

# SOFT X-RAY AEROSOL NEUTRALIZER SXAN 4915A

NONRADIOACTIVE SOURCE  
AEROSOL NEUTRALIZER



## SOFT X-RAY AEROSOL NEUTRALIZER - SXAN 4915A

The Soft X-ray Aerosol Neutralizer - SXAN 4915A is a bipolar diffusion charger with balanced levels of positive and negative ions to neutralize electrostatic charges on aerosol particles. It makes the particles have a Boltzmann equilibrium charge distribution. It uses a soft X-ray ionizer instead of  $^{85}\text{Kr}$ ,  $^{210}\text{Po}$  and  $^{241}\text{Am}$  radioactive isotope. The control device helps easily turn on and off soft X-ray emission. The Soft X-ray Aerosol Neutralizer - SXAN 4915A designed to fit into a 3082 classifier.

## FEATURES

- + Nonradioactive alternative to  $^{85}\text{Kr}$ ,  $^{210}\text{Po}$  and  $^{241}\text{Am}$  aerosol neutralizers
- + No restrictions for buying, using, and handling
- + Easily turned on and off soft X-ray using dedicated control device
- + Bipolar diffusion charger balanced levels of positive and negative ions
- + No particle generation

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# SOFT X-RAY AEROSOL NEUTRALIZER

## SXAN 4915A

# SPECIFICATIONS

### Neutralize Method

Bipolar diffusion charging using soft X-ray.

### Ion Generation Source

Source	Soft X-ray Tube
Voltage	4.9 kV
Current	400 $\mu$ A
Lifetime	>4,500 hours

### Flow Rate Range

0.3 to 5.0 L/min

\* For flow rate  $\geq$  0.3 L/min, using clean air. Air containing reactive and/or condensable gases or vapors can lead to higher particle production rates.

### Equipment Operating Conditions

Temperature Range	0 to 50°C (32°F to 122°F)
Humidity Range	35% to 85% RH non-condensing

### Power

Input	100 to 240 VAC, 50/60 Hz
Power Consumption	Max. 50 W

### Inlet and Outlet Tubes

1/4 in O. D.

### Dimensions (H x W x D)

Soft X-Ray Aerosol Neutralizer	358 mm x 143 mm x 50 mm (14.1 in. x 5.63 in. x 2.0 in.)
Controller Device	44 mm x 163 mm x 113 mm (1.7 in. x 6.4 in x 4.4 in.)

### Weights

Soft X-Ray Aerosol Neutralizer	1.45 kg (3.2 lb.)
Control Device	0.46 kg (1.01 lb.)

The soft X-ray source in the Soft X-Ray Aerosol Neutralizer – SXAN 4915A has a lifetime of approximately 4,500 operating hours. Since the device can be turned off when not in use, the neutralizer has an operating lifetime of many years for most applications. An elapsed operating lifetime is indicated in the control device. When the operating lifetime is reached, return the neutralizer to PINE for repair and calibration.

The appearance and specification of the product may be changed without prior notice for the improvement of the product.