



Safety Precautions

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

Product-specific cautions: Medium main line filter AF4000 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.

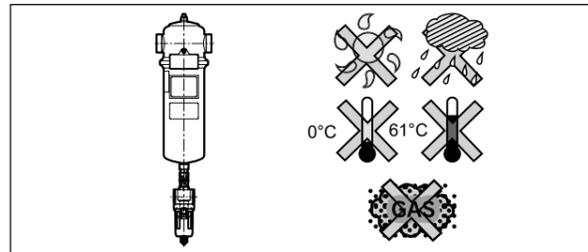
Design / Selection

WARNING

- Do not use for applications other than compressed air.
- Do not use for caisson shields or medical devices such as breathing devices.
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 may deteriorate and break.
- Do not use in locations with corrosive gases.
- Use this product within the range of the working temperature.
- Do not use the product where it could freeze. Accumulated drain may freeze and damage the product.
- Do not use in hazardous locations (possibly explosive atmospheres, etc.).
- The inlet air temperature should be kept as low as possible. Higher temperatures reduce oil removal efficiency.
- Do not use this product in an ozone generating environment.
- Avoid use where vibration and impact are present.
- Do not use this product in areas containing dust, etc.
- Do not use this product in an environment in which the compressed air contains the following gases.
 - Sulfur dioxide, Chlorine gas
 - Aromatic hydrocarbon compounds (For example, benzene, toluene, phenol, cyclohexane, etc.)
 - Chlorinated hydrocarbon compounds (Example: Trichloroethylene, Chloroform, etc.)
 - Ketones (Example: Acetone, etc.)
 - Aldehydes (Example: Formaldehyde, 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 drain discharger is a normally open type. The compatible compressor capacity is 0.75 kW or more (discharge flow rate 90 L/min or more).
- The air filter service life is reached when the pressure drops, or after 8000 hours or one year of use. Replace the element with a new one when its lifespan is reached. When using an element life indicator, replace the indicator battery with a new one when replacing the element. (Replace the X type element when the service life is reached, or when the deodorizing effect is lost.)
- The drain discharger is air purged with the initially generated drainage until the pressure rises to 0.1 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 solution	×	×
	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 are used for aluminum treatment Phthalic acid used for paint base	×	×
	Phosphate ester	Dimethyl phthalate (DMP), diethyl phthalate (DEP), dibutyl phthalate (DBP), dioctyl phthalate (DOP)	Lubricant, synthetic coolant, rust preventing agent additives Used as plasticizer for synthetic resin	×	○
	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](#)