



Safety Precautions

Be sure to read this section before use.  
Refer to Intro 15 for General Precautions.

Large main line filter AF3000 Series

Manufacturer's Disclaimer

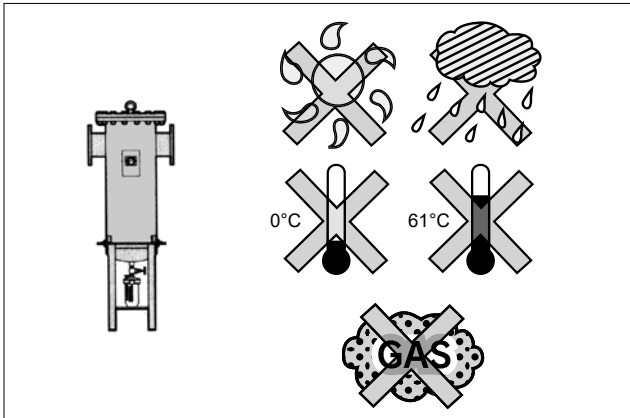
WARNING

- The manufacturer cannot be held liable in the following cases:
  - In the case where there are serious errors in the operator's use.
  - Illegal modifications or repairs using non-standard parts by user.

Design / Selection

WARNING

- Do not use for applications other than compressed air.
- Do not use for caisson shields or medical devices such as breathing devices, or for direct air blow onto foodstuffs.  
Doing so may result in serious injury.
- Do not mount and use this device on transportation equipment such as vehicles or ships.  
Vibration may cause internal damage.
- Avoid direct sunlight and rain water. Resin parts, etc., are likely to deteriorate and break.
- Do not use in locations with corrosive gases.



- Use this product within the range of the working temperature.
- Do not use in locations where there is a risk of freezing. There is a risk that condensate accumulated inside the product may freeze and damage the product.
- Do not use in hazardous locations (e.g., potentially explosive atmospheres).
- The inlet air temperature should be kept as low as possible. The higher the temperature, the worse the oil removal rate.

- Do not use this product in an ozone generating environment.
- Avoid using this product where vibration and impact are present.
- Do not use this product in areas containing dust, etc.
- Do not use in environments where the following gaseous substances are contained in compressed air.
  - Sulfur dioxide, Chlorine gas
  - Aromatic hydrocarbon compounds(For example, benzene, toluene, phenol, cyclohexane, etc.)
  - Chlorinated hydrocarbon compounds (For example, trichloroethylene, chloroform, etc.)
  - Ketones (Example: Acetone, etc.)
  - Aldehydes (For example, formaldehyde or acetaldehyde, etc.)
  - Amines (Example: Ethylamine, Methylamine ,etc.)
- Always set the air flow to within the working pressure range and the processing air rate.  
Otherwise, water, dust, and oil removal performance may be compromised.
- Install indoors.
- The inside of the AF3000 Series is coated to prevent rust. However, when using this series for applications susceptible to rust, the stainless steel housing "AF5000 Series (Page 265)" is recommended.

CAUTION

- Class 2 pressure vessel according to "Safety regulation of boiler and pressure vessel" in Occupational Safety Sanitation Laws is applied in model No. AF3032 to 3256.
- Model No. AF3032 to 3256 have a Class 2 pressure vessel pressure proof certificate. This certificate must be kept in safe-keeping while using this product. (Labor Standards Supervision Officenotification to is not required.)

- The air filter life is spent when the pressure drops to 0.07 MPa or after one year of use, whichever comes first. Change all elements when the service life is reached.  
(X Series cannot control service life due to the differential pressure. Therefore, replace the filter after 1,000 hours of use or when the deodorizing effect is lost.)



0.07 MPa

Chemical resistance of drain discharger plastic bowl

Types of Chemicals	Categories of Chemicals	Main Products of Chemicals	General Applications	Polycarbonate	Nylon
Inorganic compounds	Acids	Hydrochloric acid, sulfuric acid, fluorine, phosphoric acid, chromic acid, etc.	Acid washing of metals, acidic degreasing solutions, coating treatment solutions	×	×
	Alkalines	Caustic soda, caustic potash, calcium hydroxide, aqueous ammonia, sodium carbonate, etc.	Alkaline degreasing solution for metals	×	○
	Inorganic salts	Sodium sulfide, potassium nitrate, potassium bichromate, sodium sulfate, etc.		×	○
Organic compounds	Aromatic hydrocarbons	Benzene, toluene, xylene, ethyl benzene, styrene, etc.	Contained in paint thinner (benzene, toluene, xylene)	×	×
	Chlorinated Aliphatic Hydrocarbons	Methyl chloride, ethylene chloride, methylene chloride, acetylene chloride, chloroform, trichlene, perchlene, carbon tetrachloride	Organic Solvent-Based Washing Solution for Metals (Trichloroethylene, Tetrachloroethylene, Carbon Tetrachloride, etc.)	×	○
	Chlorinated Aromatic Hydrocarbons	Chlorobenzene, dichlorobenzene, benzene hexachloride (B/H/C), etc.	Agricultural chemicals	×	○
	Petroleum components	Solvent, naphtha, gasoline		×	○
	Alcohols	Methanol, ethanol, cyclohexanol, benzyl alcohol	Used as an antifreeze agent	×	×
	Phenol	Carbolic acid, cresol, naphthol, etc.	Disinfectant solution	×	×
	Ethers	Methyl ether, methyl ethyl ether, ethyl ether	Brake fluid additive	×	○
	Ketones	Acetone, methyl ethyl ketone, cyclohexanone, acetophenone, etc.		×	×
	Carboxylic acids	Formic acid, acetic acid, butyl acid, acrylic acid, oxalic acid, phthalic acid, etc.	Dyes; oxalic acid for aluminum processing; phthalic acid for paint base	×	×
	Phosphate ester	Dimethyl phthalate (DMP), diethyl phthalate (DEP), dibutyl phthalate (DBP), dioctyl phthalate (DOP)	Lubricant, synthetic hydraulic fluid, rust preventative additives used as plasticizers for synthetic resins	×	○
	Oxyacids	Glycolic acid, lactic acid, malic acid, citric acid, tartaric acid		×	×
	Nitro compounds	Nitromethane, nitroethane, nitroethylene, nitrobenzene, etc.		×	○
	Amines	Methylamine, dimethylamine, ethylamine, aniline, acetanilide, etc.	Brake fluid additive	×	×
	Nitriles	Acetonitrile, acrylonitrile, benzonitrile, acetoisonitrile, etc.	Raw material for nitrile rubber	×	○

○ symbol: Usable, × symbol: Not usable

For precautions during mounting, installation, adjustment, use and maintenance, refer to the CKD Components Product Site (<https://www.ckd.co.jp/kiki/en/>) → "Model No. → [Instruction Manual](#)