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|------------------|--|---|---------------------|
| Attn.: Customers | Title:<br><br><b>Cautions on Aging<br/>of Electric Units</b> | No.   | VeQRR2-0080-00004-4 |
|                  |  | Date  | June 14, 2021       |
|                  |  | CANON ANELVA CORPORATION<br>Quality Management Div. |                     |

Thank you for using CANON ANELVA products.

We would like to inform you that caution is requested to the aging of electric units to secure safe use of CANON ANELVA products.

## NOTE

### 1. Introduction

Our products exercise their expected performance when all the components of the electric units **operate normally**. After the lifetime has elapsed on the components, the performance of these parts **deteriorate over time** and may generate system failure, which could lead to burnout; please contact our service representatives in charge for **renewal of the electric units over the lifetime**.

### 2. Renewal Guideline of Electric Units

The following table describes renewal guideline of electric units used in our products based on the estimated lifetime of the components.

\*The actual cycle varies depending on its use environment (ambient temperature, ventilation condition, power energizing time). The following is just the estimated lifetime for your reference, and cannot be regarded as the specification.

| Components of Electric Units    | Estimated lifetime            | Possible trouble after deteriorated  |
|---------------------------------|-------------------------------|--|
| Battery                         | 3 - 5 years                   | <ul style="list-style-type: none"> <li>•Data loss caused by low electric capacity</li> <li>•Short circuit caused by liquid leak</li> </ul>   |
| Aluminum electrolytic capacitor | 5 - 8 years                   | <ul style="list-style-type: none"> <li>•Electric capacity decreased by electrolyte volatilization</li> <li>•Short circuit caused by leak</li> </ul>                                      |
| Relay                           | Depending on usage conditions | Malfunction  |
| Fuse                            | 10 years                      | Operation stops suddenly by its melt down  |
| Cooling fan                     | 3 - 5 years                   | <ul style="list-style-type: none"> <li>•Temperature of the component increases</li> <li>•Fan motor overheat</li> </ul>   |
| Transformer                     | 10 - 15 years                 | <ul style="list-style-type: none"> <li>•Reduction of insulation resistance by deterioration of insulating material</li> <li>•Short circuit caused by insulation deterioration</li> </ul> |

### 3. Applicable Parts

There are various parts applicable, such as;

|                               |                      |
|-------------------------------|----------------------|
| Programmable Controller (PLC) | Computer             |
| UPS                           | Process Power Supply |
| Vacuum Gauge                  | Inverter             |
| Servo Amplifier               | Switching Regulator  |
| Robot Controller              | etc.                 |

### 4. Service

The renewal services require specialized knowledge and skills; If any of the above listed parts are used over time, contact us for renewal to new electric units with additional charges.

We will continually improve the product quality and reliability to ensure customer satisfaction.

|                            |  |   |
|----------------------------|--|---|
| Applicable product         | CANON ANELVA products  | — |
| Action items               | Different depending on the products.<br>Contact our service representatives for details.   | — |
| Price, Delivery, Work time | We will replace electric units with additional charges.<br>Contact our service representatives for details.  | — |
| Schedule                   | Contact our service representatives for details.   | — |
| Remarks                    | Revision history:<br>Rev 2: May 1, 2015<br>Added Section.2<br>Rev 3: Nov 28, 2018<br>Added cautions on Section 2<br>Rev 4: Jun 14, 2021<br>Reviewed the descriptions | — |

Feel free to contact our sales or service representatives.

<https://anelva.canon/english/contacts/index.html>