

i-Flow 6000 Series

User Manual



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Change History

Rev	Comment	Name	Date

How to use this Manual

This manual is intended for end users and has been written as a reference document where you can skip to the relevant information.

Users can refer to the contents page to find the relevant information.

Please review each of the following sections carefully.

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

Introduction

The Peak Industrial i-Flow 6000 Generator is designed to cater for a wide variety of industrial and scientific applications. Your generator will have been carefully selected to meet your specific pressure, flow, and purity requirements, if you have any questions regarding the sizing of your system please do not hesitate to contact Peak Industrial or the Peak Partner from which you purchased your Generator.

Peak Industrial is a Trading Name of Peak Scientific Instruments Ltd. All Peak Industrial products are manufactured by Peak Scientific Instruments Ltd.

Technical Description

Basic Concept

The i-Flow is a modular range of Carbon Molecular Sieve (CMS) nitrogen gas generators, that operate based on Pressure Swing Adsorption (PSA) technology. Essentially this requires two separate columns or “beds” of granular carbon pellets.

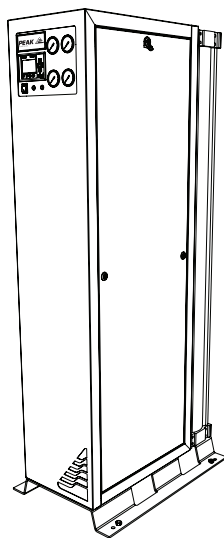
The unit requires a compressed air supply to operate, ultimately works on very similar principles to many standard air filtration / drying products. The inlet compressed air is passed into the first “bed”, as the air passes across the carbon bed the oxygen is adsorbed, allowing the nitrogen to carry on through the bed for collection and further use. After a certain time the online carbon bed will become saturated with oxygen so the control system will operate various valves to bring the second carbon bed online. Whilst the second bed comes online, the first bed is vented to atmosphere to release the adsorbed oxygen and regenerate the bed in preparation for the next cycle. This will continue to alternate and repeat until the user stops consuming nitrogen.

Should the demand for nitrogen be less than the rated output flow, or indeed should the demand stop, the generator will automatically go into ECO Mode and the front panel LED will illuminate. In ECO mode the changeover of the columns is suspended which will stop the consumption of inlet compressed air. The control system will automatically detect when the demand resumes and the generator will start to produce nitrogen again.

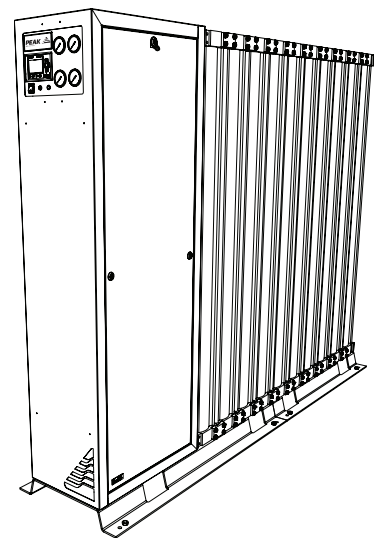
General Construction

The range consists of 10 different product sizes, demonstrated below:

Base unit with minimum single bank of dual CMS columns.

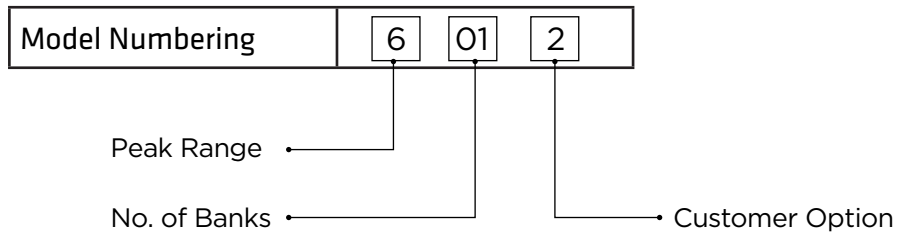


Base unit with maximum 10 banks of dual CMS columns.



The front end cabinet, control system and valves are consistent across the range. To increase the outlet capacity, as you go up the range of generators, additional banks of CMS columns will be added. (Note: for 6 to 10 banks additional vent valves and silencers are required and are fitted to the rear of the CMS columns)

i-Flow 6000 Model Number Breakdown



01	1 Bank
02	2 Banks
03	3 Banks
04	4 Banks
05	5 Banks
06	6 Banks
07	7 Banks
08	8 Banks
09	9 Banks
10	10 Banks

0	None - Basic Unit
1	i-Flow - % Oxygen Analyser
2	i-Flow - PPM Oxygen Analyser
3	Inlet/Outlet Filter - No Oxygen Analyser
4	Inlet/Outlet Filter - % Oxygen Analyser
5	Inlet/Outlet Filter - PPM Oxygen Analyser
6	i-Flow Lab - % Oxygen Analyser
7	i-Flow Lab - PPM Oxygen Analyser
8	Currently unassigned
9	Currently unassigned

Warranties and Liabilities




1. The Company warrants that it has title to the Goods.
2. Subject to the provisions of this clause the Company warrants that the Goods shall comply in all material respects with any specification referred to in the Order Confirmation (as the same may be amended) and shall, subject thereto, be free from defects in material and workmanship for the lesser of a period of twelve months from the date of delivery or thirteen months from the date of dispatch from the factory.
3. Save as provided in this clause and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977) all warranties, conditions or other terms implied by statute or common law are hereby expressly excluded save to the extent they may not be lawfully excluded. When the Goods are sold to a consumer within the meaning of the Unfair Contract Terms Act 1977 their statutory rights are not affected by the provisions of this clause.
4. In the event of the Customer making a claim in respect of any defect in terms of clause 2 hereof the Customer must.
 1. Reasonably satisfy the Company that the Goods have been properly installed, commissioned, stored, serviced and used and without prejudice to the generality of the foregoing that any defect is not the direct or indirect result of lack of repair and/or servicing, incorrect repair and/or servicing, use of wrong materials and/or incorrect spare parts
 2. Allow the company to inspect the Goods and/or any installation and any relevant packaging as and when reasonably required by the Company.
5. Subject to the Company being notified of any defect as is referred to in clause 2 hereof within a reasonable time of it becoming apparent and subject always to the terms of clause 4 hereof, the Company shall, in its option, replace or repair the defective Goods or refund a proportionate part of the Price. The Company shall have no further liability to the Customer (save as mentioned in clause 6 hereof).
6. The Company shall be liable to indemnify the Customer in respect of any claim for death or personal injury to any person in so far as such is attributable to the negligence or breach of duty of the Company or any failure by the Company to comply with the provisions of clause 2 hereof.
7. Save as provided in clause 2 hereof the Company shall not be liable in respect of any claim by the customer for costs, damages, loss or expenses (whether direct, indirect, consequential or otherwise) or indemnity in any respect howsoever arising including, but not by way of limitation, liability arising in negligence (other than pursuant to clause 6 above) that may be suffered by the Customer or any third party.

Safety Notices

Peak Scientific Instruments cannot anticipate every possible circumstance which may represent a potential hazard. The warnings detailed within this manual 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 manual 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 i-Flow 6000 Generator. Use of the Generator in a manner not specified by Peak Scientific MAY impair the built in SAFETY features of 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.



Nitrogen is not a poisonous gas, but if its concentration in breathed air becomes too high, there will be a risk of asphyxiation. Ensure that adequate ventilation is provided for the surrounding area, (depending on the operating specification and model selected the generator can produce up to a maximum nitrogen flow of 4,250 L/min)

Declaration of Conformity

We Peak Scientific Instruments Ltd.
 Of Fountain Crescent, Inchinnan, Renfrewshire, PA4 9RE

Declare that:

Equipment: Pressure Swing Adsorption N2 Gas Generator
 Models: i-Flow 6000 Series
 LVD Certificate No: 3379TC2
 EMC Certificate No: 3377TC1
 PED Module B Certificate No: CE 608102
 PED Module D Certificate No: CE 608103

Pressure Assembly Consisting of the following key parts:

Tag No or Line No	Piping Spec or Description	Fluid	Phase	TS deg °C	PS Bar	DN mm	V litres	PS. DN	PED Hazard Cat.			Quality Module
								PS. V	Fluid	Chart	Cat	
1	Front End Control Cabinet inc. associated valves & piping	Air/N ₂	Gas	50	10	25	-	-	2G	2	SEP	A
-	08-0700 CMS Assemblies (1 to 10 Model Dependant)	Air/N ₂	Gas	50	10	-		509.6	2G	2	II	B+D
15	Output Pressure Relief Valve	Air/N ₂	Gas	50	10	20	-	-	2G	2	IV	B+D


To which this declaration relates, is in conformity with the applicable EC directives, harmonized standards, and other normative requirements.

- Low Voltage Directive 2006/95/EC
 EN 60204-1: 2006 Electrical Equipment of Machines.
- Electromagnetic Compatibility Directive 2004/108/EC
 EN 61326-1: 2013 Electrical Equipment for measurement, control and laboratory use.
- Pressure Equipment Directive 97/23/EC
 Design and Construction Standards applied: ASME Section VIII Division 1 and BS EN 12392:2000. Conformity Assessment Procedure: B + D

All evaluation, testing and certification issued by:

York EMC Service Ltd
 Donibristle Industrial Park
 Dunfermline, Fife
 KY11 9HZ

BSI Assurance UK Ltd
 Kitemark Court
 Knowlhill, Milton Keynes
 MK5 8PP, EC Number: 0086

Signed: 

Name: Chris Pugh

Date: 05/03/2014

Position: Engineering & Operations Director



Environmental Declaration

We Peak Scientific Instruments Ltd.
Of Fountain Crescent, Inchinnan, Renfrewshire, PA4 9RE
Declare that:

Equipment: Nitrogen Gas Generator

Models: i-Flow 6000 Series

Is fully compliant with the following Directives

- 2012/19/EU WEEE (Waste of Electrical and Electronic Equipment)
- 2011/65/EU RoHS 2 (Restriction of Hazardous Substance)

Peak Scientific Instruments Ltd fully complies with its obligations towards the European WEEE (Waste of Electrical and Electronic Equipment) Directive 2012/19/EU. These obligations are being met within the B2B compliance group.

Peak Scientific Instruments Ltd has developed all reasonable 'due diligence' controls to ensure that our products comply with the principles and requirements of the European recast RoHS (Restriction of Hazardous Substances) Directive 2011/65/EU. Similar directives in the United States and China, for example, have also been captured within this program.

Where a specific certificate of compliance is required, this can be requested, on a product serial number basis, directly from Peak Scientific Instruments Ltd, by contacting us through our website on www.peakscientific.com

Signed:  Name: Chris Pugh

Date: 16/02/2014 Position: Engineering & Operations Director



Technical Specification

Environment

Minimum Operating Ambient Temperature	+5°C (41°F)
Maximum Operating Ambient Temperature	+50°C (122°F)
Maximum Altitude	2000m
Maximum Relative Humidity	80% non-condensing

When taken out of storage, the Generator should be allowed to acclimatize at room temperature for a minimum of 3 hours before operation.

Compressed Air Supply

Depending on your specific application, the pressure and flow required from the compressed air supply to the generator will vary. For your specific requirements please refer to your quotation documents, or contact Peak Industrial for further information. However all installations must meet the following conditions:

Minimum Air Quality	ISO 8573-1:2010 class 1.2.1
Minimum Inlet Air Pressure	87 psig (6barg)
Maximum Inlet Air Pressure	145 psig (10barg)
Minimum Inlet Air Temperature	+5oC (41°F)
Maximum Inlet Air Temperature	+35oC (95°F)



If you are in any doubt over the quality of your inlet compressed air DO NOT CONNECT to the generator, and contact Peak Industrial or the Peak Partner from which you purchased your Generator. Peak Industrial can offer a full range of compressors and air preparation equipment if required, which can be backed up by our global service support network.

It is the User / Installer's responsibility to ensure the generator is connected to a suitably rated air supply, the air supply must also provide suitable protection to prevent over pressurization of the Nitrogen Gas Generator.

Electrical Requirements

Voltage	100 - 240 VAC ±10%
Frequency	50/60 Hz
Current	2.0 - 1.0 A
Input connection	C20 Plug
Power cord (Supplied)	C19 socket to local connection
Pollution degree	2
Installation category	Class I Protection
Transient Overvoltage	Category II

General

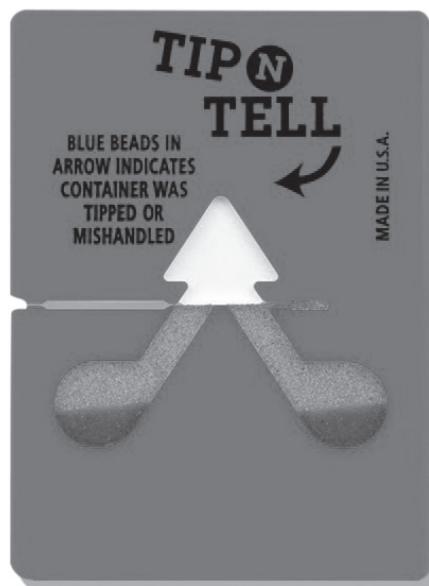
Model	601*	602*	603*	604*	605*
Width mm(in)	500 (19.68)				
Height mm(in)	1738 (68.42)				
Depth mm(in)	760(29.92)	920(36.22)	1080(42.52)	1240(48.82)	1400(55.12)
Weight kg(lbs)	197(433)	282(620)	367(807)	452(994)	537(1181)
Shipping weight kg(lbs)	277(609)	364(801)	451(992)	538(1184)	625(1375)
Noise level	59 dBA @ 1m				

Model	606*	607*	608*	609*	610*
Width mm(in)	500 (19.68)				
Height mm(in)	1738 (68.42)				
Depth mm(in)	1560(61.42)	1720(67.72)	1880(74.02)	2040(80.31)	2200(86.61)
Weight kg(lbs)	622(1368)	707(1555)	792(1742)	877(1929)	962(2116)
Shipping weight kg(lbs)	712(1566)	799(1758)	886(1949)	973(2141)	1060(2332)
Noise level	59 dBA @ 1m				

Unpacking

Although Peak Industrial takes every precaution with safe transit and packaging, it is advisable to fully inspect the unit for any sign of transit damage.

Check 'SHOCKWATCH' and 'TIP-N-TELL' labels for signs of rough handling prior to unpacking.



Any damage should be reported immediately to the carrier and Peak Industrial or the Peak Partner from where the unit was purchased.

Installation



It is the user/installer's responsibility to ensure that the generator is located and protected against any external influences such as vibration, shock, wind, snow loading, earthquake or fire. The installation should conform to all local regulations and should be leak tight and completed by technically competent personnel.

Final Location of the generator should be carefully considered, the largest model in the range will weigh 1060 kg / 2332 lbs. Equipment is only to be installed on floor with a weight rating of min 1000kg/m² or 200 lbs per Sq.ft.

Once in position the foot plate of the generator should be secured to the floor with fixings suitable to the materials of construction of the floor. 13mm diameter holes are provided adjacent to the levelling bolts to allow the unit to be fixed to the floor. Depending on the generator model you will have 4 or 8 fixing positions. Typically 10mm or 3/8" floor fixings approx. 75mm or 3" in length will be suitable on most concrete floors.

Generator Environment



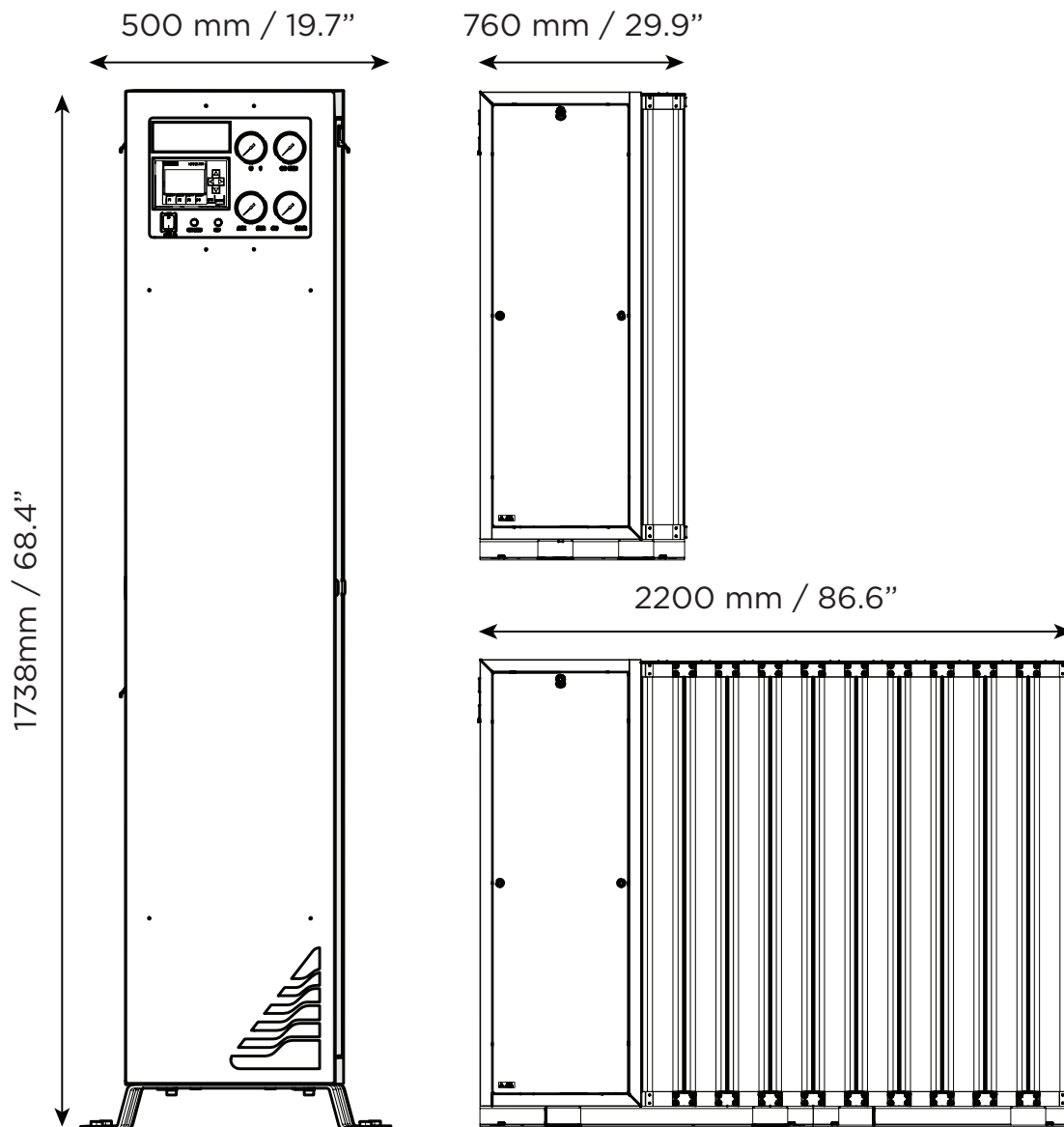
The Generator is designed for indoor use only. It should be installed adjacent to the application it is supplying. If this is not convenient then the unit can be sited elsewhere, however, consideration should be made of the lengths of pipe runs as pressure drops can result from extended runs of pipe.



Consideration should be given to the location of the generator to ensure it is protected from extreme fluctuations in ambient temperature. Ensure that adequate ventilation is provided for the surrounding area, (depending on the operating specification and model selected the generator can produce up to a maximum flow of 4,250 L/min). Installation in a confined space or poorly ventilated space is not recommended, however if you choose to do so ambient oxygen monitoring equipment is recommended.

Generator

General Dimensions



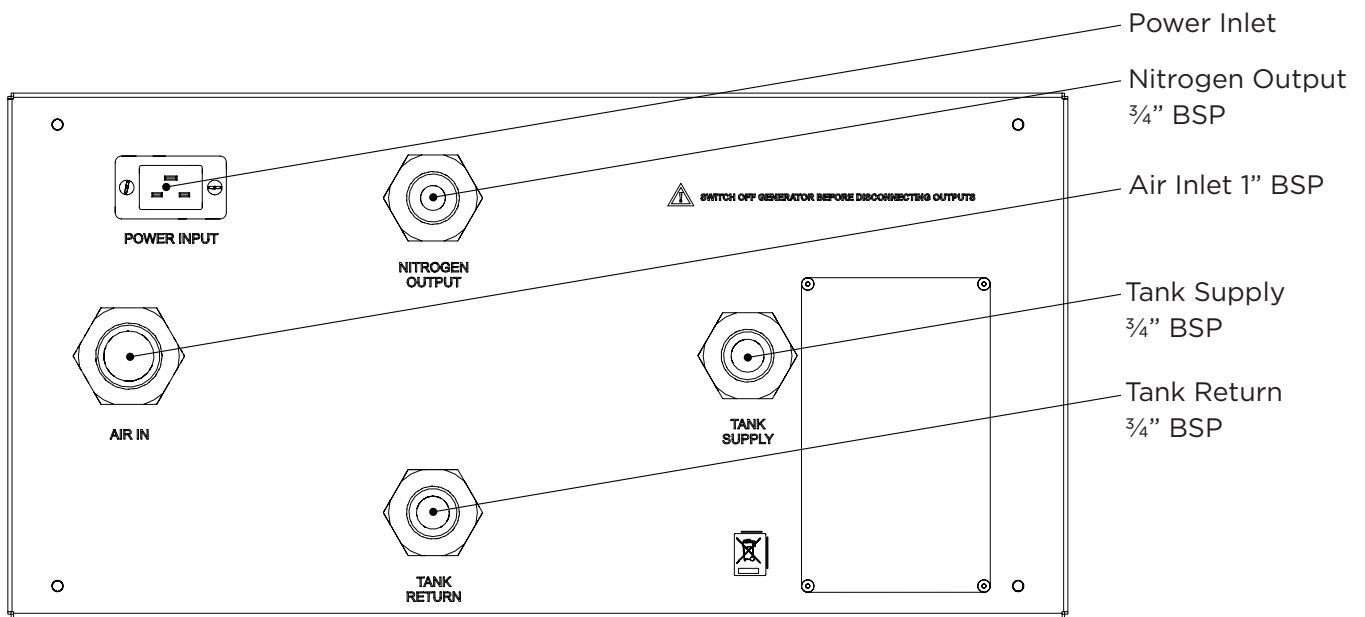
Note: Each additional bank assembly = 160mm / 6.3"



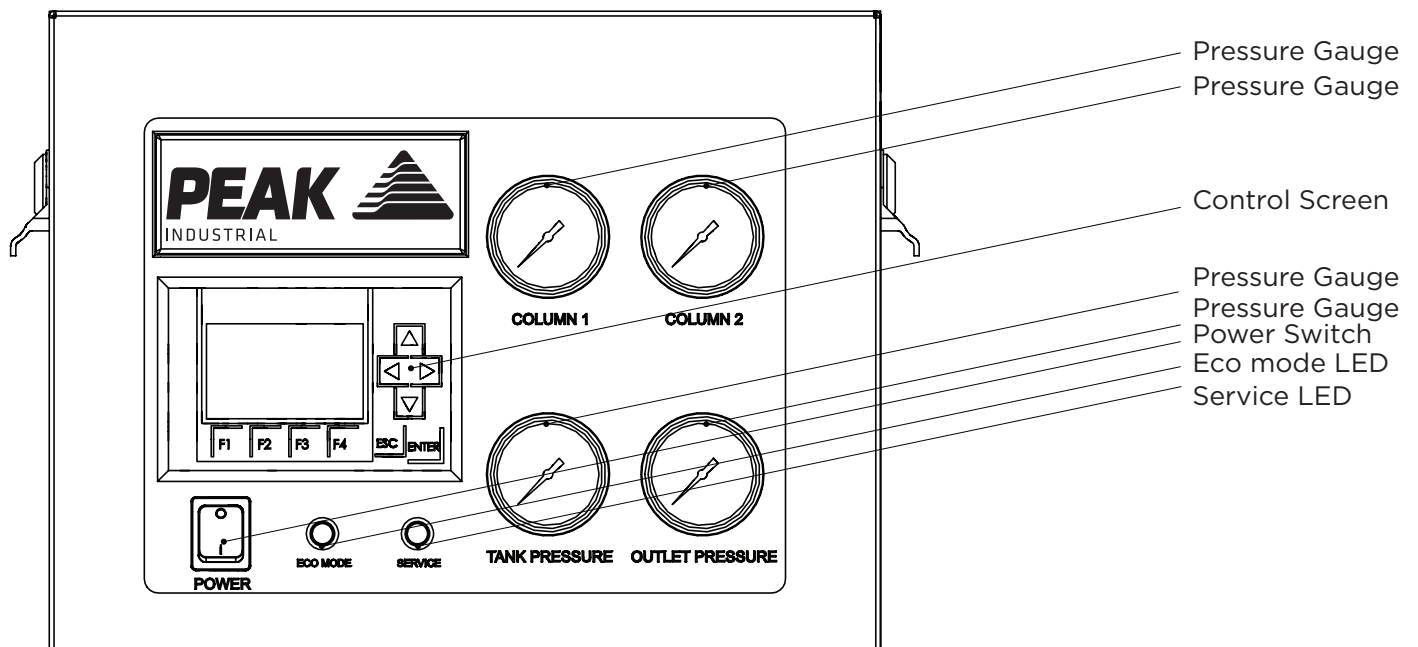
The Generator must always be placed on a level surface. Failure to do so will affect the stability of the Generator.

Inlet / Outlet Connections

All of the Generator output ports are located on the output panel on the Left hand side of the Generator. See below for recommended piping layout.



Unit Controls



Compressed Air Quality

The i-Flow 6000 Generator is an air purification system, it does not generate any gas pressure. Gas pressure is created and supplied to the generator by the user's compressed air system. It is the user / installer's responsibility to ensure that all components connected to the gas generator comply with local health and safety regulations and that the compressed air system is suitably protected from over pressure, including appropriately sized safety relief devices for both the compressed air and nitrogen process tanks.



No pressure greater than 10 barg should be applied to the inlet of the iFlow product.

The i-Flow 6000 Generator will typically be the last stage in a complete air compression and filtration system, the inlet air quality must meet a minimum of ISO 8573-1:2010 class 1.2.1. Class 1.2.1. is further defined as:

Class 1 - Particulate

Per cubic meter of air the particulate count should not exceed 20,000 particles in the 0.1 to 0.5 micron range, 400 particles in the 0.5 to 1 micron range and 10 particles in the 1 to 5 micron range.

Class 2 - Water

A minimum pressure dewpoint (PDP) of -40°degC (-40°degF) is required, no liquid water is permitted.

Class 1 - Oil

Per cubic meter of air the maximum permissible oil content is 0.01mg, total level for liquid, aerosol and vapor.

A typical installation will consist of the following items:

- Oil Lubricated Screw - Air Compressor
- Compressed Air Storage Tank (with automatic condensate drain)
- Water Separator
- Pre-filter
- Active Carbon Filter
- Line Air Regulator
- Desiccant Air Dryer
- Dust Filter
- Active Carbon Tower
- Dust Filter
- i-Flow 6000 Series Nitrogen Generator
- Nitrogen Process Gas Tank

Sizing of all components in this line will have a critical effect on the performance of the Nitrogen Gas Generator, in particular the Nitrogen process Gas Tank. Please refer to your quotation documents for details of the items we have recommended to meet your specific requirements. Should you require any further assistance or support please do not hesitate to contact Peak Industrial or the Peak Partner from which you purchased your Generator. A full installation and commissioning service can be provided through the Peak Global Service network.

Electrical Connection

Connect the Generator to a single-phase AC voltage supply using the power cord provided. The generator is fitted with an internal transformer that can accept any supply from 100 to 240 volts AC. If the appropriate power cord is not supplied; a new plug, rated to at least 5 amps, can be fitted by a qualified electrician.

DO NOT USE inadequately rated detachable Mains cords.



This unit is classified as SAFETY CLASS 1. THIS UNIT MUST BE EARTHED. Before connecting the unit to the mains supply, please check the information on the serial plate. The mains supply must be of the stated AC voltage and frequency.

EARTH/GROUND (E):- Green & Yellow or Green

LIVE (L):- Brown or Black

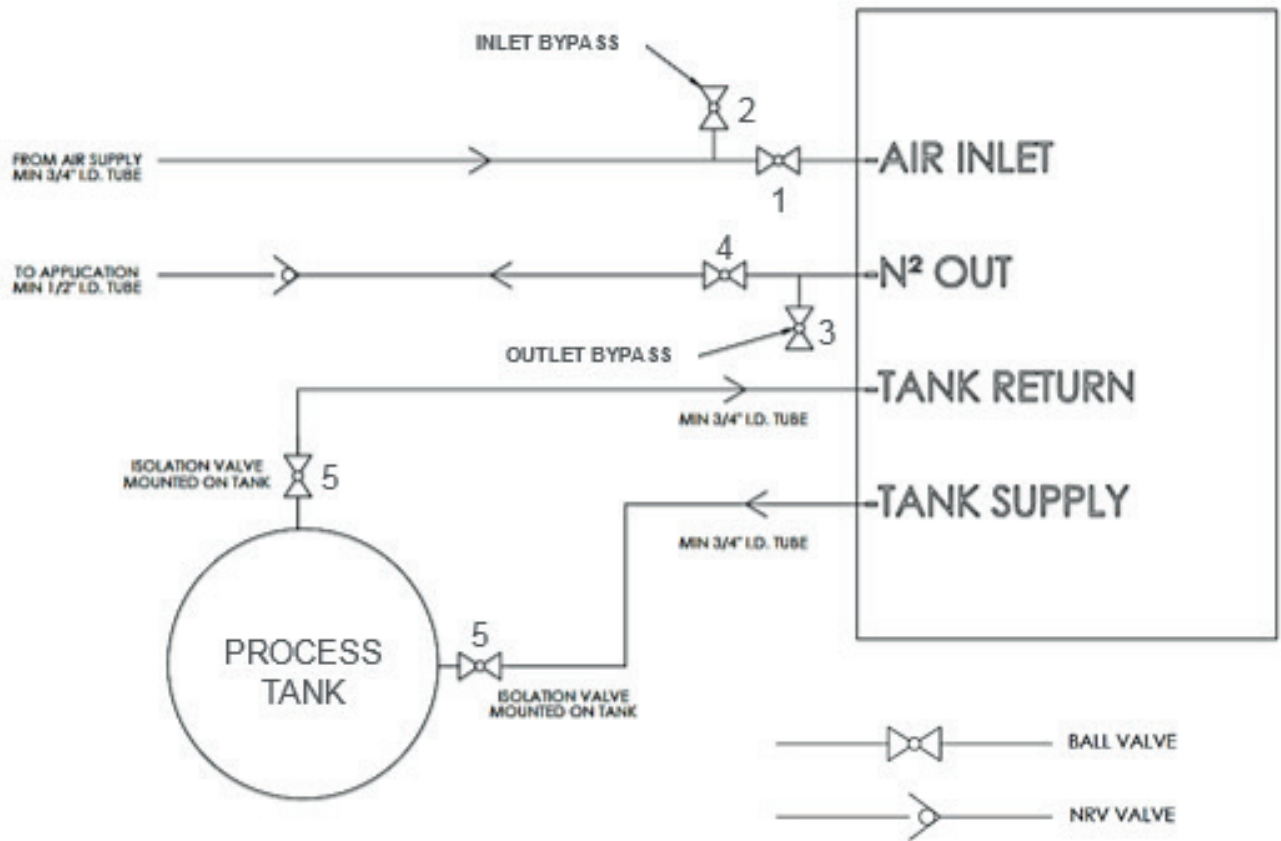
Neutral (N):- Blue or White



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

Recommended Piping Layout

To allow proper operation and commissioning of the generator it is important to include bypass valves at the generator inlet / nitrogen outlet of the system. It is also recommended that a non-return valve be fitted on the exit of the system to prevent downstream pressure from returning to the system and damaging the generator. Please see below for recommended piping layout.



Commissioning & Safe Start-Up Sequence

With reference to the diagram in the **Recommended Piping Layout** section.

Once the generator has been installed, DO NOT Switch on the power immediately. It is recommended that the inlet compressed air supply valve (1) remains closed, and that the inlet bypass valve (2) is opened slightly to sufficiently allow the inlet compressed air to vent and purge any remaining moisture from the newly installed pipework (if this is the first operation of the compressed air supply, it is recommended that the air be vented for a minimum of 2hrs to allow the air filtration and dryer to stabilise).

Once the inlet pipework has been purged, the inlet bypass valve (2) can then be closed and the pressure gradually introduced to the generator by slowly opening the compressed air inlet (1) valve. The outlet bypass valve (3) should now be open to atmosphere, and the delivery valve (4) to the customer application should be closed. Ensure that both Process Tank Isolation valves (5) are both fully open.

The power can then be turned on. On first start up air will be introduced to Column 1 and the front panel gauge will slowly start to rise. The front panel display will show a message "COLUMN 1" and a timer counting up. After approx. 30 to 80 seconds (timing will vary depending on your specific performance requirements) the front panel display will briefly show an "EQUALIZING" message and the pressure on Column 1 and 2 gauges should level out. Column 1 will then vent rapidly to zero and column 2 will continue to rise slowly. During this process the TANK pressure gauge should continue to slowly rise. Allow the Nitrogen Process Gas Tank to reach pressure, then continue to vent the outlet gas through the bypass valve (3) for a minimum of 4 hours (ideally this should be done overnight to fully purge all the remaining oxygen/moisture in the system).

The Generator has been pre-set in the factory to give the specified output flow-rate and pressure. Failure to achieve the factory specification after maintenance may be as a result of an incorrect service procedure, please review any maintenance carried out. If unable to achieve specification contact Peak Industrial for further assistance. After this time the outlet bypass valve (3) can be closed, and the delivery valve (4) to the customer application should be slowly opened to pressurize the line.

The design of the generator is that it will deliver up to your specific output pressure and flow of nitrogen. Should the demand for Nitrogen be less than the rated output flow, or indeed should the demand stop the generator will automatically go into ECO Mode and the front panel LED will illuminate. In ECO mode the changeover of the columns is suspended which will stop the consumption of inlet compressed air. The control system will automatically detect when the demand resumes and the generator will start to produce nitrogen again.

Normal Operation

The i-Flow 6000 Gas Generator is designed specifically to minimize operator involvement. As long as the system is installed as described in earlier sections and is serviced in accordance with the specified maintenance recommendations (see Service Requirements), then it should simply be a matter of turning the Generator on. Note: the generator will only produce nitrogen gas based on demand, so should typically be left in a powered state, live compressed air supply. If the system is shutdown, or suffers a power failure, it will restart automatically. However, if left without inlet air pressure for a prolonged period and the Nitrogen Process tank is allowed to vent all pressure, then the commissioning process above should be repeated to purge the oxygen from the system before high quality nitrogen gas can be produced again.

The Generator will automatically produce the factory set flow and pressure.



Note: The side panels of the generator should not be removed during operation unless you have received training and are technically competent to manage the potential risks present. Located inside the cabinet are the vent silencers and safety relief valve, which periodically release gas at pressure and could cause injury.



Inspection plugs are located on the rear and top of the generator. These plugs must NOT be removed whilst the system is under pressure. If removed, it is likely that pressure will be released violently and cause injury.

Safe Isolation Process

To shut the system down, close the inlet air supply valve (1), BUT leave the electrical power on to the generator. Close the nitrogen outlet valve (4) to the application, and slowly open the bypass / commissioning valve (3) to allow the nitrogen product gas to vent to atmosphere. NOTE: do not isolate the Process Tank valves (5) as this will trap pressure in the tank. For the product to be completely safe to continue work, ALL pressure must be fully dissipated. Ensure ALL front panel gauges read zero before turning off the power on the front panel and removing the mains cord from the left hand side of the generator before proceeding. Note: Due to the nature of the Carbon Molecular Sieve it could take considerable time for the generator to release all the trapped oxygen. The bypass valve (3) should remain open at all times, allowing the CMS to release oxygen and pressure can build again if closed.

Once service operations have been completed, the generator can be re-connected to the mains supply and the Commissioning process described in earlier sections should be repeated.

Due to the simplicity of the design and the small number of moving parts the i-Flow 6000 Series Nitrogen Generators will have a long and trouble free life. However as with all scientific and technical equipment it should be regularly inspected and serviced as below.

Service Requirements

Service Schedule

Purchase Interval	Component	Part No.	Quantity.	
			601*-605*	606*-610*
12 months	Vent Silencer Element	02-5710	2	4
	Pneumatic Valve Exhaust Silencer	02-1016	5	7
	N2 Supply NRV	02-5620	2	2
24 months	O2 Analyser %*	04-4571	1	1
48 months	O2 Analyser PPM*	04-4572	1	1

*Analyzer service is dependent on selected model.


Peak Protected

With Peak Industrial you invest in not only a product but peace of mind. With a network of certified Peak engineers stationed throughout the globe, Peak's rapid response team are never far away and our commitment is to keep your generator running day in, day out, protecting your productivity.

[Peak Protected] can provide...



Installation
A dedicated Peak engineer will visit your site to install and setup your generator



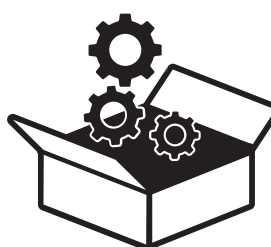
Complete plan
Swift response by a Peak Service Engineer within 72 hours & planned preventative maintenance



Premium Protected
Guaranteed rapid on-site response within 24 hours & planned preventative maintenance



IQ/OQ
Certified assurance for applications requiring documented qualification



Spares
Genuine Peak parts with express delivery, ensuring optimal performance and lifetime



Technical Support Hotline
Around the clock support by phone or online with our global technical helpdesk

To find out more about protecting your investment visit: www.peakscientific.com/protected

Cleaning

Clean the outside of the Generator only using warm soapy water and a clean damp cloth. Ensure the cloth is thoroughly rung out to remove excess fluid prior to use. Do not use decontamination or cleaning agents that could cause a HAZARD as a result of a reaction with parts of the Generator or material contained within it. If there is any doubt about the compatibility of decontamination or cleaning agents please contact your Peak Industrial representative.



Cleaning should only be undertaken with the power switched off and the power cord removed from the rear of the generator.



Under no circumstances should any solvents or abrasive cleaning solutions be used as these can contain fumes that could be harmful to the generator.



Care should be taken with Leak Detections Liquids.

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 Industrial 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 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/protected.

Alternatively, you can send the completed form to Peak Industrial 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			
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 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



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[**PEAK Protected**]TM

Peak Industrial gas generators define the benchmark in reliability, convenience and performance in facilities around the world, and come backed by a 12 month on-site warranty. Beyond this period however you can ensure that your investment continues to be **[Protected]** by our comprehensive generator care cover.

Our world-class aftercare support packages deliver a program of scheduled preventative maintenance whilst giving you the reassurance of instant access to worldwide technical support and priority on-site response in the untimely event of a breakdown.

Peak Industrial

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