

StaticSmart™

AK2200

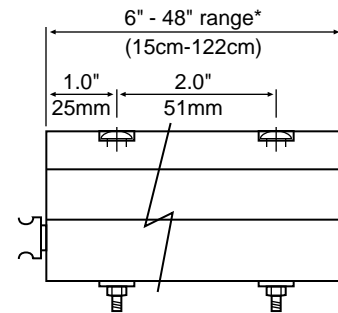
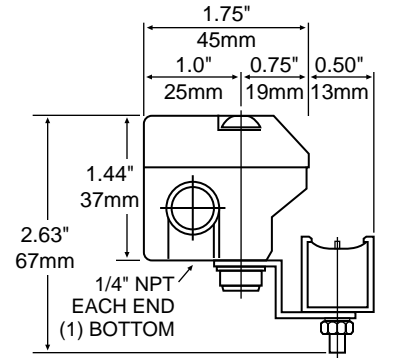
Ionizing Air Knife

Enhanced Performance and Reliability

Ionizing bars work best if mounted within a few inches of an electrostatically charged material. When physical restrictions prohibit a static bar from being mounted close to a problem area, or when dealing with static electricity on irregularly shaped parts, adding an air knife to a static bar will greatly enhance the performance. The combination of these two tools allows the ions to flow into hard-to-reach areas, provides faster static decay rates, and becomes a cleaning tool when used with the right amount of airflow.

The compact ionizing Air Knife uses a small amount of compressed air to carry the ions to the charged surface, up to several feet away. The flow and force are easily controlled by adjustable air regulators. An additional benefit to the Ionizing Air Knife is that there are no moving parts to wear out or replace.

Dimensions



*standard 3" also available

Pressure Supply		Air Consumption*		Sound Level	Dissipates 5Kv**
PSIG	BAR	SCFM	SLPM	dBa	seconds
5	0.3	4	113	39	0.73
10	0.7	7	198	45	0.67
20	1.4	11	311	50	0.49
40	2.8	18	509	60	0.42
60	4.1	25	708	67	0.36
80	5.5	32	906	70	0.30
100	6.9	38	1075	73	0.24

*per foot (30.5cm) of length

** 6" (15.3cm) from target

Features

- Compressed air inlets are provided on each end and the bottom of the Ionizing Air Knife.
- Shims can be easily installed if additional hard-hitting velocity is required.
- Primary air does not impact any surface of the Ionizing Air Knife which keeps the sound level low.
- Closed inner bar protects emitter points to eliminate potential dirt accumulation that could degrade performance or eventually short the ionizing bar.
- Emitter points are sharp, durable stainless steel.
- The power cable is shielded and has integral grounding. The spring loaded connector is fully assembled and ready to use.
- Ionizing Air Knife Kits are available which include all components necessary for operation.

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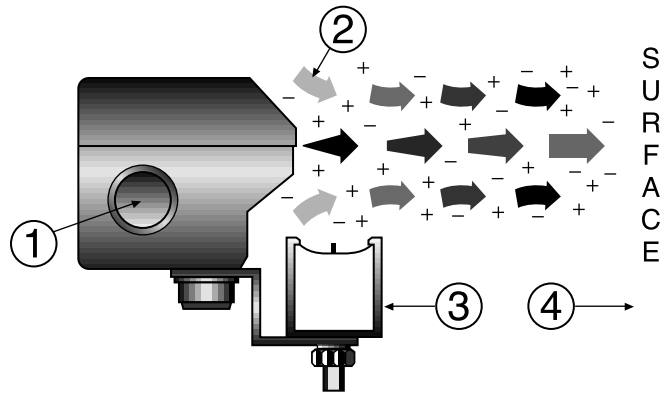
Ionizing Air Knife

Specifications

The Ionizing Air Knife standard lengths are:

3" (5cm)	6" (15cm)
12" (30cm)	18" (46cm)
24" (61cm)	30" (76cm)
36" (91cm)	42" (107cm)
48" (122cm)	

Special lengths up to 48" (122cm) and systems up to 120" (3.05m) are available. (Please contact the factory.) 6' (1.52m) shielded power cable with ground and assembled spring loaded connector are included.



How the Ionizing Air Knife works

Compressed air flows through an inlet (1) into the plenum chamber of the Ionizing Air Knife. Multiple channels inside direct the flow to a precise, slotted orifice. As the primary airflow exits, it creates a uniform sheet of air across the entire length that immediately pulls in surrounding room air (2). An electrically powered ionizing bar (3) fills the curtain of air with positive and negative charges. The airstream delivers these static eliminating ions to the product surface (4) where it is instantly neutralized and cleaned of dust and other particulates.

Power Supply Required: 7.5 Kv Power Supply

Specifications

Type: High voltage, ferro resonant, AC, constant output transformer.

Input Voltage/Frequency:
115 v (230 available) 50/60 HZ

Output Voltage: 7.5 Kv

Input Current: 0.5 amp

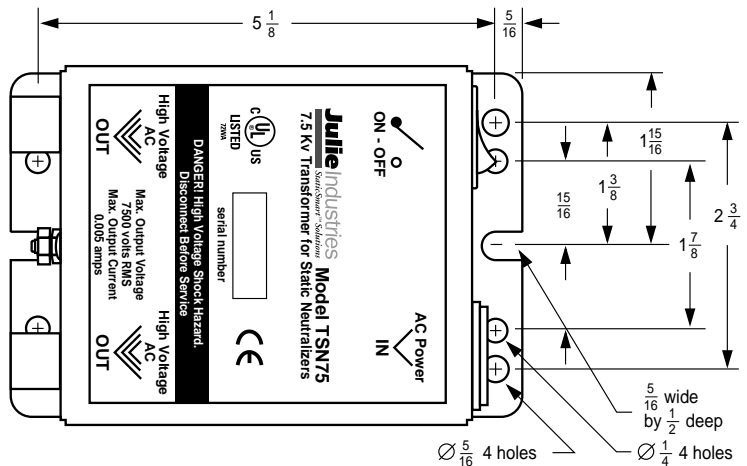
Output Current: 0.0005

Line Cord: 72 inches detachable

Weight: 4.75 pounds

Dimensions:
width: 4 inches
height: 3.5 inches
length: 5.75 inches (including base)

Certifications:



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