Corona 1010 Site Preparation Guide





Contents

Customer Responsibilities	3
Change History	4
Related Manuals	4
Safety Notices	5
Safety Notice to Users	5
Technical Specifications	6
Environment	6
Generator Outlets	6
Inlet Conditions	6
Electrical Requirements	6
General	6
Site preparation	7
Environmental control	7
Space provision	8
Electrical requirements	9
Unpacking	12
Space Required	12
Unpacking Instructions	12
Copper Tubing	13

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.
[An appropriate air supply is available.
[Electrical outlet locations and quantities are planned.
[Adequate exhaust ventilation is provided.
1		The correct tubing lengths and diameters are used in relation to the distance from the instrument.
		the Site requirements of your Peak generator as stated above and document could result in the unit underperforming and possible loss of
Please sign requiremen		ow to confirm your compliance with the aforementioned
Once compl from.	lete	please return to Peak Scientific, or whomever the unit was purchased
Return addr	esse'	es 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	Technical Specification Update	Liam Couttie	11/01/2016
2	Naming Convention Update	Liam Couttie	10/10/2019
3			
4			

Related Manuals

Document number	Manual name	Description
LIM Company to a control of the cont	Corona 1010 User	Describes the operation of the generator and all
UM-CoronaNitrogen1010	Manual	service requirements. Supplied with the generator.
IG-CoronaNitrogen1010	Corona 1010 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:



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.



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.

Safety Notice to Users



This site preparation guide must be read thoroughly and understood before installation and operation of your Peak Corona 1010 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, and the Institute of Electrical Engineers regulations.

Technical Specifications

Environment

Min/Max Operating Ambient Temperature	5°C - 35°C / 41°F - 95°F
Maximum Altitude	2000 metres
Maximum Relative Humidity	80%
Min/Max Storage Temperature	-20°C - 60°C / -4°F - 140°F

Generator Outlets

Max Flow Rate	5 l/min
Max Pressure	80 psi / 5.52 bar
Purity	2% 0₂
Particles	<0.01µm
Phthalates	None
Suspended Liquids	None
Gas Outlets	1
Pressure Gauges	1
Start-Up Time For Purity	5 mins

Inlet Conditions

Min Inlet Air Quality	IS08573-1:2010 CLASS 1.4.1
Min/Max Air Inlet Pressure	110 psi / 7.58 barg – 130 psi / 8.96 barg
Min Air Inlet Flow	30 l/min

Electrical Requirements

Voltage	110-230 V
Frequency	50/60 Hz
Current	0.03A
Input Connection Type	C14 Plug
Power Cord Type	C13 Socket to Local Connection
Pollution Degree	2
Insulation Category	II

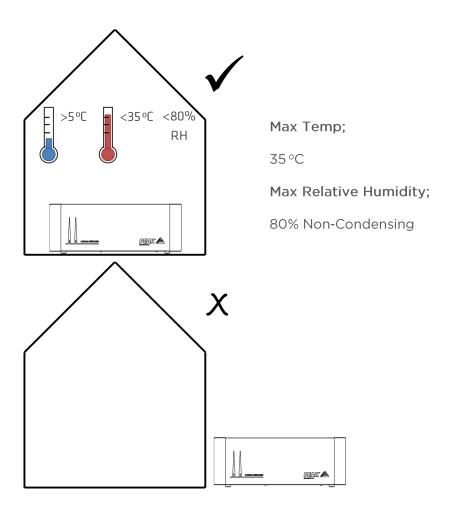
General

Generator Dimensions cm (inches)	41.6 x 54.0 x 15.6 (16.3 x 21.3 x 6.14)
Generator Weight Kg (lbs)	12 (26.4)
Shipping crate dimensions cm(inches)	58.2 x 79.0 x 43.5 (22.9 x 31.1 x 17.1)
Shipping Weight Kg (lbs)	34 (74.9)
Noise Level	10 dBA

Site preparation

Environmental control

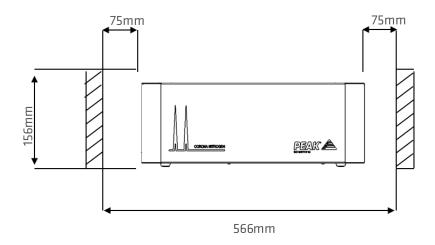
If the generator is stored in an enclosed space the environment must be controlled via an air conditioner or extraction fan.

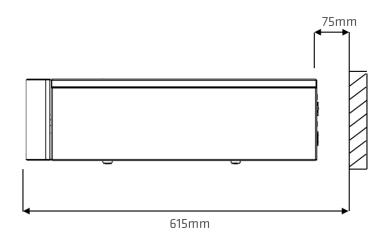


Generator MUST NOT be stored or installed outside.

Space provision

The minimum space should be provided as follows;



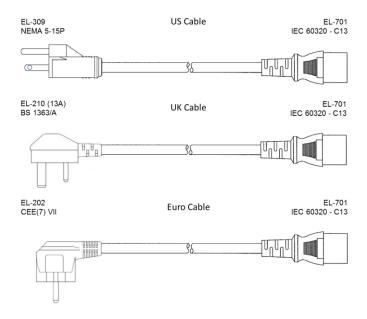




Failing to provide adequate cooling space around the generator may cause damage to the Generator. This will reduce service life and invalidate warranty.

Electrical requirements

The below power cables are supplied with the generator.



For cables pertaining to countries not displayed above, it is the responsibility of the end user to provide an appropriate power cable which meets the requirements defined in the Technical Specification section on page 6.

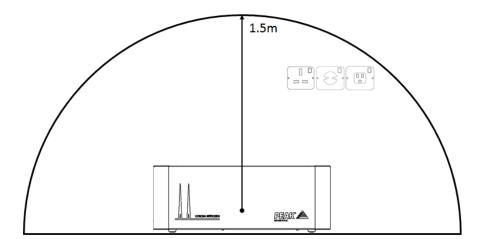


This unit is classified as SAFETY CLASS 1. THIS UNIT MUST BE EARTHED. Before connecting the unit to the mains supply, please check the information on the serial plate. The mains supply must be of the stated AC voltage and frequency.

If the mains power at your location is less than 110V/220V then a transformer suitable transformer should be sourced, to boost the mains power to an acceptable level.

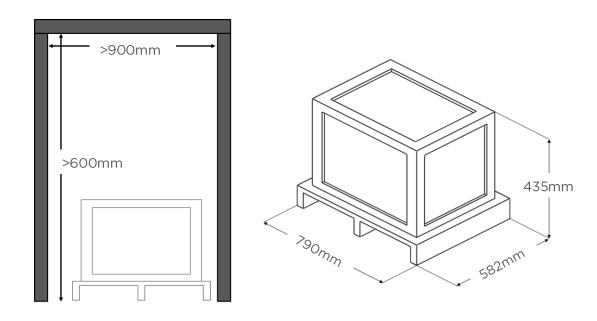
The power cable supplied with the generator is 2m long.

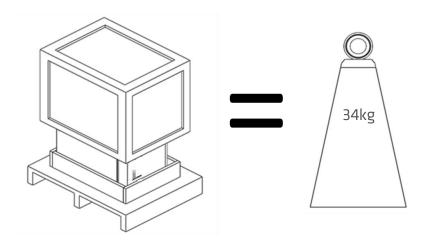
A mains socket providing the power should be located adjacent to the generator and within a 1.5m radius to the generator.



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.

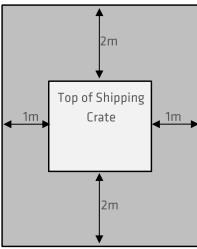




Unpacking

Space Required

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



Tools

Required:



Pozidrive #2 Screwdriver

Recommended:



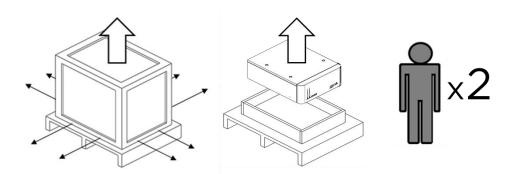
Drill with Pozidrive #2 Bit

Unpacking Instructions

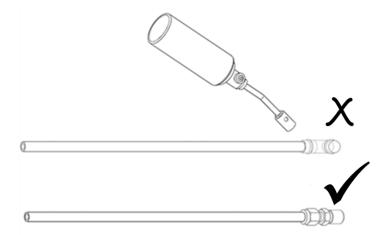
Remove all screws encircled in red, use Drill or Pozidrive #2 screwdriver. Once all 8 screws have been removed, lift lid upwards.

Next with someone on either side of the unit, position your hands underneath the unit ready to lift.

Ensuring your knees are bent and your back is straight, lift the unit to the desired location.



Copper Tubing





Soldering may lead to contamination. Compression fittings recommended.

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