

Ionizing Air Guns

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1 Ionizing Air Guns

Ionizing Air Guns

1.1 Overview

Neutralize static charges and clean using ionized compressed air.



1.2 Benefits

The ES2J and Cobra ionizing air guns have a rugged design and therefore ideal for use in industrial applications. Ionizing air guns neutralise static charges on several materials and clean the surface using ionised compressed air.

1.3 Applications

Ionizing air guns neutralise static charges on several materials and clean the surface using ionized compressed air. Neutralising the static charges makes it easier to blow-clean the surface and prevents dust and dirt particles from being reattracted. The compressed air used for this purpose must be free from oil and water. The guns are connected to a power unit which supplies the required high voltage.

2 Models

2.1 Ionizing Air Guns

Ionizing air guns neutralize static charges on several materials and clean the surface using ionized compressed air. Neutralizing the static charges makes it easier to blow-clean the surface and prevents dust and dirt particles from being reattracted. The compressed air used for this purpose must be free from oil and water. The guns are connected to a power unit which supplies the required high voltage. The power unit is compact and easily installed.

ES-2J: Ionizing air gun

This gun is electrically safe and shockless. The emitter point is coupled capacitively to the high voltage. Thanks to its rugged design this gun is ideal for heavy-duty industrial applications. The airflow is controlled by the trigger. It comes standard with 3 metres of metalshielded cable. One or two guns can be connected to one power unit.

Model	ES-2J
Working distance	300 mm max.
Housing material	Aluminium
Ionisation point	special alloy
Cable	Metal shielded 3, 6 or 9 metres
Weight	1 kg incl. 3 metres cable
Ambient temperature	0 - 60°
Use circumstances	Industrial
Operating voltage	7 kV AC
Noise level	78 dB using 2 bar at 0,6 m
Air consumption	275 l/min. using 2 bar
Max. pressure	7 bar
Airconnection	1/4" BSP with 8 mm hose connection
Suitable power unit	A2A7S/MPM
Airfilter	-



Top Gun: Ionizing air gun

SIMCO's Top Gun III is developed for light industrial applications. A high ion production attend to an optimal neutralisation of static charges. High blow-off force and low air consumption provide high-efficiency cleaning. A filter at the exit of the gun ensures that the air is clean. The gun body is lightweight and durable. It features a light-touch trigger, making it comfortable even for extended use. All functionality is built into the gun, including a flow control valve, and a two-level LED which indicates if the gun is in "stand by" mode and if high voltage is currently active. Both the gun and cable are static dissipative. A hanger is provided for easy mounting. One gun can be connected to one power unit.

Model	Top Gun
Working distance	300 mm
Housing material	impact resistant plastic
Ionisation point	special alloy
Cable	static dissipative, 3 meter
Weight	0,8 kg incl. 3 metres cable
Ambient temperature	0 - 40°
Use circumstances	light industrial
Operating voltage	5 kV AC
Noise level	76 dB using 2 bar at 60 cm
Air consumption	68 l/min. using 2 bar
Max. pressure	7 bar
Airconnection	1/8" NPT female
Suitable power unit	Top Gun III power Unit
Airfilter	0,01 micron



Cobra: Ionizing air gun

The Cobra ionizing air gun is excellently suited for heavy-duty industrial applications. It has a lightweight durable gun body made of highimpact plastic. The airflow is controlled by the trigger. The air flow is amplified by a minimum factor of 6 : 1 by drawing in ambient air through the rear. The high-voltage point integrated aerodynamically in the gun body cleans itself during use. The gun comes standard with 6 metres of cable. Two guns at most can be connected to a single power unit.

Model	Cobra
Working distance	600 mm
Housing material	impact resistant plastic
Ionisation point	special alloy
Cable	PVC and PE, 6 or 12 metres
Weight	0,6 kg incl. 6 metres cable
Ambient temperature	0 - 55°
Use circumstances	industrial
Operating voltage	5,1 kV AC
Noise level	95 dB using 2 bar at 60 cm
Air consumption	200 l/min. using 2 bar
Max. pressure	7 bar
Airconnection	1/4" BSP, hose min. 9 mm inside
Suitable power unit	A2A5G
Airfilter	-



3 Technical data

Ionizing Air Guns

Model	Working distance	Housing material	Ionisation point	Cable	Weight
ES-2J	300 mm max.	Aluminium	special alloy	Metal shielded 3, 6 or 9 metres	1 kg incl. 3 metres cable
Top Gun	300 mm	impact resistant plastic	special alloy	static dissipative, 3 meter	0,8 kg incl. 3 metres cable
Cobra	600 mm	impact resistant plastic	special alloy	PVC and PE, 6 or 12 metres	0,6 kg incl. 6 metres cable

Model	Ambient temperature	Use circumstances	Operating voltage	Noise level
ES-2J	0 - 60°	Industrial	7 kV AC	78 dB using 2 bar at 0,6 m
Top Gun	0 - 40°	light industrial	5 kV AC	76 dB using 2 bar at 60 cm
Cobra	0 - 55°	industrial	5,1 kV AC	95 dB using 2 bar at 60 cm

Model	Air consumption	Max. pressure	Airconnection	Suitable power unit
ES-2J	275 l/min. using 2 bar	7 bar	1/4" BSP with 8 mm hose connection	A2A7S/MPM
Top Gun	68 l/min. using 2 bar	7 bar	1/8" NPT female	Top Gun III power Unit
Cobra	200 l/min. using 2 bar	7 bar	1/4" BSP, hose min. 9 mm inside	A2A5G

Model	Airfilter
ES-2J	-
Top Gun	0,01 micron
Cobra	-