

**STAT·CLEAN B-series**

Static electricity removing AC pulse ion bar CE RoHS

**ULTIMATE BAR**

The ultimate in user-friendliness. AC pulse ion bar.



**B-60** (EDP No. 621511)

**B-90** (EDP No. 621512)

**B-95** (EDP No. 621513)

**B-100** (EDP No. 621514)

**B-120** (EDP No. 621515)

**B-140** (EDP No. 621516)

**B-150** (EDP No. 621517)

**B-160** (EDP No. 621518)

**B-180** (EDP No. 621519)

**B-210** (EDP No. 621520)

**B-220** (EDP No. 621521)

**B-230** (EDP No. 621522)

**B-260** (EDP No. 621523)

**B-280** (EDP No. 621525)

**B-300** (EDP No. 621524)

**CE RoHS**

# The approach to better quality...

Static electricity removing AC pulse ion bar series



## Ion balancing mechanism

Works with diverse applications! High precision ion balancing.

**During use** The LEDs flash repeatedly in synch with the frequency.

**Address setting** 16 types of addresses can be set.

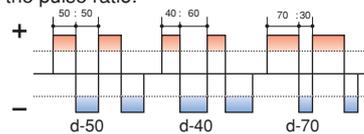
A-0 1-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16

**Frequency setting** The frequency can be ideally set according to the distance to the charged target.

F-10-30-50-80-10-20-30

**Pulse ratio setting** Ion balancing can be ideally set by adjusting the pulse ratio.

d-40~50~60~70



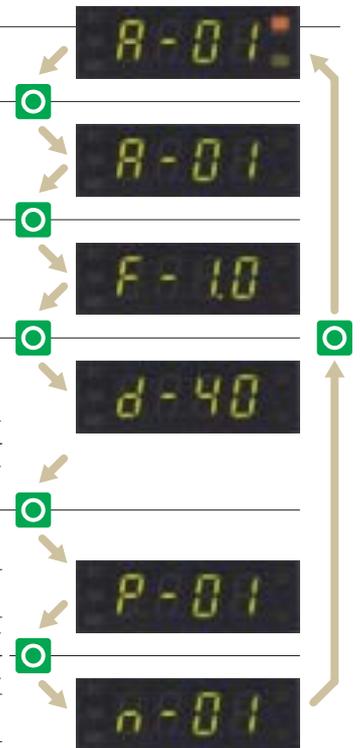
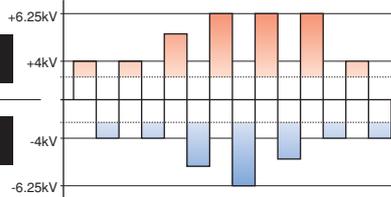
**Voltage output setting** The amount of +/- voltage applied to needle electrodes can be set.

+ ion voltage setting

P-0 1-02-03-04-05-06-07-08-09-10

n-0 1-02-03-04-05-06-07-08-09-10

- ion voltage setting



## Ultrawide static electricity removal area

**AC bar of other manufacturer**  
Few ions reach the ends of the bar, therefore static electricity removal speed drops greatly.

**Static electricity removal speed**

- Within 3 sec
- Within 5 sec
- Within 10 sec

Static electricity removal performance on the ends was improved by changing the interval between needle electrodes.  
(Adopted with B-90 and longer models)

36.5 36.5 36.5 55 55 55 55 55 (mm)

※ Static electricity removal area is based on our measurement environment. Actual length may differ according to conditions of use.



## Pursuing ease of use

### Low maintenance design

The needle electrode unit is easily detached by just twisting. Maintenance and cleaning are easy. The low maintenance design ensures minimal particle adhesion to needle electrodes.



Start After 4 weeks (28 days) After 17 weeks (119 days) Particle adhesion

### Needle electrode cleaning warning

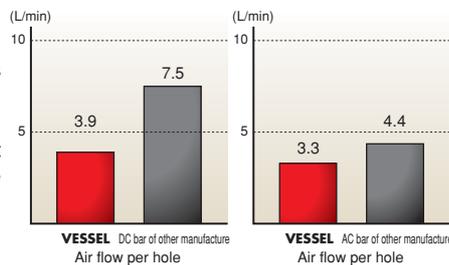
Needle electrode contamination is constantly monitored by detecting ion current. If ion generation declines, the LEDs and warning signals notify users of the need for needle electrode maintenance.



### Air purge

Static electricity removal performance is enhanced by air flow. (Clean dry air / N<sub>2</sub>, Max. 0.5 MPa)

Deodorizing air flow is deliberately kept low to conserve energy. Simply remove the plugs from either end to supply air. The bar can be used with air flow.



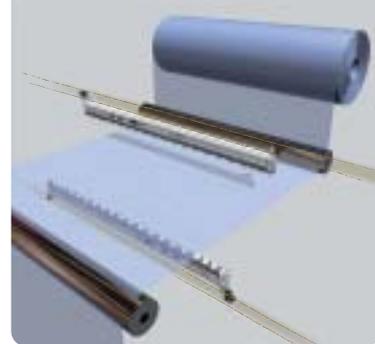
### Card-type remote controller

Thin enough to fit in pockets. The ion bar can be controlled from distant locations. (Frequency / Pulse ratio setting)



## Designed for safety

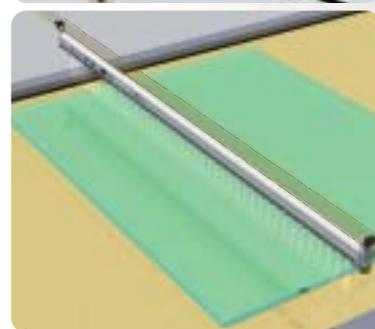
- Uses a low 24V DC input, therefore the bar can be easily and safely installed in automated equipment.
- Equipped to prevent abnormally high voltage and monitor for ion current drops. Warning signals can be output to external points as well.
- Compliant with CE EMC directives. The bar generates little noise and has little if any affect on other equipment.



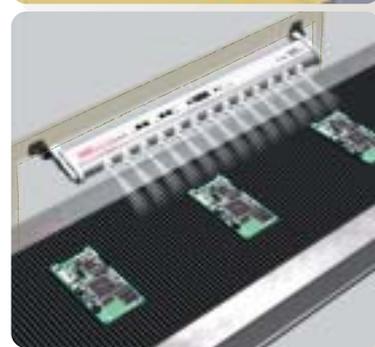
Installed height from target: 50mm  
**F-30**  
 Frequency setting: 30Hz  
**d-52**  
 Pulse ratio setting: 52%  
 No air



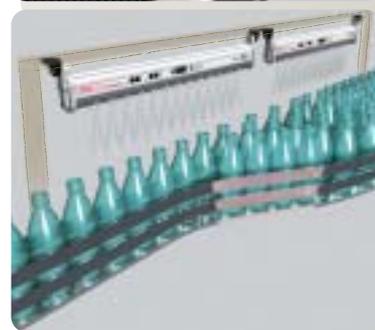
Installed height from target: 500mm  
 Air pressure: 0.5MPa  
**F-30**  
 Frequency setting: 30Hz  
**d-50**  
 Pulse ratio setting: 50%



Installed height from target: 100mm  
 Air pressure: N<sub>2</sub>, 0.05MPa  
**F-30**  
 Frequency setting: 30Hz  
**d-50**  
 Pulse ratio setting: 50%



Installed height from target: 200mm  
 Air pressure: 0.1MPa  
**F-20**  
 Frequency setting: 20Hz  
**d-51**  
 Pulse ratio setting: 51%



Installed height from target: 300mm  
 Air pressure: 0.3MPa  
**F-50**  
 Frequency setting: 5Hz  
**d-52**  
 Pulse ratio setting: 52%



Installed height from target: 800mm  
**F-80**  
 Frequency setting: 8Hz  
 Use of FFU laminar flow  
**d-50**  
 Pulse ratio setting: 50%



Installed height from target: 1500mm  
**F-10**  
 Frequency setting: 1Hz  
 Use of FFU laminar flow  
**d-48**  
 Pulse ratio setting: 48%



Installed height from target: 150mm  
 Air pressure: 0.1MPa  
**F-30**  
 Frequency setting: 30Hz  
**d-50**  
 Pulse ratio setting: 50%

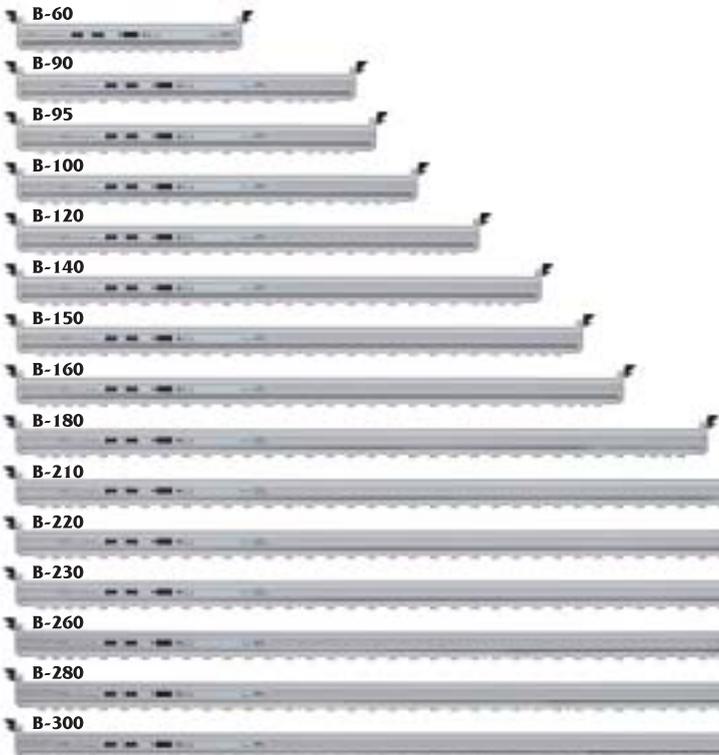
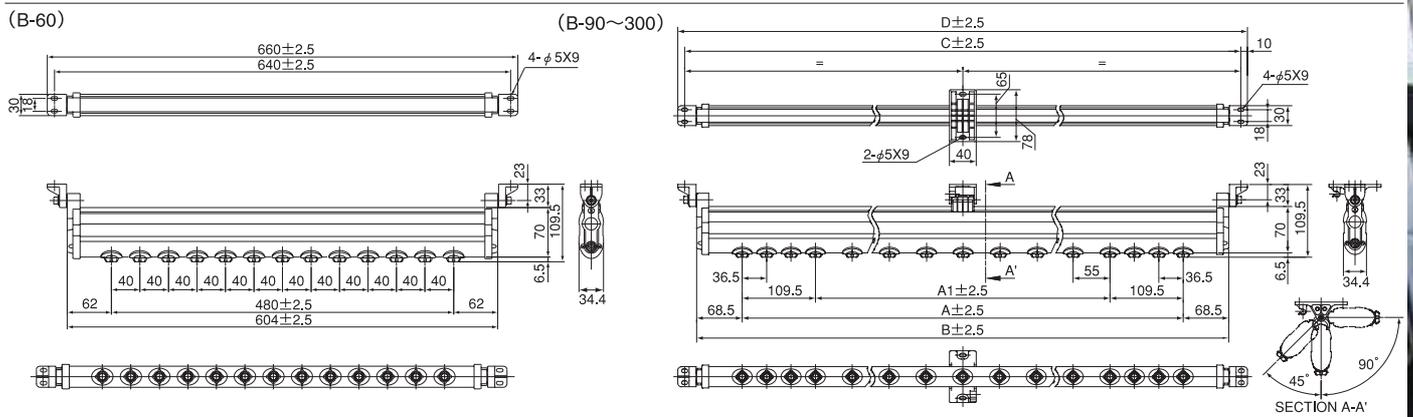
※Photos show examples. Use settings only for reference.

## SPECIFICATIONS

<b>Ion generation principle</b> : Pulse AC corona discharge
<b>Applied voltage</b> : Max. 12.5 kVpp Each polarity can be set in to 10 levels between 4.00~8.25 kV.
<b>Frequency</b> : 1, 3, 5, 8, 10, 20, 30 Hz
<b>Pulse ratio</b> : +ion: 40~70%, -ion: 60~30%
<b>Drive power</b> : DC24V ±5%
<b>Current consumption</b> : max 0.6A
<b>Air connection</b> : PT1/8 hoseφ6 mm OD×φ6 mm ID
<b>Air supply</b> : Clean dry air or N2 (0.5 MPa or less)
<b>Warning output</b> : High voltage Ion generation drop Electrode contamination

<b>Working temperature / humidity</b> : 0~50°C 35~85%RH (No condensation)
<b>Height range from target</b> : Approx. 50~2000 mm
<b>Generated ozone</b> : 0.005 ppm or less
<b>Static electricity removal time</b> : See table of previous page.
<b>Material</b> : Body: Flame-resisting ABS resin Cover: SUS-304 Electrode: Tungsten (W999.99%)
This document, Remote controller×1
<b>Accessories</b> : Power cable (5m for 24V DC [±5%] input)×1
End bracket×2 (With locking screws)
Middle bracket (With locking screws, see below)

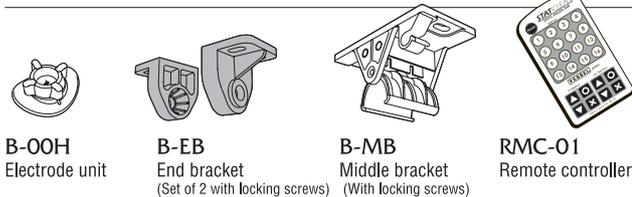
## DIMENSIONS



Dimensions/Number of needle electrodes/Number of middle brackets

Model code	A (mm)	A1 (mm)	B (mm)	C (mm)	D (mm)	Needle electrode	Middle bracket
<b>B-60</b>	480	—	604	640	660	13	0
<b>B-90</b>	769	550	906	942	962	17	0
<b>B-95</b>	824	605	961	997	1017	18	0
<b>B-100</b>	934	715	1071	1107	1127	20	0
<b>B-120</b>	1099	880	1236	1272	1292	23	0
<b>B-140</b>	1264	1045	1401	1437	1457	26	0
<b>B-150</b>	1374	1155	1511	1547	1567	28	1
<b>B-160</b>	1484	1265	1621	1657	1677	30	1
<b>B-180</b>	1704	1485	1841	1877	1897	34	1
<b>B-210</b>	2034	1815	2171	2207	2227	40	2
<b>B-220</b>	2144	1925	2281	2317	2337	42	2
<b>B-230</b>	2254	2035	2391	2427	2447	44	2
<b>B-260</b>	2474	2255	2611	2647	2667	48	3
<b>B-280</b>	2694	2475	2831	2867	2887	52	3
<b>B-300</b>	2914	2695	3051	3087	3107	56	3

## INTERCHANGEABLE PARTS



## OPTIONS

