ZJ-BAS

CSM_ZJ-BAS_DS_E_2_2

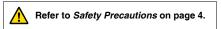
CE

The highest level of ionization in its class.

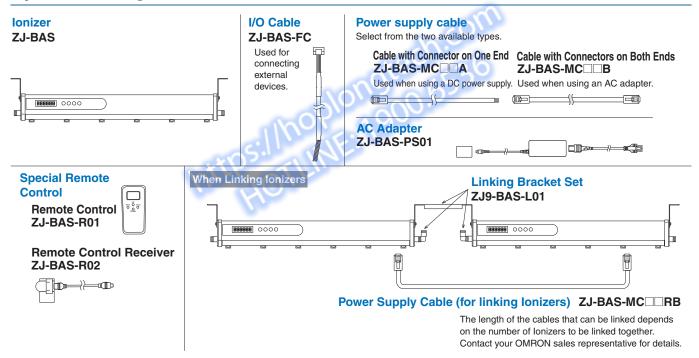
- Sensing and variable-AC system provides fast and meticulous ionization.
- Linked Ionizers cover a wide area without causing uneven ionization.
- Digital ion display provides simple and reliable settings.



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	nnce 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		
	(one ferrite core provided, so dia × 55 min)	15 m	ZJ-BAS-MC15A		
		20 m	ZJ-BAS-MC20A		
-		2 m			
		5 m	ZJ-BAS-MC05B		
	Cable with Connectors on Both Ends (one ferrite core provided, 30-dia × 39 mm)	10 m	ZJ-BAS-MC10B		
8.5	(one forme core provided, or did × co min)	15 m	ZJ-BAS-MC15B		
Ť		20 m	ZJ-BAS-MC20B		
-		710 mm	ZJ-BAS-MC07RB		
9		790 mm ZJ-B A	ZJ-BAS-MC08RB		
	Lload for connecting logizors	950 mm	ZJ-BAS-MC09RB		
	Used for connecting Ionizers	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
0	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
= 810	Input: 100 to 240 VAC Output: 24 VDC × 2	ZJ-BAS-PS01

Special Remote Control

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

Linking Bracket Set

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

Discharge Electrode Module

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

Ratings and Specifications

Ionizer

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	pple (p-p) 10% m	nax.	1	1	
Current consumption	on	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)			z: 300 mA (typical))		
Discharge method		Sensing and a Variable-AC System					
Discharge voltage		6.5 kV P-P					
Discharge electrode	;	Tungsten electro	de				
Recommended insta	llation 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)	2		
Air inlet		6-dia one-touch coupling (at both ends of Unit)					
Maximum air pressu	ıre	0.3 MPa max.					
Input Discharge stop input (Turns ON at 12 to 24 VDC), input impedance: 8.2 kΩ			3.2 kΩ				
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	Display Seven-segment LED display						
ID number		001 to 050	Mo.				
Ion balance adjustm	nent function	Yes	TIME				
Maximum number o	f linkable units	7 Units	-111				
Material	Ionizer: ABS-resin, facing electrodes: Stainless steel						
Ambient temperatur	mbient 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			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. 1.5 kg
Accessories	Accessories Two mounting brackets, two M4 screws, instruction manual Two mounting brackets 1 medium bracket, ins			,			

^{*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.)

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

AC Adapter

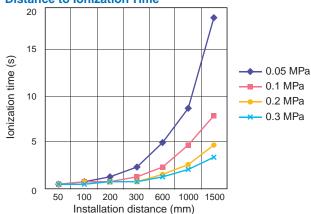
Item Model	ZJ-BAS-PS01
Input voltage	100 to 240 VAC
Input current	1.2 A max.
Output voltage	24 VDC
Output current	3.75 A max.
Number of output ports	2 ports
Product configuration	Adapter box, AC adapter AC power cable
Weight (without package)	Adapter box: Approx. 30 g AC Adapter: Approx. 475 g AC power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

Special Remote Control

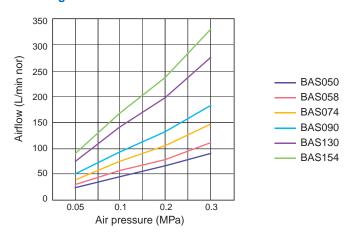
Item Model	ZJ-BAS-R01	ZJ-BAS-R02	
Product configuration	Remote Control only	Receiver Cable (150 mm) Brackets (not including Remote Control)	
Communications method	Infrared communications		
Number of detectable Units	50 Units	-	
Power supply	Three AAA batteries	Supplied from the ZJ-BAS Ionizer	
Weight (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

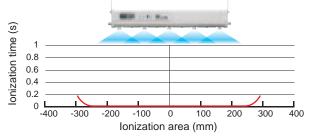


Bar Length vs. Air Pressure and Airflow



Ionization Time for Each Ionization Area

With installation distance of 50 mm (reference value)

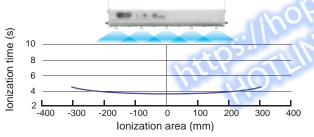


Measuring conditions:

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

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



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

Safety Precautions

♠ WARNING

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



Precaution for Correct Use

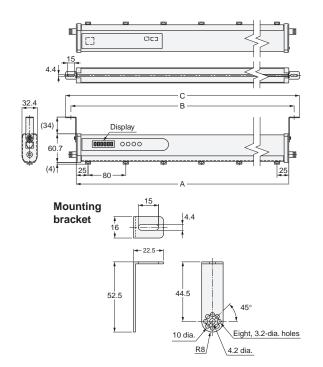
Do not use the product in atmospheres or environments that exceed product ratings

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.

Dimensions

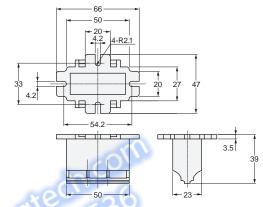
Ionizer



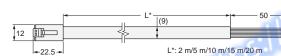
The dimensions and number of Discharge Electrode Modules for each model are shown in the following table.

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

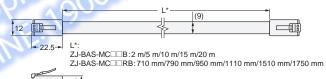
Auxiliary mounting bracket Provided with the ZJ-BAS130/BAS154



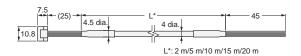




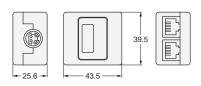




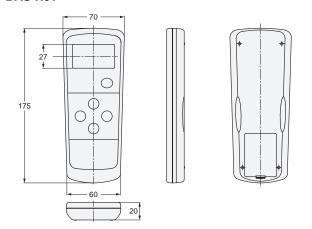
I/O Cable ZJ-BAS-FC□□A



AC Adapter (Adapter box) ZJ-BAS-PS01

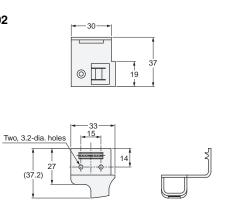


Remote Control ZJ-BAS-R01

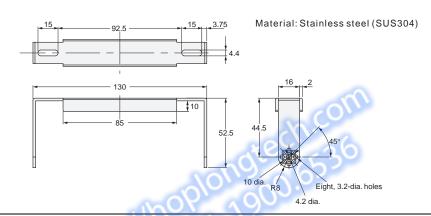


Receiver for the Remote Control (Bracket) ZJ-BAS-R02

(37.2)



Linking Bracket ZJ9-BAS-L01



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