

# AC Air Ionizing Nozzle (High Frequency AC)

## Point-of-Use Ionizer with a Very Small Footprint

The BFN-HFN9 air ionizing nozzle combines exceptionally fast static decay capability with excellent balance stability and can be mounted almost anywhere. The ionizing unit is self-contained and operates using compressed air or nitrogen. The HFN9 uses a specialized piezo-ceramic transformer that's very dependable.



## Designed for Industrial Applications

Made of rugged steel and painted with a chip resistant, powder coat process, the BFN-HFN9 is small, but tough. Power and alarm lights further assure optimal performance. Easy to mount, this product is very useful when space is limited.

## Model BFN-HFN9 Ionizing Air Nozzle



**FM0020 .01µ micron filter**

### Clean Performance

The FM0020 micro filter features a hollow fiber membrane that provides excellent filtration and has a long service life. The compact design is easy to install and comes with quick release connections for fast replacement. All materials used are compatible for the most stringent applications.

### Features

- High Frequency AC
- Metal housing
- Quick release air and power cables
- Power and alarm indicators
- Optional 0.01 micron in-line air filter

### Benefits

- $\pm 30$  volt balance; Assured stability over time
- Rugged design
- Easy to set up and use
- Red output alarm illuminates to alert high voltage failure
- Maximizes cleaning potential of the ionizer



**Transforming Technologies,**

*Outstanding Alternatives in Static Control*

# BFN-HFN9 Air Ionizing Nozzle

## Product Specifications

### System Performance

*Discharge Time:* 1.0 Seconds at 6" and 30 psi (1000V to 100V)  
0.5 Seconds at 2" and 60 psi (1000V to 100V)

### Specifications

Unit Part Number: BFN-HFG9  
Power Input: AC 100V~240V, 50/60Hz  
Power Outlet: un-fused, 0.5A or 1.0A max.  
Ion Emission: AC, 68KHz  
Balance:  $\pm 30v$   
Line Current (at rest): 0.01 Amps  
Emitter Point: Tungsten Alloy

*Air Inlet:* 1/4" quick release (female)

*Construction:* Steel with powder coat paint

*Input Pressure:* 84 PSI (6 bar) maximum, clean dry air or nitrogen

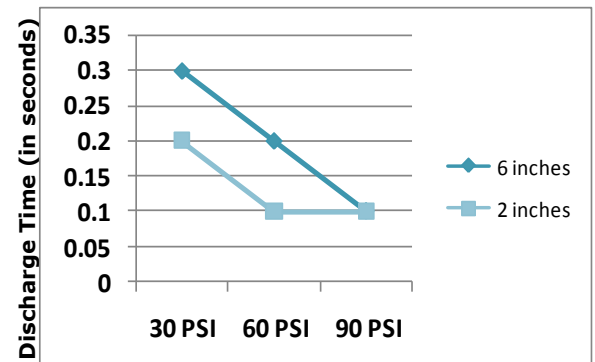
*Tubing:* Polyurethane tubing is recommended

*Air Consumption:* 2.4 SCFM at 30 PSI (68 l/min. at 2 bar)  
4.6 SCFM at 60 PSI (130 l/min. at 4 bar)  
6.3 SCFM at 84 PSI (180 l/min. at 6 bar)

*Size:* 1.25" W x 1.75" H x 4.45" D (32W x 45H x 113D (mm))

*Weight:* 9.2 ounces (260 g)

*Output Pressure:* Pressure relief in nozzle, complies with OSHA requirements.



*Replaceable Filter:* 0.01 micron

*Noise Level:* 70 dB at 30 PSI (2 bar)  
85 dB at 60 PSI (4 bar)  
90 dB at 84 PSI (6 bar)

*Measured 24" (600 mm) from nozzle.*

*Operating Temperature:* 32°F (0°C) to 122°F (50°C)

**Offset voltage and discharge time per ESDA standard S3.1-2006 using a charged plate monitor with a 20pF, 6" x 6" plate. Typical results. 1000 to 100 volts.**

### About Transforming Technologies

Transforming Technologies offers a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are integral components of an effective static control program.

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