DIT ESD Solutions

Smart Factory + DIT ESD Solutions



ESD Line up

Bar Type Ionizer

Typo	Series	Fred lency	Size	HVPS	Controller	Length(mm)	Application	Distance		
Туре	Sei les	Frequency	Size	пурэ	COLITICALE	Length(mm)	Application	1m	2m	
	ASG-P	29KHz	Slim	Built-in	Built-in	350~3000	Air Injection (CDA)			
H/F AC	ASG-PG	29KHz	Slim	Built-in	Built-in	250~300	Short/Medium Distance (within 500mm)			
	ASM-P*	29KHz	Slim	Built-in	Outer	150~3000	Very Good Ion Balance			
	ASG-A	0.5~60Hz (Adjustable)	Slim	Built-in	Built-in	500~3000	Air la instinu (CDA)			
	ASM-A*	0.5~60Hz (Adjustable)	Slim	Built-in	Outer	300~3000	Air Injection (CDA) Medium/Long Distance (within 200~2000mm) General Purpose			
Pulsed AC	ASR-A*	0.5~30Hz (Adjustable)	Ultra Slim	Outer	Outer	150~3000	General Ful pose			
	ASG-AU*	0.5~100Hz	Slim	Built-in	Built-in	450~3000	Air Injection (CDA) Optimum performance at ultra- close static removal distances (10~100mm)			
	MB-L (Laminar Flow)	0.1~10Hz (Adjustable)	Normal	Built-in	Built-in	250~1500	• No Air Injection • Under EFU/FFU			
	MB-LS (Laminar Flow)	0.1~10Hz (Adjustable)	Normal	Built-in	Built-in	400~1000	Specialized in Room Ionizing			

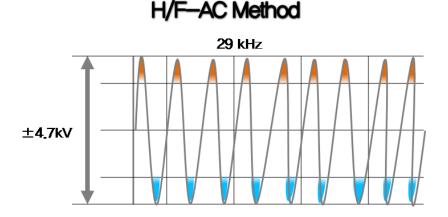
ESD Line up

Ion Blower/Nozzle/Gun

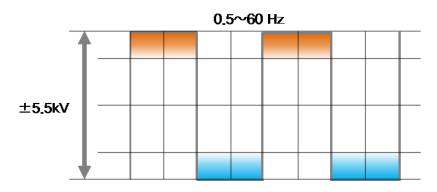
Tymo	Corino	Fan Series size		Fan F	Fraguera.	Airflow	lon	Decay	Features	Appliantion	Distance		
Type	Series	(mm)	Cleaning		Frequency	(per1 fan)	Balance	Time	reatures	Application	1m	2m	
Pulsed AC	AMF-AE	140	Auto Cleaning	1~3	10~50Hz	Max. 6.425m³/ min		≤1sec @300mm	 Stable Ion Balance Module Assembly Type Various Combination Available Easy Maintenance Auto Pin Cleaning Function 				
	ASF-AD	120	Auto Cleaning/ Manual Cleaning	1	10~50Hz	Max. 4.6m³/ Min	Under ±30V		 Stable Ion Balance Single Fan Type Easy Maintenance : Auto Pin Cleaning Function Separated Rare Fan Cover 	No Air Injection Short/Medium /Long Distance			
	MF-A90	90	N/A	1~5	10Hz	Max. 1.75m³/ min		≤2sec @300mm	Stable Ion BalanceModule Assembly TypeVarious Combination AvailableEasy Maintenance	General Purpose Class over 1000	_		
	ASF-PD	120	Auto Cleaning/ Manual Cleaning	1	29KHz	Max. 4.6m³/ Min		≤1sec @300mm	 Stable Ion Balance Single Fan Type Easy Maintenance : Auto Pin Cleaning Function Separated Rare Fan Cover 		7		
H/F	MF-90/95	90	Auto Cleaning/ Manual Cleaning	1~5		Max. 1.75m³/ min	Under ±10V		≤2sec @300mm	Stable Ion BalanceModule Assembly TypeVarious Combination AvailableEasy Maintenance			
AC	SF-40	40	N/A	1	50kHz	Max. 0.27m³/ Min		≤1.5sec @150mm	Stable Ion BalanceCompact SizeHigh voltage alarm outputEasy Maintenance	Air Injection (CDA) Short Distance (within100~400mm) General Purpose Class 1000			
	ZM-G (Nozzle/Gun)	-	-	-	50kHz	128L/ cm ² [0.3pa]	Under ±15	≤1sec @ 150 mm	 Air Injection (CDA) Very Short Distance (within 100mm) General Purpose Class 100 	Air Supply (CDA, N ₂) Optimized for Close range Class 100			

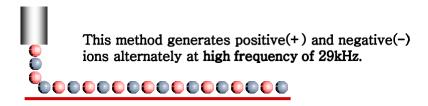
Ionizer Method

Comparison of high-frequency AC and pulsed AC types



Pulsed-AC Method





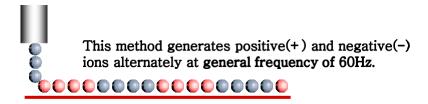
High Frequency AC type is suitable for medium-short distance.

*Recommended distance is,

-Bar type(G/P Series): within 500mm

-Fan type: within 500mm

-Nozzle/Gun type: within 100mm



Pulsed AC type is suitable for medium-long distance.

*Recommended distance is,

-Bar type(A, L Series): 200mm~2000m

-Fan type: within 500mm

**** Above data can be changed with operating environment and product setting.**



ESD Line up

Electrostatic Meter

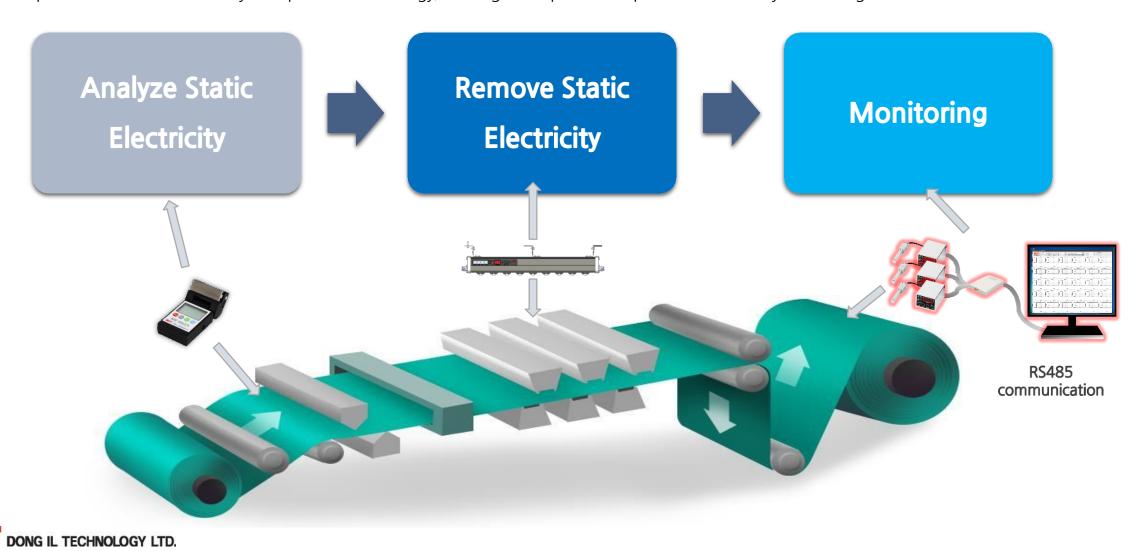
Туре	Series	Sensor	Mode	Distance	Range	Resolution	Application
		Oscillating Chopper Type(DIT)	Precise mode	25mm(±0.5mm)	±2kV(±10%)	10V (-9.99kV~+9.99kV)	Measuring Both Electrostatic Level and Ion
Hand-held Field meter			Expanded mode		±20kV(±10%)	100V (≤10.0 kV~≥10.0kV)	Balance Real time monitoring and data logging Function (USB communication)
	ARS-H002ZA		Ion Balance mode		±300V(±10%)	1V	
Stationary	ARS-S005	Oscillating Chopper Type(DIT)	Precise mode	25mm(±0.5mm)	±2kV(±5%)	1V	Measuring Electrostatic Charging Status on the Target Surface
Field meter			Expanded mode	50~100mm(±0.5mm)	±20kV(±10%)	10V	Monitoring up to 30 units in real time with one computer (RS-485 communication)
Ion Balance Checker	ARS-M002ZA	Oscillating Chopper Type(DIT)	Ion Balance mode	Measureaccordingtothe electrostaticdischarge distance	±100V(±10%)	1V	Compact Size Real time Analog output (RS232communication)

Туре	Series	Sensor	Mode	Accuracy	Time Resolution	Decay time (adjustable)	Application
Charged Plate Monitor	1000000	Oscillating Chopper Type(DIT)	Ion Balance mode	Start/Stop-Accuracy:≤ settingvalue±1V	0.1 sec / 0.1~999.9 sec	It i valu	Measuring Both Ion Balance and Decay Time It is possible to check and save a measured value on PC with free software (USB communication)
riolitoi	ARC-P102ZA		Decay Time mode				Plate Handle Structure Compact controller Light weight & Portability

DIT Advantage

Static Electricity Monitoring/Control Solutions

DIT Develops and manufactures entirely with pure DIT technology, offering a complete line-up of static electricity monitoring and control solutions.



ESD Application

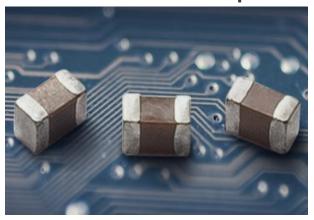
Semiconductors



ESD Application



MLCC and Precision components



PCB



Secondary battery



Benefits



Improved Portability

Minimized structure



Manufactures the entire process. Strong capability of technical response



High Accuracy

High Accuracy for measuring ESD environments



Diverse Line-up available to suit different environments



Free Software

Real Time Monitoring in Computer



We are offering competitive price to customers



ELECTRICAL PARTICULATE FILTER



DIT E.P.F

ELECTRICAL PARTICULATE FILTER

ELECTRICAL PARTICULATE FILTER

feature

- ✓ Powerful dust removal capability and high breathability Electric particulate filter
- ✓ Installed and used in areas with contamination issues in cleanrooms, equipment, etc. (replator HEPA filters)



✓ Capable of collecting all types of dust and preventing the re-entrainment of collected dust

Specification

		VQ3-100X1			
	1 Cell	2 Cells	3 Cells	1 Cells	
Input Voltage		24VDC			
Input Current (Filter+Fan)	Max 1.25±0.15A	Max 2.50±0.30A	Max 3.75±0.45A	Under 400mA	
Dust Collecting Rate		,			
Size(mm)	272*312*45 272*312*80(Fan)	272*580*45 272*580*80(Fan)	272*848*45 272*848*80(Fan)	175* 140* 80	

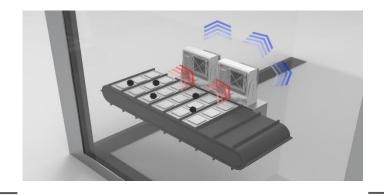
How it works



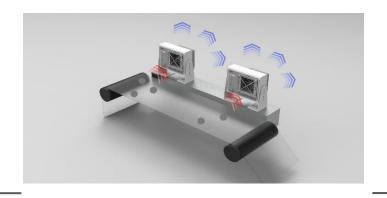
E.P.F is a method in which a positive(+) or negative(-) charge is applied to the particles using corona discharge by direct current high voltage so that they are collected to the opposite polarity of the dust collecting part

E.P.F Application

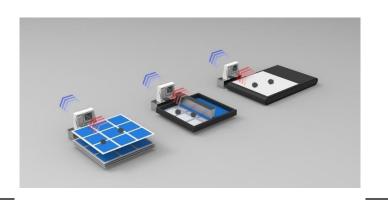
Semiconductors



Film manufacturing



MLCC



Pharmaceutical/food packaging process



Benefits



Semi-Permanent

Washable and Reusable



Efficient Energy Use

Low-power product design



Minimized Fan Noise



Excellent Dust Removal

Excellent Purification Performance with Minimal Airflow Loss



Customers

Semiconductor

SAMSUNG















SAMSUNG DISPLAY















SAMSUNG ELECTRO-MECHANICS



SAMSUNG SDI









DONG IL TECHNOLOGY LTD.

Address: 28, Namyang-ro 930beongil, Namyang-eup, Hwaseong-si, Gyeonggi-do, Republic of Korea

Tel: +82-31-299-5454