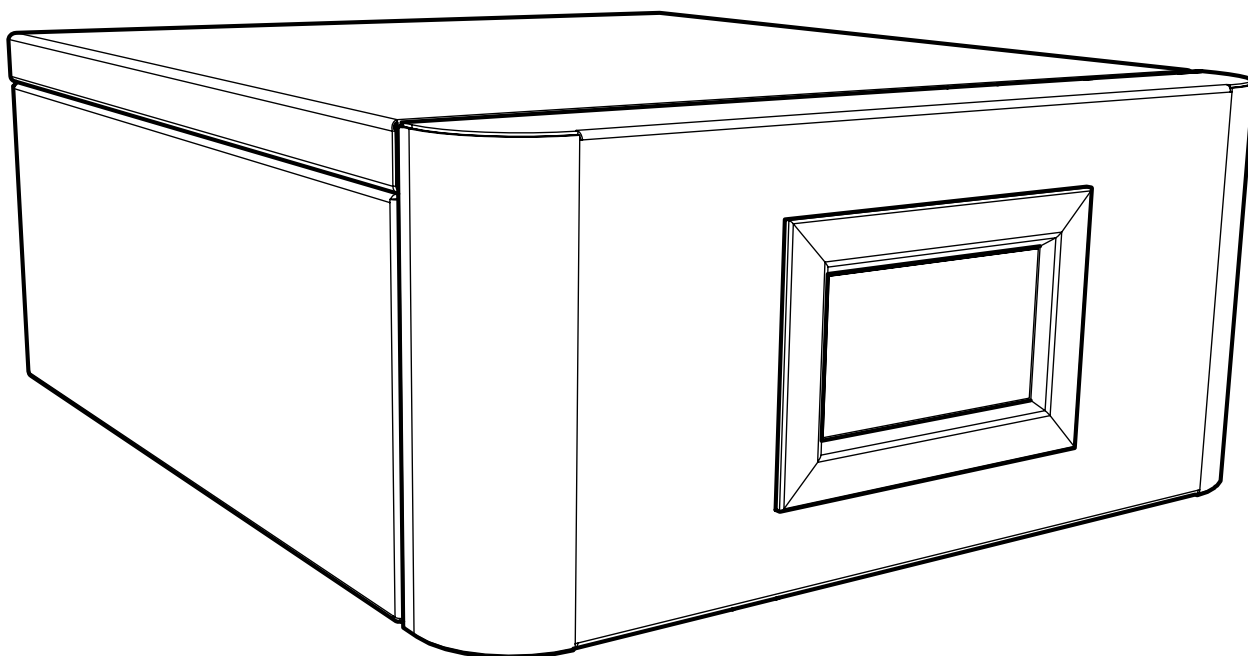


Collision Gas Add-On

Installation Guide



IMPORTANT

**Register product to operate at
www.peakscientific.com/activate**



IMPORTANT

Register Product to Operate

To begin operation of your unit you will need to register your generator. You can do so by **visiting www.peakscientific.com/activate** or by **downloading the Peak Genius App**.

Registering will activate your **2 year warranty*** - covering every single component in your generator.



Important!

You must register your generator before nitrogen generation can commence. In order to be eligible for warranty your generator must be registered to the end user (not a reseller or distributor). Once registered the warranty will be honoured for a period of 24 months.*

* For terms and conditions please visit www.peakscientific.com/warranty-statement/

Change History

Rev	Comment	Name	Date
1	Initial Release	L. Couttie	18/01/2023
2	Part Number Updates	L. Couttie	28/06/2023
3	Part Number Updates	D .Lai	04/01/2024
4	Part Number Updates	D. Lai	16/01/2024
5	Part Number Updates	L. Couttie	06/03/2024
6	Brand & General Update	C. Denholm	05/07/2024
7	Fittings Kit Update	L. Couttie	18/02/2025
8	Fittings Kit Update	L. Couttie	06/03/2025
9	Fittings Kit Update	L. Couttie	08/05/2025

How to use this Installation Guide

This document is intended to be used only as a Quick Start Guide, to facilitate safe and correct installation and initial configuration of your Peak Scientific gas generator.

For more extensive user operation directions, we recommend you download the User Manual from the website.

Please visit www.peakscientific.com/downloads to download the full User Manual for your gas generator.




Thank you for selecting Peak Scientific to meet your laboratory gas generation needs, should you require any further assistance or support please do not hesitate to contact Peak Scientific or Peak Partner from which you purchased your generator.

Safety Notices

Peak Scientific Instruments cannot anticipate every possible circumstance which may represent a potential hazard. The warnings detailed within this document detail the most known potential hazards, but by definition cannot be all inclusive. If the user employs an operating procedure, item of equipment or a method of working which is not specifically recommended by Peak Scientific, the user must ensure that the equipment will not be damaged or become hazardous to persons or property.

Symbols

This document uses the following symbols to highlight specific areas important to the safe and proper use of the Generator.

 WARNING	A WARNING notice denotes a hazard. It calls attention to an operating procedure, process or similar, which if not correctly performed or adhered to, could cause personal injury or in the worst case death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood or met.
 CAUTION	A CAUTION notice denotes a hazard. It calls attention to an operating procedure, process or similar, which if not correctly performed or adhered to, could cause damage to the Generator or the Application. Do not proceed beyond a CAUTION notice until the indicated conditions are fully understood or met.
	Caution, risk of electric shock. Ensure power to the Generator has been removed before proceeding.

Safety Notice to Users



These instructions must be read thoroughly and understood before installation and operation of your Peak Generator. Use of the generator in a manner not specified by Peak Scientific MAY impair the SAFETY provided by the equipment.

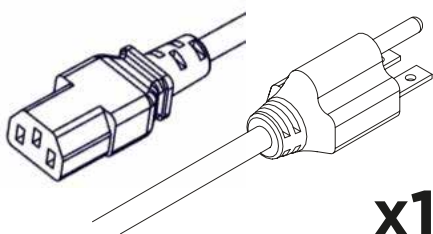


When handling, operating or carrying out any maintenance, personnel must employ safe engineering practices and observe all relevant local health and safety requirements and regulations. The attention of UK users is drawn to the Health and Safety at Work Act 1974, and the Institute of Electrical Engineers regulations.

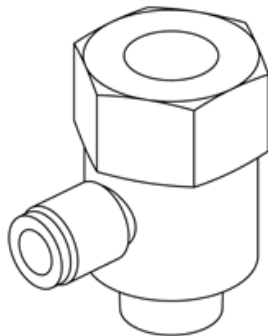


If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

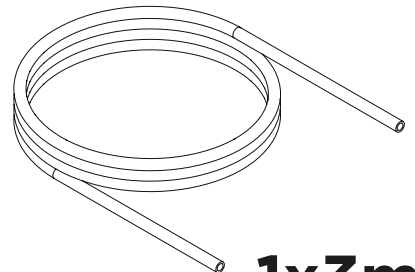
Fittings Kit - Collision Gas Add-On



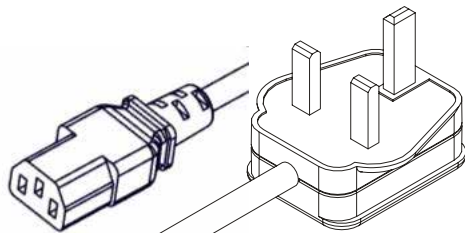
x1*
M CABLE C13 NEMA 6-15, US 220V 2M
04-1029



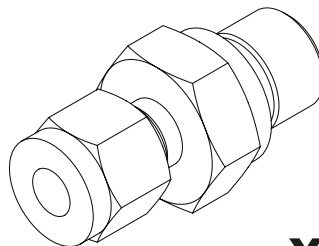
x1
1/4" Tee Fitting
3305227



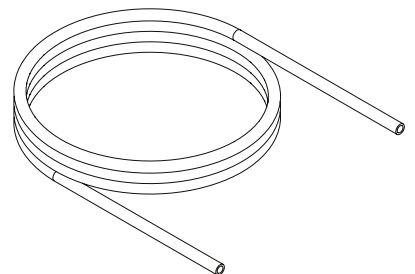
1x3m
1/4" PTFE Tubing 00-1266



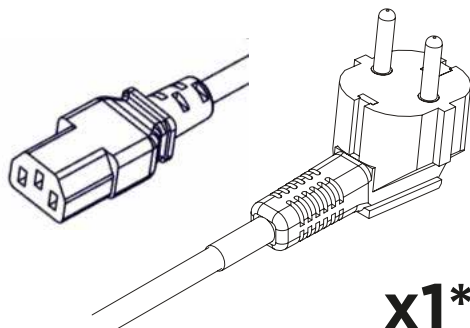
x1*
M CABLE C13 BS1363, UK 230V 5A 2M
04-1030



x1
1/4" Compression Fitting
02-4421



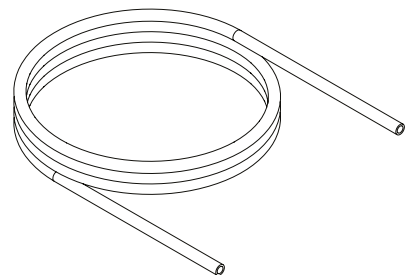
2x3m
6mm FEP Tubing 05-7060



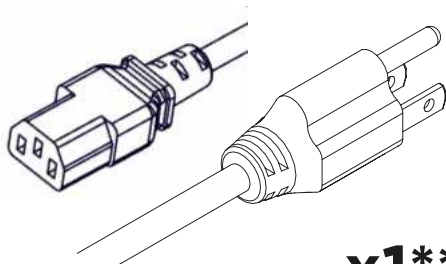
x1*
M CABLE C13 - CEE 7, EU 230V, 2.5M
04-1038



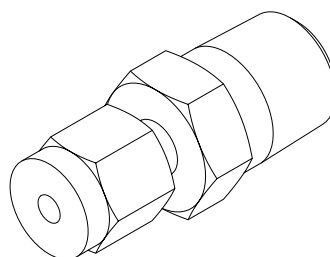
x2
1/4" BSPP x 6mm Push Fitting
3304226



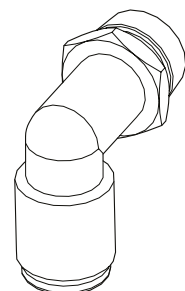
1x3m
1/8" PTFE Tubing 00-1262



x1**
M CABLE C13 NEMA 5-15, US 110V 2M
04-1039

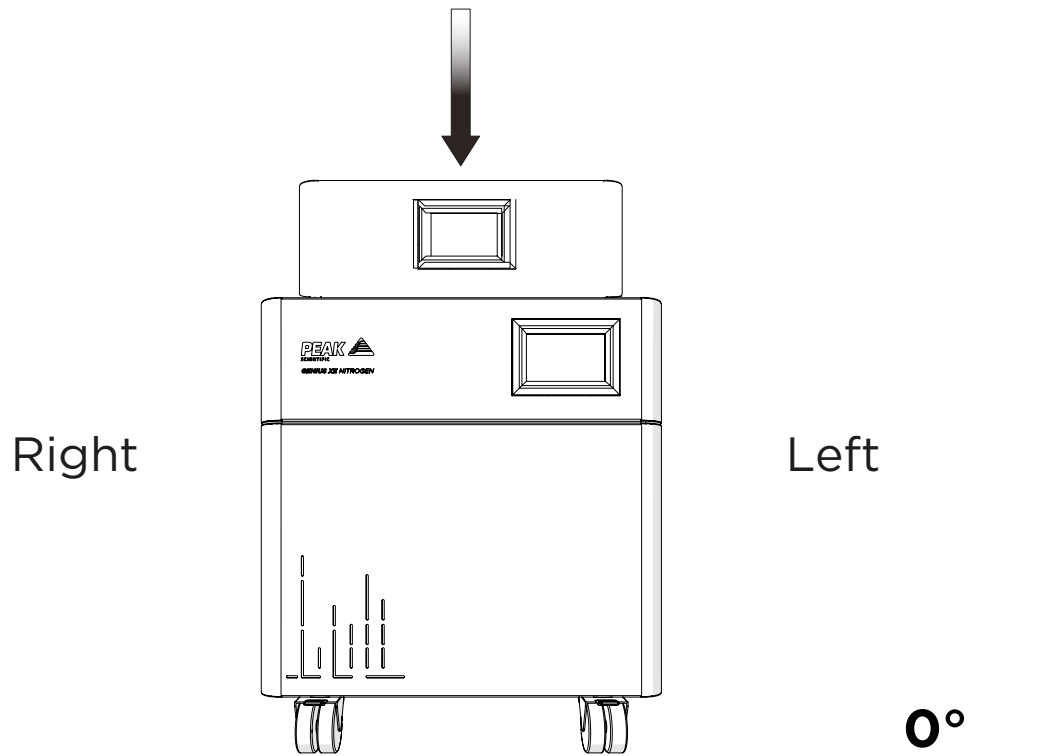


x1
1/4" x 1/8" Compression Fitting 02-1000



x1
1/4" - 6mm Push Fit Elbow Fitting 3303690

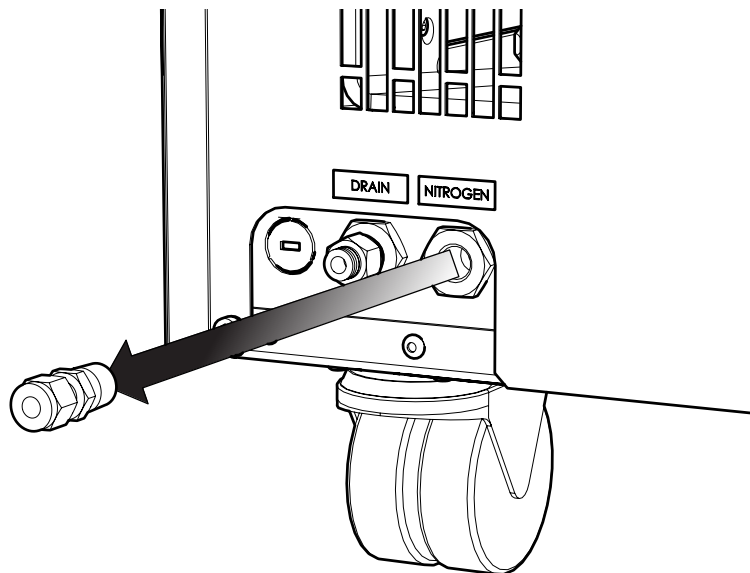
1.



Unpack the generator from the shipping crate, referring to the unpacking instruction located on the outside of the box, and **position on a flat surface** in desired area. Alternatively, unit can be placed on the top of Genius XE35.

WARNING: Safe lifting practices are advised.

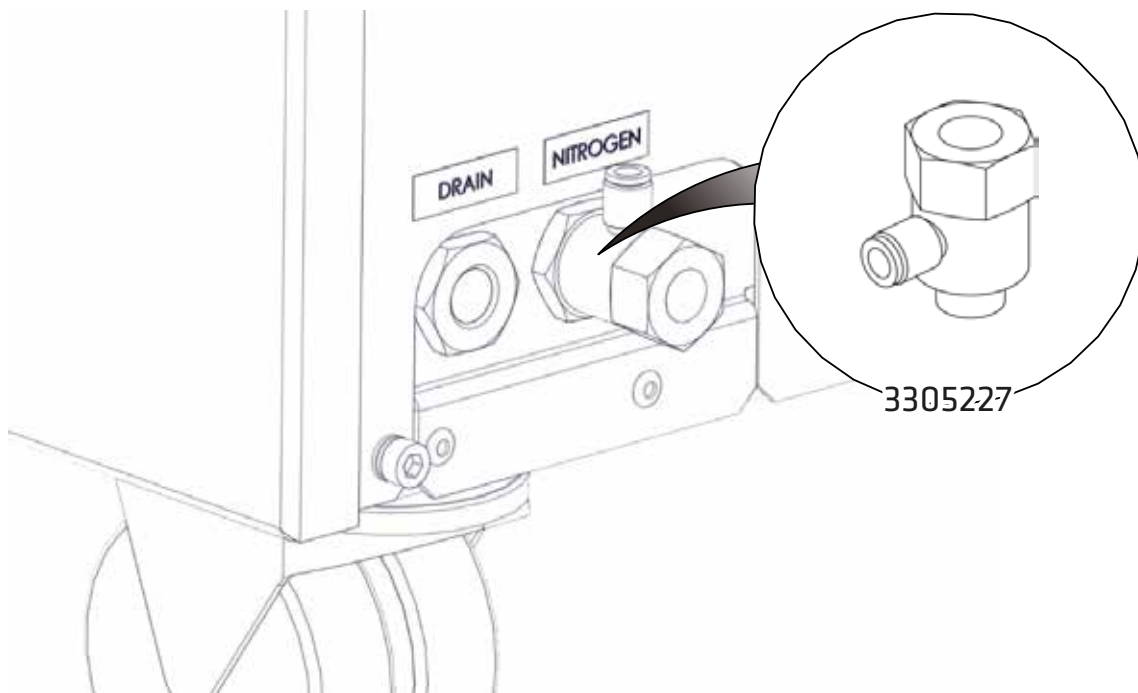
2.



Turn off Genius XE35 and remove the fitting from Nitrogen outlet port.

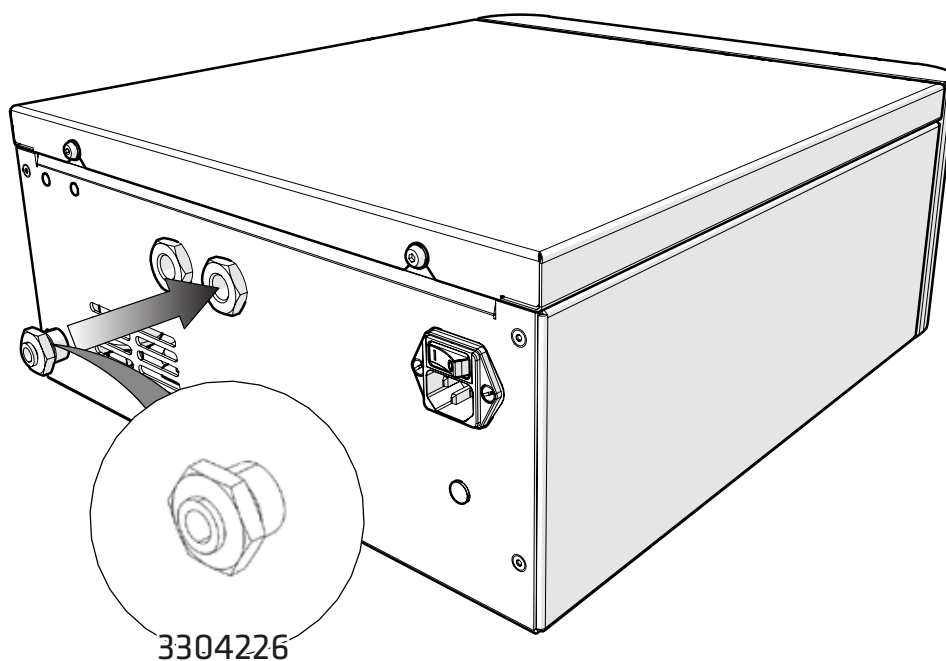
Check if the unit is not pressurized prior to removing the fitting and make sure that disconnecting the application or switching off Genius XE35/XE70 will not cause any damage to the application.

3.



Attach Tee Piece fitting 3305227 to the nitrogen output of the Genius XE 35 and reconnect old fitting to the Tee Piece fitting 3305227

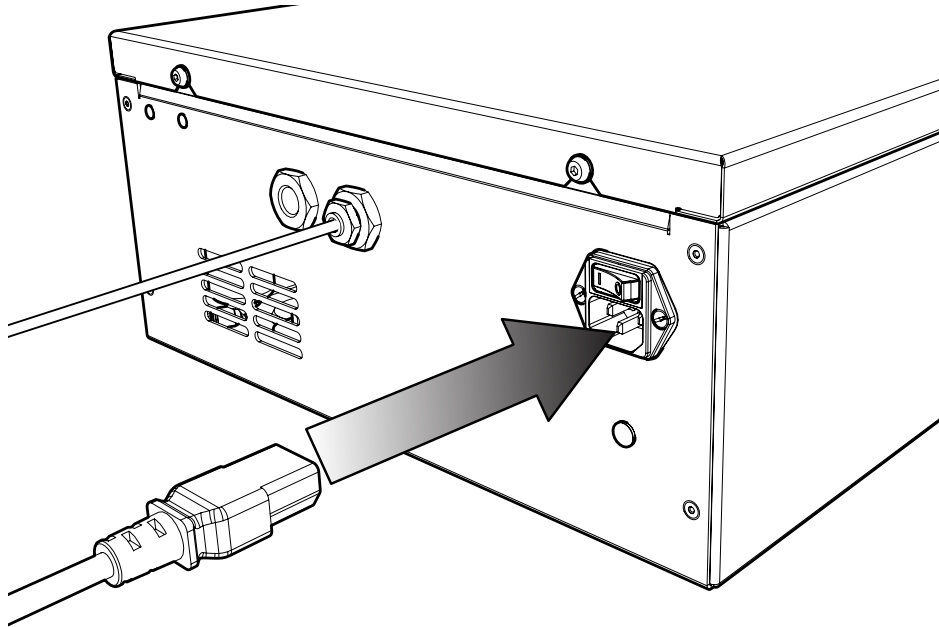
4.



Attach ¼" x 6mm (3304226) straight fitting to the inlet of the generator and the fitting that is suitable for the tubing used between the unit and the application to the outlet port

Measure and cut the correct length of 6mm FEP tubing between outlet of the Genius XE35/XE70 and the inlet port on Collision Gas Add-on unit and connect both generators. Keep the length of a tubing to minimum.

5.

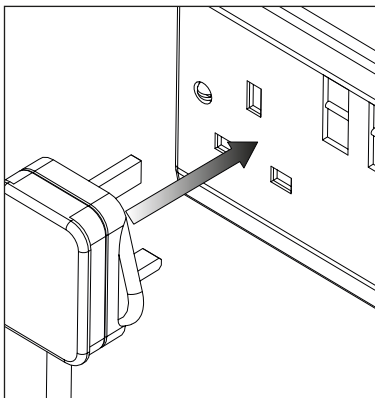


Select the appropriate power cable from the fittings kit and **plug the IEC 60320/C13 cable into the power input** at the rear of the generator.

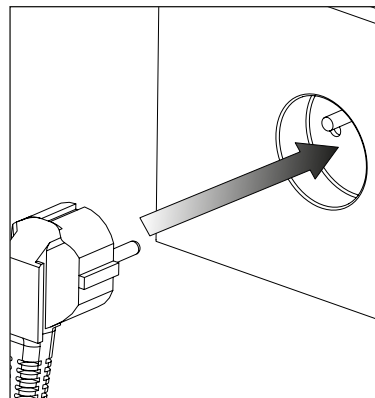
Please note both 110V and 230V US cables have been supplied, select the correct mains cable for your supply voltage.

6.

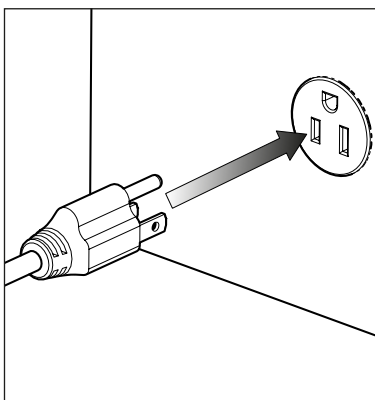
UK



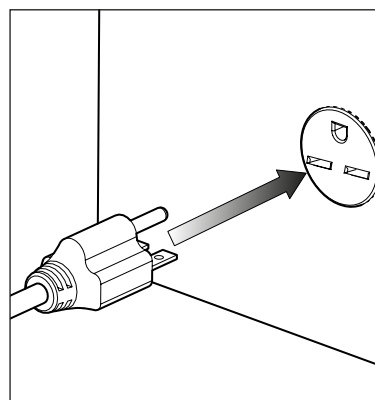
EU



US
120V



US
230V

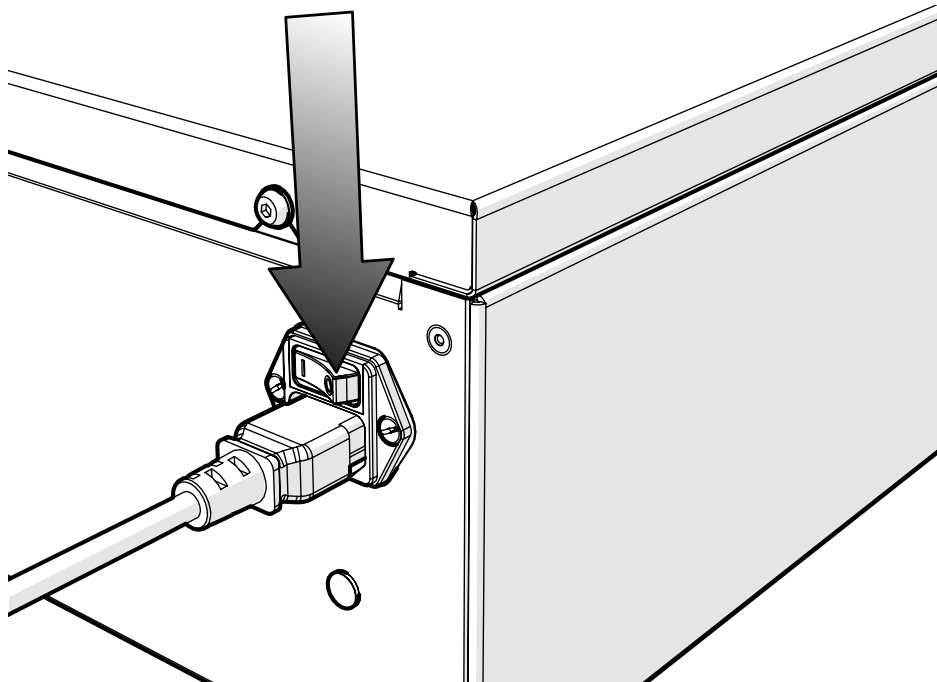


Plug the mains cable into the corresponding **120VAC 60Hz OR 230VAC 50/60Hz** single phase power supply.

CAUTION ensure the correct cable has been selected for your electrical supply.

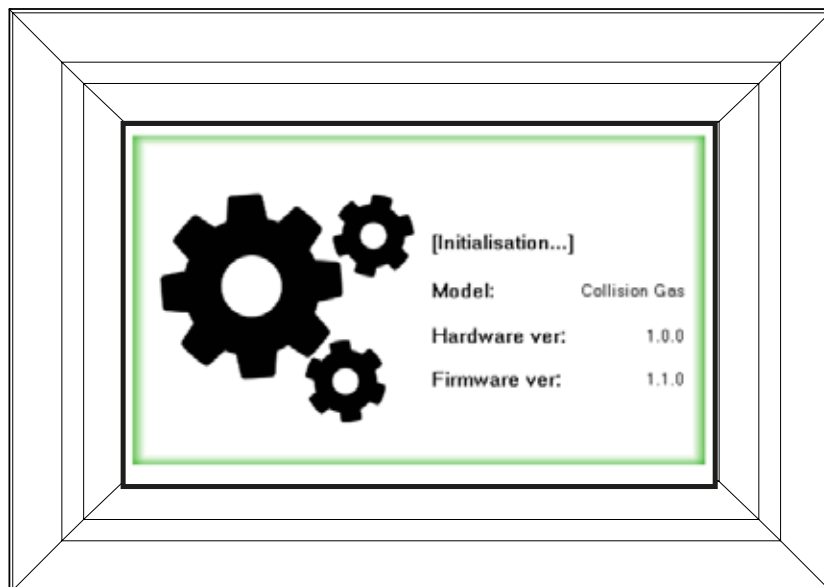
Consult the **Electrical Requirements** section if you are unsure of the requirements of your generator.

7.



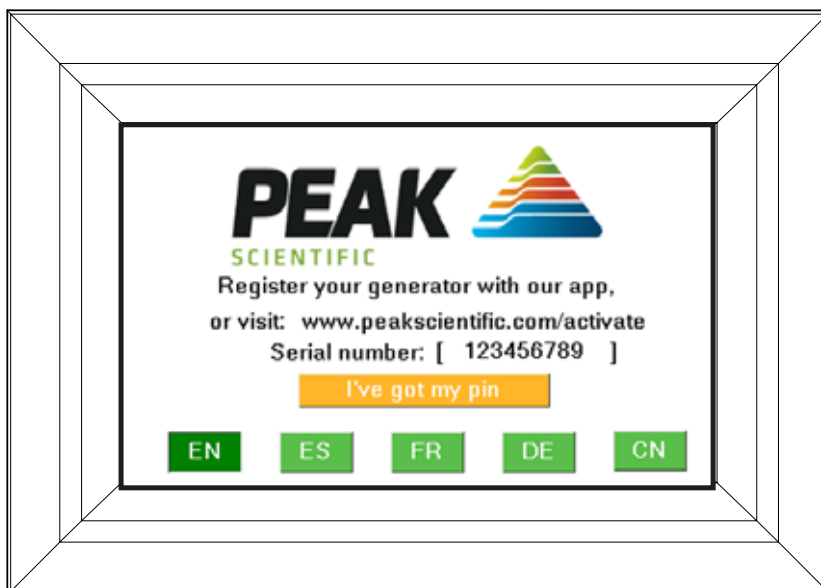
Switch the unit ON using the switch on the rear panel, supply gas source (Genius XE35/XE70) can be switch back on again.

8.



Generator will now display **Initialisation screen**. It should inform about the product name, hardware and software version.

9.



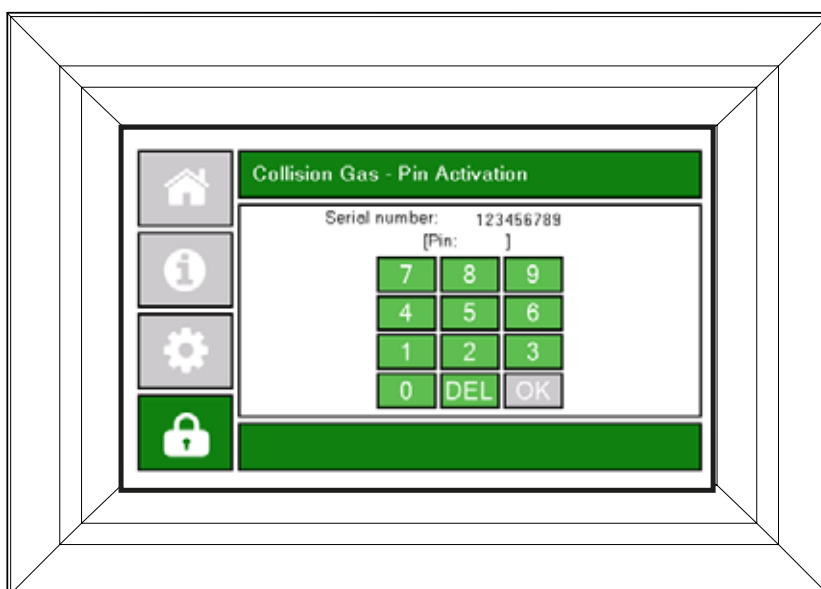
Before the generator will start-up for the first time the user must enter a unique 4-digit PIN code and select the language.

To receive your generator's unique PIN code, please register on the Peak website **www.peakscientific.com/activate** or **by downloading the Peak mobile app** from the Google Play Store or Apple App Store. A PIN code may also be requested by phoning the Peak helpdesk.

You will require the generator serial number which is displayed on the screen below.

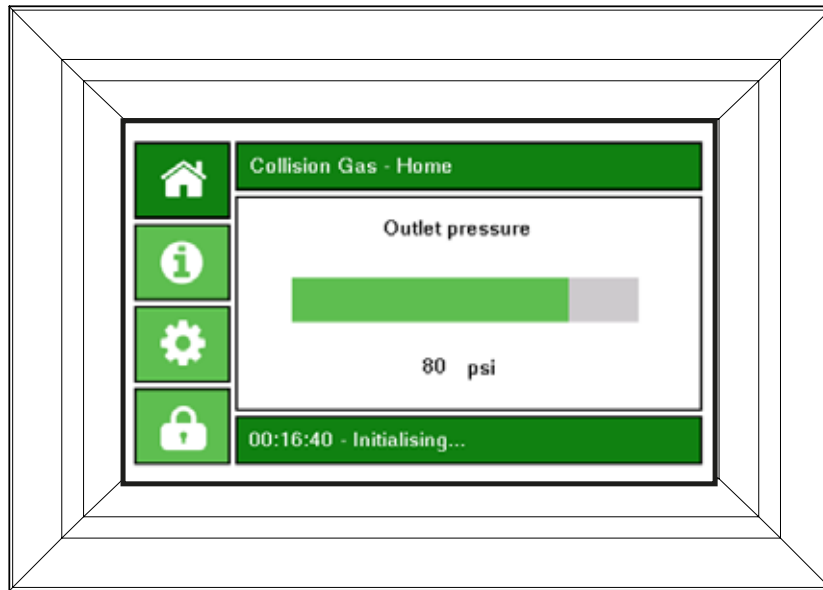
This code is only required on the initial start-up of the unit on the screen on the front of the generator.

10.



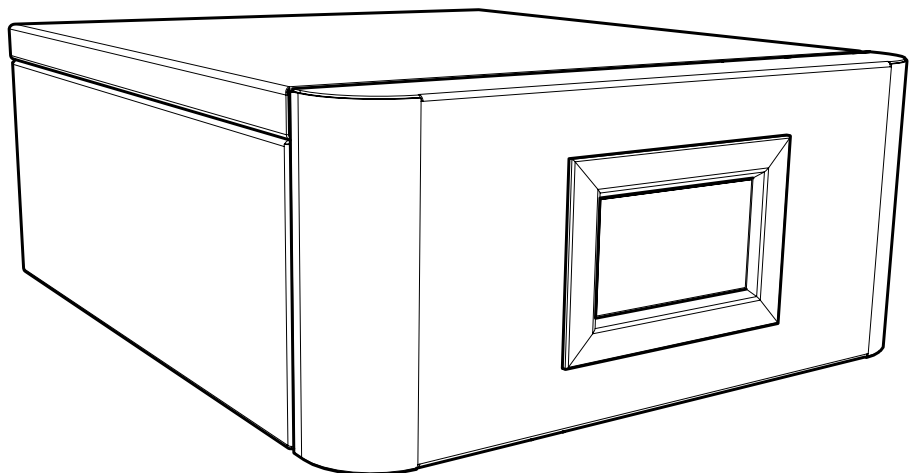
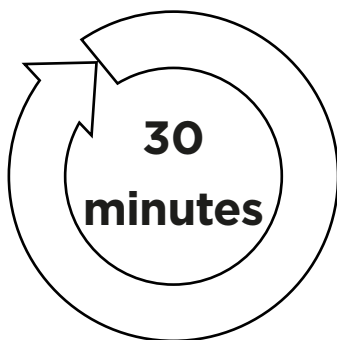
Enter your PIN. If entered incorrectly the screen will briefly display a wrong pass code warning before allowing a new PIN entry attempt.

11.



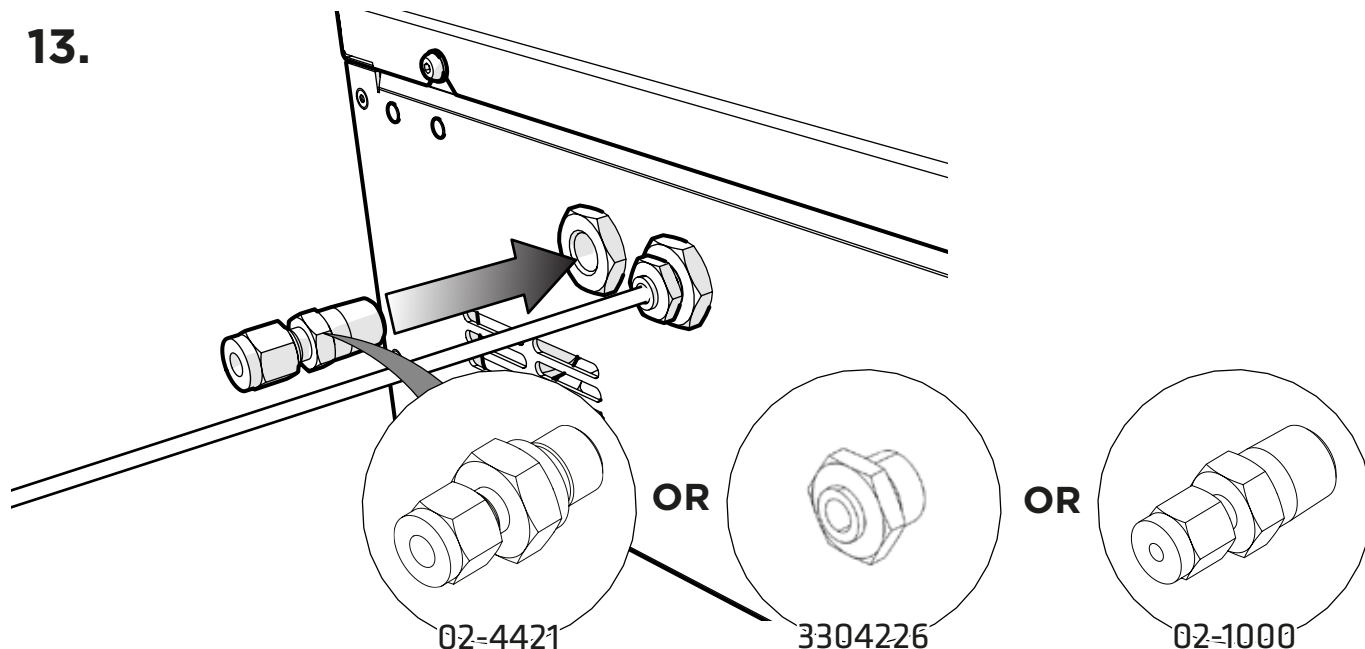
Generator will now go thru 3 hours initialization stage during which should achieve correct purity and outlet pressure. The outlet pressure reading on the display **will gradually increase** to the factory set pressure of 80 psi (5.5 bar).

12.



Leave the generator **switched on** for a period of **30 minutes** to purge the system.

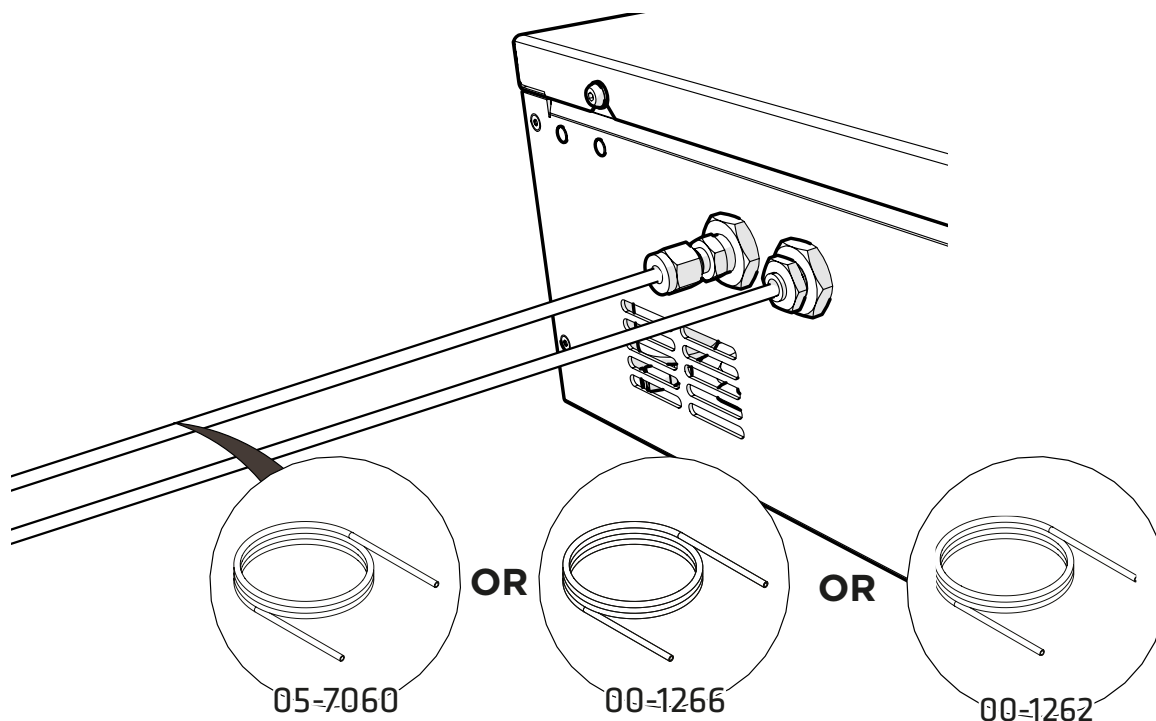
13.



Connect the Generator to the application

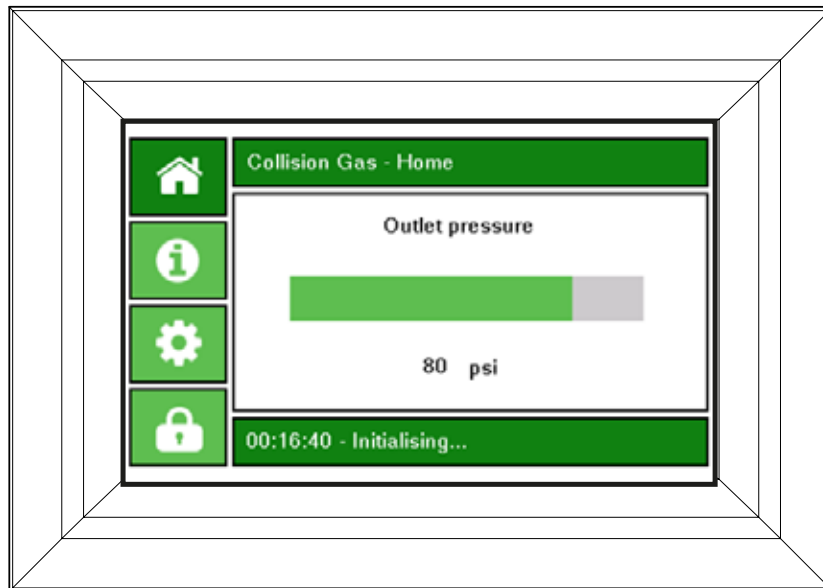
Depending on the size of the inlet on the instrument, select either the ¼" **Compression Fitting 02-4421**, the remaining ¼"- 6mm **Push Fit Fitting 3304226**, or the ¼" x 1/8" **Compression Fitting 02-1000**

14.



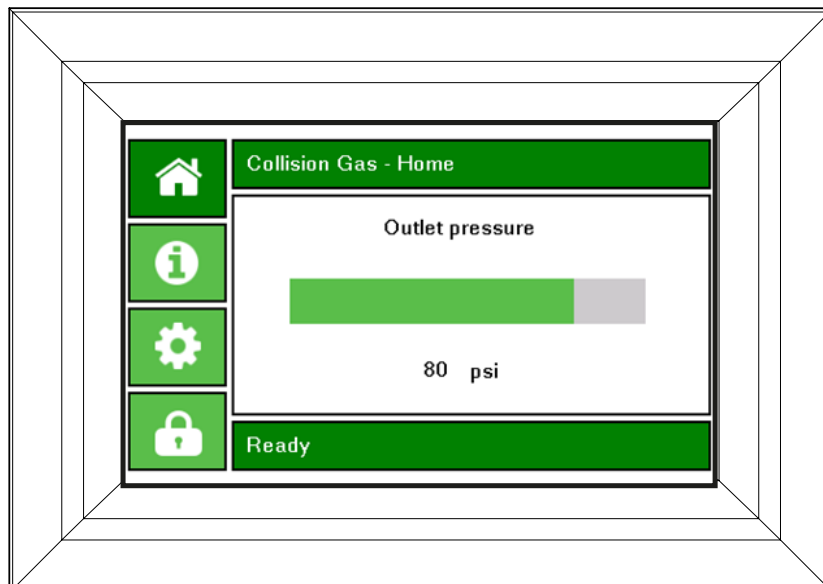
Attach the appropriate sized **6mm FEP**, ¼" **PTFE** or 1/8" **PTFE tubing** to the fitting attached to the **N2 Outlet port** and connect to the **gas inlet of your instrument**.

15.



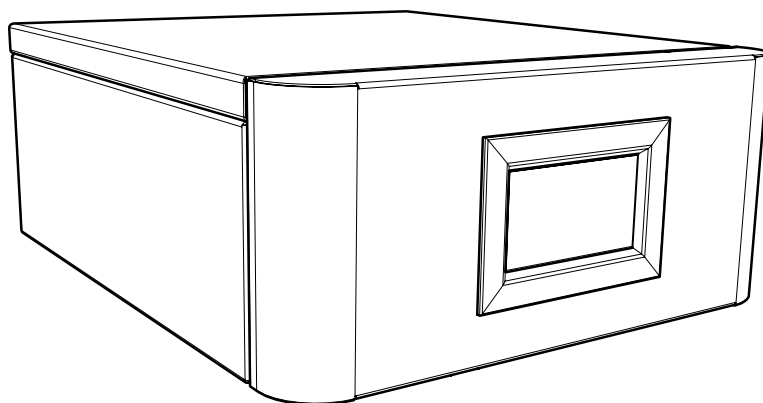
The unit will continue going **initialisation screen** until 3 hours is passed.

16.



After 3 hours time, the message on the bottom of the screen should display **Ready** and generator should be ready to use.

17.



CONGRATULATIONS

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

General Notes

1. The FEP/Teflon tube supplied in the fittings kit is to allow the generator to be installed adjacent to the instrument it is supplying. If the generator is to be installed further away from the instrument then attention needs to be paid to pressure drops that could occur. The maximum distance away from the instrument the generator can be placed still using 6mm (4mm internal diameter) or ¼" (3/16" internal diameter) tubing is 3m. For further information relating to tubing lengths please refer to the user manual.

Please familiarise yourself with the full **User Manual** available at **www.peakscientific.com/downloads**. This includes all other technical specifications, operating instructions, service requirements, contact details and trouble shooting.

Please visit www.peakscientific.com/downloads to download the full User Manual for your gas generator.

[**PEAK Protected**]TM

Peak Scientific has highly trained, fully certified Field Service Engineers located in over 20 countries across every continent around the world. This allows us to provide an industry-leading rapid response service to our customers. With [**Peak Protected**], your laboratory's productivity becomes our top priority.

To discuss Peak Protected generator cover and payment options speak to your local Peak Representative or for further information contact: protected@peakscientific.com.

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