

Nuclecel™ In-Line Ionizer

- *Quickly neutralizes static and removes surface particles*
- *Ions constantly balanced at nozzle*
- *Safe and easy to install and relocate*



Shown
Actual Size

Model P-2021

Simple, reliable, efficient and effective, Nuclecel™ In-Line Ionizer Model P-2021 Series controls static while cleaning in compressed air or nitrogen line applications. It helps improve production yields and quality in a number of industries, including electronics, optics, graphics, and finishing.

Easy to install on any clean, dry compressed air or inert gas line, the Nuclecel™ ionizer emits a powerful stream of ions to quickly neutralize electrostatic charges. The ion stream is balanced as it leaves the cell, and does not require a specific distance to achieve proper ion intermix. The device may be operated continuously or intermittently with a remote air line control. It is safe to use in explosive or volatile environments, and gas flow can take place in either direction.

Quick, efficient, and maintenance-free

Gases are ionized as they pass through the Nuclecel™ unit to remove static charges that attract and hold dust and other contaminants. The air stream also removes particles clinging to surfaces and eliminates electrostatic reattraction of contaminants.

By design, Nuclecel™ ionizers never develop an ion imbalance, and do not require any adjustments or maintenance beyond annual replacement of the ion cell.

The Model P-2021 Series is designed to easily install in your process or can be used with accessories such as a gun handle. Please refer to data sheet 2021ACC for mounting accessories. We also offer various versions of the P-2021 ionizer to fit different applications. Call us and we can provide a quotation.

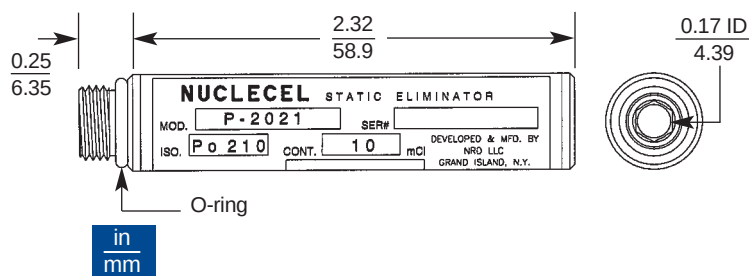


Advanced Static Control Solutions

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Data Sheet P2021.1/00

Model P-2021

Nuclecel™ In-Line Ionizer**Specifications**

Diameter:	0.50" (12.7 mm)
Weight:	1.3 oz. (37 g)
Material:	Stainless steel
Gas:	Clean, dry compressed air or inert gas
Pressure:	Normal: <40 psig (2.8 Bar) Maximum: 100 psig (6.9 Bar)
Temperature:	Maximum Temperature 310° F (155° C)
Isotope:	Polonium-210
Emission:	Alpha
Activity:	10 mCi (370 MBq)
Line Connections:	1/8" - 27 NPSM thread male/female
Decay Rate:	0.7 sec. (per ESD Association Standard 3.1 @ 30 psig, distance 12," 1000 to 100 volts).

Available options and accessories:

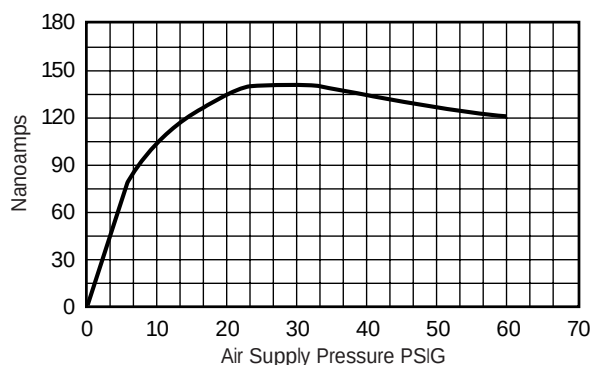
(See Data Sheet 2021ACC)

P-2021-1000, 316 stainless

P-2021-8000, 303 stainless

AD4, Adapter to 1/4" NPT, brass

AD8, Adapter to 1/8" NPT, 316 stainless

Ion Flux

*Ion Flux Monitor 5" dia. electrodes spaced at 1" with 2 KV applied.
Device to IFM 6". Pos. & neg. polarities balanced within $\pm 0.1\%$.
Data corresponds to model P-2021-1000, as pictured.

Air Flow Rates

PSIG (Bar)	SCFM (m ³ /hr)
10 (0.7)	7.6 (12.9)
20 (1.4)	11.0 (18.7)
30 (2.1)	14.4 (24.5)
40 (2.8)	17.8 (30.2)
50 (3.4)	21.2 (36.0)
60 (4.1)	24.6 (41.8)
70 (4.8)	28.0 (47.6)

Note on Ion Source

All NRD ion sources are encapsulated in precious metals by means of a special patented process. This results in a static eliminator which resists oxidation, solvents, heat, cold and vibration.

Note on Ordering

To maintain peak performance and conform to government regulations, ionizers are available on a **one-year lease**. Notification of lease expiration and an offer to renew will be given prior to the end of each year's lease. Upon arrival of a replacement, the expired ionizer is returned to NRD LLC.

Notice: NRD warrants that these materials are reasonably fit for the purpose described. We believe that specifications and technical information presented are based on test methods that produce accurate results. The foregoing limited warranty is expressly made in lieu of, and no other express and no implied warranty of merchantability or fitness for a particular purpose is made. NRD LLC will not be liable for incidental, consequential, special, exemplary or punitive damages. The limited warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, error or failure to properly maintain, clean or repair products.

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