



Pneumatic Components (Clean Filter)

To Use This Product Safely

Be sure to read this before use. For general pneumatic components precautions, see Intro 27 and detailed precautions for individual series "⚠ Safety precautions."

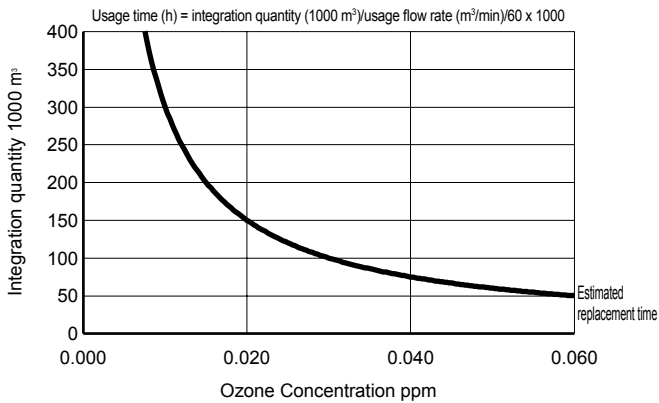
Individual Precautions : Clean filter FCS Series

Design / Selection

⚠ Warning

- Use the product within its specific specification range.
- This product is designed for industrial use. Do not use for medical purposes, or in any equipment or circuit that concerns human life.
- Securing maintenance space
Secure sufficient space for maintenance and inspection.
- Do not use this product in an atmosphere containing organic solvents or chemicals, etc., or where the product may come in contact with these substances. Not observing this could damage the polyamide housing. Please use the stainless steel type.
- Prevent the generated ozone from passing through the filter. Otherwise the filter element may be degraded. Take care especially when using an ozone generator (e.g., ionizer) together.
 - ① Do not install upstream of the filter.
 - ② When installing downstream of the filter, stop air while static electricity is neutralized since generated ozone may flow back.
- Do not use in locations where ultraviolet rays are directly irradiated.
- If the hollow fiber membrane in the filter suffers oxidative degradation from ozone or ultraviolet in the fluid, it may be damaged and allow flow over to the secondary side. Implement periodic inspections and exchange. Refer to the figure (graph) below for the replacement timing guide.

Relationship between Ozone Concentration and Integrated Amount
Filter Element Replacement Time



⚠ CAUTION

- Check the Operating circuit and Operating fluid.
To prevent drop in filter performance, install the dryer, air filters and oil mist filter on the primary side, and remove water or oil.
- Do not exceed maximum Operating or differential pressure.
There is a risk of product damage and element membrane damage.
- Do not create flow exceeding the max. processing flow rate.
Doing so may degrade the filtration accuracy and damage the element membrane.
- This device cannot be used as an absolute filter (absolute Degree of filtration).
The filtration rating of FCS500 is 99.99 % within the specification conditions. Do not use for applications where foreign matter is extremely disliked (such as direct blow to wafers).
- Do not use where the IN/OUT pressure differential exceeds 0.1 MPa.
Suddenly supplying air to the filter by blowing air with secondary side released to atmospheric pressure, etc., could make removal inefficient. In this case, install a restriction valve on the filter's IN side to keep the pressure difference to 0.1 MPa or less.
- Alcohol is used in the manufacturing line of some parts of this product.

For precautions regarding mounting, installation, adjustment, operation, and maintenance, please refer to the CKD Components Product Site (<https://www.ckd.co.jp/kiki/en/>) → 'model No.' → Instruction Manual.

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