



WINSTAT BF-2MA-LV

FEATURES

- Below ±1 Volt ion balance control
 In clean room evaluations, the BF-2MA-LV maintains a reduced operating voltage of ±1 volt and below without the need for maintenance up to one month.
- Controllable Ion balance voltage
 Based on SSD HDC-AC-LV
 technology, the BF-2MA-LV includes
 controllable ion balance functionality
- Safety Front Louver With detachable front louver, the BF– 2MA-LV allows for easy maintenance. When the louver is OFF, all functionality will cease automatically, guaranteeing safety.
- Seamless controllable air speed
 Air speed can easily be controlled
 for every applications.
- Fan Alarm functionality
 If problems with fan functionality arise, a RED LED alarm displays
- Pulse discharge Alarm function
 When abnormal discharge occurs, the BF-2MA-LV displays a RED LED alarm and an output signal sounds.
- Over Current Alarm function
 If any over-current occurs, the
 BF-2MA-LV displays a RED LED alarm and output signal alarm sounds.

Ultra Low Ion-Balanced Ionizer

SSD New technology HDC-AC-LV performs ultra low ion-balancing below 1 volt without feedback from a sensor. Model BF-2MA-LV is our desktop type ionizer designed for stable ion performance over a longer period of time, compared to competition models.





High Reliability

HDC-AC technology allows for longer maintenance cycle for ionizer emitter cleaning. (After 2500 hours stays stable)

Easy Maintenance

While maintenance is fairly low, the BV-2MA-LV includes a detachable front louver for easy access

Safety functions

Features "Pulse Discharge alarm", "Over current alarm", "Interlocked alarm (front louver off)"

Less Ozone

Maintains a low Ozone level below 0.003ppm.



■ FEATURES & SPECIFICATIONS

①Ultra Low Ion Balance performance

•Without a Sensor Feedback, keeps good ion-balance. (In Clean room test, keep below 1 volt for one month) Controllable Ion-balance functionality.

2 High Reliability

•Long time stable ion performance with SSD HDC-AC.

3 Maintenance performance

• Maintenance period is longer than other Ionizers.

4 Safety Functions

- · Abnormal alarm for high voltage output and fan issue
- · Also includes audible alarm output signal.

(5)Less Ozone

Lowest Ozone level than any AC ionizers

6Easy replace of emitter units

• No tools required for emitter point cleaning

①Low EMI

· With low EMI, it's the ideal choice to work with Sensitive **Electronic Devices**

8 For Clean Rooms application

•With Material SUS304, it's rated for Clean Room use.

Model Name	BF-2MA-LV
Input Power	DC24V (Attached AC Adaptor available forAC100~240V)
Capacity	10VA
Output Voltage	± 7500V _{0-p}
Ion Balance	Below ±1 Volt (Factory test) Ion Balance performance will be changed by Environment
Air Volume	1.2~3.2m³/min
Air Speed	1.8∼3.8m/s (Distance: at 300mm center)
Ozone Level	Below 0.003ppm (Distance: at 6")
Available Environment	0~40°C / 15~85%RH (Without any condensations)
Output Signal	MOS FET relay non voltage contact output (Nomaly Closed) HV Alarm(P.D./O.C.) or Fan Abnormal alarm(Fan Lock)
Dimensions	150 × 170 × 75mm (5.90 x 6.70 x 2.95") (W × H × D)
Weight	Approximately 1500g; 3.3 lbs (with Bracket)
Materials	Main Body Bracket Knob Bolt: SUS304
	Discharge Emitter: Tungsten (Titanium: Optional)
Accessories	Operation manual, AC Adaptor, Signal Cable, Cleaning Brush
Optional part	Tungsten Emitter Unit (DNU-W33) Titanium Emitter Unit (DNU-T33)

Decay Performance & Ion Balance (Reference data)

Decay	Derformance	from +	- 1000\/ +0	+100\	() shows Negative Decay
Decay	er formance	irom <u>i</u>	_ 1000		() Shows Negative Decay

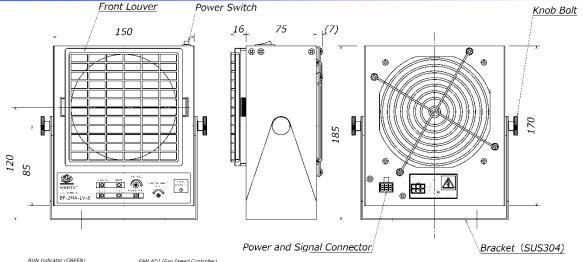
Distanc	ce(mm)	300	600	900	1200
Decay time (Sec)	Maximum Air Speed	0.6(0.8)	1.2(1.6)	2.1(2.8)	3,2(4.6)
	Minimum Air Speed	1.3(1.6)	2.5(3.6)	4.6(7.0)	8.0(10.2)

Decay Performance from $\pm 1000 V$ to $\pm 10 V$ () shows Negative Decay

Distance(mm)		300	600	900	1200
Decay time (Sec)	Maximum Air Speed	1.4(1.5)	2.4(3.2)	3.9(5.4)	6.0(8.4)
	Minimum Air Speed	2.4(3.1)	4.7(6.4)	8.4(11.6)	12.8(18.8)

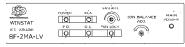
- (*1): Tested by CPM with \square 150mm, 20pF plate
- (*2): Decay time is from $\pm 1000 \text{V}$ to $\pm 100 \text{ volts}$ (Followed by IEC61340 standard)
- (*3): Above data is reference not guaranteed value.

5 4 Ion Balance 3 2 Balance (V) 1 0 -1 <u>o</u> -2 -3 -5 10 15 30 Time (Second)



POWER Indicator (ON: GREEN)

Main Power LED (ON: GREEN, OFF: RED)



P.D. (Pulse Discharge Alarm: RED)

Ion Balance ADJ. (Ion Balance Controller)

O.C. (Over Current Alarm: RED)

FAN LOCK (Fan Lock Alarm: RED)

Front Panel Indicators

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