

Ionizer Basic Fan Type **ZJ-FA20**

OMRON

High-speed, High cost performance Ionization

FAN SPEED



Meet the Industry Standar

As electronic components become increasingly smaller and denser, production lines are having to attach much greater importance to the control of problems related to static electricity, such as the adhesion of foreign matter and damage due to electrostatic discharge.

OMRON offers a high-performance, reliable, and reasonably priced ionization solution to all users fighting this invisible war against static electricity.



in Fan Ionizers

High-speed Ionization

A Unique Structure Provides a Uniform Airflow

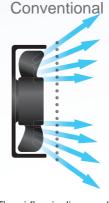
The newly developed airflow control system (AFCS) structure optimally controls the airflow of the fan to efficiently carry the discharged ions to the target workpiece. This gives the ZJ-FA20 the highest ionization performance in its class.

Even with the airflow at a low setting, ionization is completed in approximately 2 seconds. Small, light workpieces are not blown away by the airflow, and static electricity is effectively neutralized.

Airflow Control System (AFCS)

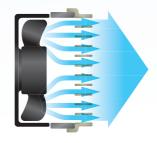






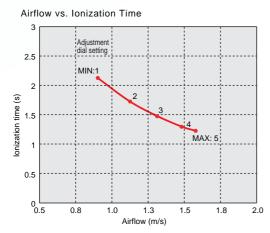
The airflow is dispersed, lowering efficiency.

ZJ-FA20

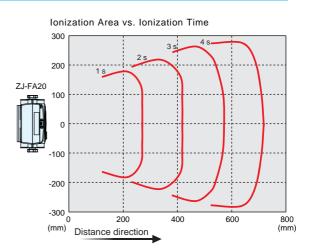


The front louvers and internal structure keep the airflow uniform.

Engineering Data



Measurement Conditions Installation distance: 300 mm Ionization time: ±1,000 V to ±100 V Plate monitor: 150 X 150 mm, 20 pF



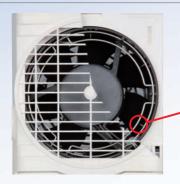
Measurement Conditions
Airflow: Max.

Ionization time: ±1,000 V to ±100 V Plate monitor: 150 X 150 mm, 20 pF

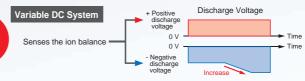
d in Fan Ionizers

More Versatile Use

Long-term Ionization Performance



A built-in ion balance sensor constantly senses the ion condition, and a variable DC system maintains the optimal ion balance at all times. This provides a long-term, stable balance for reliable ionization.



The ion balance is sensed and the voltage applied to the discharger electrodes is varied to adjust the ion output.

Clean and Easy Maintenance

The ZJ-FA20 features a fully opening front cover. Removing it allows neat and thorough cleaning, without spreading dust and other particles around. The discharger electrodes can also be replaced for long-term operation. LED lamps show the ion-generating condition and indicate when cleaning is required.



Cleaning the discharger electrodes



Replacing the discharger electrodes



Easy-to-see lamps

A Variety of Installation Possibilities

In addition to table-top or bench-top installation, the ZJ-FA20 can be easily mounted to an aluminum pipe. The angle can also be freely adjusted using the angle-adjustment knob and oblong stand.







Ordering Information

Ionizer

Accessories (sold separafely)

Model	
ZJ-FA20	

	Model
Replacement Filter	ZJ9-FL120N1 (set of 10)
Replacement Discharger Electrode	ZJ9-NDT06FN1 (set of 6)

Ratings and Specifications

Ionizer

ionizei				
Item	Model	ZJ-FA20		
Power sup	oply voltage	24 VDC (See note 1.)		
Current co	onsumption	900 mA max. (input from included AC adapter)		
Discharge	voltage	±7 kV		
Discharge	method	Variable DC		
Airflow (m	³/min.)	1.4 to 2.3 m³/min (typical)		
Ionization	time (See note 2.)	1.2 s (0.8 s with no Filter)		
Ion baland	Ce (See note 2.)	±10 V max.		
Amount of g	enerated ozone	0.01 ppm max. (measured at a distance of 50 mm from air outlet)		
Indicators		High-voltage output lamp: ION (yellow), Cleaning lamp: CLEANING (orange), Power lamp: POWER (green)		
Main func	tions	Automatic ion balance adjustment, airflow adjustment, manual ion balance adjustment		
Ambient tem	perature range	Operating and storage: 0 to 50°C (with no icing or condensation)		
Ambient h	numidity range	Operating: 35% to 65%, storage: 35% to 85% (with no condensation)		
Weight (pa	acked state)	Approx. 2.0 kg		
Materials		Unit: ABS, Discharger: Tungsten, stand: SPCC		
Accessori	es	Instruction sheet, AC adapter, warning labels (2 types), FG connection cable (2 m)		

AC Adapter (Provided: UIA336-24-JR01A-998 by UNIFIVE CO., LTD.)

Item			
Input voltage	100 to 240 VAC, 50/60 Hz		
	AC240V: 115VA MAX		
Power consumption	240 VAC: 115 VA max.		
Output voltage	24 VDC		
Output current	1.5 A max.		
Ambient temperature range	0 to 40°C		
Ambient humidity range	35% to 85% (with no condensation)		
Weight	Approx. 175 g (excluding power cable)		
Dimensions	43.8 X 28 X 95.9 (W X D X H) mm		

^{*} If an additional AC adapter is required, please contact your OMRON sales representative

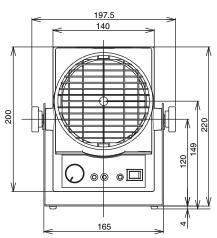
(Unit: mm)

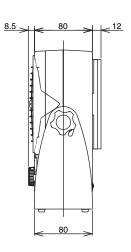
Note 1: Be sure to use the included AC adapter for Ionizer operation.

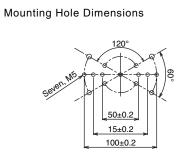
Note 2: Typical default settings.

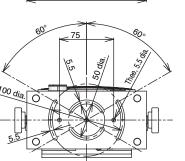
Measurement location and conditions: Center of air outlet at a distance of 300 mm, with maximum fan speed lonization time: The time required to lower the charge from ±1,000 V to ±100 V lon balance measurement time: 10 s

Dimensions

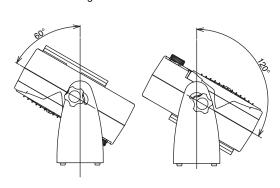








Rotation Range



This document provides information mainly for selecting suitable models. Please read the Instruction Sheet carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

OMRON Corporation

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