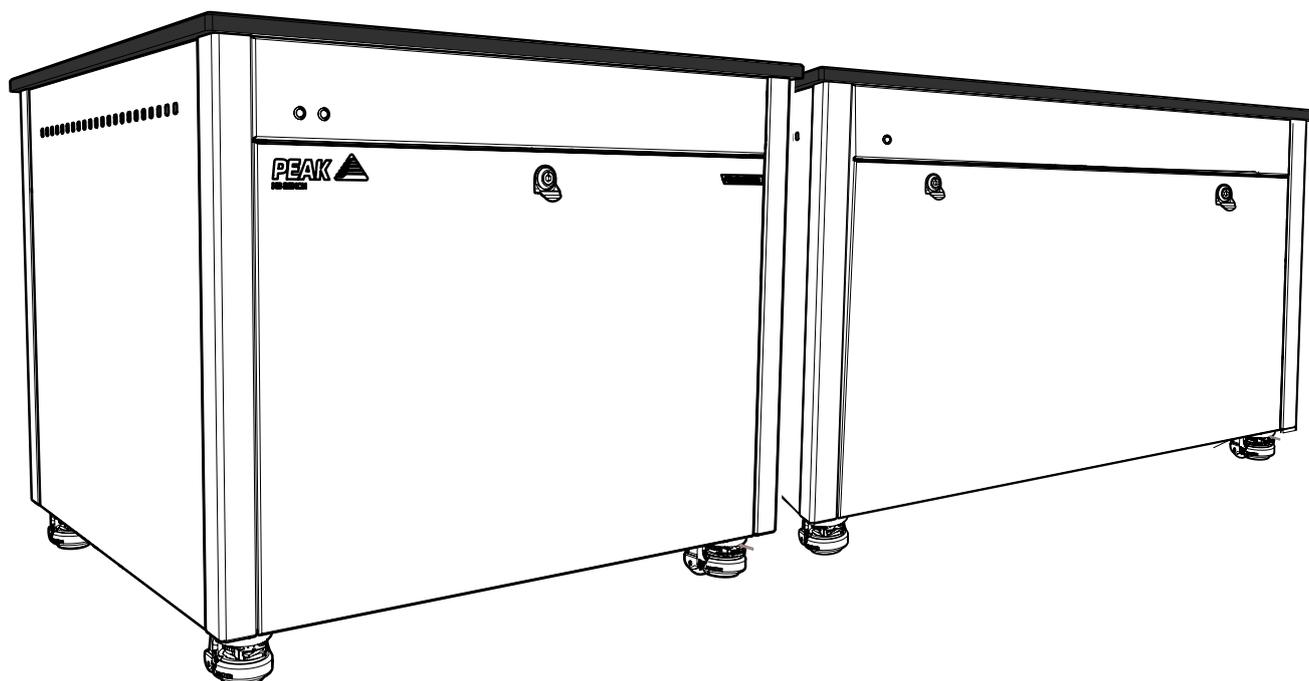


MS Bench (All Models)

Installation Guide



Change History

Rev	Comment	Name	Date
1	Initial Release	L. Couttie	13/06/2019
2	Content Update	L. Couttie	20/11/2019
3	Fittings Kit Update	L. Couttie	03/02/2020
4	SCIEX Feedback Updates	L. Couttie	31/03/2020
5	Fittings Kit Update	L. Couttie	24/08/2020
6	Fittings Kit Update	L. Couttie	06/08/2021
7	Intended Use of Equipment Update	L. Couttie	25/05/2022
8	Drain connection warning added	L. Couttie	02/11/2022
9	Branding Update	L. Couttie	05/12/2023
10	Gauges Note Update	L. Couttie	21/03/2024

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, and 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.

Intended Use of Equipment

MS Bench SCI 1, is a support cabinet with in-built cooling provided by fans, its top surface and slide out tray are available for use by the customer as required for their planned application.

MS Bench G SCI 1 is a support cabinet with an in-built Nitrogen generator. Its top surface and internal storage space are available for use by the customer as required. **However, it CANNOT be used to situate the MS due to vibration emitted by the internal generator.**

The inbuilt generator provides an output of both compressed air and nitrogen for supply to customer application on demand via its compressors.

MS Bench SCI 2 is a support cabinet with two internal compartments, one containing inbuilt cooling provided by fans and a slide out tray, the other open for a larger roughing pump. The top surface is available for the customer to use for their planned application.

MS Bench G SCI 2 is a support cabinet with an in-built nitrogen generator, with higher gas flows than the G SCI 1. The top surface is available for the customer to use for their planned application. **As per G SCI 1 the MS Bench G SCI 2 is NOT suitable for situating the MS.**

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

 <p>WARNING</p>	<p>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.</p>
 <p>CAUTION</p>	<p>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.</p>
	<p>Caution, risk of electric shock. Ensure power to the Generator has been removed before proceeding.</p>

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.

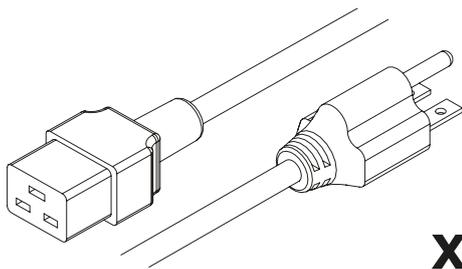


'The MS Bench SCI 1 & SCI 2 are designed to support most RUO SCIEX MS Systems (except TripleTOF 5600+, 6600, and 6600+) per the weights and dimensions provided in Sciex site prep manuals.

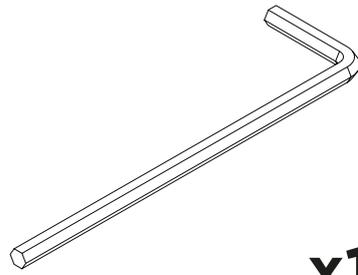


The MS Bench G SCI 1 & G SCI 2 are designed to support Sciex liquid chromatography (LC) systems. **The MS Bench G SCI 1 & G SCI 2 are NOT suitable for placing the MS.**

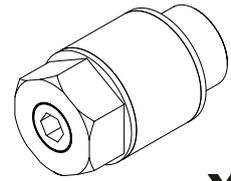
Fittings Kit



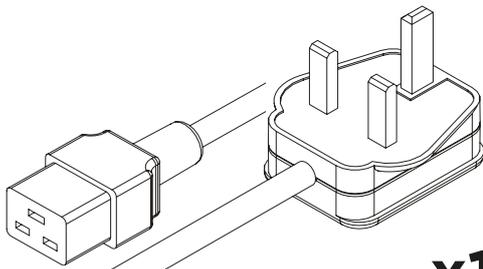
x1
US Mains Cable C19 6-15 04-1024



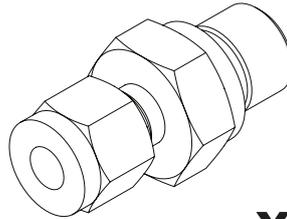
x1
8mm Hex Key 00-0007



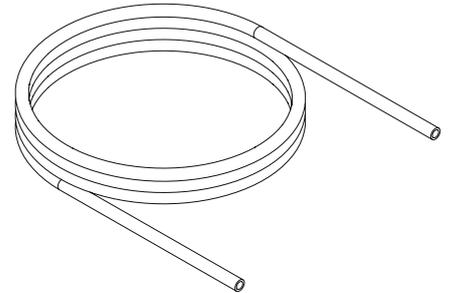
x3*
Flow Control Silencer 02-1096



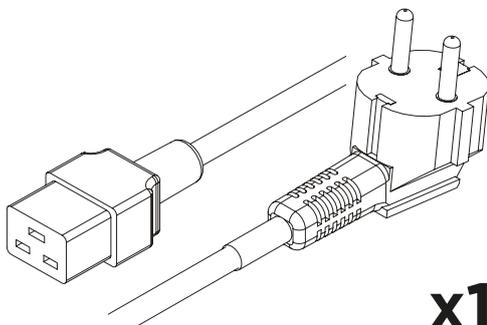
x1
UK Mains Cable C19 04-1025



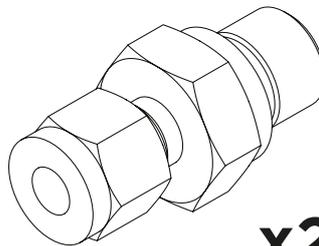
x1*
5/16" Compression Fitting
3303538



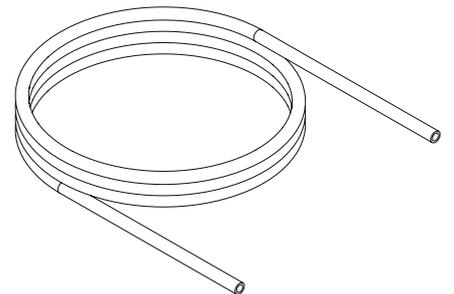
1x3m*
5/16" Teflon Tubing 3303537



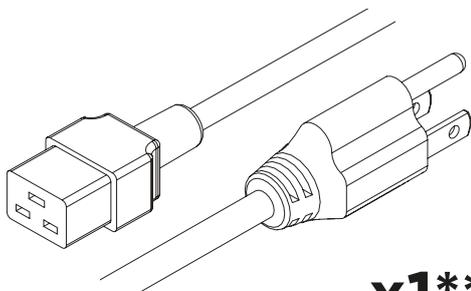
x1
EU Mains Cable C19 04-1026



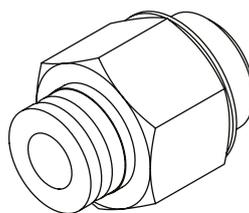
x2*
1/4" Compression Fitting
02-4421



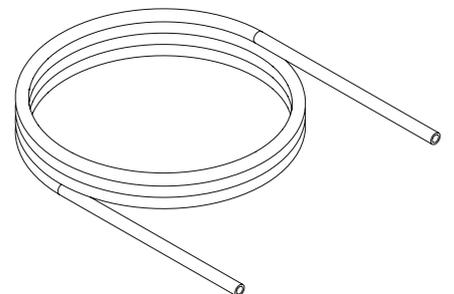
2x3m*
1/4" Teflon Tubing 00-1266



x1**
US Mains Cable 120V C19 5-15 04-1035



x1*
1/4" - 6mm Push Fit Fitting
02-4600

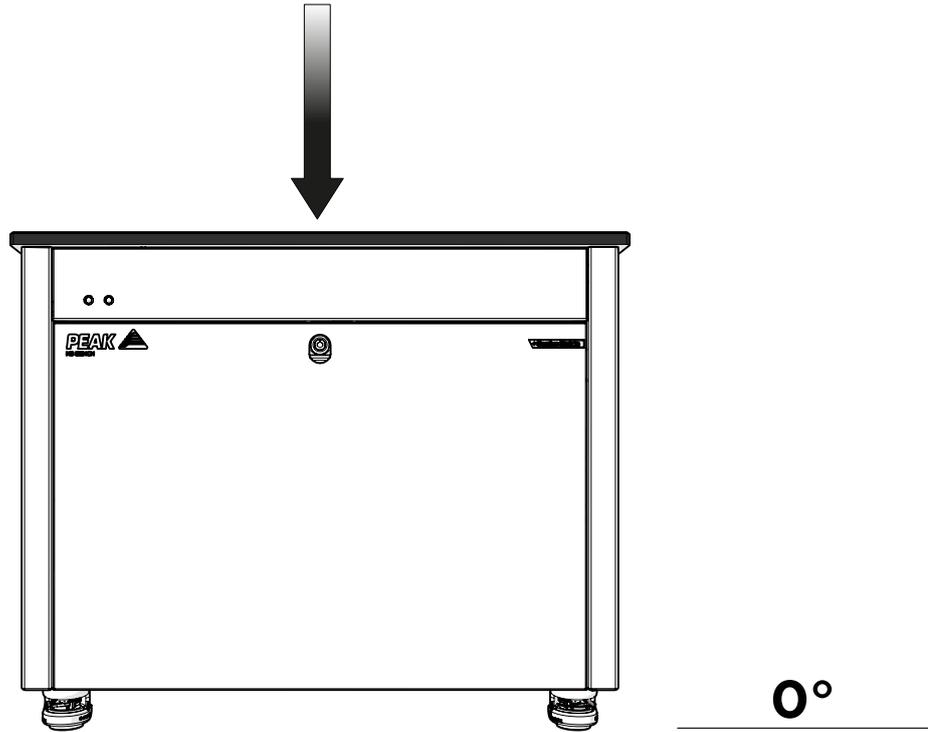


1x3m*
6mm OD x 4mm ID PE 00-1282

* MS Bench G SCI 1 & G SCI 2 Only

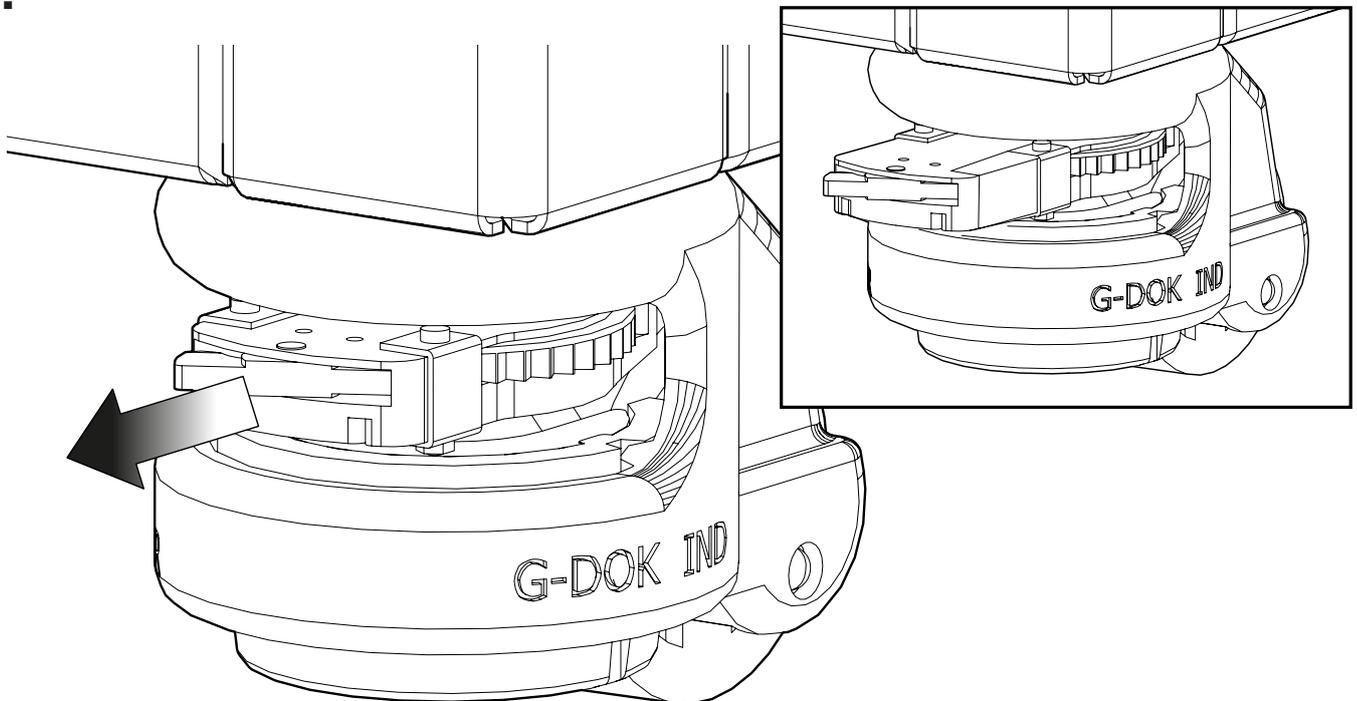
** MS Bench SCI 1 & SCI 2 Only

1.



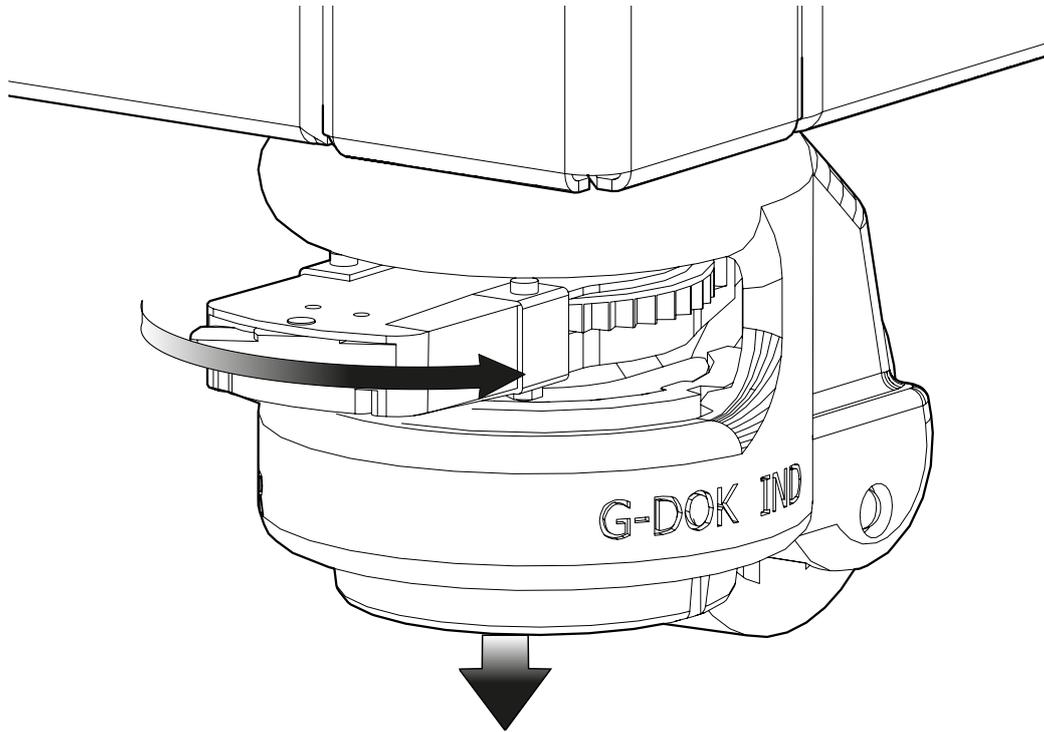
Unpack the generator from the shipping crate and position on a flat surface, in desired area.

2.



To extend the levelling feet, first pull the ratchet handle out.
There is a ring pull on the handle to aid removal.

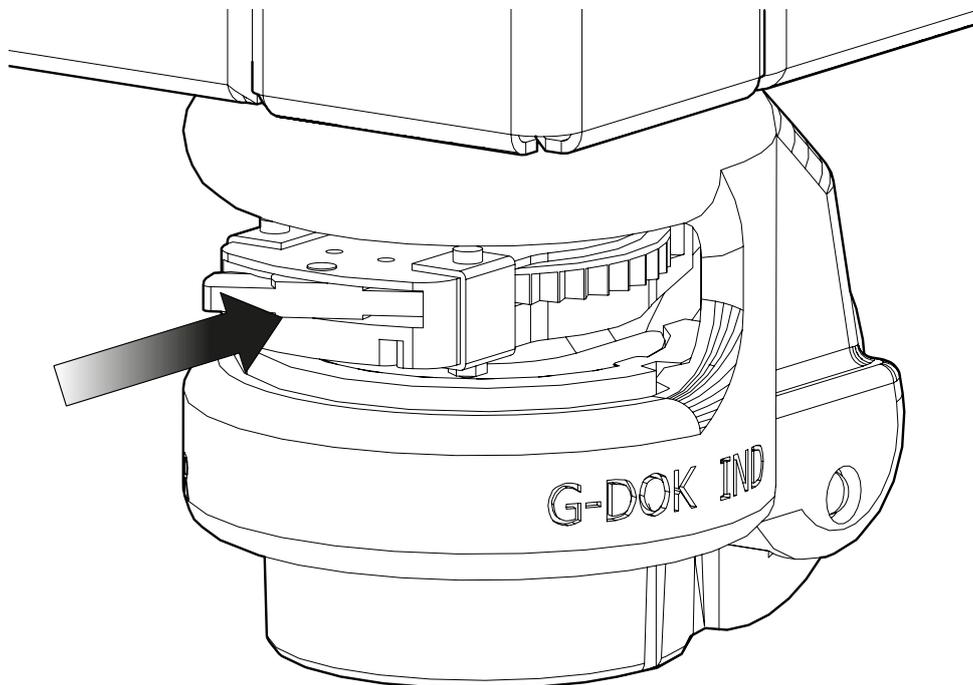
3.



Then, ratchet the mechanism to the right in order to lower the **levelling foot** until it reaches the floor.

Note: There is a switch on the end of the tab. Pressing this will reverse the direction of the ratchet mechanism, ratcheting to the left will then raise the foot from the floor.

4.

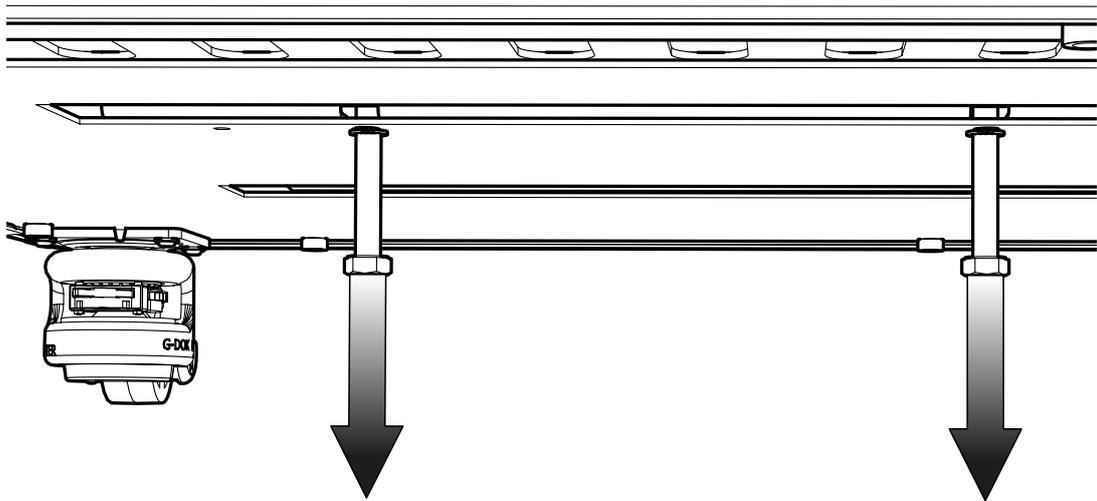


With the foot in position, push the tab back into the ratchet mechanism.

For **MS Bench SCI 1 & SCI 2** proceed to **step 8**.

For **MS Bench G SCI 1 & G SCI 2**, continue following all remaining steps.

5.

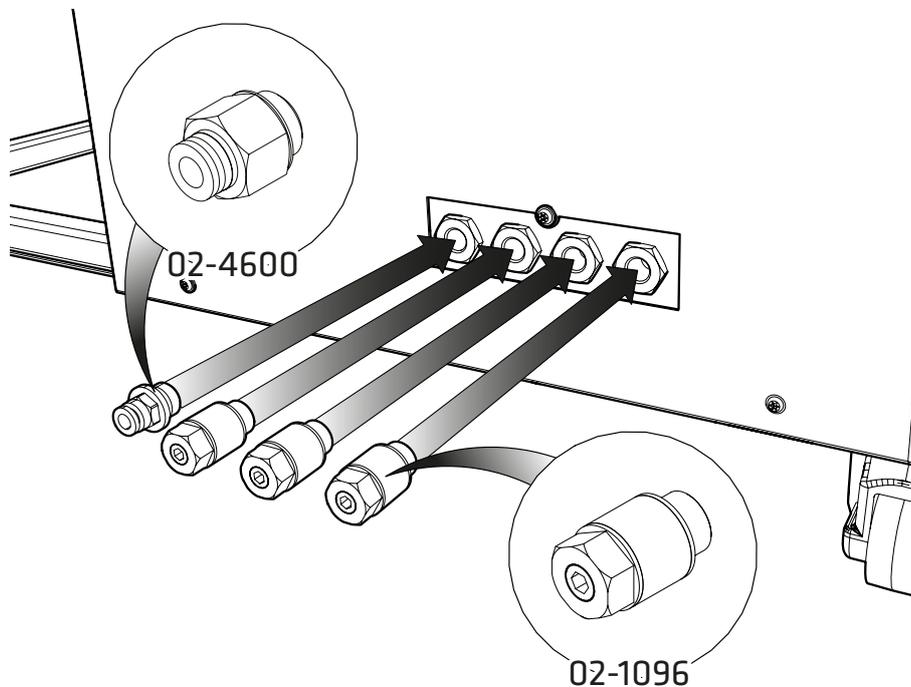


There are **Transit Bolts** located on the underside of the generator. The **G SCI 1** has **2 bolts** and the **G SCI 2** has **3 bolts**.

These MUST be unscrewed and removed before operating the generator.

Please retain the bolts for future transportation.

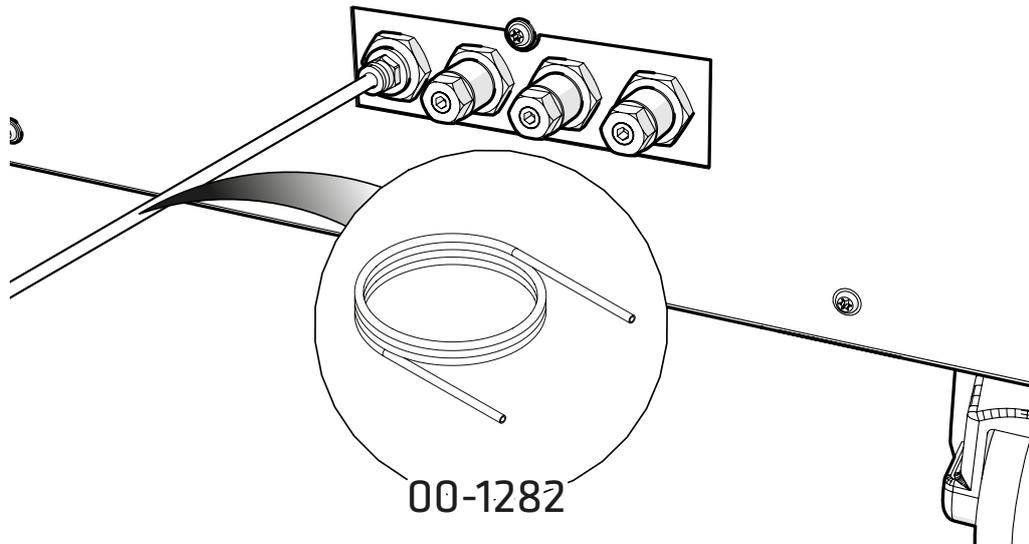
6.



Select the **1/4"- 6mm Push Fit Fitting 02-4600** and attach to the Drain port at the rear of the generator.

Attach the three **Flow Control Silencer 02-1096** fittings to the **Curtain, Source & Exhaust** Ports.

7.

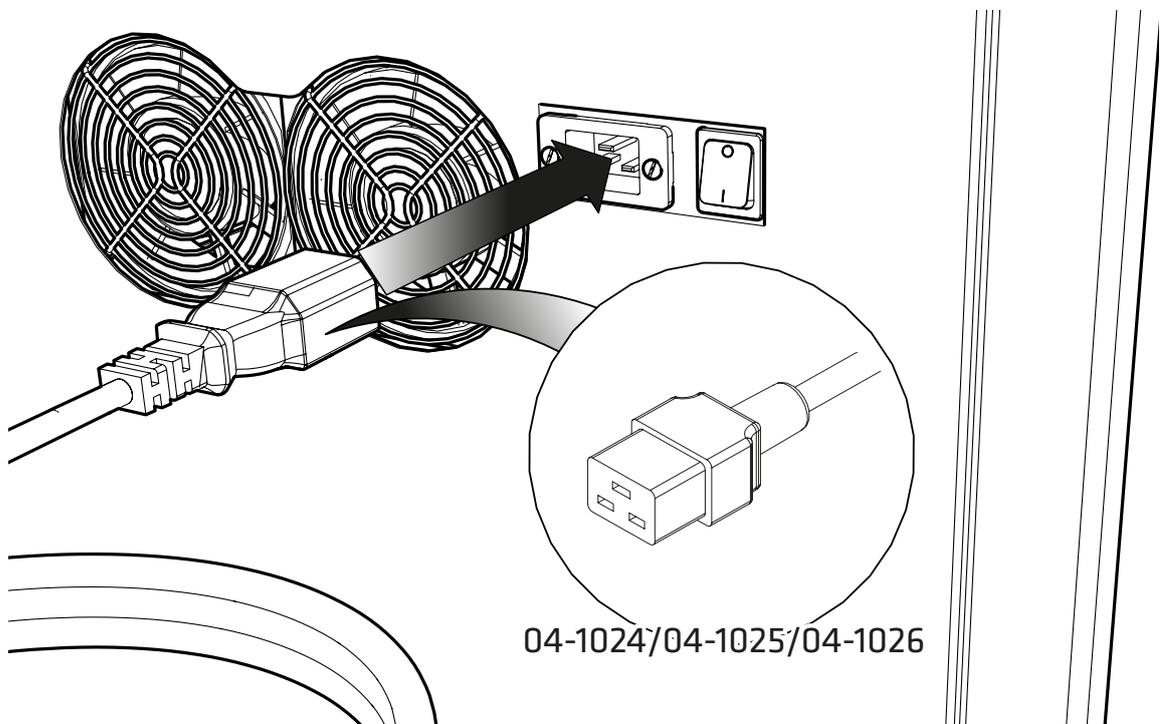


Connect the **6mm PE Tubing 00-1282** to the **1/4"- 6mm Push Fit Fitting 02-4600**.

Fit the other end of the tubing to a suitable drain connection or container.

WARNING: The container used MUST be a plastic material and MUST NOT be glass for safety reasons. The container MUST NOT have an airtight seal as water and air will be expelled periodically under slight pressure.

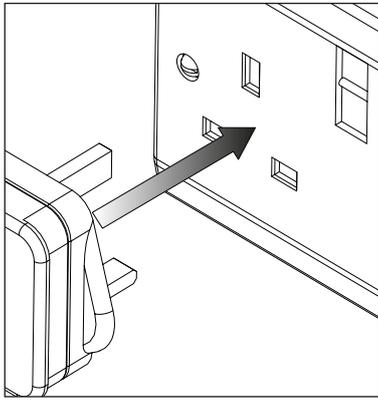
8.



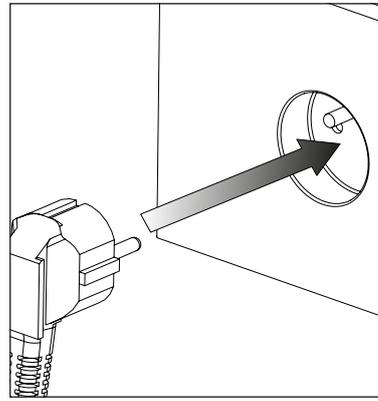
Select the appropriate **IEC 60320/C19** mains cable from the fittings kit and plug the cable into the mains input at the rear of the generator.

9.

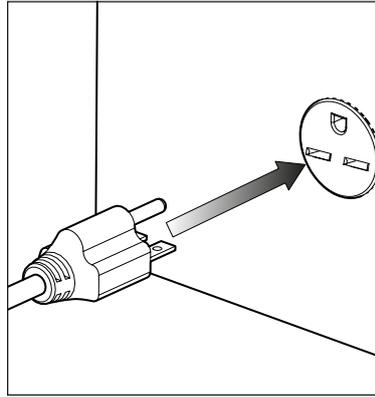
UK



EU



US
230V



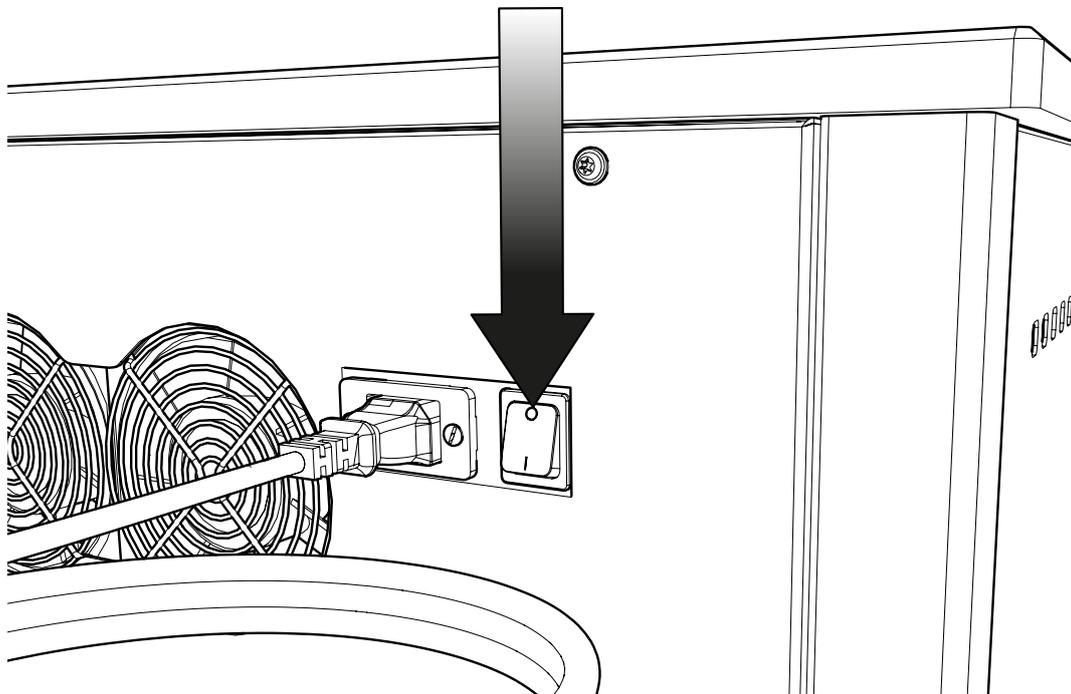
230VAC 50/60Hz



Plug the mains cable into the corresponding 220 - 240v $\pm 10\%$ (MS Bench G SCI 1 & G SCI 2) & 100 - 240v $\pm 10\%$ (MS Bench SCI 1 & SCI 2) single phase power supply.

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

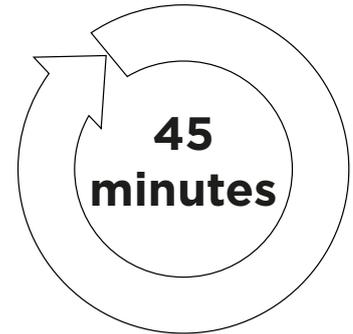
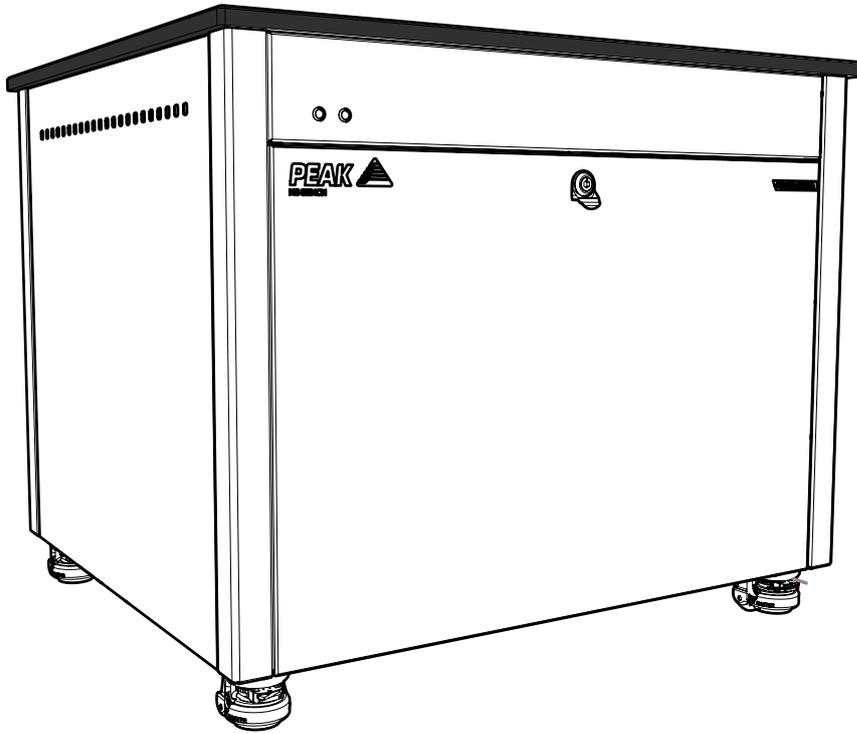
10.



Switch the generator power **ON** using the switch on the rear panel.

For **MS Bench SCI 1 & SCI 2** proceed to **step 18**.

11.

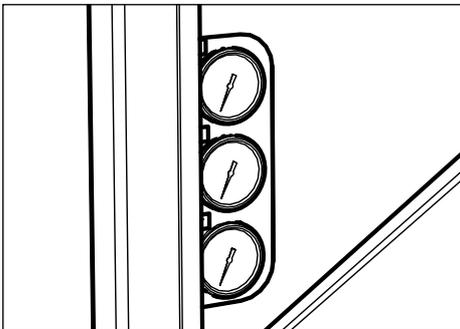


Leave the generator **switched on** for a period of **45 minutes** to purge the system.

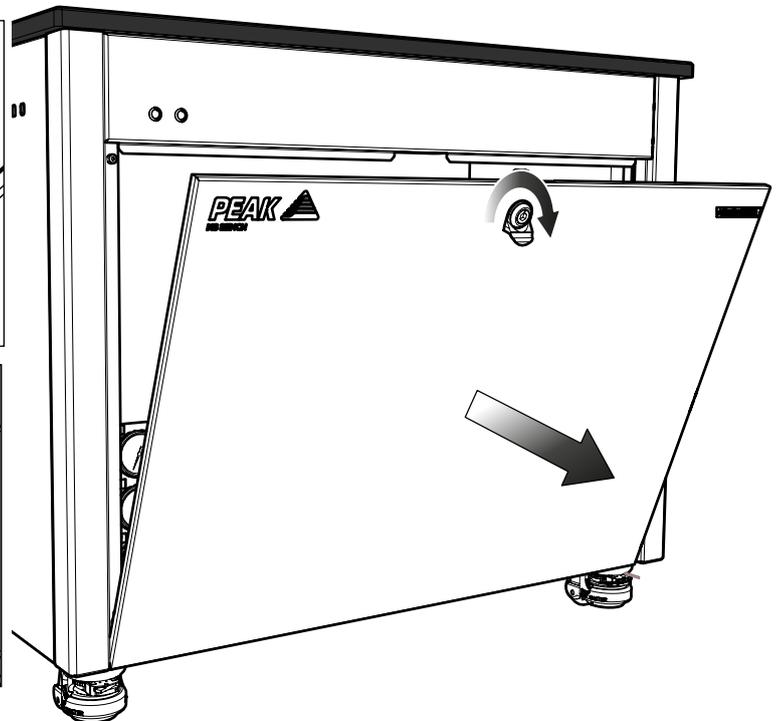
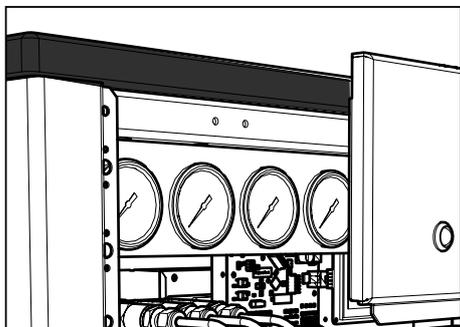
Note: Gauges are for indication purposes only.

12.

G SCI 1

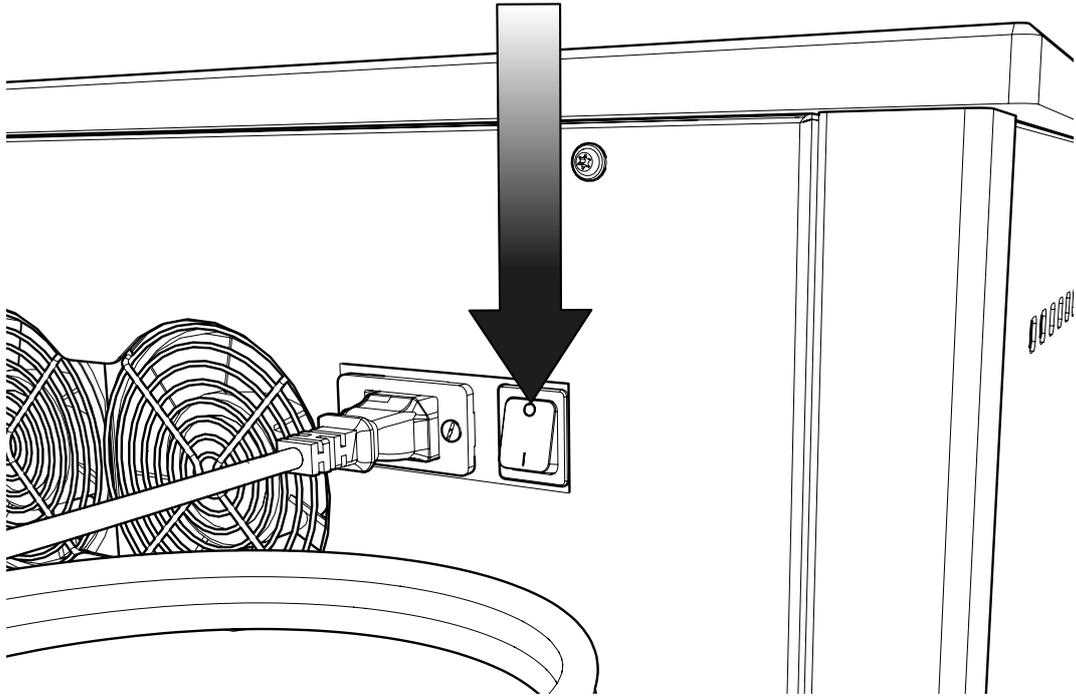


G SCI 2



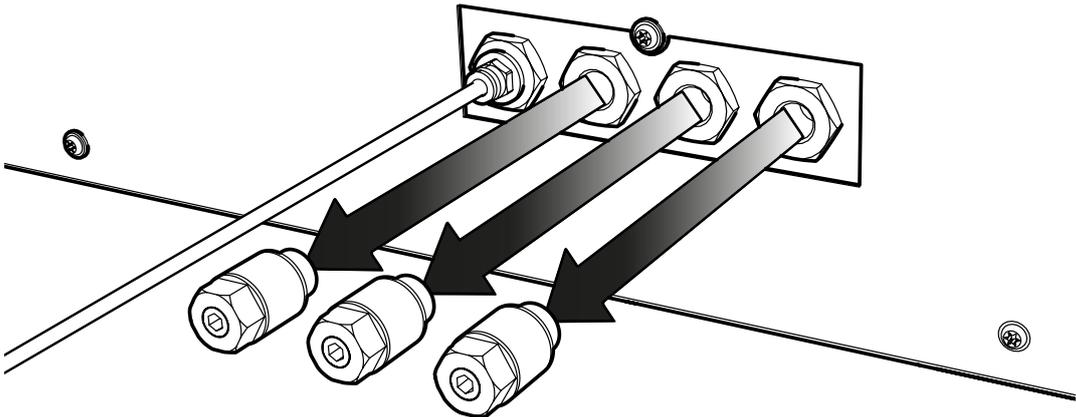
Remove the front panel and check gauges have risen to the factory set pressures stated in the **User Manual**. The gauges are located in the **bottom left hand corner of the G SCI 1**. For **G SCI 2** models, the gauges are located behind the fascia panel which can be removed by pulling towards you.

13.



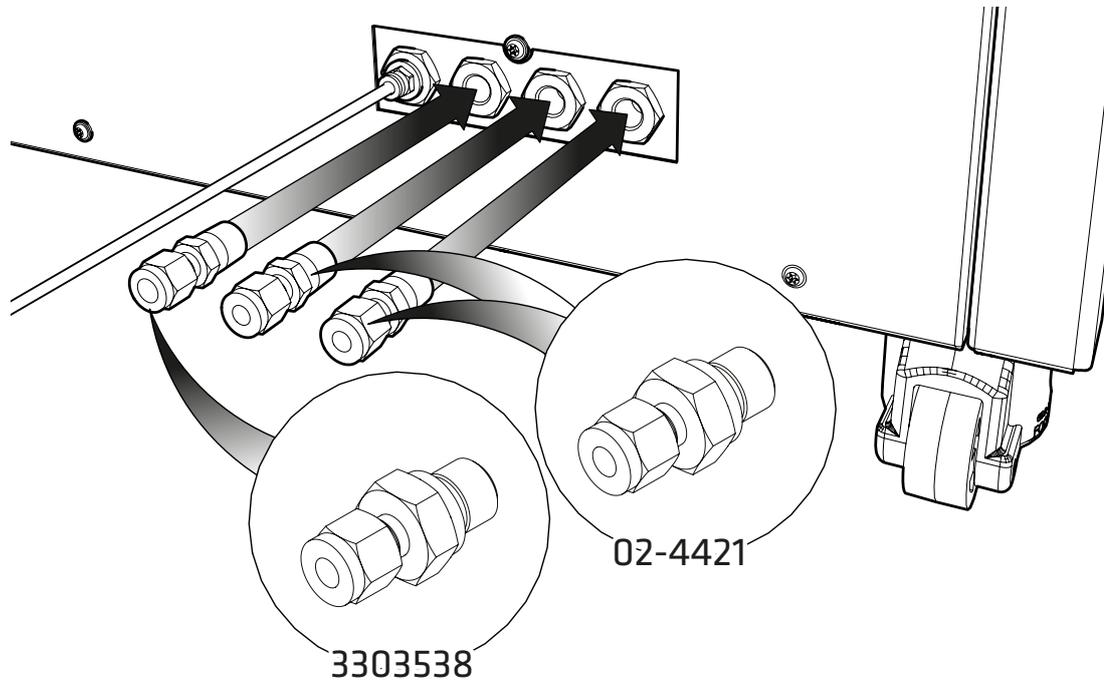
Switch the generator power **OFF** using the switch on the front panel.

14.



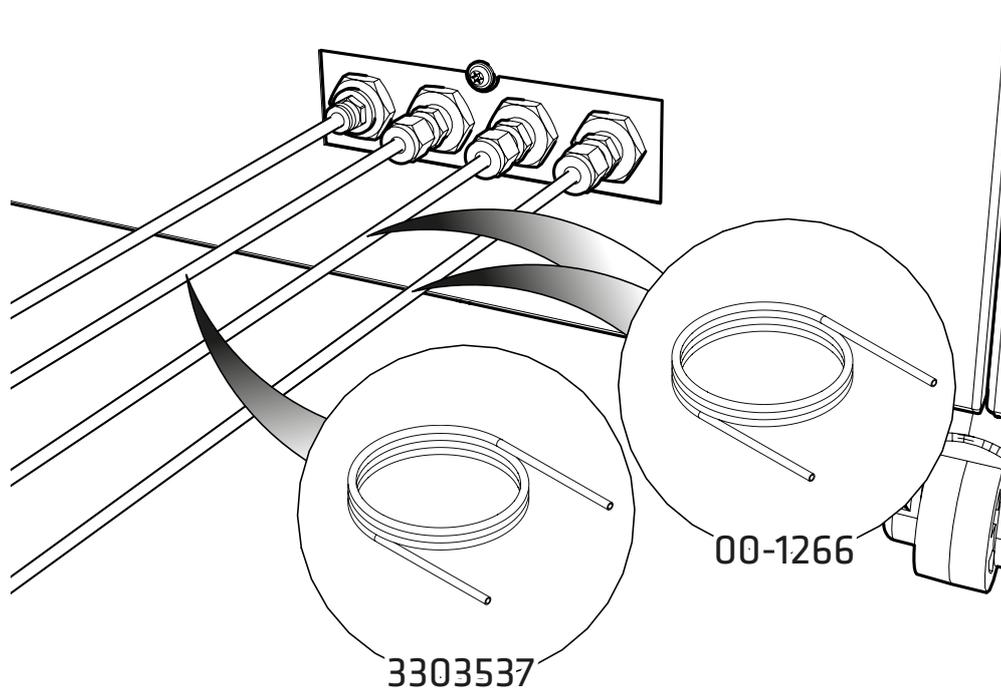
The purge is now completed and the **silencer fittings can be removed** from the Curtain, Source & Exhaust ports.

15.



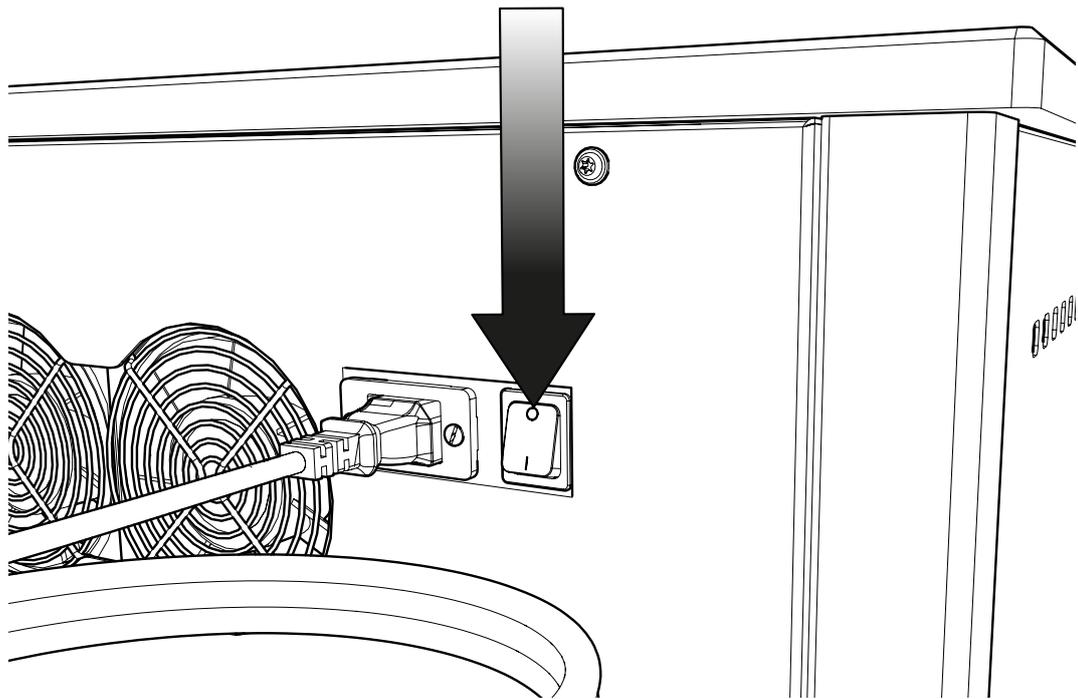
Select the **5/16" Compression Fitting 3303538** & **1/4" Compression Fittings 02-4421** and connect to the **CURTAIN** and **SOURCE & EXHAUST** ports respectively.

16.



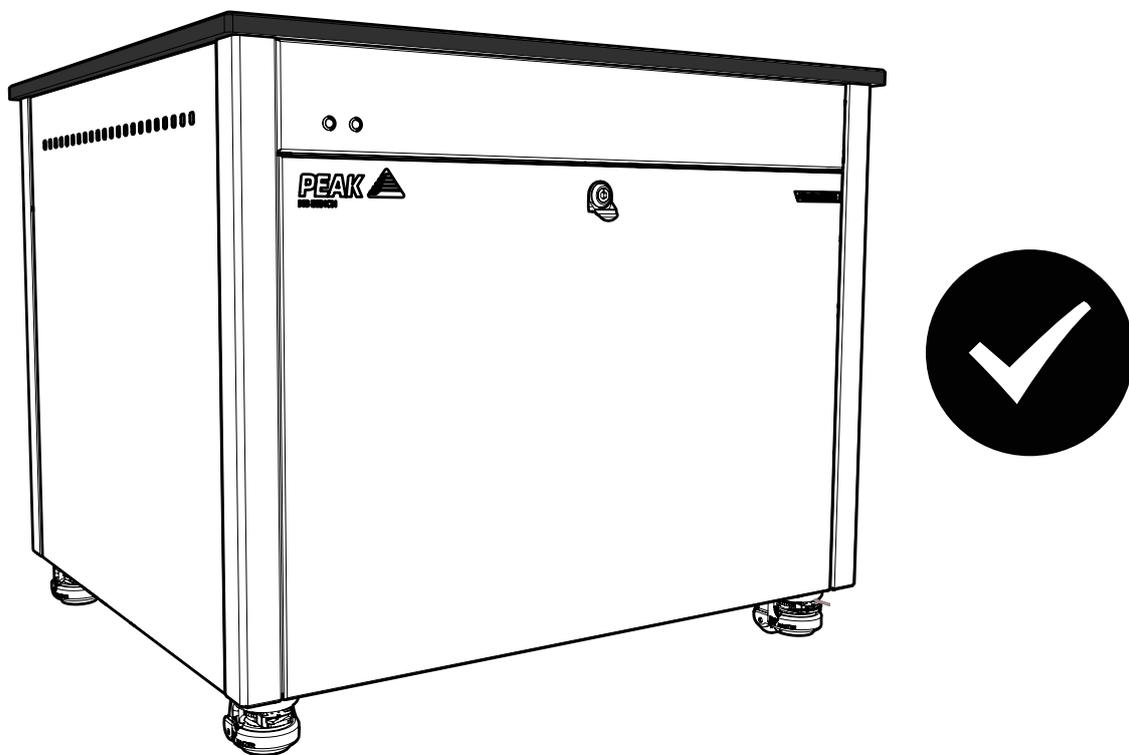
Attach the **5/16" Teflon Tubing 3303537** to the fitting attached to the **CURTAIN** port, then attach the **1/4" Teflon tubing 00-1266** to the fittings attached to the **SOURCE & EXHAUST**. Connect the other end of the tubing to the corresponding **gas inlets of your instrument**.

17.



Switch the generator power **ON** using the switch on the rear panel.

18.



CONGRATULATIONS

Your **Peak Scientific** MS Bench is now fully installed and operational.

General Notes

1. Electrical requirements are 220 - 240v $\pm 10\%$ (MS Bench G SCI 1 & G SCI 2) & 100 - 240v $\pm 10\%$ (MS Bench SCI 1 & SCI 2). Running at voltages outwith this is not recommended. Extended periods at extremes can have a detrimental effect on the operation and life of the Generator.
2. The 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 $\frac{1}{4}$ " (3/16" internal diameter) tubing is 10m. 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.

Go Online or Complete and Return

We know that registering any of your recently purchased products is not the first thing on your mind- but it is very important to both of us. Not all warranties are alike and Peak Scientific stand out against other gas suppliers as we offer a comprehensive, quick response, on-site warranty. This means that in the very unlikely case that your gas generator develops a fault we have rapid support teams on-hand around the world who are able to come to your lab and get you back up and running in no time.

Register for your **comprehensive 12 month on-site warranty** with ease online at www.peakscientific.com/register.

Alternatively, you can send the completed form to Peak Scientific by post or email at warranty@peakscientific.com.

Go Online or Complete and Return

You can register for your **FREE 12 month Warranty** with ease online at www.peakscientific.com/protected.

Alternatively, you can send the completed form to Peak Scientific by post or email at warranty@peakscientific.com.

Product Warranty Registration			
Contact name			
Email address			
Company			
Address			
City/town			
Postcode			
Country			
Telephone			
Generator serial #			
Model type			
Installation date			
Do you still use an alternative gas solution i.e. cylinders or bulk liquid?	Yes	No	
What gas requirements do you have in your lab?	Hydrogen	Nitrogen	Zero Air

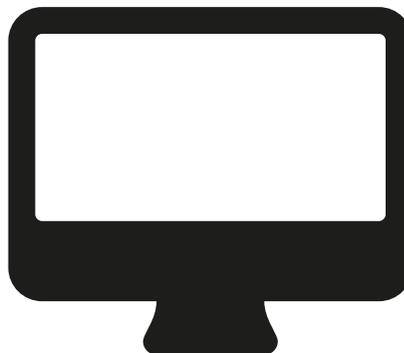
Extend your cover with

Peak Scientific offer comprehensive gas generator after sales support packages. Peak [Protected] aftercare support can guarantee an on-site response within 72 hours*, genuine parts from our ISO9001 approved factory and a 95% first-time fix rate. See our enclosed Peak [Protected] leaflet for further information.

Important!

You have 1 month to register your Peak Scientific product from the date of installation. Once registered the warranty will be honoured for a period of 12 months. If you wish to defer the installation of your generator, you must notify Peak Scientific immediately by emailing warranty@peakscientific.com. For generators that remain unregistered after 1 month from the shipment date, the warranty will be considered active from the date of factory dispatch.

* Complete Plan only



Important!

You have **1 month to register** your Peak Scientific product from the date of installation. Once registered the warranty will be honoured for a period of 12 months. If you wish to defer the installation of your generator, you must notify Peak Scientific immediately by emailing **warranty@peakscientific.com**. For generators that remain unregistered after 1 month from the shipment date, the warranty will be considered active from the date of factory dispatch.

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

[**PEAK Protected**][™]

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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For further information on any of our generator products please contact marketing@peakscientific.com