### Ionizers Overview

- **Overview**
  - Ionizers (neutralization equipment) are available with short lead time as anodic measures for FA applications.
  - Ionizers can continuously neutralize non-conductive materials with small environmental influence.
  - Newly added products are: 3 kinds of Fan Type (Medium-size/Compact) capable of neutralizing wide range/long distance; 1 Nozzle Type capable of spot neutralization and can be compact design for easy installation at any desired locations; and 3 kinds of Attachments for Nozzle Type.

- **Characteristics of Medium Size DC Fan Type (ENZR-GB)**
  - Electric sound and super high neutralization rate is aided by 6 electrode pins and large air volume. (Under the following conditions)
  - Maximizing the range of wind velocity realized slight wind and high speed neutralization.

- **Characteristics of Compact DC Fan Type (ENZR-B)**
  - Single high voltage transformer generates both positive and negative high voltages.

- **Characteristics of Nozzle Type (ENZR-R)**
  - For its compact design, it can be installed in narrow places inside various kinds of equipments.
  - Using the same model for neutralizing a wider area is effective.

- **Neutralization Efficiency Data by Wind Velocity**

<table>
<thead>
<tr>
<th>Wind Velocity</th>
<th>Max. 400mm</th>
<th>Max. 250mm</th>
<th>Measured Distance 300mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top: Ion Balance</td>
<td>1.4 Sec</td>
<td>1.2 Sec</td>
<td>2.4 Sec</td>
</tr>
<tr>
<td>Top: +2V</td>
<td>2.5 Sec</td>
<td>2.4 Sec</td>
<td>3.5 Sec</td>
</tr>
<tr>
<td>Top: ±0V</td>
<td>0.1 Sec</td>
<td>0.2 Sec</td>
<td>0.3 Sec</td>
</tr>
<tr>
<td>Top: -2V</td>
<td>0.1 Sec</td>
<td>0.2 Sec</td>
<td>0.3 Sec</td>
</tr>
<tr>
<td>Top: +3V</td>
<td>0.1 Sec</td>
<td>0.2 Sec</td>
<td>0.3 Sec</td>
</tr>
<tr>
<td>Top: -3V</td>
<td>0.1 Sec</td>
<td>0.2 Sec</td>
<td>0.3 Sec</td>
</tr>
<tr>
<td>Bottom: +2V</td>
<td>0.1 Sec</td>
<td>0.2 Sec</td>
<td>0.3 Sec</td>
</tr>
<tr>
<td>Bottom: ±0V</td>
<td>0.1 Sec</td>
<td>0.2 Sec</td>
<td>0.3 Sec</td>
</tr>
<tr>
<td>Bottom: -2V</td>
<td>0.1 Sec</td>
<td>0.2 Sec</td>
<td>0.3 Sec</td>
</tr>
</tbody>
</table>

- **Ion Balance and Neutralization Properties**
  - **Medium Size DC Fan Type (ENZR-GB)**
  - **Compact DC Fan Type (ENZR-B)**
  - **Nozzle Type (ENZR-R)**

- **Ionizers Specifications**

<table>
<thead>
<tr>
<th>Ionizers Type</th>
<th>Part Number</th>
<th>Volume Discount Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENZR-R</td>
<td>P.496–498</td>
<td></td>
</tr>
</tbody>
</table>

### Ionizers Medium DC Fan Type / Compact DC Fan Type / Nozzle Type

- **Part Name**
  - Power Switch
  - Power Lamp
  - Cleaning Lamp
  - Fan Speed Controller
  - Power Supply Connector (Input)
  - Power Supply Connector (Output)
  - Power Supply Connector (DC)
  - Angle Adjustable Knob

- **Material**
  - Main Body Case: ABS
  - Stand: SS304

- **Part Number**
  - ENZR-RAC
  - AC Adaptor/R (for AC Adaptor)

- **Connecting the power supply in reverse polarity may cause failure.**

- **Trouble**
  - Power Switch
  - Power Lamp
  - Cleaning Lamp
  - Fan Speed Controller
  - Power Supply Connector (Input)
  - Power Supply Connector (Output)
  - Power Supply Connector (DC)
  - Angle Adjustable Knob

- **Backup**
  - AC Adaptor/R (for AC Adaptor)

- **For orders larger than indicated quantity, please check with WOS.**

### Precautions for Use of Ionizers

- Neutralization results vary substantially depending on installation distance, angle, air volume (Fan Type) and air pressure. Please ensure the neutralization results before use.
- Periodical maintenance is necessary. Dirty electrode pins and surroundings may lower the performance or cause displacement of ion balance. Maintenance period may vary depending on the operating environment. Utilize the cleaning lamp as a guide.

### Ionizer Free Consignment Sample Service

- **Overview**
  - MISUMI provides a free sample consignment service catered for various customer needs.
  - A "Rental Only" unit is consigned.
  - Rental Only Unit can be tested in customer’s condition of use.
  - Consignment Ordering Method: Add “-R” after the product name.

- **Static Charge Sensor Consignment**
  - Neutralization effects can be verified numerically by Static Charge Sensor.
  - Consignment Ordering Method: Order with the part number "ENZR-S-R".

- **Models available for consignment:** ENZR-GB, ENZR-B, ENZR-RA, ENZR-RA, ENZR-T, ENZR-R1, ENZR-R2
  - Consignment may be unavailable when "Rental Only" units are in the Rental state.
  - Orders are accepted by 17:00. Shipped on the next business day (Excluding Sat./Sun./Holidays).
  - 10 days rental period. To return the units, follow the instruction in the document included in the package.

- **For details of this service, see http://fa.misumi.jp/sei/. Ionizer product manual is available for download also.**