

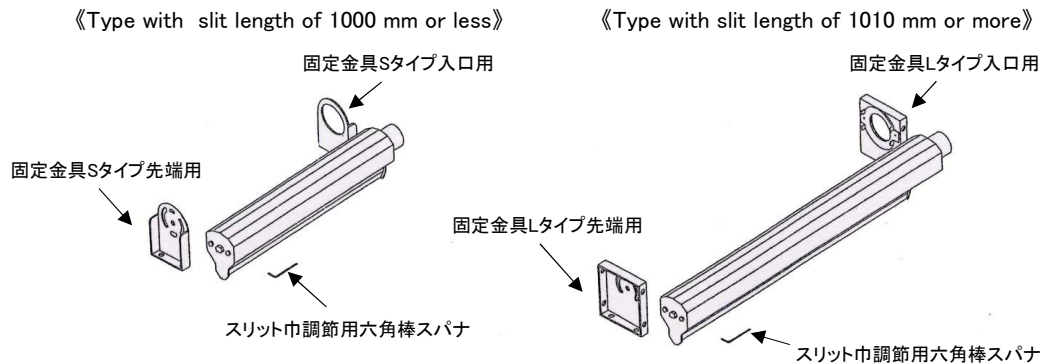
Be sure to hand this instruction manual to the end user.

HIGH BLOW NOZZLE SUS

MANUAL

● Please be sure to read before use.

- ◆ Thank you for purchasing the High Blow Nozzle SUS.
- ◆ Check the nameplate on the main unit to make sure that the model, part number and accessories are the same as the product you ordered.



1. PRECAUTION FOR USE

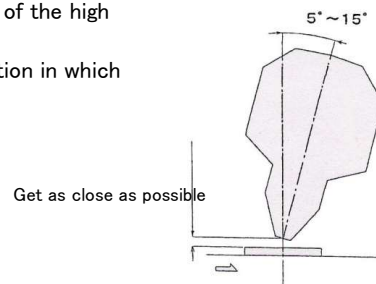
Be sure to strictly observe the cautions for using the high blow nozzle SUS.

- ① When using the High Blow Nozzle SUS, be sure to fully understand the performance of the blower and hot air generator, and use each method with due consideration.
- ② Never allow fluids other than air to pass through this product.
- ③ If you give a shock to this product, it may be damaged or deformed. Handle it carefully.
- ④ When discharging hot air, be sure to fully understand the surrounding environment and install a dedicated heat insulating material, or take measures against burns and environmental measures such as installing a cover.
- ⑤ The heat resistant temperature of this product is 350° C or less. If it is used at a temperature higher than that, deformation due to heat and air leakage will occur.
- ⑥ The effective wind speed is determined by the product type, slit length, and slit width (see catalog). If the product is used outside this range, the left and right wind speeds will fluctuate, and uniform air will not be discharged, resulting in poor performance. Be sure to use the product within the effective wind speed.
- ⑦ The maximum withstand pressure of this product is 49 kPa or less. If you use it with a pressure higher than this, there is a risk of bursting, so please strictly observe the maximum withstand pressure.

2. EFFICIENT USE

Please refer to the following as an effective installation method of the high blow nozzle SUS when draining and drying with hot air.

- ① Install at an angle of 5° to 15° with respect to the direction in which the object is being conveyed.
- ② Make the distance between the high blow nozzle SUS and the target as close as possible.

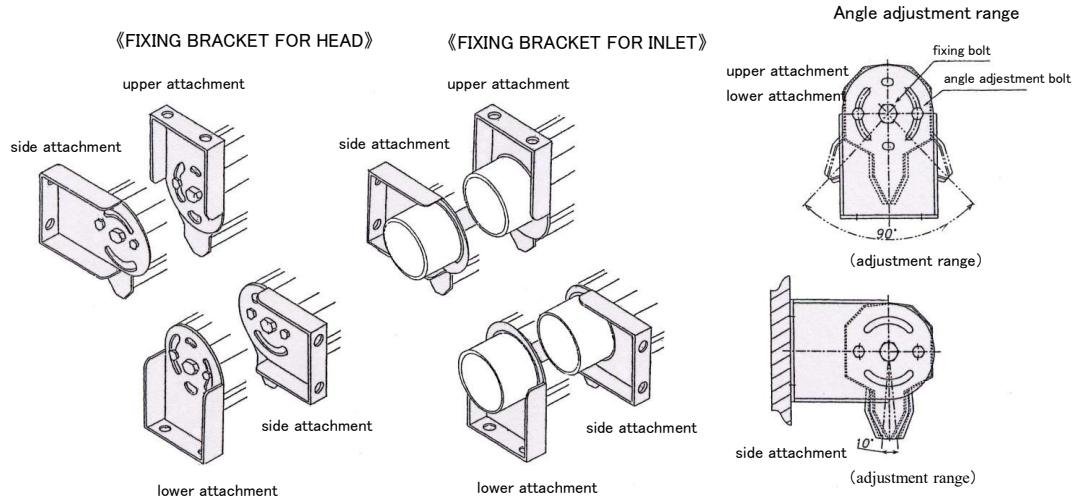


3. HOW TO FIX

The high blow nozzle SUS is equipped with a fixing bracket as standard. Fixing brackets differ depending on the slit length of the nozzle, so fix it according to the nozzle length. Also, with the angle adjustment bolt, it can be adjusted to any blowing angle.

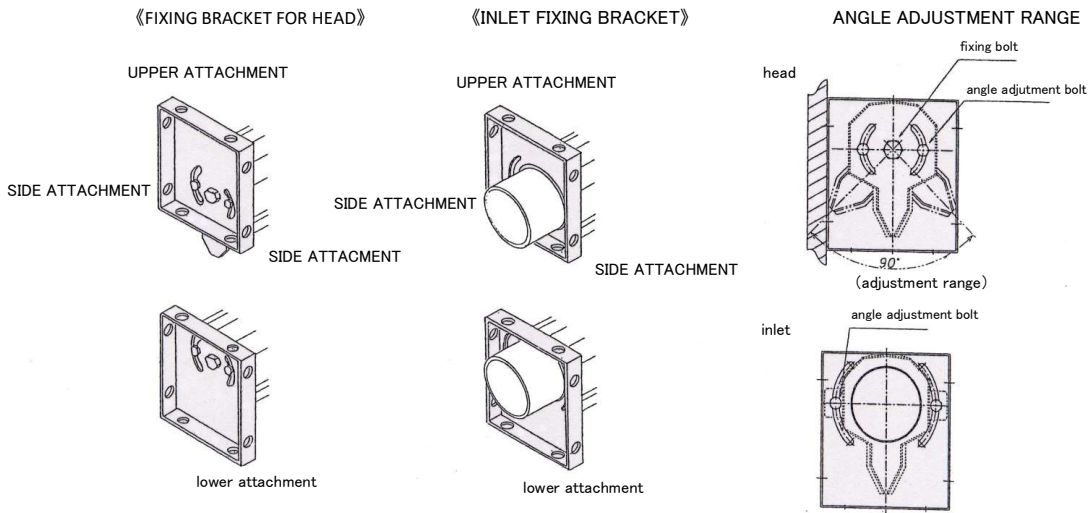
① slit length of 1000 mm or less

By changing the mounting direction, the fixing fittings for the entrance and the tip can be installed on the top, bottom or both sides. However, the adjustment of the blowing angle is up to 90° for upper and lower mounting, and up to 30° for both side mounting.



② slit length of 1010 mm or more

By changing the mounting direction, the fixing fittings for the inlet and the tip can be mounted on the upper part or the lower part, and can be mounted on both sides without changing the mounting direction. However, the blowing angle can be adjusted up to 90° regardless of the mounting direction.



《attention》

1. Be sure to securely tighten the fixing bolt and the angle adjusting bolt.
2. Do not load the nozzle. It may be deformed.
3. When fixing the nozzle, take into consideration the weight of the nozzle and ensure that it does not fall off due to vibration.
4. When passing hot air through the nozzle, the fixing bracket will also become hot, so take sufficient measures to prevent heat from the fixed part and the surrounding area (heat insulating material for the nozzle is also available as an option). Also, the nozzle itself expands thermally. Make sure to install a space in the inlet fixing bracket (stainless steel expands about 3 mm per 1 m at 350° C). However, if you purchase the supply port position as the upper part or the front supply port type or the supply port shape with the fixing flange type, the slits due to thermal expansion will not be created because the clearance cannot be created on the side of the fixing bracket for the inlet. There is a possibility that the width will widen and the discharge air will vary. In this case, we recommend that you make a gap on the mounting side of the fixing bracket or the fixing flange side.

4. PIPING

The air supply port of the high blow nozzle SUS is a pipe (outer diameter) of $\phi 65$, $\phi 75$, $\phi 100$, and $\phi 125$. Use flexible hoses, etc., whose inner diameter is the inner diameter.

- ① When connecting to the flexible hose, securely tighten it with a high torque band, etc., and attach it so that there is no air leakage.
- ② Select the flexible hose for connection considering the pressure of the blower, the temperature of the hot air to be supplied, etc.
- ③ When piping through hot air, the piping will become hot, so take sufficient consideration of the surrounding environment and take measures against burns and environmental measures such as heat insulation construction and cover installation.

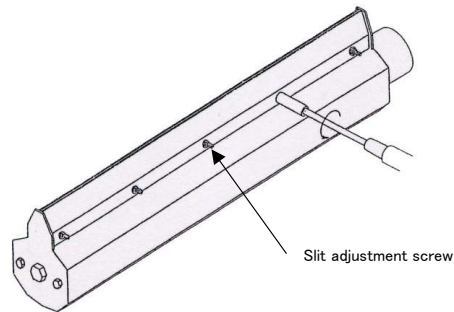
5. How to adjust the slit

With the high blow nozzle SUS, the slit width can be adjusted using the included hexagonal wrench if the discharge wind speed is disturbed or if you want to change the slit width arbitrarily.

【Slit width adjustment method】

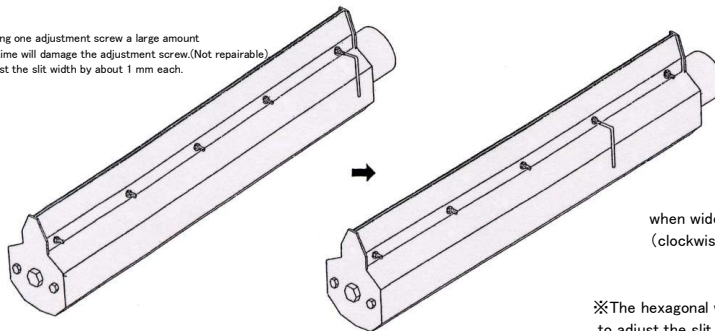
1. When widening the slit width

- ① Loosen the U nuts (M4) of the slit adjustment screws on both sides with a box wrench.



- ② Firmly insert the included hexagonal wrench into the hexagonal hole of the slit adjustment screw, and turn the hexagonal wrench clockwise until there is slight looseness (start from the supply port or the tip side).
- ③ If you feel a collision, turn the next slit adjustment screw in the same way until you feel a collision.

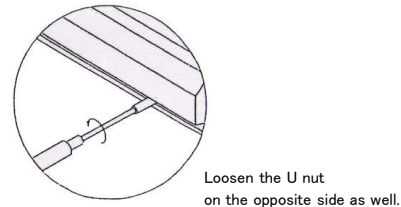
Turning one adjustment screw a large amount at a time will damage the adjustment screw. (Not repairable)
Adjust the slit width by about 1 mm each.



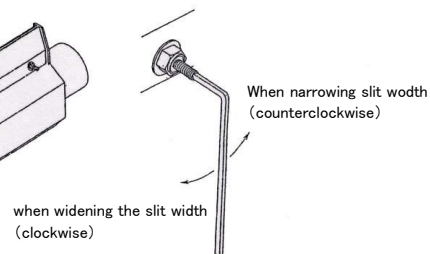
- ④ If you want to further widen the slit width after turning all the slit adjustment screws, turn again from the first slit adjustment screw in order and adjust to the desired slit width.
- ⑤ After adjusting, while fixing the slit adjustment screw with a hexagonal wrench, tighten the U nut on the opposite side with a box wrench.
- ⑥ Finally, tighten the U-nut on the hexagon socket side.

2. When narrowing the slit width

- ① Loosen the U nuts (M4) of the slit adjustment screws on both sides with a box wrench.



- ② Insert the included hexagonal wrench firmly into the hexagonal hole of the slit adjustment screw, and turn the hexagonal wrench counterclockwise until there is slight looseness (start from the supply port or the tip side).
- ③ If you feel a collision, turn the next slit adjustment screw in the same way until you feel a collision.



※The hexagonal wrench can be rotated half a turn to adjust the slit width of about 0.5 mm.

- ④ After turning all the slit adjusting screws, while fixing the slit adjusting screws with the hexagonal wrench, tighten the U nut on the opposite side with a box wrench etc. This will make the slit width actually adjusted.
- ⑤ If you want to further narrow the slit width, loosen the U-nuts on the slit adjustment screws on both sides again, and turn them in order from the first slit adjustment screw to adjust to the desired slit width.
- ⑥ After adjusting, while fixing the slit adjustment screw with a hexagonal wrench, tighten the U nut on the opposite side with a box wrench or the like.
- ⑦ Finally, tighten the U-nut on the hexagon socket side.

《CAUTION》

1. Be sure to insert the hexagon wrench firmly to adjust the slit. If the slit adjusting screw is turned in a loose state, the hexagon hole of the slit adjusting screw and the hexagonal spanner will be damaged.
2. 六角棒スパナにてスリット巾を調節中にアタリがあった場合は、絶対にそれ以上回さないでください。スリット調節ネジが損傷し、復旧できなくなります。アタリがあった場合は別の箇所のスリット調節ネジの調節に移行してください。
3. When passing hot air through the high blow nozzle SUS, adjust the slit width first and then fix the slit width (it is recommended to adjust during slit operation). After long-time hot air operation, the slit adjustment screw becomes difficult to rotate due to thermal expansion.
4. Depending on the performance of the blower, adjusting the slit to increase the discharge air speed may reduce the air volume and discharge air speed. Please refer to the performance curves in the catalog and adjust within the blower capacity range.
5. When loosening the U-nut of the slit adjustment screw, be careful not to drop it and drop it.
6. After adjustment, securely tighten the U nuts on both sides.

◆ caution ◆

- High blow nozzle SUS is for air only. Do not run liquid such as water. Although steam can be flowed, some leakage will occur from the screw part, gap, etc.
- High blow nozzle SUS cannot be disassembled and cleaned. Therefore, be sure to install a filter on the blower side when supplying air that contains dust or dirt. Also, when flowing air that contains a substance that solidifies when it cools, make sure that the air does not remain in the nozzle when stopped.
- Since the high blow nozzle SUS is a slit adjustable type, some air leakage may occur from both sides of the slit, but please note that this is not a malfunction.
- Since the high-blow nozzle SUS is a low pressure loss general-purpose type, the accuracy rating of the discharge air variation at both ends of the slit (about 25 mm) may be disturbed. Item 5. It may be improved a little by adjusting the slit width arbitrarily according to the slit adjustment method.
- When installing the high blow nozzle SUS, make sure that it does not come into contact with the target work. If a work such as an iron plate collides, the slit part of the high blow nozzle SUS will be damaged. In addition, when hot air is discharged, the surface of the high blow nozzle SUS also becomes hot, which may cause a fire if flammable workpieces come into contact with it.

MEMO



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