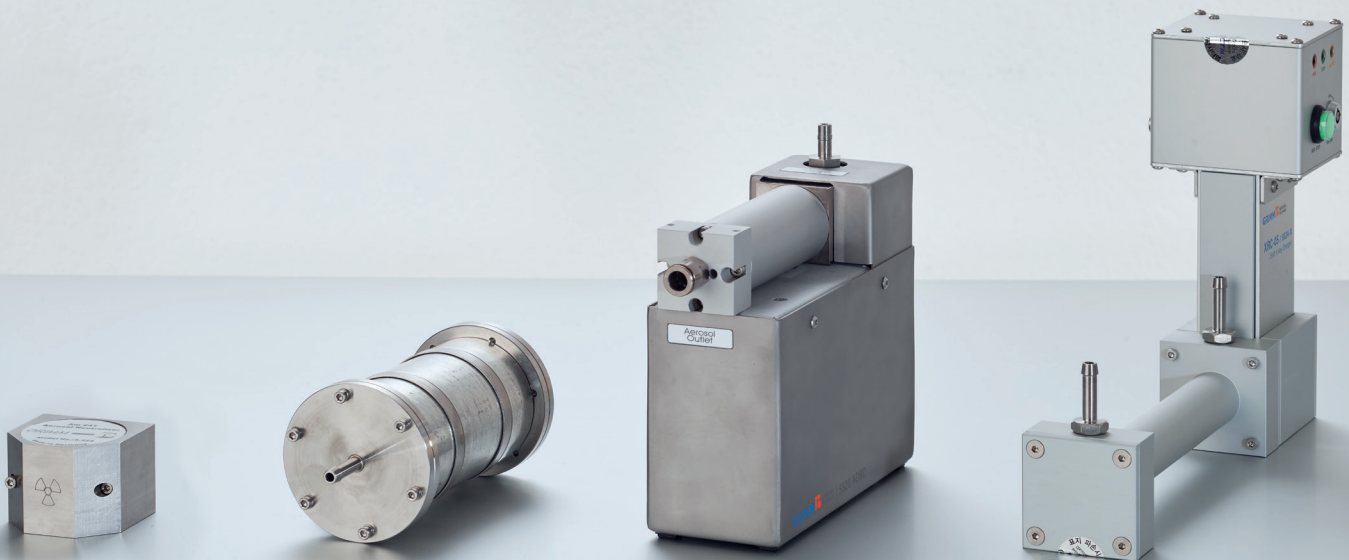


Aerosol Neutralizers

Bipolar ion production with various ionization sources, ensuring a well-defined charging state of the aerosol

- Low maintenance and easy to use
- The right solution for any application
- Radioactive and non-radioactive ionization sources



FEATURES

- Am-241 α radioactive source
- Nominal activity 3.7 MBq
- Maximum energy 5.6 MeV
- Aerosol flow rate up to 5 l/min

TECHNICAL DATA

| | |
|--------------------------------|--|
| Ion generation method | Alpha (α) radiation, maximum energy 5.6 MeV |
| Aerosol flow rate | Up to 5 l/min |
| Maximum particle concentration | Up to 10^7 particle/cm ³ |
| Aerosol medium | Air or N ₂ |
| Source type | Am-241; sealed radioactive source; covered with gold layer |
| Nominal activity | 3.7 MBq |
| Half-live | 433 y |

BENEFITS

- Optimized to be directly connected to GRIMM DMAs
- Compatible with GRIMM SMPS+C and SMPS+E systems
- Low maintenance
- Easy and safe to operate

| | |
|------------------------|-------------------------------------|
| Housing | Stainless steel |
| Dimensions (h x w x d) | 4 x 5.5 x 5 cm (1.6 x 2.2 x 2 inch) |
| Weight | 0.55 kg (1.2 lbs) |



FEATURES

- Ni-63 β^- radioactive source
- Nominal activity 95 MBq
- Maximum energy 66 keV
- Aerosol flow rate up to 1 l/min

TECHNICAL DATA

| | |
|--------------------------------|---|
| Ion generation method | Beta (β^-) radiation, maximum energy 66 keV, no photons |
| Aerosol flow rate | Up to 1 l/min |
| Maximum particle concentration | Up to 10^7 particle/cm ³ |
| Aerosol medium | Air or N ₂ |
| Source type | Ni-63; unsealed radioactive source; cleaning not permitted |
| Nominal activity | 95 MBq (+0/-10%) |
| Half-live | 96 y |

BENEFITS

- No handling license required* as activity below 100 MBq
- Compatible with GRIMM SMPS+C and SMPS+E systems
- Low maintenance
- Easy to operate and safe

| | |
|------------------------|--|
| Housing | Stainless steel with additional lead shielding |
| Dimensions (h x w x d) | 18 x 6.9 x 6.9 cm (7.1 x 2.7 x 2.7 inch) |
| Weight | 2.5 kg (5.5 lbs) |



* One exemplar only allowed. Check local radiation protection directive.

FEATURES

- Non-radioactive source
- Dielectric barrier discharge plasma
- Aerosol flow rate 0.3 l/min
- Maximum particle concentration 10^6 particle/cm³

TECHNICAL DATA

| | |
|---------------------------------------|---|
| Ion generation method | Dielectric barrier discharge plasma |
| Aerosol flow rate | 0.3 l/min |
| Maximum particle concentration | Up to 10^6 particle/cm ³ |
| Aerosol medium | Air (not useable with N ₂ , Ar or corrosive gases) |
| Ambient temperature | 0 ... 40 °C (50 ... 104 °F) |
| Ambient humidity | 20 ... 95% RH |
| Absolute pressure range | 700 ... 1 100 mbar |

BENEFITS

- Available as mobile (5520) and 19" version (5520-19")
- Compatible with GRIMM SMPS+C systems
- No transport/storing restrictions
- Easy and safe to operate

| | |
|-------------------------------|---|
| Power supply | 100 ... 240 VAC, 50/60 Hz; 15 W |
| Dimensions (h x w x d) | 18.0 x 6.9 x 6.9 cm (7.1 x 2.7 x 2.7 inch) |
| Weight | 2.5 kg (5.5 lbs) |



5524-X | 5525-X | SOFT X-RAY AEROSOL NEUTRALIZER

FEATURES

- Soft X-ray ion generation
- Non-radioactive source
- Maximum particle concentration 10^7 particle/cm³
- No particle, electromagnetic waves or ozone generation

TECHNICAL DATA

| | |
|---------------------------------------|--|
| Ion generation method | Soft X-ray |
| Energy level | 5524-X <11 keV 5525-X <4.99 keV |
| Aerosol flow rate | 5524-X: 0.3 ... 5 L/min 5525-X: 0.3 ... 1.5 L/min |
| Maximum particle concentration | Up to 10^7 particle/cm ³ |
| Aerosol medium | Air or N ₂ |
| Equivalent X-ray dose | <0.13 µSv/h at 10 cm distance |
| Cooling | Natural cooling with ambient air |

BENEFITS

- Available with <11 keV or <4.99 keV energy
- Compatible with GRIMM SMPS+C and SMPS+E systems
- No transport/storing restrictions
- Easy and safe to operate

| | |
|-------------------------------|--|
| Power supply | 100 ... 240 VAC, 50/60 Hz; 7.2 W |
| Dimensions (h x w x d) | 19.1 x 7.2 x 27.3 cm (7.5 x 2.8 x 10.8 inch) |
| Weight | 11.1 kg (2.45 lbs) |



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