

AEROSOL NEUTRALIZERS

5523-NI | 5522-A

5523-Ni

- Ni-63 radioactive β -source
 - nominal activity 95 MBq
 - aerosol flow rate up to 1 L/min
 - no handling license required¹
 - low maintenance
 - easy to operate and safe
 - compatible with GRIMM SMPS+C and SMPS+E
 - best suited for ambient aerosol measurements
- ¹hazardous goods transportation according to UN 2910; no special measures needed



source type	Ni-63; unsealed radioactive source; cleaning not permitted
ion generation method	beta (β) radiation, maximum energy 66 keV, no photons
nominal activity	95 MBq (+0 / -10%)
half-life	96 y
aerosol flow rate	up to 1 L/min
aerosol medium	air or N ₂
housing	stainless steel with additional lead sheath
size (h x w x d)	18 x 6.9 x 6.9 cm (7.1 x 2.7 x 2.7 in)
weight	2.5 kg (5.5 lbs)

5522-A

- Am-241 radioactive α -source
- nominal activity 3.7 MBq
- aerosol flow rate up to 5 L/min
- low maintenance
- easy to operate and safe
- compatible with GRIMM SMPS+C and SMPS+E
- best suited for various applications



source type	Am-241; sealed radioactive source; covered with gold layer
ion generation method	alpha (α) radiation, maximum energy 5.6 MeV
nominal activity	3.7 MBq
half-life	433 y
aerosol flow rate	up to 5 L/min
aerosol medium	air or N ₂
housing	stainless steel
size (h x w x d)	4.0 x 5.4 x 5.0 cm (1.8 x 2.1 x 2.0 in)
weight	0.6 kg (1.2 lbs)

AEROSOL NEUTRALIZERS

5524-X | 5520, 5520-19"

5524-X

- non-radioactive source
- no transport / storing restrictions
- no particle, electromagnetic waves or ozone generat.
- low maintenance
- easy to operate and safe
- embedded controller
- compatible with GRIMM SMPS+C and SMPS+E
- best suited for various applications



ion generation method

soft X-ray < 9.5 keV

tube acceleration voltage

11kV

equivalent X-ray dose

< 0.13 $\mu\text{Sv/h}$ at 10 cm distance

aerosol flow rate

0.3 – 5 L/min

maximum particle concentration

10^7 p/cm³

aerosol medium

air or N₂

power supply

in: 100 – 240 VAC, 50/60 Hz , out: 12 VDC, 3.33 A

power consumption

7.2 W

cooling

natural cooling with ambient air

size (h x w x d)

19.1 x 7.2 x 27.3 cm (7.5 x 2.8 x 10.8 in)

weight

1.1 kg (2.5 lbs)

5520, 5520-19"

- non-radioactive source
- no license needed
- low maintenance
- easy to operate and safe
- available as mobile (5520) and 19" version (5520-19")
- compatible with GRIMM SMPS+C systems
- best suited for mobile applications



ion generation method

dielectric barrier discharge plasma

high voltage supply

6 – 8 kV; frequency 20 kHz \pm 20%

aerosol flow rate

0.3 L/min

maximum particle concentration

> 10^4 p/cm³

aerosol medium

air (not useable with Ar, N₂ or corrosive gases)

ambient temperature

0 – 40°C (50 – 104°F)

ambient humidity

20 – 9% RH

ambient pressure

700 – 1100 mbar

power supply

100 - 240 VAC, 50/60 Hz

power consumption

15 W

dimensions (h x w x d)

16.0 x 21.0 x 6.5 cm (6.3 x 8.3 x 2.6 in)

weight

1.6 kg (3.5 lbs)