

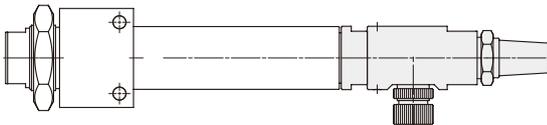
Indications for safe use

Be sure to read this service manual before the use, maintenance, inspection or disassembly of this product, and fully understand the meaning of the following indications for safe use of the jet cooler.

- ! DANGER** This indication denotes an extremely high possibility that wrong handling of this product may cause the user to suffer death, severe injuries or fatal health harm.
- ! WARNING** This indication denotes a possibility that wrong handling of this product may cause the user to suffer death, severe injuries or fatal health harm.
- ! CAUTION** This indication denotes a possibility that wrong handling of this product may cause the user to suffer severe injuries or may impair user's health or may lead to property damage.

Instructions for use

- ! DANGER** Do not use this product for other purposes than its original usage or the range of its specifications.
Do not use this product with other gases than air.
- ! WARNING** Do not remove any part to use it for any other equipment, or do not use any other parts than the specified items.
Use the product in the range of working pressure being 0.3~0.7 MPa.
- ! CAUTION** Note that hot air is discharged from the hot air exhaust port during the product use. Take care not to get burnt because the section protected with mesh may become as hot as 70°C at the maximum when the inlet air temperature is 20°C depending on the use conditions.



Abmission of dust or oil may reduce the cooling ability. Supply only clean air.

Fault and repair

If the temperature drop has become insufficient, make inspection in the following steps.

1. Make readjustment using the adjustment screw.
2. Check for clogging of the filter or oil mist separator, causing the drop of supply pressure.
3. Check whether the air is supplied sufficiently.

Note that the company shall not be responsible for anything that has been disassembled by the user.

Piping

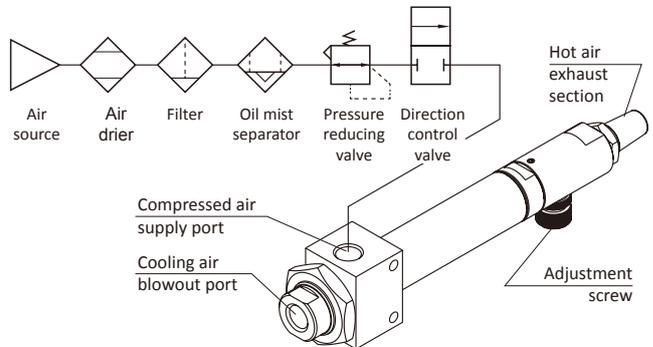
! CAUTION

- Before placing pipes, thoroughly flush inside the piping in order to remove dust and other foreign matters inside the piping.
- When in piping, apply seal tapes or sealant on the threaded zone.
- Pay attention so that chips or sealant may not enter inside when screwing pipes or fittings. Execute tightening in a proper manner in the range of the specified tightening torque.

Piping size	Tightening torque (N.m)
Rc1/8	73.0 ~ 9.0
Rc1/4	12~14
Rc3/8	22~24

- Moisture contained in the compressed air to be supplied will cause freezing in the cold air nozzle section. If the nozzle is frozen, ice particles will take place in the cooling air.
For prevention of such trouble, be sure to supply dry air that have been dehydrated by an air drier or similar other devices.
- Install an air filter (40um or finer) and an oil mist separator in order to prevent the cooling ability from lowering due to dust, oil or other substances. Recommended with MAMG+MAMB+MAMD product.
- Use large inner diameter tubes and fittings as large as possible for input ports. Small inner diameter tubes and fitting make insufficient air supply and cause the cooling performance decrease. Please check the capacity page of catalog for recommended air consumption value.
- While piping the cool air port, the fittings and tube must be insulation materials. Or the surface of tube will occur condensed water or ice and cause the output port of tube reduce the cooling performance.

Example of piping connection



Adjustment of cooling air temperature

! CAUTION

Use the adjustment screw at the rear of the main unit for adjustment of temperature. Counterclockwise turning (loosening) of the adjustment screw will lower the temperature, decreasing the cold air temperature, Clockwise turning (tightening) of the adjustment screw will bring opposite results.

