Ionizer (Digital Bar Type)

The highest level of ionization in its class.

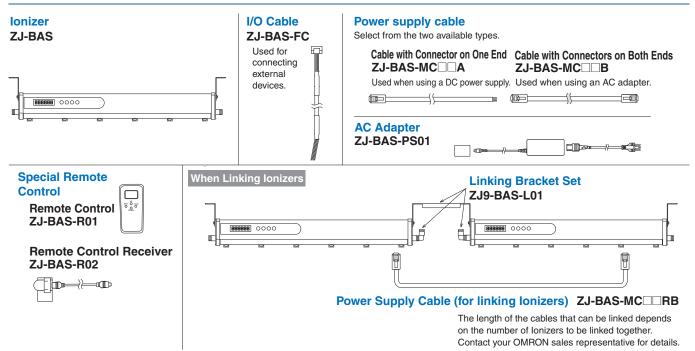
- Sensing and variable-AC system provides fast and meticulous ionization.
- Linked Ionizers cover a wide area without causing uneven ionization.
- Digital ion display provides simple and reliable settings.



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



System Configuration



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 × 39 mm)	10 m	ZJ-BAS-MC10A
		15 m	ZJ-BAS-MC15A
Ť		20 m	ZJ-BAS-MC20A
		2 m	ZJ-BAS-MC02B
		5 m	ZJ-BAS-MC05B
	Cable with Connectors on Both Ends (one ferrite core provided, 30-dia × 39 mm)	10 m	ZJ-BAS-MC10B
		15 m	ZJ-BAS-MC15B
-		20 m	ZJ-BAS-MC20B
9		710 mm	ZJ-BAS-MC07RB
		790 mm	ZJ-BAS-MC08RB
		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
$\overline{}$	15 m	ZJ-BAS-FC15A
	20 m	ZJ-BAS-FC20A

AC Adapter

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

Special Remote Control

Appearance	Туре	Model	
A ST	Remote Control	ZJ-BAS-R01	
	Remote Control Receiver (Receiver, USB cable, bracket)	ZJ-BAS-R02	

Linking Bracket Set

U		
Appearance	Contents	Model
A.	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 length (mm) *1		500	580	740	900	1,300	1,540	
Power supply voltage	je	24 VDC ±10%, r	pple (p-p) 10% m	ax.				
Current consumptio	n	520 mA max. (discha	520 mA max. (discharge frequency 0.08 to 0.5 Hz: 400 mA (typical), 1 to 10 Hz: 350 mA (typical), 20 to 40 Hz: 300 mA (typical))					
Discharge method		Sensing and a V	ariable-AC Syster	m				
Discharge voltage		6.5 kV P-P						
Discharge electrode	•	Tungsten electro	de					
Recommended instal	lation distance	50 to 2,000 mm						
Ion balance *2		±30 V max.						
Power supply conne	ector	Modular type, 8-	pin connector (at	both ends of Unit)			
Air inlet	let 6-dia one-touch coupling (at both ends of Unit)							
Maximum air pressu	air pressure 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	D number 001 to 050							
Ion balance adjustm	ent function	Yes						
Maximum number o	f linkable units	7 Units						
Material		Ionizer: ABS-res	in, facing electrod	les: Stainless stee	el			
Ambient temperatur	e range	Operating: 10 to	40°C, Storage: 0	to 40°C (with no	icing or condensat	ion)		
Ambient humidity ra	inge	Operating: 35%	to 65%, Storage:	35% to 85% (with	no condensation)	1		
Weight (Ionizer only)	Approx. 0.58 kg Approx. 0.64 kg Approx. 0.8 kg Approx. 0.94 kg Approx. 1.28 kg Approx.					Approx. 1.5 kg	
Accessories		Two mounting brackets, two M4 screws, instruction manual Two mounting brackets, two M4 screws 1 medium bracket, instruction manual						
*1. Measurement conditions Installation distance: 50 mm Airflow: 1 L /min per hole Frequency: 10 Hz Frequency: 10 Hz								

*1. 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→100V/-1,000V→-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		

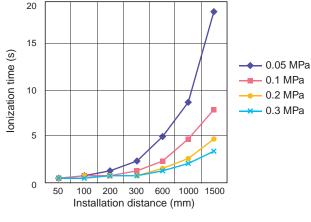
Special Remote Control

Frequency: 10 Hz Charge plate monitor: 150×150 mm, 20 pF

Item Model	ZJ-BAS-R01	ZJ-BAS-R02	
Product configuration	Remote Control only	Receiver Cable (150 mm) Brackets (not including Remote Control)	
Communications method	Infrared communications		
Number of detectable Units	50 Units	-	
Power supply	Three AAA batteries	Supplied from the ZJ-BAS Ionizer	
Weight (not including packaging)	Approx. 115 g	Receiver: Approx. 5 g Cable: Approx. 6 g Bracket: Approx. 5 g	
Accessories	Instruction manual		

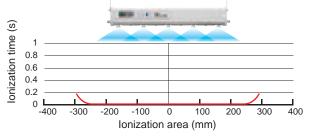
Engineering Data (Reference Value)

Relationship of Air Pressure and Installation Distance to Ionization Time

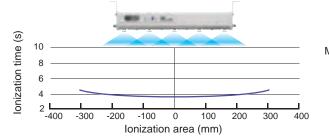


Ionization Time for Each Ionization Area

With installation distance of 50 mm (reference value)



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



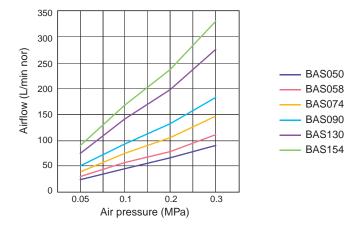
Safety Precautions

Do not use it for such purposes.

MARNING WARNING This product is not designed or rated for ensuring safety of persons either directly or indirectly.



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.

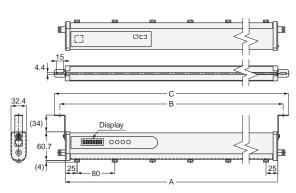
ZJ-BAS

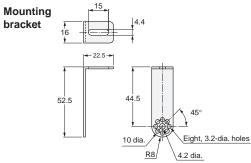
(Unit: mm)

Dimensions

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

Ionizer



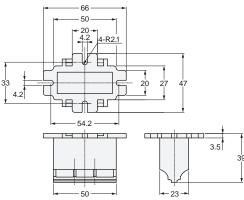


The dimensions and number of Discharge Electrode Modules for each model are shown in the following table.

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

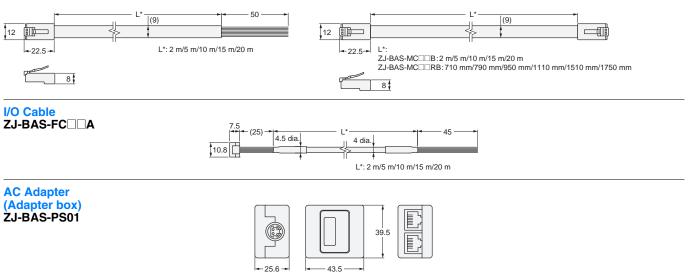
Auxiliary mounting bracket

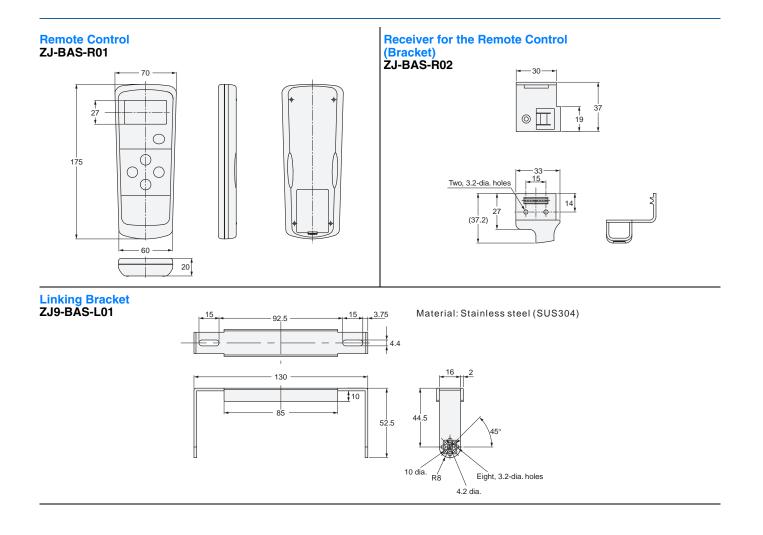
Provided with the ZJ-BAS130/BAS154



Power Supply Cable ZJ-BAS-MC

ZJ-BAS-MC B/MC RB





Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

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