



NEW!

STAT·CLEAN

INNOVATIVE ION GUN



Abbeon Cal, Inc.
Industrial Plastic Working Equipment & Precision Instruments

08/14/2018

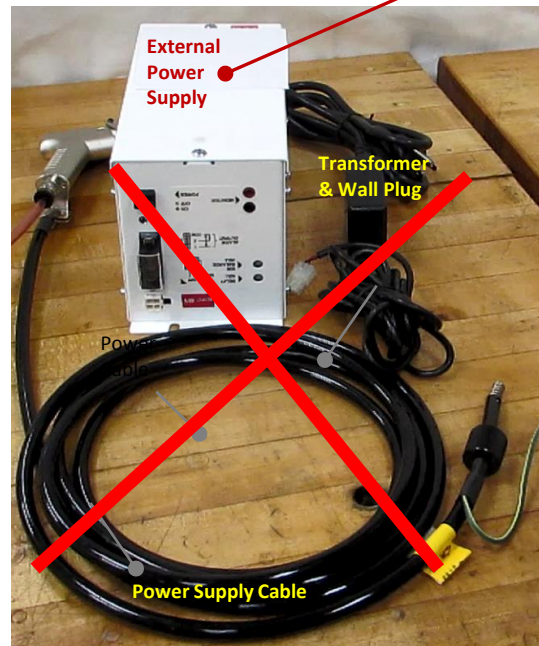
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Conventional Ion Guns: Disadvantages



Conventional Ion Guns with High Voltage External Power Supplies

- ✓ **High Maintenance:** Power supply cable and power supply unit can require high maintenance which means more additional costs to keep it operating.
- ✓ **Operating / Warning Lights:** If the power supply is mounted away from the operator or inside a panel, then the operator cannot see if the ionizer is working properly.
- ✓ **Safety Issue:** If high voltage power supply cable breaks, the operator can get shocked so it can be a potential safety hazard.
- ✓ **Not User-Friendly:** All ion guns require a power cable and air hose together which can be bulky and can get in the way of the operator so it's not so user-friendly.
- ✓ **Not Mobile & Versatile:** Since the external high voltage power supply is fixed mounted, it's not easy to move from one work station to the next if needed. You have to unplug the power cable and move the heavy/bulky power supply.



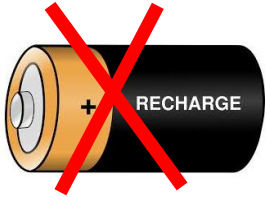
New! Model #G-9 Ion Gun (REVOLUTIONARY DESIGN!)



◆ **NO**
Power Supply Unit!



◆ **NO**
Power Supply Cable!



◆ **NO**
Transformer!

◆ **NO**
Battery!



REVOLUTIONARY DESIGN! WORLD'S FIRST!

➔ **Runs on compressed AIR ONLY!**

➔ **Innovative Motor POWERS ITSELF!**

➔ **Overall: VERY LOW MAINTENANCE!**

New! Model #G-9 Ion Gun: GENERAL SPECS & APPLICATIONS

◆ Runs ONLY on AIR due to innovative motor (which powers itself).

◆ Very Accurate and Reliable Ion Balance: +/- 5V

◆ Powerful Airflow for Effective Cleaning

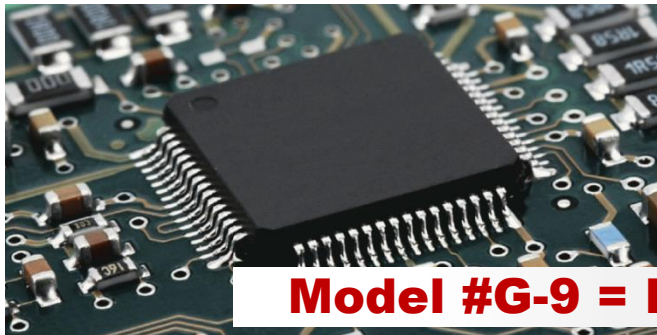
◆ Quick Decay Time: < 1 Sec

◆ Rugged Housing for Durability



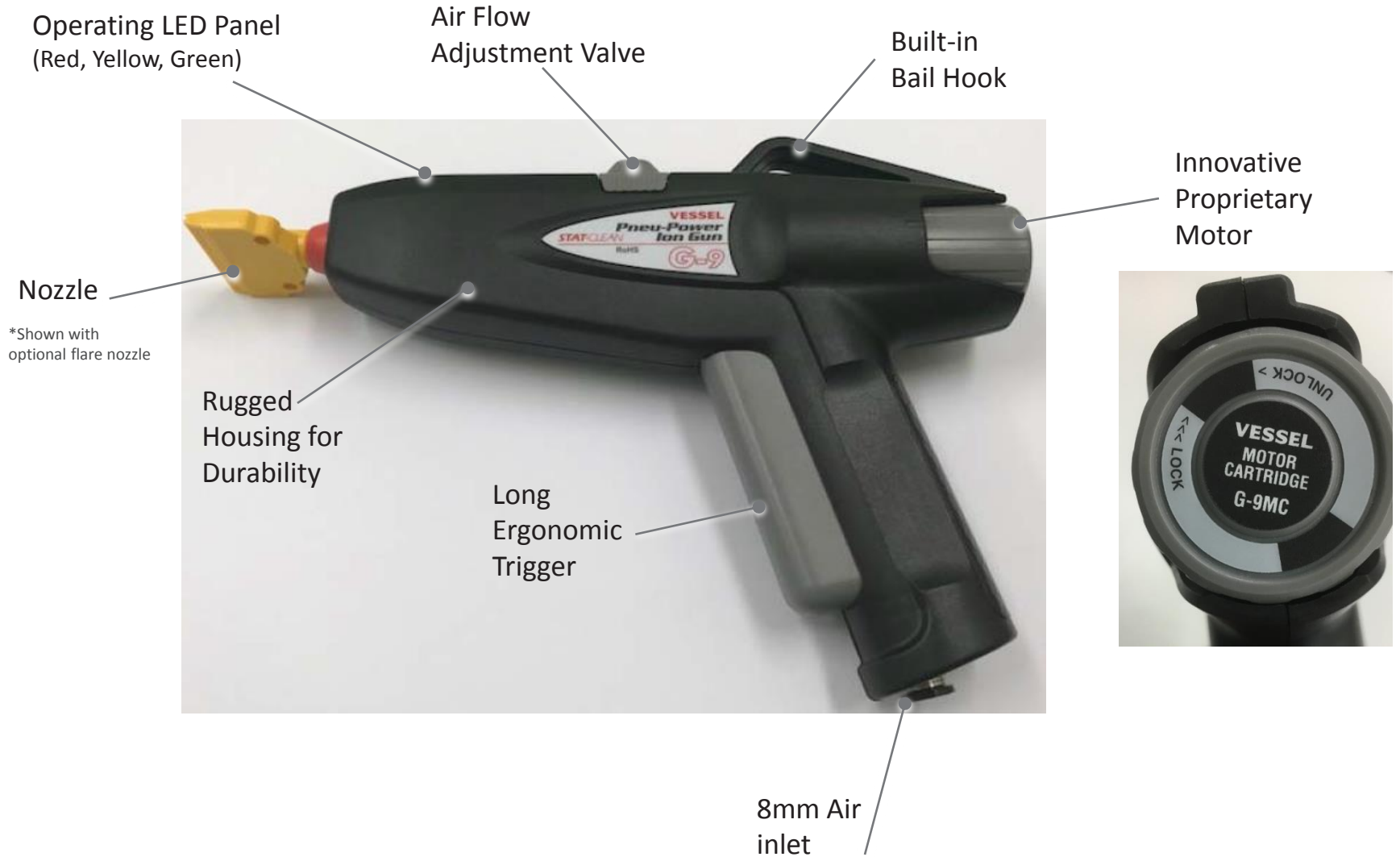
One Model for ALL Applications!

Ideal for cleaning and removing contaminants that adheres to a part surface caused by static electricity. Applications include lighting, before a coating process (paint, chrome), ESD concerns with electronic components, and so much more.



Model #G-9 = Less Maintenance = Cost Saving Solution!

New! Model #G-9 Ion Gun: KEY FEATURES



New! Model #G-9 Ion Gun: LED PANEL / TOOL ADJUSTMENT

When using G-9 for the first time, the operator will need to adjust the air flow control valve to working air pressure (between 43 to 100psi) so that the Operating LED turns “GREEN”.

Note:

When setting the G-9, turn the air flow adjustment valve so that the GREEN light comes on. When you change the air pressure (up or down), you may need to adjust the tool again so that the GREEN light comes back on.

Red

Something is wrong with the tool (air flow control valve is not adjusted properly, air motor is not seated correctly or not tightened properly, or air motor is at end of life so needs to be replaced).

Green

Air flow control valve is set properly (between 43.5 to 100psi) and tool is working properly.

Yellow

Air flow control valve needs to be adjusted (until it turns off and “GREEN” LED turns on).



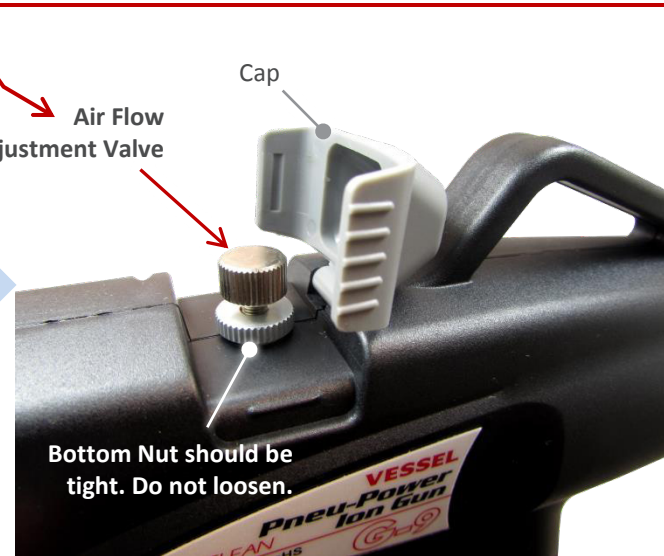
LED Operating Display

One-Time Adjustment:

Air Flow Adjustment Valve

Cap

Bottom Nut should be tight. Do not loosen.



Turn air flow control valve clockwise or counter-clockwise until “GREEN” LED comes on. Once it’s set, close the cap and do not adjust. This should be a one-time adjustment.

New! Model #G-9 Ion Gun: INNOVATIVE MOTOR DESIGN!

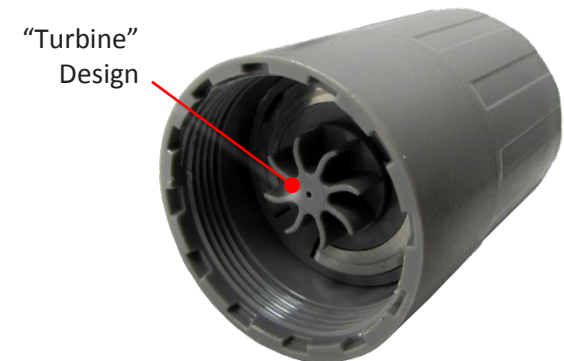


General Idea How it Works:

The air spins the turbine on the air motor so the motor powers itself. The ions are generated from the electrode needle which is inside the nose-piece. The new G-9 produces effective and reliable ionized air to help prevent static electricity.

•NO Power Supply! • NO Battery! • NO Transformer!

JUST REQUIRES COMPRESSED AIR!



New! G-9 Ion Gun: ONE-YEAR USAGE TEST

Air Motor **ONE-YEAR** Running Test

Sample #1

S/N				
Air Pressure	Air Consum.	Decay Time (seconds)		Ion Balance
(PSI)	(L/min.)	+ (s)	- (s)	Volts
43.5	149	0.78	0.75	+/- 1
72.5	223	0.59	0.55	

Sample #2

S/N				
Air Pressure	Air Consum.	Decay Time (seconds)		Ion Balance
(PSI)	(L/min.)	+ (s)	- (s)	Volts
43.5	158	0.79	0.77	+/- 1
72.5	223	0.64	0.58	

Sample #3

Air Pressure	Air Consum.	Decay Time (seconds)		Ion Balance
(PSI)	(L/min.)	+ (s)	- (s)	Volts
43.5	163	0.5	0.6	+/- 5
72.5	229	0.4	0.4	

Measurement condition:

Distance = 6.0" (150 mm)

Air Pressure = 43.5psi (0.3 Mpa) and 72.5psi (0.5 Mpa)

Running test condition:

10 seconds ON, 10 seconds OFF continuous use.

Source pressure approximately 14.5psi (1.0 Mpa)

Blowing out approximately 65.26psi (0.45 Mpa).



After operating the tool continuously (10 seconds on, 10 seconds off), the New G-9 Ion was still within specification over a **ONE-YEAR** usage test.

- **Decay Time: Less than one-second**
- **Ion Balance: within +/- 5V**

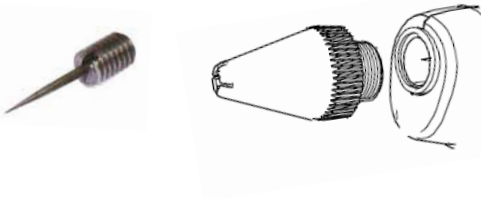
New! Model #G-9 Ion Gun: VERY LOW MAINTENANCE!

Very Low Maintenance! Replaceable Parts Available

Nozzle
All nozzle types are replaceable.



Electrode Needle
Replaceable needles are available and recommended to be changed **once a year**.



Motor Cartridge
Replacement air motors are available and recommended to change after a **one-year** usage (or longer).

Air Inlet
Replaceable air inlets are available (or you can install your own).



•NO Power Supply! • NO Battery! • NO Transformer!

New! G-9 Ion Gun: OPTIONAL NOZZLES



G-9SN
Regular Nozzle



N-2WN
Silent Flare
Nozzle



BB-ZSN
Silent Round
Nozzle



Measured at Distance: 150mm (6.0")

Nozzle Type	Air Pressure	Air Consumption	Decay Time (seconds)		Ion Balance	Noise Level (dB-A)
	MPa	L/min.	+1000→+100V	-1000→-100V	(V)	at 600mm
Regular Nozzle	43.5	158	0.79	0.77	+/-1	83.1
	72.5	223	0.64	0.58	+/-1	104.8
N-2WN	43.5	157	0.84	0.84	+/-1	72.4
	72.5	233	0.80	0.79	+/-1	80.2
BB-ZSN	43.5	139	0.92	0.90	+/-1	73.3
	72.5	215	0.79	0.68	+/-1	81.6

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**LOW
NOISE LEVEL!**