## Ionizer (Basic Fan Type)

# ZJ-FA20

CSM\_ZJ-FA20\_DS\_E\_2\_1

CE

## High-speed, High cost performance **Ionization**

- High-speed ionization in only 0.8 seconds.
- Built-in sensor controls the ion balance at all times.
- Fully open structure makes it possible to perform maintenance simply and safely.
- Can easily be attached to aluminum profiles.



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



Refer to Safety Precautions on page 2.

## **Ordering Information**

#### **Ionizer**

Model
ZJ-FA20

### Accessories (sold separafely)

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

## **Ratings and Specifications**

#### Ionizer

II.		
Item Model	ZJ-FA20	
Power supply voltage	24 VDC *1	
Current consumption	900 mA max. (input from included AC adapter)	
Discharge voltage	±7 kV	
Discharge method	Variable DC	
Airflow (m³/min.)	1.4 to 2.3 m³/min (typical)	
Ionization time *2	1.2 s (0.8 s with no Filter)	
Ion balance *2	±10 V max.	
Amount of generated 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 functions	Automatic ion balance adjustment, airflow adjustment, manual ion balance adjustment	
Ambient temperature range	Operating and storage: 0 to 50°C (with no icing or condensation)	
Ambient humidity range	Operating: 35% to 65%, storage: 35% to 85% (with no condensation)	
Weight (packed state)	Approx. 2.0 kg	
Materials	Unit: ABS, Discharger: Tungsten, stand: SPCC	
Accessories	Instruction sheet, AC adapter, warning labels (2 types), FG connection cable (2 m)	

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

Measurement location and conditions: Center of air outlet at a distance of 300 mm, with maximum fan speed Ionization time: The time required to lower the charge from  $\pm 1,000$  V to  $\pm 100$  V Ion balance measurement time: 10 s Plate monitor:  $150 \times 150$  mm, 20 pF

Typical default settings.

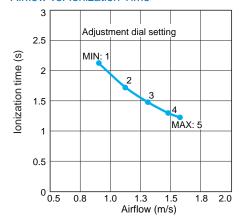
#### AC Adapter (Provided: UIA336-24-JR01A-998 by UNIFIVE CO., LTD.)

Item	
Input voltage	100 to 240 VAC, 50/60 Hz
Power consumption	100 VAC: 70 VA max. 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 × 28 × 95.9 (W × D × H) mm

<sup>\*</sup> If an additional AC adapter is required, please contact your OMRON sales representative.

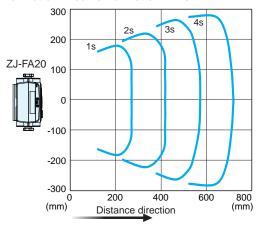
## **Engineering Data (Reference Value)**

#### Airflow vs. Ionization Time



Measurement Conditions Installation distance: 300 mm Ionization time:  $\pm 1,000$  V to  $\pm 100$  V Plate monitor:  $150 \times 150$  mm, 20 pF

#### Ionization Area vs. Ionization Time



Measurement Conditions

Airflow: Max.

Ionization time:  $\pm 1,000$  V to  $\pm 100$  V Plate monitor:  $150 \times 150$  mm, 20 pF

## **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**

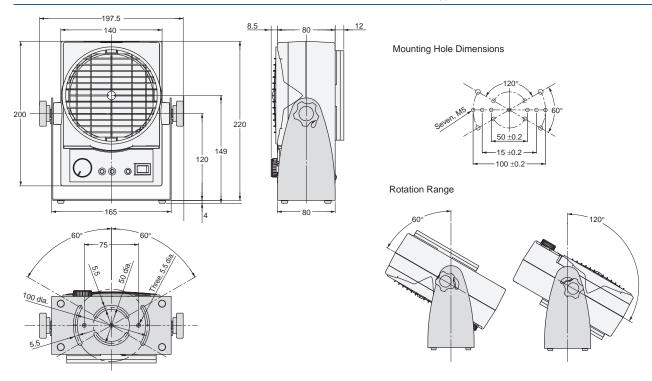
Do not use the product in atmospheres or environments that exceed product ratings.

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**

## (Unit: mm) Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.



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