



Industrial Static Control

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Magnum Force

IONIZING AIR KNIFE

Simco-Ion's Magnum Force Air Knife Systems are custom designed to provide superior heavy-duty surface cleaning or drying. When combined with Simco-Ion's static neutralizing bars, Magnum Force becomes a powerful tool for removing dust and dirt from flat or contoured surfaces.

- Clean, dry, uniform air provides superior cleaning capability
- Adjustable air thrust blades provide flexibility of performance
- Easy installation and positioning
- Corrosion resistant body and brackets



Specifications

Magnum Force Ionizing Air Knife	
Air Velocity	Output orifice adjustable from 0.032" to 0.250"
Inlet Connection	Air knife supplied standard with end inlet; center inlet and double top inlet options available
Mounting	Stainless steel, flanged support collars and hardware
Enclosure	Anodized aluminum for corrosion protection; powder-coated ends and center inlet collars
Dimensions	4" dia. up to 48"; 6" dia. up to 120" (available in 6" increments; custom sizes available)
Magnum Force Ionizing Air Nozzle	
Discharge	Model X50 up to 24"; Model X75 up to 48"; Model X125 up to 30"
Input Connection	4" flexible hose
Mounting	3/4" and 1" pipe, multiple units mounted on a custom plenum
Enclosure	Anodized aluminum for corrosion protection
Blower	
Input Voltage	208-230V, 460V or 575V, 50/60 Hz 3-phase; TEFC
Air Velocity	5,000-25,000 fpm
Silencer/Filter	10 micron replaceable cartridge in coated steel casing
Certification	AMCA certified

Magnum Force vs. Compressed Air Knife Operation Cost*				
Air Knife Length	Compressed Air Knife (30 psi) Annual Cost (2000 hrs)	Magnum Force Annual Cost (2000 hrs)	Blower Size	Savings with Magnum Force
24"	\$1,633	\$323	3 HP	\$1,310
60"	\$4,082	\$538	5 HP	\$3,545
90"	\$6,124	\$806	7.5 HP	\$5,317
120"	\$8,165	\$806	7.5 HP	\$7,358
180"	\$12,247	\$1,613	15 HP	\$10,634

* Based on \$0.07/kilowatt electric cost.

Static Bar Options:

- MEB Static bar standard
- Optional R50 Blue Bar for high output ionization
- Optional PerforMax IQ.HL static bar for hazardous locations

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Each Magnum Force system includes one or more ionizing air knives or ionizing nozzles and a blower system. The blower system performance levels are custom configured for each application and each system includes a blower, motor, silencer and filter. The Magnum Force systems use a blower instead of compressed air, reducing operational costs by 30% to 70% (see chart).

Typical Use

- Automotive parts cleaning
- Liquid blow-off
- Metal can and bottle cleaning
- Thermoformed and injection molded parts cleaning
- Glass and plastic sheet cleaning



Several sizes of direct or self-tensioning belt drive blowers available.



Magnum Force Air Nozzle

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