



RECVING YOUR ION PUMP

General Information

Gamma Vacuum ion pumps provide clean, contamination free operation and have long operating lives, with no moving parts, no requirement for water cooling or liquid nitrogen for operation and little energy consumption. They provide high pumping speeds and feature fast starting and stability. There are 29 standard models of ion pumps in the 0.2 L/S to 1200 L/S range available from Gamma Vacuum. Most pump sizes are available in differential ion or conventional pumping configurations. All pumps are fully enclosed by pole pieces and stainless-steel covers which cover the magnets and pumping pockets where appropriate.

Safety Information

To avoid personal injury, do not perform any installation or service unless qualified to do so. Installation should be performed by qualified, authorized, personnel who have experience working with voltages greater than 50 volts.

certificate of conformance

Each pump is sent with a Certificate of Conformance or known as CofC. This will should the performance verification the technician performs during final testing.

- Time to <1uA current
- Final Pressure
- Final Current
- Leak check
- Magnet polarity check

Gamma Vacuum ships ion pumps under vacuum to ensure ultra-high vacuum cleanliness and to demonstrate the vacuum integrity of the ion pump vessel.

If there is any damage to the ion pump, or it does not pass the pre-venting procedure. Please reach out to Gamma immediately at:

Info@gammavacuum.com



Pre-Venting Procedure

After initial unpacking and before venting, connect the ion pump to an ion pump controller and switch on high voltage. The ion pump should start immediately and follow the time, pressure, and current specifications recording on the certificate of conformance.

1. Connect the high voltage cable to the ion pump. Use the supplied cable or a cable with the appropriate mating connector for your feedthrough.



2. Connect the high voltage cable to an ion pump controller with the correct polarity. Connect the SAFECONN SMB connector, if included.



3. Enable high voltage on the ion pump controller
4. The ion pump should start immediately and follow the time, pressure, and current specifications recorded on the included certificate of conformance.



