

Infinity 1045 Site Preparation Guide



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Customer Responsibilities

To ensure a successful and timely installation of your Peak generator, please refer to this set of requirements.

Correct site preparation is the first key step in ensuring that your generator and systems operate reliably over an extended lifetime.

This document is an information guide and checklist that outlines the requirements for your site.

It is essential your site meets the following specification prior to the installation date.

For details, see specific sections within this document

- The necessary spatial requirements are met.
- The correct environment is provided for the generator.
- Electrical outlet locations and quantities are planned.
- Adequate exhaust ventilation is provided.
- The correct tubing lengths and diameters are used in relation to the distance from the instrument.

Failure to meet the Site requirements of your Peak generator as stated above and detailed in this document could result in the unit underperforming and **possible loss of warranty**.

Please sign below to confirm your compliance with the aforementioned requirements.

Once complete please return to Peak Scientific, or whomever the unit was purchased from.

Return addresses can be found on the back page of this document.

Name: _____ Company: _____

Signed: _____ Date: _____

Model: _____ Cust. Sales Order No.: _____

Change History

Rev.	Comment	Name	Date
1			
2			
3			
4			



Related Manuals

Document number	Manual name	Description
UM-Infinity1045	Infinity 1045 User Manual	Describes the operation of the generator and all service requirements. Supplied with the generator.
IG-Infinity1045	Infinity 1045 Installation Guide	Details the installation process of the generator. Supplied with the generator.

Safety Notices

Symbols

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

	<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>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>

Safety Notice to Users



This site preparation guide must be read thoroughly and understood before installation and operation of your Peak Infinity 1045 Generator. Incorrect preparation or use of the Generator in a manner not specified by Peak Scientific MAY impair the SAFETY provided by the equipment.



When handling, operating or preparing for installation, personnel must employ safe 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.

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Technical Specifications

Environment

	1045
Min/Max Air Operating Temperature	5°C - 30°C / 41°F - 86°F
Maximum Relative Humidity	70%
Min/Max Storage Temperature	-20°C - 60°C / -4°F - 140°F

Inlet Conditions

Min/Max Air Inlet Pressure	8.3-10 bar / 120-145 psi
Minimum Air inlet Flow (l/min)	215

Outlet Gas

Maximum Gas output Pressure	110 psig
Maximum Pressure Drop (Outlet-Inlet)	8 psig
Max Nitrogen gas output flow	32 l/min
Max Air output flow	50 l/min
Start up time for purity	60 minutes
Particles	0.01µm

General

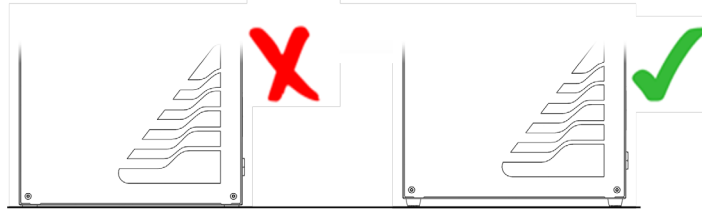
Dimensions (cm) WxDxH	31x25x73
Dimensions (ins) WxDxH	12x10x29
Generator Weight (Kg/lbs)	39 / 86
Shipping Weight (Kg/lbs)	47 / 104

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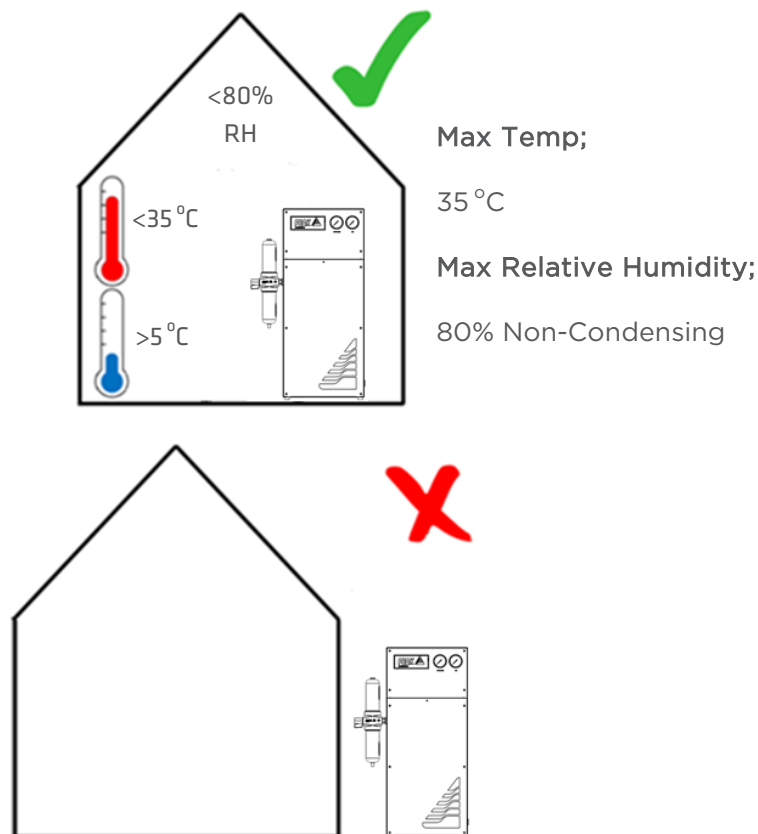
Site preparation

Environmental control

The generator must remain on its feet to allow air intake from the bottom of the generator.



If the generator is stored in an enclosed space the environment must be controlled via an air conditioner or extraction fan.

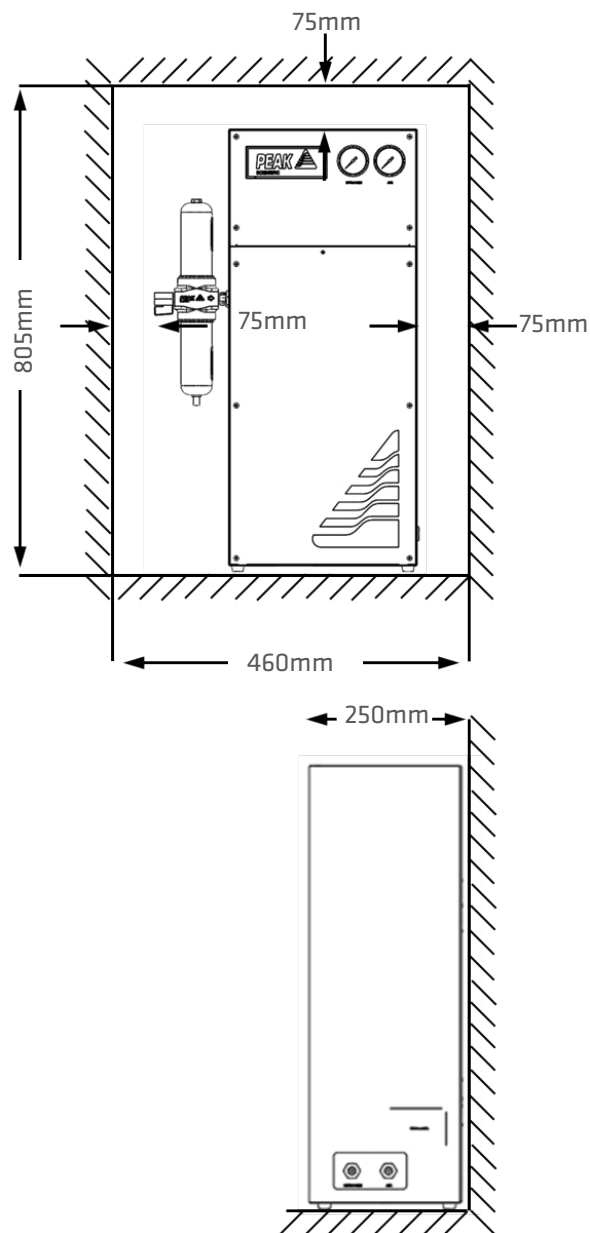


Generator MUST NOT be stored or installed outside.

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Space provision

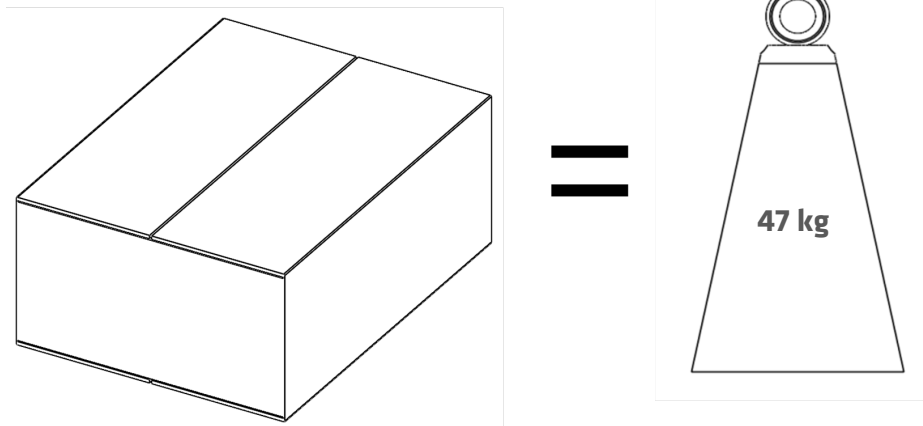
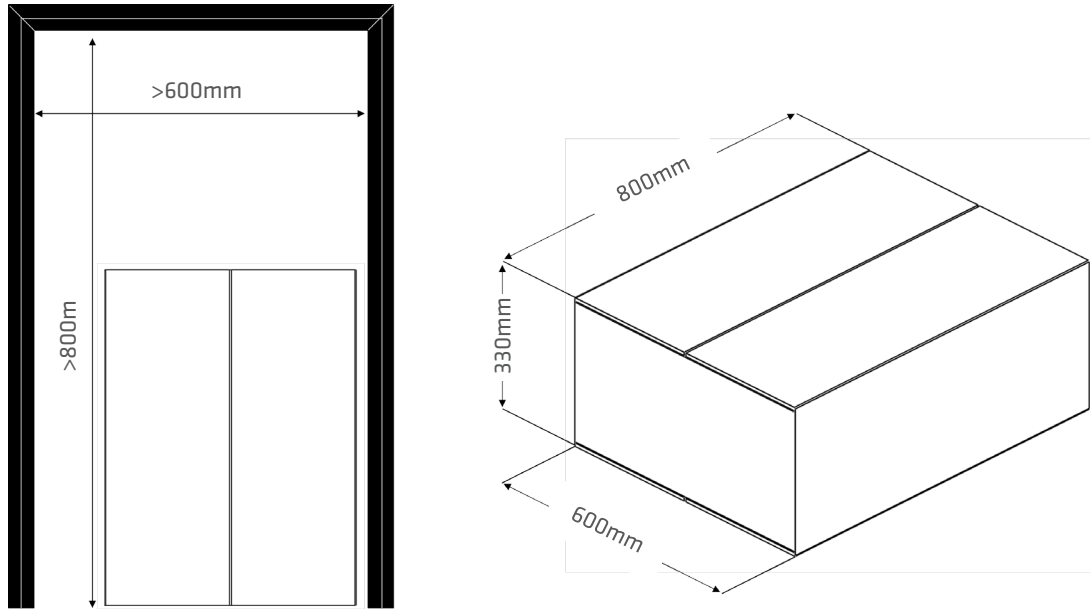
The minimum space should be provided as follows...



Failing to provide adequate cooling space around the generator may cause damage to the membranes. This will reduce service life and invalidate warranty.

On-Site Transit

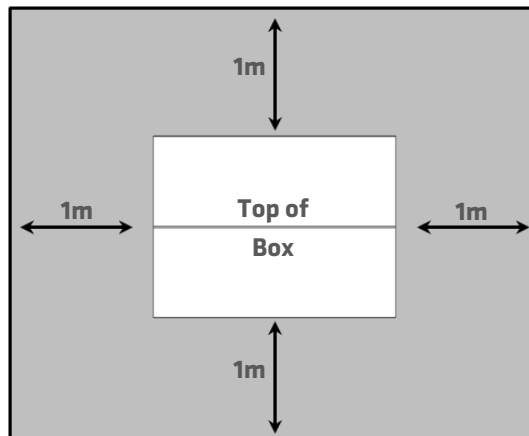
When moving the generator in its shipping crate, doorways and other openings such as elevators must fit with the sizes in the figure below.



Unpacking

Space Required

The image below shows the minimum space required to unpack the generator from its shipping box.

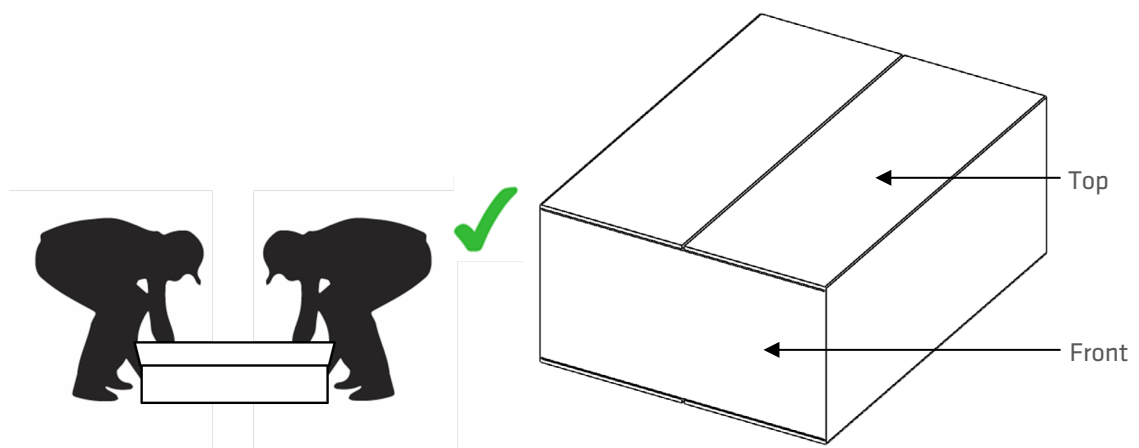


Unpacking

The top of the shipping box should be carefully opened and the cardboard insert removed.

The generator weighs 39 kg and as such constitutes a two-man lift. Ensure safe lifting practices are adhered to.

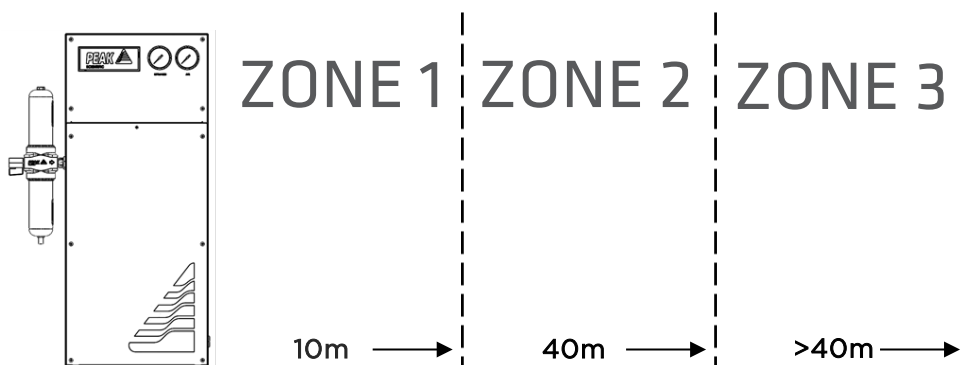
All packaging should be retained for future transit.



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Tubing lengths

Tubing sizes should be chosen with accordance to the diagram below.

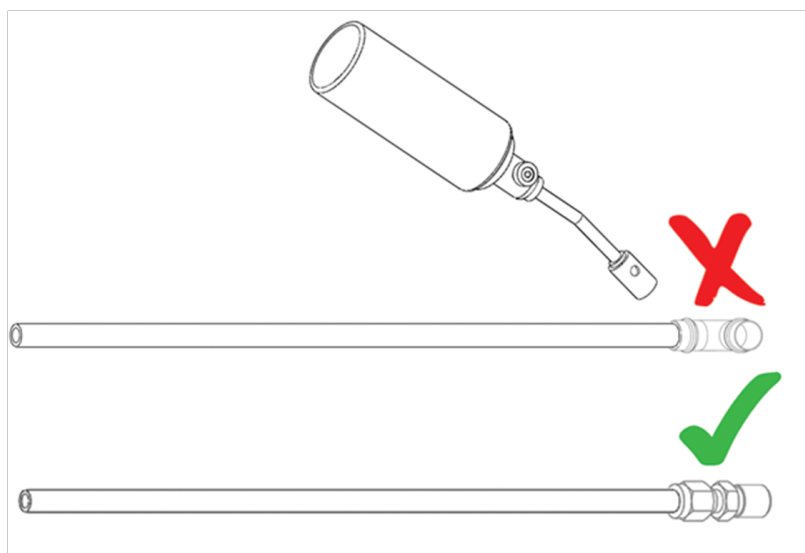


Zone	Distance from Instrument	Tubing Thickness OD/ID mm (Inches)
1	Up to 10m	6mm/4mm (1/4" 3/16")
2	Up to 40m	10mm/8mm (3/8" 5/16")
3	Over 40m	Consult Peak Scientific



The diameter of the tubing which will be connected to the gas outlet is important and is determined by the length of tubing required. Failure to follow these recommendations could lead to accelerated compressor wear.

Copper Tubing



Soldering may lead to contamination. Compression fittings recommended.

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