Easy to use
Standard type for a fan type ionizer with high performance

ZJ-FA20
This is the standard for a fan type ionizer, which is easy to install and has high performance.

Fan Ionizer
ZJ-FA20 (FA20)

**PERFORMANCE DATA**

- Ionization time: ±1000 V to ±100 V
- Distance from measurement point: 300 mm

**APPLICATIONS**

- Various installation styles are available to match your workplace.
- Slim & Light design

**DIMENSIONS AND WEIGHTS**

- For more information, please refer to the catalog or consult your OMRON representative.

**ERRORS AND OMISSIONS**

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**PRODUCTS**

- ZJ-FW Series
- ZJ-FA20

**ZJ-FW053**

- Airflow: Max.
- Width: 290 mm
- Length: 1850 mm
- Height: 210 mm
- Thickness: 130 mm
- Plate monitor: 150 x 150 mm, 20 pF

**ZJ-FA20**

- Airflow: Max.
- Airflow (m/s): 3
- Distance (mm): -300, -200, -100, 0, 100, 200, 300, 400, 600, 800, 1000, 1200, 1400

**Contact**

- www.ia.omron.com

**OMRON ELECTRONICS LLC**

- Address: 12404 Pearsall Bay West, Suite 200, San Antonio, TX 78230
- Phone: 800.553.0061

- Contact: www.ia.omron.com

- Email: sales@omron.com

**Back View**

- Dimensions: 12404 Pearsall Bay West, Suite 200, San Antonio, TX 78230
- Phone: 800.553.0061
- Contact: www.ia.omron.com

**Certification**

- CE, UL, CSA, cUL, VDE, EAC, CCC, CE Mark

**Warranty and Limitations of Liability**

- Warranty period: 2 years from date of sale by OMRON.
- Disclaimers

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**EASY TO USE**

Standard type for a fan type ionizer with high performance.

**ZJ-FA20**

This is the standard for a fan type ionizer, which is easy to use and has high performance.

**Normality and Limitations of Liability**

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**Fan Ionizer**

ZJ-FA20

**Ionization time (s)**

<table>
<thead>
<tr>
<th>Ionization time</th>
<th>0.5s</th>
<th>1.0s</th>
<th>1.3s</th>
<th>1.5s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate monitor</td>
<td>150 x 150 mm, 20 pF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance from measurement point</td>
<td>300 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement conditions</td>
<td>-200</td>
<td>100</td>
<td>200</td>
<td>0</td>
</tr>
<tr>
<td>Airflow (m/s)</td>
<td>Max: 3</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>530mm x 290mm x 59.5mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>530g</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OMRON ELECTRONICS LLC**

**Warranty and Limitations of Liability**

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**How to use**

1. **Area type**
   - Slim & Light
   - Models presented installation issues.
   - All models are easily installed on narrow workbenches or in high positions where earlier models were not available to match the workplace.

2. **Area coverage**
   - Just 6 cm thick

**Slim & Light**

A new concept from the production floor.

**ZJ-FW Series**

This series is designed to go anywhere. All models are easily installed on narrow workbenches or in high positions where earlier models presented installation issues.
**Easy to use**

Standard type for a fan type ionizer with high performance.

**ZJ-FA20**

This is the standard for a fan type ionizer, which is easy to use and has high performance.

### Fan Ionizer ZJ-FA20

- **Power Supply:** 100V ~ 240V AC ±10%, 50/60Hz
- **Dimensions:** Width: 290mm, Height: 530mm, Depth: 225mm
- **Weight:** Approx. 10kg
- **Installation area:** 100% of the floor
- **Performance Data**
  - **Airflow (CFM):** 1500
  - **Airflow (m³/h):** 4250
  - **Air Coverage:** 3 types
  - **Ionization Time:** 1s, 2s, 3s, 4s, 5s
  - **Distance from Measurement Point:** ≤300mm
  - **Plate Monitor:** 150 x 150 mm, 20 pF
  - **Ionization Time:** ±1000 V to ±100 V

### Application Considerations

- **Outdoor use:** Not recommended due to potential chemical contamination or electrical safety equipment and installations subject to separate industry or regulations that apply to the combination of products in the customer’s application or use of the products.
- **Change in Specifications:** Any change in specifications will be announced in writing.
- **Modification or Repair:** Unauthorized modification or repair is strictly prohibited.
- **Warranty and Limitations of Liability:** OMRON Corporation shall not be responsible for any act exceeding the individual price of the product on which liability is asserted.

**Performance Data**

- **Area fan type ionizer that can fit anywhere**
  - **FW013**
    - **Area Coverage:** 3 types
    - **Airflow Level:** 1
    - **Distance from Measurement Point:** 100, 200, 300
    - **Ionization Time:** ±1000 V to ±100 V
    - **Distance from Measurement Point:** 300 mm
    - **Plate Monitor:** 150 x 150 mm, 20 pF
    - **Ionization Time:** ±1000 V to ±100 V

**OMRON**

OMRON Corporation: Industrial Automation Company

**Contact:** www.omega.com

**Read and Understand this Catalog**

Please read and understand this catalog before purchasing the product. Please consult your OMRON representative if you have any questions or comments.
### ZJ-FW Series

**Area fan type**

3 slim, lightweight types to choose from.

Easy installation.

At 6 cm in depth and weighing 1 kg (ZJ-FW029), the ZJ-FW Series has pursued and achieved a slim, lightweight configuration. These ionizers easily fit on narrow workbenches or in high locations where previously they could not go. Moreover, you can select a size according to the area of coverage, so targets are uniformly neutralized.

**Easy installation**

Ideal for narrow workbenches to wide lines

With three sizes available, the ideal ionizer for the installation environment and ionization area can be selected. Stable uniform ionization is possible for any kind of work setup from narrow workbenches to wide lines. Moreover, tedious-to-rig air ducts used with bar type ionizers are unnecessary, which also translates into greater energy savings.

### Model and Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZJ-FW013</td>
<td>Replacement filter (6-pack) (ZJ-FW013)</td>
</tr>
<tr>
<td>ZJ-FW029</td>
<td>Replacement discharge electrode (4-electrode set)* (ZJ-FW029/053)</td>
</tr>
<tr>
<td>ZJ-FW053</td>
<td>Stand (Included with ZJ-FW029/053) (ZJ-FW029/053)</td>
</tr>
</tbody>
</table>

* Typical default settings at the time of shipping from the factory

### Rating/Performance

<table>
<thead>
<tr>
<th>Model</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZJ-FW013</td>
<td>Power supply voltage 24V DC±10%, Ripple (p-p): 10%</td>
</tr>
<tr>
<td>ZJ-FW029</td>
<td>Current consumption 1.2A max</td>
</tr>
<tr>
<td>ZJ-FW053</td>
<td>Discharge voltage ±7.5kV</td>
</tr>
</tbody>
</table>

### Discharge method

Variable DC

### Ionization time

ZJ-FW029/053: 1.0 s  
ZJ-FW013: 1.5 s

### Ion balance

±10V

### Discharge stop input

Photo MOS relay output (NPN or PNP)

- **Applied voltage**: 30VDC max., **load current**: 100mA max.
- **Residual voltage**: 1V max

### Ambient temperature range

0 to 50˚C (For stopping or drying)

### Ambient humidity range

35% to 65% (No icing or dewing)

### Weight (Packaged)

Approx. 0.6 kg (ZJ-FW013), 1.2 kg (ZJ-FW029), 1.8 kg (ZJ-FW053)

### Material

Body: Aluminum, ABS  
Electrode needle: Tungsten

### Accessories

- Instruction sheet, I/O connector, L-mounting bracket, Streamer
- L-mounting bracket (Included with ZJ-FW013)
- Pipe-mounting bracket (For mounting a 22-mm dia. pipe) (ZJ-FW029/053)
- ZJ9-BRL1FW

* ZJ-FW013: 1 set, ZJ-FW029: 3 sets, ZJ-FW053: 6 sets

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**Easily installs in places where not applicable before!**

(Stand, L-mounting bracket and pipe-mounting bracket available.)
Ionization performance
High speed ionization in a slim configuration
A proprietary louver structure enables a slim configuration and yet high speed ionization that removes electrostatic charge in 1 sec or less. As a standard feature, ion balance adjustment is available and airflow can be set by 4-step sliding switch. Moreover, when using the standard stand, the angle can be easily adjusted against a graduated scale.

Reliability
Four indicators and an alarm output let you easily identify the operating status.
The Ionizer’s operating status is displayed on easy-to-see indicators and it can be output to an external device. Besides the power (FWR) indicator, there are a CLEAN lamp that lights when it is time for electrode needle maintenance, an ALM lamp that lights if trouble occurs, and a FAN lamp that is lit while the fan is operating.

Maintainability
Easy electrode needle replacement owing to modular structure
The ionizer adopts a full-open structure that allows users to detach the front cover by just pressing on tabs. This makes electrode needle cleaning very easy. Moreover, the electrode needles are configured as a unit that can be easily and safely replaced.

Input/output circuit

Pipe-mounting bracket ZJ9-BRP1FW (Units: mm)

Outer dimensions ZJ-FW013 (Units: mm)

ZJ-FW029/053 (Units: mm)
3 slim, lightweight types to choose from. Easy installation.

With its slim depth and weighing in at 1 kg, the ZJ-FW Series is a perfect addition to narrow workbenches. With various installation styles, including pipe, ALM, and FAN lamps, you can select a size according to the area of coverage, so you can maximize the area of the installation. Pre-installed ion balance sensors let you easily identify the discharge method and yet high speed ionization that removes electrostatic charges. Use the ionizer only with the included AC adapter. The result is a good balance between high speed ionization and technological sophistication at a reasonable price.

Easy installation

Ideal for narrow workbenches to wide lines

With their slim profiles, the ideal sizes for the installation environment and installation area can be selected. Stable installation and easy electrical connection methods are available, and the generally used 110V ionizers are unnecessary, which means you can save on power consumption. Easy maintenance

Easy electrode needle replacement owing to modular structure

The ion generation unit is a unit that can be easily and safely replaced. Needle cleaning very easy. Moreover, the electrode needles are angle can be easily adjusted against a graduated scale. An ALM lamp lights if trouble occurs, and a FAN lamp is lit when it is time for electrode needle maintenance, indicators and it can be output to an external device.

Reliability

Four indicators and an alarm output let you easily identify the operating status.

No-voltage contact input

Stand, L-mounting bracket and pipe-mounting bracket available.

Input/output circuit

External output is OFF(Open) state as one of the below conditions occurs.

Discharge stop input

(for both cleaning

Input current

Discharge method

Variable DC Ionization

Omron’s proprietary louver structure efficiently directs air stream properly to the target. Omron’s proprietary louver structure efficiently directs air stream properly to the target. Various installation styles are available according to work environment. The variable DC ionizer simultaneously controls ion quantity. The result is a good balance between high speed ionization and technological sophistication at a reasonable price. High speed ionization by delivering a high density ion flow on an efficiently channelled air stream.

Ion generation lamp

Cleaning lamp Power lamp

High speed ionization in a slim configuration

A compact, ionizer structure in a slim configuration. It is possible to install the unit in an area of 100 dia. or more, and it is possible to install it at a distance of 150 dia. or more from the target. High speed ionization, which cannot be achieved with conventional ionizers, is possible, and a flat, narrow structure allows the installation of a unit even when it is too close to the electrode needles.

Ionization performance

High speed ionization and technological sophistication at a reasonable price. Excellent cost-performance.

High speed ionization by delivering a high density ion flow on an efficiently channelled air stream.

Ion generation understood at a glance by LED lighting

Easy to clean and replace electrode needles

Various installation styles are available according to work environment. The variable DC ionizer simultaneously controls ion quantity. The result is a good balance between high speed ionization and technological sophistication at a reasonable price.
ZJ-FW Series

3 slim, lightweight types to choose from.
Easy installation.

- 1.2 s (0.8 s when used without filter)
- ±10 V max.

- Power (Green), Fan running (Green), Cleaning (Yellow), Alarm (Red)
- 24V DC ±10%, Ripple (p-p): 10%
- Residual voltage: 1V max
- Applied voltage: 30VDC max., load current: 100mA max.
- Photo MOS relay output (NPN or PNP)
- Ion balance adjustment (Automatic and manual)

- External output is OFF (Open) state as one of the below conditions occurs.
  - External output is ON (Close) state when ZJ-FW is working normally.
  - Front cover open, Cleaning, Fan rotation error, Malfunction error and Discharge stop input ON

High speed ionization with leading-edge technologies and a full-open structure that makes it easy to clean and replace electrode needles.

Reliability

Four indicators and an alarm output let you easily identify the operating status.

- Ionization time: Time required to lower the charge from ±1000 V to ±100 V
- Ion balance: *1 Typical default settings at the time of shipping from the factory
- Ion generation lamp: Cleaning lamp: Power lamp
- High voltage output: ION (Yellow), Cleaning: CLEANING (Orange), Power: POWER (Green)

Ionization performance

High speed ionization by delivering a high density ion flow on an efficiently channelled air stream

The ZJ-FA20 delivers technological sophistication at a low price, featuring high speed ionization and stainless steel discharge chamber. This ensures stable positive and negative ions to the target.

Excellent cost-performance.

The ZJ-FW Series features a slim, lightweight configuration. This means that the ionizer can be installed in areas where conventional types cannot be used.

Owing to modular structure.

High speed ionization in a slim configuration

The ZJ-FW Series is a modular design. This allows you to choose the most suitable configuration.

- Installation performance
  - High speed ionization
  - Stainless steel discharge chamber for stable ion generation
  - Efficient channelled air stream

- Discharge method
  - Proprietary louver structure
  - Discharge method

- Ionization performance
  - High speed ionization
  - Stainless steel discharge chamber
  - Efficient channelled air stream

- Discharge method
  - Proprietary louver structure
  - Discharge method

- Ionization performance
  - High speed ionization
  - Stainless steel discharge chamber
  - Efficient channelled air stream

- Discharge method
  - Proprietary louver structure
  - Discharge method

Easy to use

Standard type for a fan type ionizer with high performance

- ZJ-FA20
  - Easy-to-use and lightweight body
  - Area coverage 3 types
  - Ionization time 59.5mm
  - Airflow Max. 1000 mm/s
  - Distance from measurement point 300 mm

Typical applications:
- Workbenches or in high positions where earlier models experienced issues

**A new concept from the production floor.**