

PRECISION BAR 25

High-tech ioniser for ESD applications



Key Facts

- ✓ **Compact ionisation system** with integrated high-voltage power supply and 24 V DC supply voltage
- ✓ **Powerful ESD ionisation bar**
- ✓ **ESD compliant:** Ongoing offset voltage of less than 35 V according to standard DIN EN 61340-5-1
- ✓ **Compressed air-assisted ion transport** to increase range with minimum compressed air consumption
- ✓ **High-frequency technology** ensures optimally adapted discharge performance

Product Description

PRECISION BAR 25 sets new standards in electrostatic discharge design and function for ESD applications. This ionisation system has been designed especially for use in high-tech applications and meets the high ESD requirement. The units comply with IEC 61340-5-1, with a residual charge (ionic balance) < of 35 V. The compact ionisation system includes an integrated HV power supply and a dedicated control unit with LED status display and control station signal to indicate the operating status. Our PRECISION BAR high-frequency technology ensures a discharge performance that is optimally adapted.

The PRECISION BAR 25 ionisation systems generate positive and negative ions, which are evenly distributed via an integrated blowing bar; the ionised airstream thus neutralises any existing charges on ESD-sensitive components. The high-voltage power supply and monitoring system are built in to enable space-saving and easy system integration.

- For ESD applications with a residual charge (ionic balance) < of 35 V
- Interchangeable, air-purged tungsten emitters
- Safe to the touch for users
- Optical function and error signals via LED status display
- The “Clean Me” function monitoring signal alerts you to the need for cleaning
- Status signal for external function monitoring
- Integrated compressed air monitoring

Technical Data

SIP25	
Version	ESD applications
Cleanroom class	ISO 4
Working width	100 – 1000 mm
Working width increment	50 mm
Working distance (min. – max.)	20 – 200 mm
Residual charge (offset voltage)	< 35 V
Operating voltage	24 V (DC)
Current consumption (max.)	0.3 A
Operating air pressure for ionisation (min. – max.)	0.2 – 4.0 bar
Type of compressed air connection for the ionisation system	Ø 8 mm
Ambient temperature (min. – max.)	0 – 55 °C
Weight	<ul style="list-style-type: none">100 mm: 90 g200 mm: 120 g300 mm: 190 g400 mm: 230 g500 mm: 300 g600 mm: 330 g1000 mm: 550 g
Conveying direction (uni-/bi-/multidirectional)	bi-directional

Technical Drawings

SMART ION PRECISION 25



Air Consumption

Compressed air consumption for ionisation

Working width	Number of emitter assemblies	NI/min at operating pressure				
		0.5 bar	1.0 bar	2.0 bar	3.0 bar	4.0 bar
100 – 260 mm	1	50	72	108	143	180
270 – 460 mm	2	100	145	223	300	380
470 – 660 mm	3	138	195	300	393	500
670 – 860 mm	4	162	231	363	486	600
870 – 1000 mm	5	193	273	424	566	720

TECHNOLOGY

PRECISION

Where highest accuracy is a must, PRECISION delivers perfect results. Learn more about the innovative technology behind it.



Related Products



ELFI 1

Compact static field strength meter for analysis of static electricity