Ionizer (Digital Bar Type)

The highest level of ionization in its class.

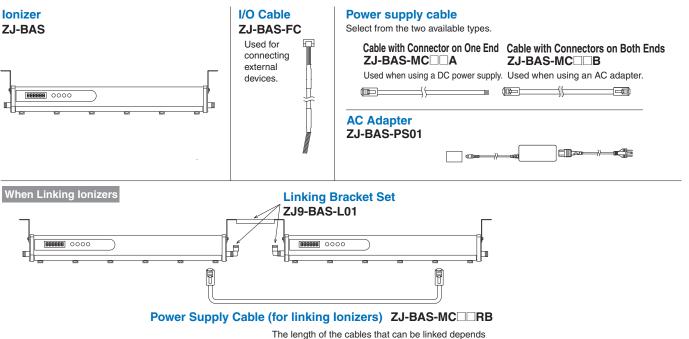
- Sensing and variable-AC system provides fast and meticulous ionization.
- Linked Ionizers cover a wide area without causing uneven ionization.
- Digital ion display provides simple and reliable settings.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.



System Configuration



The length of the cables that can be linked depends on the number of Ionizers to be linked together. Contact your OMRON sales representative for details.

Ordering Information

Ionizer

Appearance	Total length	Effective length	Model
	370 mm	500 mm	ZJ-BAS050
	450 mm	580 mm	ZJ-BAS058
	610 mm	740 mm	ZJ-BAS074
	770 mm	900 mm	ZJ-BAS090
	1,170 mm	1,300 mm	ZJ-BAS130
	1,410 mm	1,540 mm	ZJ-BAS154

Power Supply Cable

Appearance	Туре	Cable length	Model
		2 m	ZJ-BAS-MC02A
		5 m	ZJ-BAS-MC05A
	Cable with Connector on One End (one ferrite core provided, 30 -dia \times 39 mm)	10 m	ZJ-BAS-MC10A
		15 m	ZJ-BAS-MC15A
	-	20 m	ZJ-BAS-MC20A
		2 m	ZJ-BAS-MC02B
	Cable with Connectors on Both Ends (one ferrite core provided, 30-dia × 39 mm)	5 m	ZJ-BAS-MC05B
		10 m	ZJ-BAS-MC10B
		15 m	ZJ-BAS-MC15B
*		20 m	ZJ-BAS-MC20B
		710 mm	ZJ-BAS-MC07RB
	-	790 mm	ZJ-BAS-MC08RB
9		950 mm	ZJ-BAS-MC09RB
	Used for connecting lonizers	1,110 mm	ZJ-BAS-MC11RB
		1,510 mm	ZJ-BAS-MC15RB
		1,750 mm	ZJ-BAS-MC17RB

I/O Cable

Appearance	Cable length	Model
	2 m	ZJ-BAS-FC02A
	5 m	ZJ-BAS-FC05A
	10 m	ZJ-BAS-FC10A
	15 m	ZJ-BAS-FC15A
	20 m	ZJ-BAS-FC20A

AC Adapter

Appearance	Specifications	Model
a Bi	Input: 100 to 240 VAC Output: 24 VDC × 2	ZJ-BAS-PS01

Linking Bracket Set

Appearance	Contents	Model
	Linking Bracket (1) 6-dia. Elbow Air Joint (×2)	ZJ9-BAS-L01

Discharge Electrode Module

Appearance	Quantity	Model
۵.	Set of 5	ZJ9-BAS-NT105
	Set of 10	ZJ9-BAS-NT110

Ratings and Specifications

lonizer

Item	Model	ZJ-BAS050	ZJ-BAS058	ZJ-BAS074	ZJ-BAS090	ZJ-BAS130	ZJ-BAS154
Ionizer length (mm)		370	450	610	770	1,170	1,410
Effective ionization le	ength (mm) *1	500	580	740	900	1,300	1,540
Power supply voltage	ge	24 VDC ±10%, r	ipple (p-p) 10% n	nax.			-1
Current consumption 520 mA max. (discharge frequency 0.08 to 0.5 Hz: 400 mA (typical), 1 to 10 Hz: 350 mA (typical), 20 to 40			A (typical), 20 to 40 H	z: 300 mA (typical))			
Discharge method Sensing and a Variable-AC System							
Discharge voltage		6.5 kV P-P					
Discharge electrode	e	Tungsten electro	ode				
Recommended insta	llation distance	50 to 2,000 mm					
lon balance *2		±30 V max.					
Power supply conne	ector	Modular type, 8-	pin connector (at	both ends of Unit)		
Air inlet 6-dia one-touch coupling (at both ends of Unit)							
Maximum air press	ure	0.3 MPa max.					
	Input	Discharge stop input (Turns ON at 12 to 24 VDC), input impedance: 8.2 k Ω					
External I/O	Output	Discharge stop output, cleaning output, alarm output, high-pressure error output: Signal output from photo MOS relay (100 mA max at 24 VDC)					
Display Seven-segment LED display							
ID number	umber 001 to 050						
Ion balance adjustn	nent function	Yes					
Maximum number o	Maximum number of linkable units 7 Units						
Material	laterial Ionizer: ABS-resin, facing electrodes: Stainless steel						
Ambient temperature range Operating: 10 to 40°C, Storage: 0 to 40°C (with no icing or condensation)							
Ambient humidity range		Operating: 35% to 65%, Storage: 35% to 85% (with no condensation)					
Weight (lonizer only) Approx. 0.58 kg Approx. 0.64 kg Approx. 0.8 kg Approx. 0.94 kg Approx. 1.28 kg			Approx. 1.5 kg				
			kets, two M4 screws				
*1. Measurement conditions *2. Measurement conditions							

Installation distance: 50 mm Airflow: 1 L /min per hole Frequency: 10 Hz Charge plate monitor: 150×150 mm, 20 pF Ionization time: (1,000 V \rightarrow 100V/-1,000V \rightarrow -100V): 1 s max.)

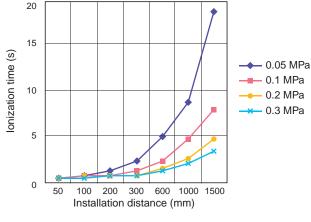
AC Adapter

Item Model	ZJ-BAS-PS01
Input voltage	100 to 240 VAC
Input current	1.2 A max.
Output voltage	24 VDC
Output current	3.75 A max.
Number of output ports	2 ports
Product configuration	Adapter box, AC adapter AC power cable
Weight (without package)	Adapter box: Approx. 30 g AC Adapter: Approx. 475 g AC power supply cable: Approx. 260 g

*2. Measurement conditions Installation distance: 300 mm Airflow: 1 L /min per hole Frequency: 10 Hz Charge plate monitor: 150 × 150 mm, 20 pF

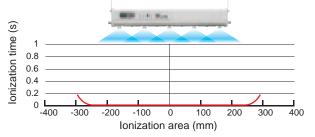
Engineering Data (Reference Value)

Relationship of Air Pressure and Installation Distance to Ionization Time

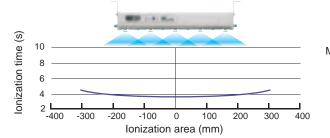


Ionization Time for Each Ionization Area

With installation distance of 50 mm (reference value)



With installation distance of 1,500 mm (reference value)

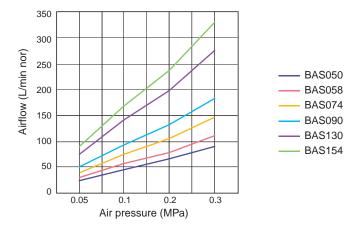


Safety Precautions

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



Bar Length vs. Air Pressure and Airflow



Measuring conditions: Model: ZJ-BAS050 Installation distance: 50 mm Air pressure: 0.3 MPa Frequency: 10 Hz Charge plate monitor: 150 mm × 150 mm, 20 pF Ionization time: ±1,000 V to ±100 V

Measuring conditions: Model: ZJ-BAS050 Installation distance: 1,500 mm Air pressure: 0.3 MPa Frequency: 10 Hz Charge plate monitor: 150 mm × 150 mm, 20 pF Ionization time: ±1,000 V to ±100 V

Precaution for Correct Use

Do not use the product in atmospheres or environments that exceed product ratings.

This document provides information mainly for selecting suitable models. Information such as the usage precautions is not contained herein. Be sure to read the instruction manual before using the product.

For technical information and product FAQs, refer to the *Technical Guide* on your OMRON website.

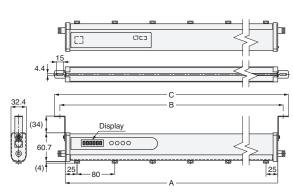
ZJ-BAS

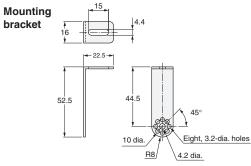
(Unit: mm)

Dimensions

Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

Ionizer



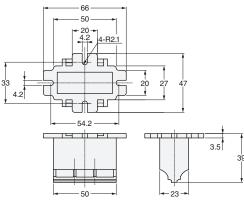


The dimensions and number of Discharge Electrode Modules for each model are shown in the following table.

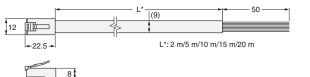
Model	A (mm)	B (mm)	C (mm)	Discharge Electrode Module
ZJ-BAS050	370	394	416	5
ZJ-BAS058	450	474	496	6
ZJ-BAS074	610	634	656	8
ZJ-BAS090	770	794	816	10
ZJ-BAS130	1,170	1,194	1,216	15
ZJ-BAS154	1,410	1,434	1,456	18

Auxiliary mounting bracket

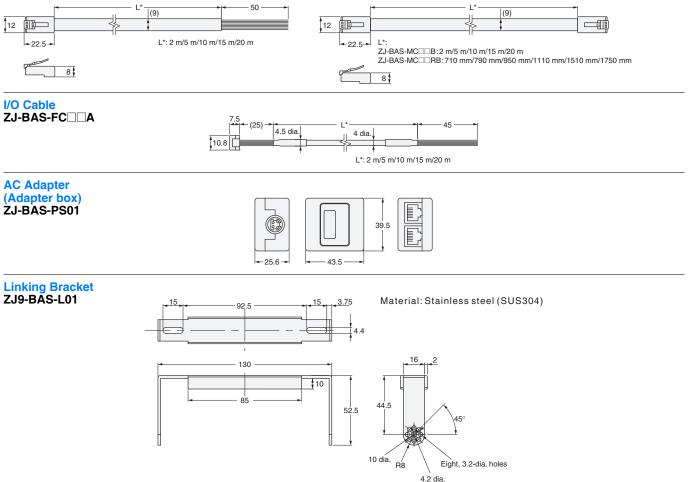
Provided with the ZJ-BAS130/BAS154



Power Supply Cable ZJ-BAS-MC



ZJ-BAS-MC B/MC RB



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