

New Soft X-Ray Charger XRC-05

HCT's Soft X-ray Charger (XRC) neutralizes the irregular charged particles of the atmosphere to Ion balance $\pm 0V$.

The XRC-05 is a Bipolar charger that provides Soft X-ray's instead of a radioactive source such as Am241 (Americium-241), Kr85 (Krypton-85), Po210 (Polonium-210). Soft X-ray's are easily absorbed even by a thin layer of air and has low permeability. The energy of Soft X-ray is approximately 1/3,000 lower than X-ray and is absorbed by the surrounding air. Other radioactive materials such as Am241, Kr85 and Po210 adversely affect human health and the surrounding environment and require close supervision and more strict licensing policies. Soft X-ray's have been widely used for anti-static applications. The XRC-05 is safe, easy to use and requiring minimum maintenance and is easy to import for us in scientific applications such as aerosol research.

Features and Benefits

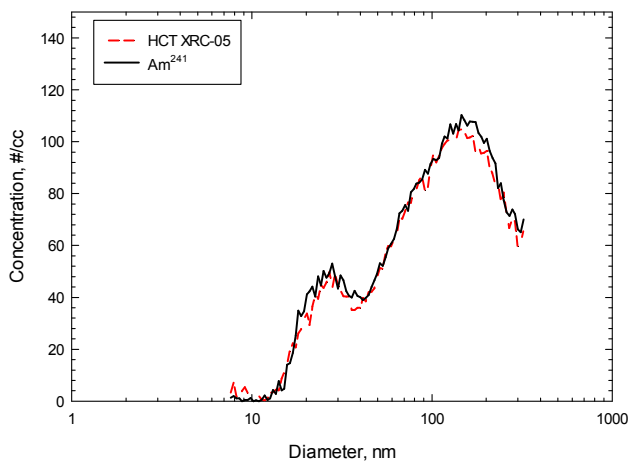
- Easy to Operate, Safe and Simple
- No particles, electromagnetic waves or ozone generation
- Environmentally safe non radioactive source
- Low maintenance
- Compressed air isn't required
- Imbedded Controller ; No transportation restrictions simplifies handling
- Compatible with HCT model SNPS-20 (05)

Applications

- Particle charging investigations
- Particle generation
- Micron particle sizing



[SNPS distribution data, atmospheric aerosol]



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Specification

Ion Generation Method.....: Soft X-ray <9.5 keV
 Source.....: Soft X-ray tube
 Flow Rate Range.....: to 4 L/min
 Equivalent X-ray Dose.....: < 0.13 μ Sv/h at 10 cm distance
 Aerosol Medium.....: Air or N₂ only
 Power Consumptions.....: 7.2W
 Cooling Method.....: Natural cooling
 Aerosol ports.....: ¼ in O.D.
 Weight.....: 1.11 kg /2.45 (lbs)
 Input Power.....: AC100~240V, 50/60Hz,
 (Adaptor Input) DC 12V, 3.33A
 Warranty: 1 year
 Dimension (LWH).....: 273 X 72 X191 mm
 (10.8 x 2.8 x 7.5 in)

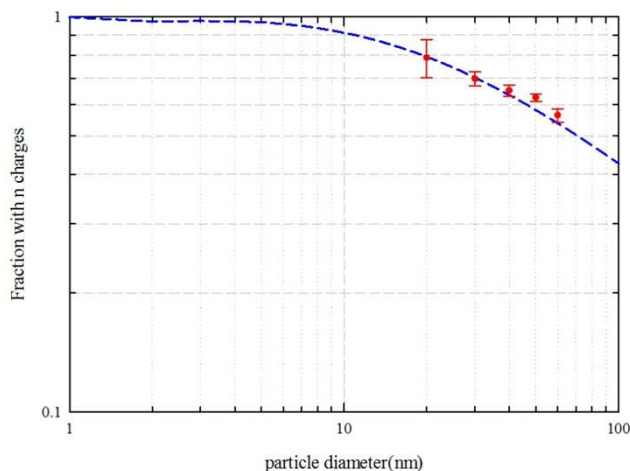
☞ Accessories (It is included in the XRC-05)

- 2302002 DC 12V Adapter & power cord
- 2302004 Safety Key

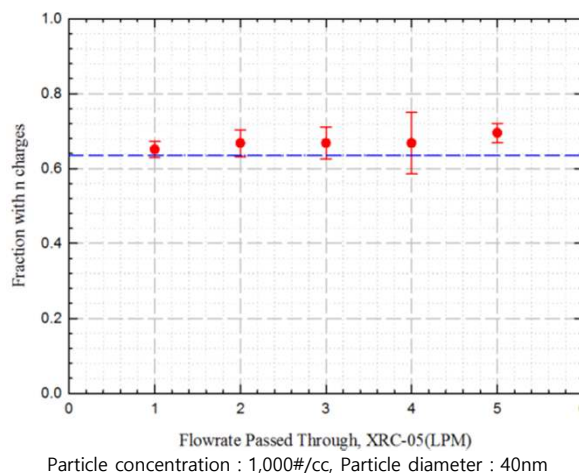
• The XRC-05 is qualified as a <Fully Protective Type> according to the Safety Act. Thus, it can be safely used since a separate radiation shield is not required.

• The XRC-05 has a useable lifetime of 10,000 hours. To maximize the lifetime of the unit it off when not in use. If the XRC-05 lifetime has expired the LED turns yellow. Return the XRC-05 to HCT or it's authorized representative for repair and calibration.

XRC-05 Performance Test
According to Particle Size



XRC-05 Maximum Flowrate Efficiency



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