

## STATIC ELIMINATORS

**Powerful and high quality static eliminators with, and without air amplification products,  
To address virtually any application which static charges are a problem.**

### WHAT ARE THEY - REASONS TO USE

Wild claims are made by some amplification product suppliers that putting a static bar with an Air Knife will eliminate static at incredible distances which are highly exaggerated. We will attempt to clarify such myths with reality.

A static eliminator is a device that produces ions - positive and negative - which neutralize any opposite charge on a surface that these ions interact with. Static charges occur on plastic parts, moving webs of paper and film, and can cause problems of jamming as well as shock hazards to personnel.

Charges can vary on a surface and in some cases (depending on a variety of factors such as material, speed, and humidity) be extremely high. For this reason Nex Flow™ has several options to address the wide variety of environments encountered.



**Nex Flow™ has a variety of static elimination products to address virtually any static application in manufacturing**

### MYTH VERSES REALITY

Static Eliminators are used on their own when they can be placed close to a surface. In all instances it takes “time” for the static to dissipate. When close to a surface it can happen extremely quickly (milliseconds). This can usually be achieved by using a standard strength static bar. In some cases the surface charge may be extremely high (like in some materials as Mylar) and/or the surface may be moving quite quickly on a moving web. In such cases the static bar may not produce enough “ions” fast enough and a more powerful static bar is required. Just adding an Air Knife will NOT speed up static removal. In fact it may slow it down! NexFlow™ has available a more powerful static bar for such high charged” or high speed applications.

Adding a compressed air “Air Knife” will allow you to remove static at a distance (as will adding a blower) but can increase the time needed to dissipate static as the ions somewhat recombine on their way to the target weakening their effect. Therefore often a stronger static bar (that we can provide) is required.

**All static control equipment meets electrical standards for North America and/or Europe and are ROHS compliant.**



Nex Flow™ uses quality static bars from Haug rather than cheap products because Haug static bars have been proven to last in difficult environments. The most fragile part of any ionization system is the static bar and Haug bars have proven themselves against many others to be durable, of high quality, and long lasting.

**THE LG LIGHT-WEIGHT ERGONOMETRIC DESIGNED IONIZING AIR GUN IS EFFICIENT AND REPAIRABLE**

**THE LG "LIGHT-WEIGHT GUN" IONIZING AIR GUN**

The LG ionizing Air Gun is light weight at only 16 oz (480 gm) (before air hose and high voltage cable) and easy to handle. If damaged it is easily repairable by replacing one of only seven parts.

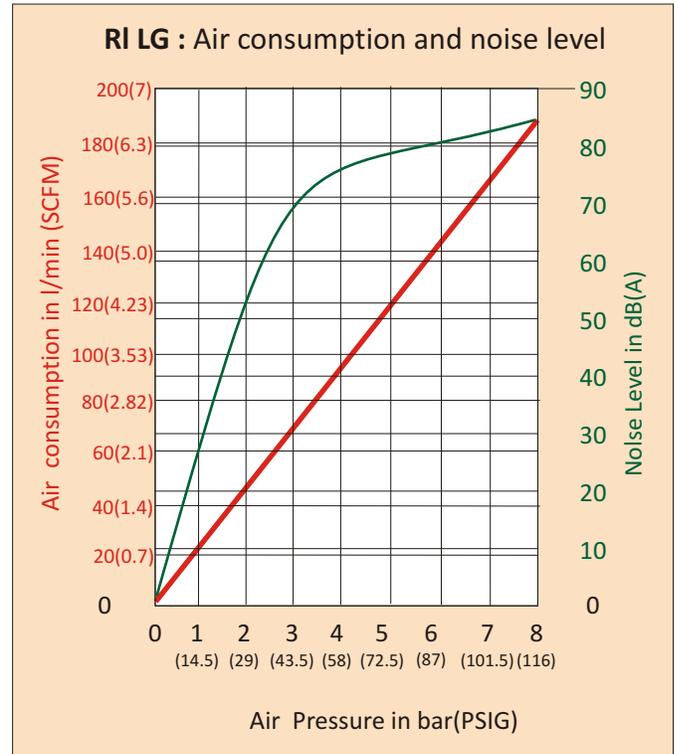
**Ionizing Air Gun Function**

The head of the device is enclosed by a sheet material shield, which serves both as mechanical protection and counter-electrode. Due to the special shape of this shield, bypass channels are created, which assist an efficient six-channel blowing nozzle by stabilizing the airflow. The airflow can be adjusted exactly in accordance to the application - particularly useful for the treatment of small pieces.



**Ionizing Air Gun Special Features and Advantages**

- ▶ **Operating facility** : The LG Gun consists of few individual modules, each of which is exchangeable. The high-voltage cable can be extended, shortened or exchanged.
- ▶ **Ergonomic** : Modern industrial design well thought-out down to the last detail. This device can be used conveniently and efficiently by left and right handed persons.
- ▶ **Efficient Air Amplification** : The utilization of the intake air through bypass channels
- ▶ **Lightweight and quiet** : The LG creates remarkably little noise and its low weight makes it easy to handle.



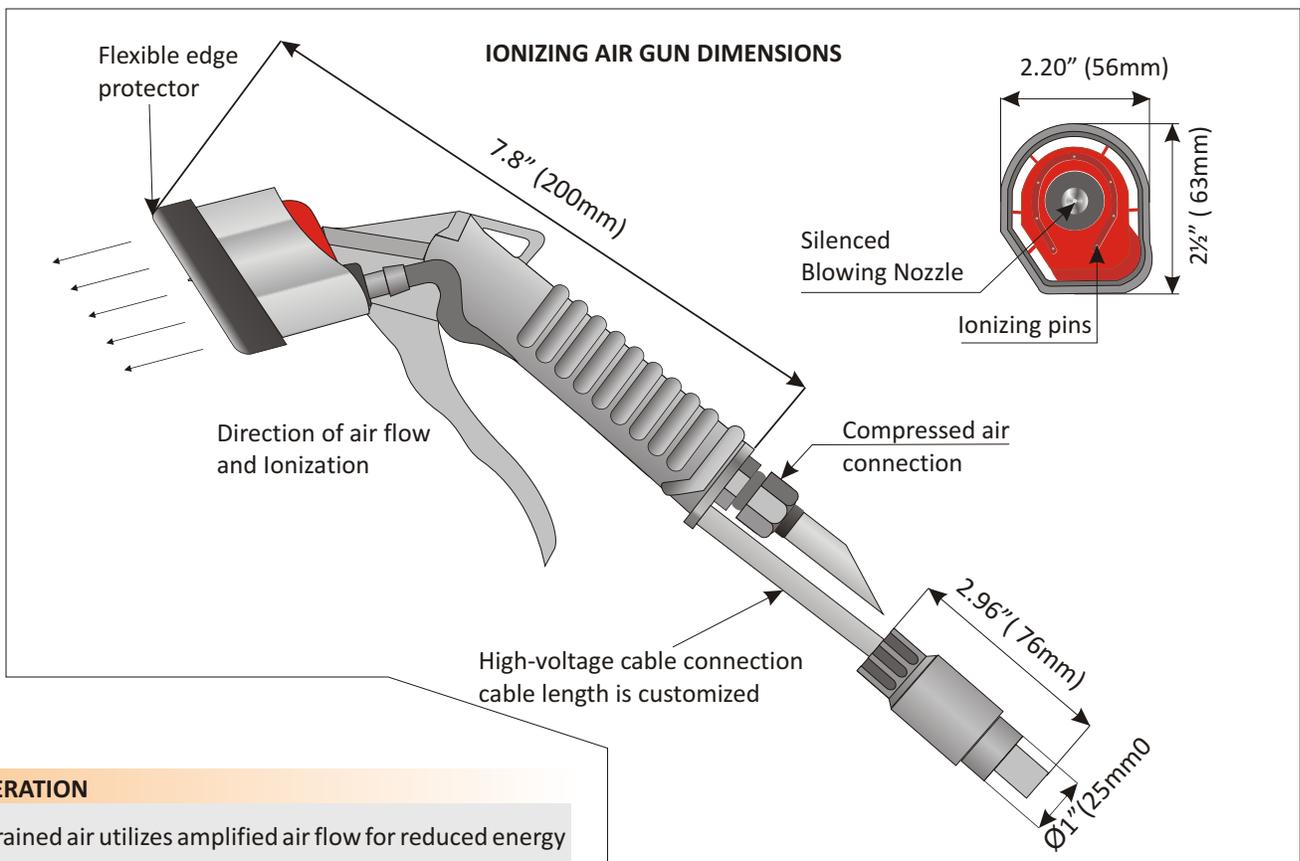
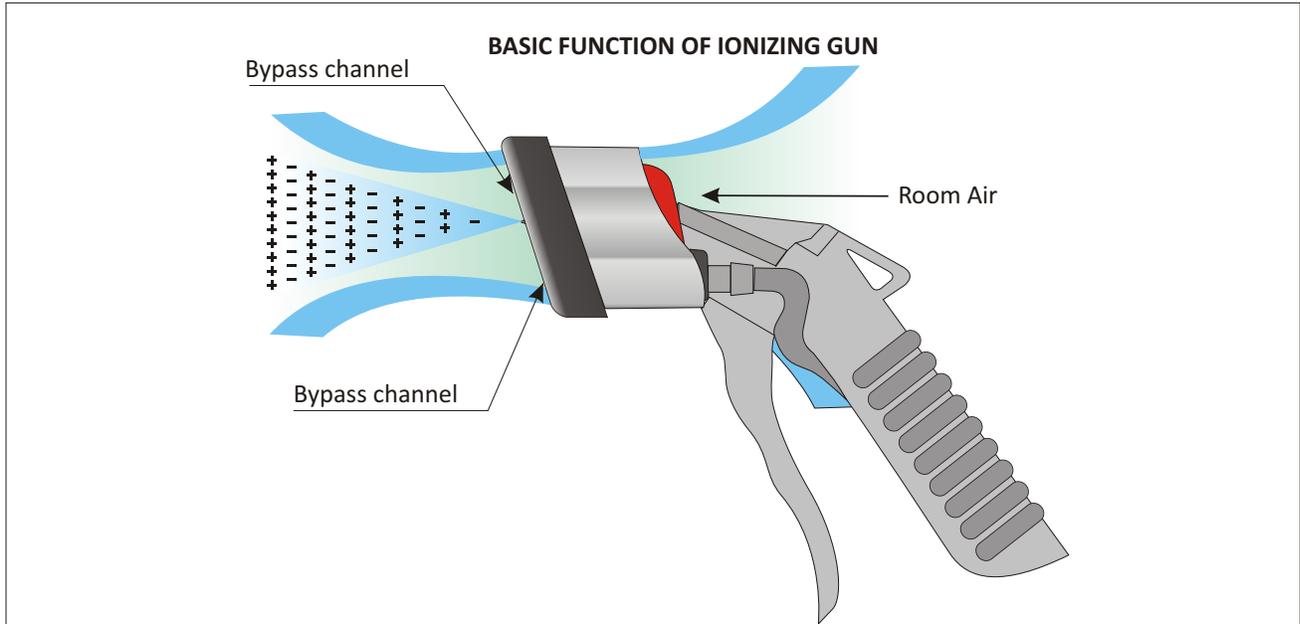
**SPECIAL NOTES:**

The LG Gun as all Haug products, all come with a patented connector to assure safety in operation and maintenance. Field repairable, it prevents a connection if the static gun is removed or attached while power is still on at the power supply. Lightweight and highly flexible cable is FULLY SHIELDED for longer life.

**REPAIRABLE POWER SUPPLIES**

Power supplies are repairable and come with a 2 year warranty.

**STATIC ELIMINATORS**



**OPERATION**

Entrained air utilizes amplified air flow for reduced energy use. The Ionizing pins are not in the direct path of the airflow minimizing dirt buildup and preventing premature failure that can occur with pins directly in the path of the air flow.

PART NO.	DESCRIPTION
18001	LG IONIZING GUN ONLY c/w 15 feet of cable
18101	LG IONIZING GUN c/w 15 feet of cable Plus ENC-2 Power Supply (2 outlet)



## Ioniz Nozzles

The ionized nozzle is a highly effective discharge gun for surface particulate non-conductive materials. It is also mounted on a hand and gun type to be converted to a waste.

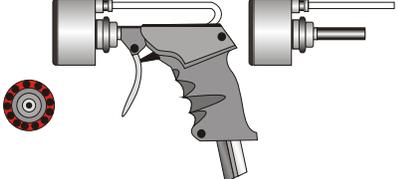
Rinçoni Model 17200 Model 17203 With Air Gun  
 This is a compact and lightweight discharge gun with a small size and components for fine work. It is highly flexible and easy to handle, its subcompact design makes it suitable for ionized discharge processes.



Rinçoni Model 17195 Model 17196 With Air Gun  
 This is a high pressure, easy to handle and ergonomic design ionized discharge gun.



Rinçoni Model 17194 Model 17187 With Air Gun  
 These are large size ionized discharge guns for large area applications.



## TECHNICAL DATA

Model No.	17200 17203	17195 17196	17194 17187
Nozzle size	Ø0.8 (2mm)	Ø1.3 (32mm)	Ø2.5 (65mm)
Weight with gun Butt with hose	Ø0.1 (2mm) Solid stream nozzle	3X Ø0.1 (1.6mm) id Stream nozzle exchangeable	Ø0.1 (2mm) id Agate nozzle exchangeable
	0.4 pounds (0.2 kg)	0.8 pounds (0.4 kg)	1.3 pounds (0.6 kg)
Weight with gun Butt with hose	1.1 pound (0.5kg)	1.3 pounds (0.6 kg)	2.0 pounds (0.9 kg)
Air Consumption	According to the operating pressure		
Optim pressure	Approx. 30-35 psi		
Operating temperature	-4 F (-20°C) to 22 F (5°C)		

## STAELICIMINATIONSZ NOZZLES

PART NO.	DESCRIPTION
17200	20mm (0.8 inch) NICO NIZNEORZ ZWFEE (2m) cable
17203	20mm (0.8 inch) NICO NIZNEORZ ZWFEE (2m) cable with air gun
17195	32mm (1.3 inch) NICO NIZNEORZ ZWFEE (2m) cable
17196	32mm (1.3 inch) NICO NIZNEORZ ZWFEE (2m) cable with air gun
17194	65mm (2.5 inch) NICO NIZNEORZ ZWFEE (2m) cable
17187	65mm (2.5 inch) NICO NIZNEORZ ZWFEE (2m) cable with air gun

STAELICIMINATIONSZ

**Static Testing:**



Multicheck Model 80301 -tests if static bars and power supplies are working. The high-voltage test unit Multicheck is a performance testing unit for any power supply and for HAUG ionization units. Unlike cheap AC Testers which only show if power is going into power supplies or static bars, the Multicheck actually indicates if a power supply or bar is working. As you get close to the static bar, or power supply, a red light goes on indicating power to the unit, then if there is adequate voltage to make the system work, the light goes green. A minimum voltage of 3600 volts is required to insure that a static elimination system is working. The Multicheck light will turn green if you have that voltage. AC Testers will NOT do this and are not an adequate indicator so be wary of marketing ploys which may offer AC testers as an accurate device for testing power supplies or static bars.

For testing power packs, the red measuring probe is inserted into the high-voltage socket as far as it will go. After pressing the red push button the LED will illuminate green if the unit functions correctly. In case of malfunction, the LED will illuminate in red or no display at all is visible

For testing ionizing units the test unit is moved vertically towards the ionizing tips. The LED will flash red; when the probe makes contact, the LED will illuminate in green if the ionizing unit functions correctly.



Hand Held Static Meter Model 80302 - used to indicate static charge on parts, sheets and webs. The Hand Held "Static Control" meter is reasonably priced and easy to handle. It is operated using an ON/OFF soft key (with circuit-breaker) and two further soft keys for the 0-100 and 0-1000 kV/m measuring ranges. The meter is battery powered. It should be part of any basic equipment of every electrical engineering workshop. It is rugged and durable for use in all types of plants operations.



Hand Held Static 1 Digital Static Meter Model 80303 - The Static 1 is a small hand-held field strength meter with digital display for measuring electrostatic charges in Volts and is used if more accurate readings are required than with the standard hand held meter. In order to obtain optimum results, the distance between test object and sensor head - depending on the degree of charge and the condition of the objects' surface - can be selected incrementally. The device is equipped with a Hold function to keep the measured value stored on the display. The integrated micro-computer automatically converts the measured field strength into the equivalent charge in Volt.

**Static Meters**

PART NO.	DESCRIPTION
80301	Multicheck Unit to test if bars and power supplies working
80302	Hand Held Static Meter
80303	Hand Held Static 1 Digital Static Meter