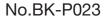
KOGANEI

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Static Electricity Removal Method Unit Ionizer Bar Type DTY-BA11 Series

New bar type series

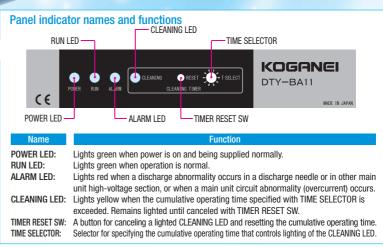
Improved charge removal performance, smaller configuration
Small flow rate type nozzle and silicon discharge needle available.
Width: 350 to 3100 mm [13.78 to 122.05 in]

KOGANEI Brand All products are RoHS compliant

Static Electricity Removal Method Unit Ionizer Bar Type DTY-BA11 Series

Charge removal time and size both 30% improved over previous products! 00000000 Long-term charge removal characteristic stability, long time before cleaning is required.

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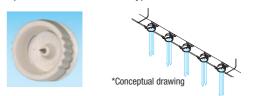


A selection of two nozzle types depending on application.

High speed charge removal: Standard flow rate type nozzle



Low expended air: Low flow rate type nozzle



Reduced expended air flow rate (*When using a small flow rate type nozzle.)

An original nozzle shape makes it possible to dramatically reduce the expended air flow rate (40% lower than the standard flow rate type). Simple nozzle attachment and detachment enables easier maintenance.

Uniform and stable charge removal across the entire area



Since positive and negative ions are constantly and uniformly supplied to the charge removal area in large volumes, there is virtually no areato-area differences in charge removal, making this nozzle ideal for electronic devices that require delicate charge removal.





Discharge needle replacement example

Fail-safe function alerts you to abnormal discharges and spikes.



*Conceptual drawing

A fail-safe function alerts you if an ionizer discharge needle shorts or other high voltage abnormal discharge occurs, and automatically cuts off application of high voltage.

Cleaning timer alerts you when cleaning is recommended

An LED lights in accordance with a preset time to let you know when cleaning of the discharge needle is required.



CE

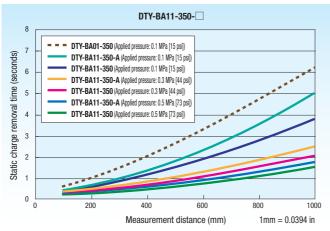


Application example

Allows uniform and reliable charge removal of the entire LCD panel during panel transfer.

Reliable and uniform charge removal of the entire wafer is possible while the wafer is being transfered to the cassette.

Static Charge Removal Characteristic Graph

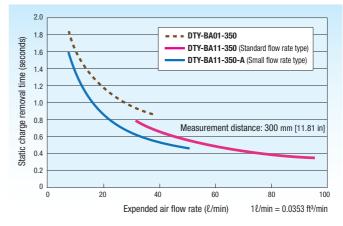


Note 1: Measurement performed under KOGANEI standards using a 20 pF, 150 mm [5.91 in] charged plate monitor.

2: Measurement distance time is the decay time from $\pm 1000V$ to $\pm 100V$.

3: Charge removal characteristics at the middle of the unit.

Expended air flow rate and static charge removal time

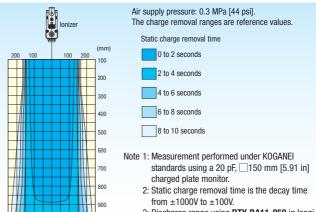


- Note 1: Measurement performed under KOGANEI standards using a 20 pF, 2150 mm [5.91 in] charged plate monitor.
 - 2: Static charge removal time is the decay time from $\pm 1000V$ to $\pm 100V$. 3: Charge removal characteristics at the middle of the unit.

Charge removal range

1IV

1mm = 0.0394 in



3: Discharge range using DTY-BA11-850 in longitudinal direction, center position.

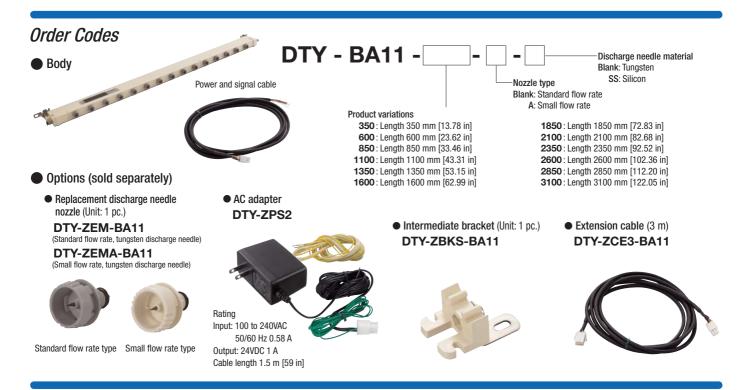
Specifications

Item	Model	DTY-BA11 -350	DTY-BA11 -600	DTY-BA11 -850	DTY-BA11 -1100	DTY-BA11 -1350	DTY-BA11 -1600	DTY-BA11 -1850	DTY-BA11 -2100	DTY-BA11 -2350	DTY-BA11 -2600	DTY-BA11 -2850	DTY-BA11 -3100
Power supply	24VDC ±5%												
Consumption current mA		150											
Output voltage kV		±10											
LED indicators	POWER (green)	Lights while power is on											
	RUN (green)	Lights during normal operation.											
	ALARM (red)	Lights (RUN LED unlit) for discharge abnormality or circuitry abnormality (overcurrent)											
	CLEANING (yellow)	Lights when cleaning timer's time setting is reached.											
Power Safety Circuit		Contact output when ALARM LED lights (normally closed 24VDC 50 mA MAX)											
Cleaning timer time set	Setting within 100 to 10,000 hours supported (9 steps)												
lon balance V		Within ±30 (Measurement distance: 300 mm [11.81 in], Air supply pressure: 0.3 MPa [44 psi])											
Static charge removal time Seconds		Within ± 0.7 (Measurement distance: 300 mm [11.81 in], Air supply pressure: 0.3 MPa [44 psi])											
Ozone generation amount ppm		Up to ± 0.002 (Measurement distance: 50 mm [1.97 in], Air supply pressure: 0.2 MPa [29 psi])											
Unit installation distance mm [in]		50 [1.97] or over											
Medium		Air (Clean air, water vapor and oil removed)											
Operating air pressure range MPa [psi]		0.01 to 0.5 [1.5 ~ 73]											
Expended air flow rate Note 2	Standard flow rate type	95 [3.35]	180 [6.35]	255 [9.00]	325 [11.47]	365 [12.88]	395 [13.94]	625 [22.06]	690 [24.36]	750 [26.48]	810 [28.59]	850 [30.01]	885 [31.24]
	Small flow rate type (-A)	55 [1.94]	95 [3.35]	145 [5.12]	190 [6.71]	235 [8.30]	275 [9.71]	375 [13.24]	425 [15.00]	475 [16.77]	515 [18.18]	560 [19.77]	600 [21.18]
Weight Note 3 g [oz]		450 [15.87]	650 [22.93]	860 [30.34]	1060 [37.39]	1260 [44.44]	1470 [51.85]	1670 [58.91]	1880 [66.31]	2080 [73.37]	2290 [80.78]	2500 [88.18]	2710 [95.59]
Number of discharge needle nozzles (Pitch: 50 mm [1.969 in])		5	10	15	20	25	30	35	40	45	50	55	60
Operating environment		Indoors, 0 to 40°C [32 ~ 104°F], 15 to 85% RH (non-condensation)											
Accessories	Power and signal cable (3 m [9.84 ft]), two mounting brackets, intermediate brackets (provided quantity in accordance with table below), discharge needle nozzle attachment/detachment tools												
Number of provided intermediate brackets		_	_	_	1	1	2	2	3	3	4	4	4

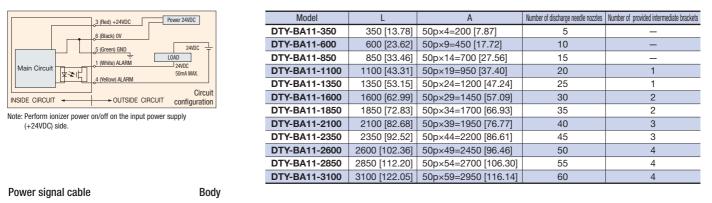
Note 1: Operating time is added with each hour of normal continuous operation. Operating time is not added when supplying power is continuous for less than one hour. 2: Value when air supply pressure is 0.5 MPa [73 psi]. Since expended air flow rate depends on piping conditions, use these values for reference only.

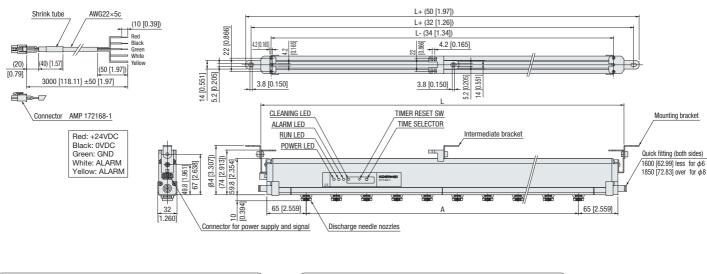
3: Excluding mounting brackets and intermediate brackets.

Remark: Ion balance and static charge removal time are measured according to KOGANEI measurement conditions. Contact KOGANEI for details.



Dimensions mm [in]





URL http://www.koganei.co.jp

E-mail: overseas@koganei.co.jp

JGANEI CORPORATION

OVERSEAS DEPARTMENT

3-11-28, Midori-cho, Koganei City, Tokyo 184-8533, Japan Fax: 042-383-7276 Tel: 042-383-7271

SHANGHAI KOGANEI INTERNATIONAL TRADING CORPORATION Room 2606-2607, Tongda Venture Building No.1, Lane 600, Tianshan Road, Shanghai, 200051, China Tel: 021-6145-7313 Fax: 021-6145-7323

KOGANEI-PORNCHAI CO., LTD. 89/174 Moo 3, Vibhavadee Rangsit Road, Talad Bangkhen, Laksi, Bangkok, 10210, Thailand

Tel: 02-551-4025 Fax: 02-551-4015



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