



KING NICE Tech. Co.,Ltd

Gas Dynamic Type

SLUDGE CHIP SAVER VACUMER

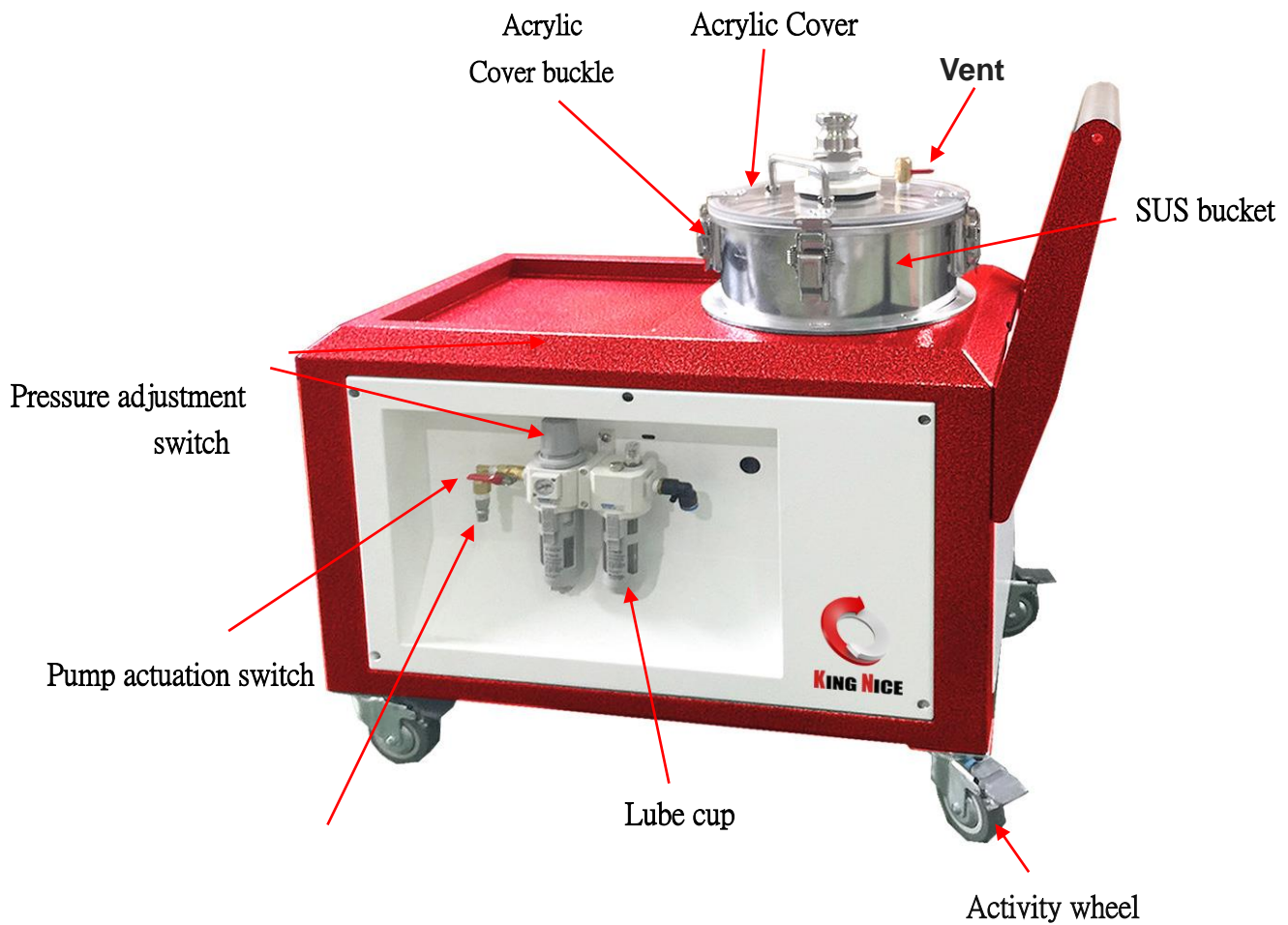
Operation & Maintenance

Gas Dynamic Type | Easily Recovered | Easily Dry

Names of parts and functions KN-V400



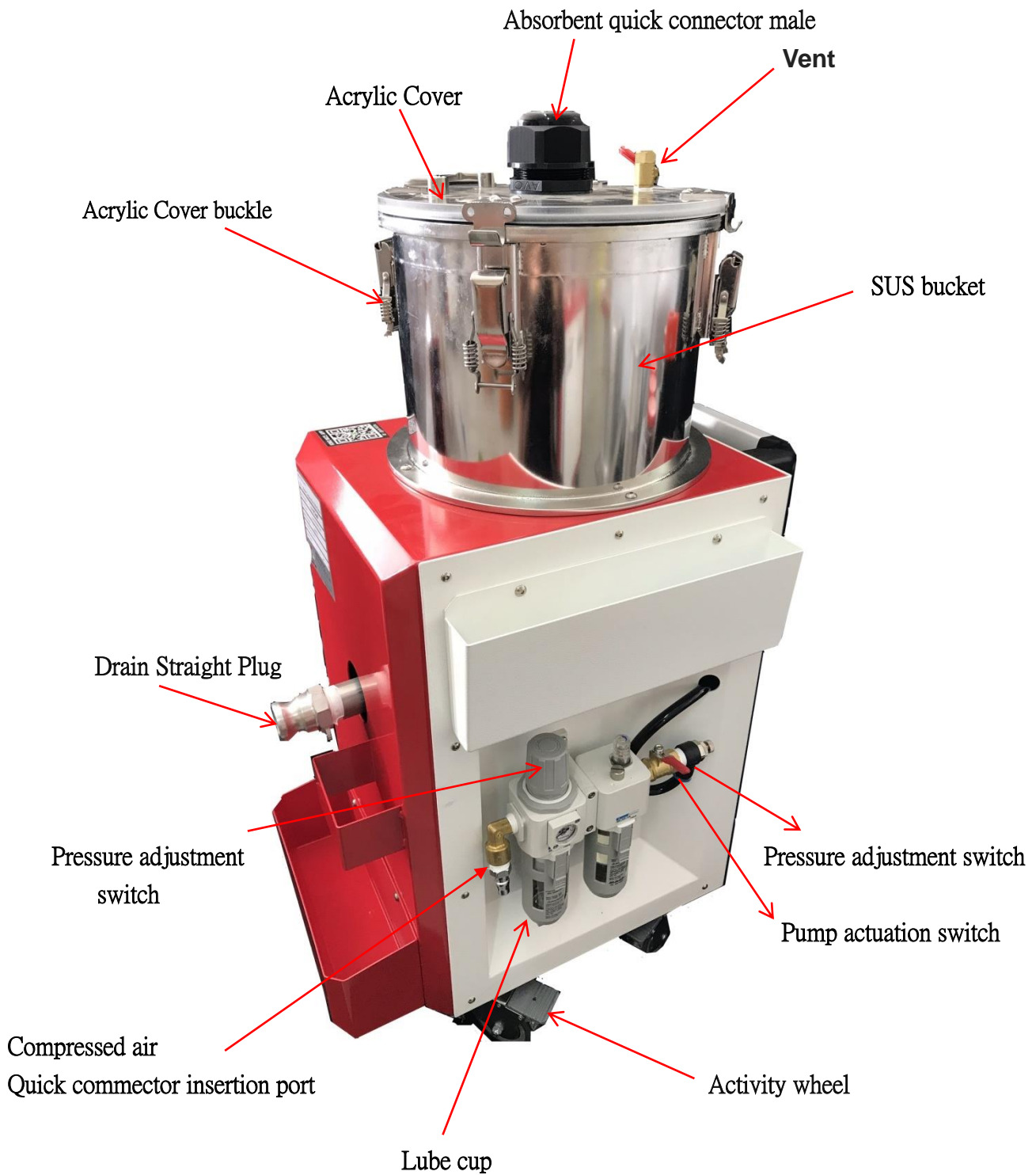
Names of parts and functions KN-V300



Compressed air
Quick connector insertion port



Names of parts and functions KN-V200



Installation Procedure

- 1.** The four buckles on the acrylic cover.



- 2.** Please use the screwdriver to lock the suction pipe.



- 3.** Please put the water-absorbing quick-connecting pipe into the male hose of the water-absorbing quick-connecting pipe and lock it.



- 4.** Fasten the acrylic top cover and the outer tub with the buckle.



- 5.** Insert the drain into the straight plug of the drain and lock it with a screwdriver.



- ©Filter bag use demonstration:**



- The hand reaches the bottom of the nylon filter bag, fits into the filter bucket, and is pressed in.

Instructions for use

- 1.** Please use the buckle on the acrylic top cover and the outer barrel.



- 2.** Connect the drain pipe to the drain connector and place it in the water tank to be drained.



- 3.** Put the suction pipe into the suction pipe joint and place it in the water tank to be cleaned.



- 4.** Install the compressed air duct with the quick connector into the quick connector insertion port and adjust the pressure to .5KG/CM2 - 7KG/CM2.



- 5.** Please do not close the exhaust valve. (When the exhaust valve or acrylic retaining ring is not closed properly, the unit will not be able to properly draw in liquid)



- 6.** Please turn the pump switch on.



- 7.** Lift the suction pipe and move it to the water tank to be cleaned for cleaning.



- 8.** At the end, lift the suction pipe and close the pump actuation switch after the drain is no longer draining water.



Notes

1. When cleaning the inner barrel, do not use the hard material to clean the inner barrel. If the stainless steel filter is damaged, it is not covered by the warranty
2. Please follow the recommendations of the use of oil does add a three-point combination of lubricating oil, as a result of the pump is not added lubricant damage, not within the warranty.
3. When the device is operated to suck and cut shavings, when the cutting liquid is full, it means that the inner filter has jammed. Please prepare stop pouring chips, please do not let the chips full bucket side, when the pressure inside the barrel is too easy to cause damage to the acrylic cover buckle ring low efficiency and suction tube chip clogging, indirectly affect the efficiency of device cleaning.
4. When the inner barrel filter blockage or suction pipe end due to chip jam will cause the pump action frequency is slow, please clean the inner barrel filter or suction pipe end of the chip and then let the device move again, do not allow the pump for a long time in the case of excessive pressure will be lead to pump diaphragm and parts life shortened.
5. Confirm that the pressure source has pressure of $5\text{KG} / \text{CM}^2$ - $7\text{KG} / \text{CM}^2$. If the pressure is too small or too big, it will cause insufficient suction of the pump filter bucket dry chip or sediment poor results or lead to pump damage.
6. The device is suitable for general oily or aqueous cutting fluid and entrained particles for transport, does not apply to dry particle delivery, such as the use of liquids other than the above, please check with the factory whether the applicable.
7. It is recommended to display the location of water tank within a radius of 2 meters, so as not to affect suction efficiency.
8. Be sure to fix it securely during installation. The device may be dumped, dropped, or abnormally operated, which may cause personal injury.
9. Please be sure to install a solid and reliable, the device dumping, dropping and abnormal

movements may cause personal injury.

10. Do not remodel this unit because the occurrence of abnormal operation may cause personal injury.

11. Do not be familiar with the device or related personnel, etc., do not disassemble the device, assembly and maintenance and other activities, not appropriate action may cause injury to personnel and equipment. The device in action, do not touch the built-in parts with your hands or body (such as plumbing, fittings, body mounting position adjustment, etc.) product dropouts, abnormal movements, etc. may cause personal injury.

Troubleshooting

★Pump air supply

Do not connect the air pressure source above 8KG / CM2.

- 一. Please use the provisions of the pressurized air pressure.
- 二. The size of the air supply pipe can not be smaller than the size of the inlet switch of the machine, so as to avoid affecting the work load due to insufficient air volume.

★Pump exhaust

- 一. The device will be submersible in water operation, but need to pay attention to the exhaust port is higher than the level.
- 二. When the machine is used for dangerous, flammable or toxic gas, pay attention to whether the exhaust position set safety.
- 三. The work site should be avoided, such as steam, solvents, alkalis and other gases, these gases into the pump pressure chamber, will likely reduce the internal wear parts life.

★Pump important point

The pump is driven by air pressure. Before decomposing the pump, be sure to turn off the air pressure source. Pump problems can not drive the reasons:

Problem 1 pump entrance blocked

Check 1 Remove the pump inlet and outlet piping and remove the plug and retest.

Problem 2 Air pressure is too low or air flow is too small

Check 2 Check the air pipe fittings are unobstructed, the air pressure is higher than the outlet pipe pressure, accessories damaged and then tested.

Problem 3 Liquid precipitation hardening

Check 3 Decomposition Pump Check pump internal, if there is sink hard or foreign objects,

remove it and then reassemble the pump and then test.

Problem 4 diaphragm rupture

Check 4 When the inlet and outlet pipes have a lot of air discharge or vent discharge liquid is discharged, it is possible diaphragm rupture, this time should decompose the pump to check the replacement diaphragm.

Problem 5 Inner ring hub assembly wear

Check 5 When the pump is not running smoothly and the muffler with abnormal air leakage phenomenon, there may be shaft ring cover damage, should be decomposed under the pump shaft ring cover group to check for damage and replacement.

Problem 6 Pneumatic valve damaged

Check 6 Pneumatic Valve May Be Damaged When Pump Does Not Normally Shut Down
Pneumatic Valve Should Be Removed Pneumatic Valve Should Be Checked Internal Parts Are Worn or Broken Replace Damaged Parts.

Problem 7 silencer blocked

Check 7 Remove muffler, clean or replace.

The pump will run without suction or suction bad reasons

Problem 1 pump inlet and outlet lines are blocked, broken leaks, pipe fittings failure.

Check 1 pump inlet and outlet pipeline connector removed, open the air pump operation, test pump inlet suction is normal, if normal indicates the cause of the malfunction in the pipeline or accessories if not normal check other troubleshooting.

Problem 2 When there is a lot of air in the outlet line or if there is liquid out of the vents.

Check 2 This condition may be broken diaphragm or loose pad inside and outside the diaphragm, this time should be decomposed pump inspection and replacement of the diaphragm.

Problem 3 The pump suction line is too long or too deep from the liquid level, beyond the pump suction range.

Problem 4 The pump output line is too far, too high, and the tube loss is calculated to exceed the pump fluid pressure.

Problem 5 Insufficient air pressure or air flow prevents the pump from generating normal suction.

Problem 6 outlet pipeline output fluid showing intermittent situation.

Check the diaphragm 6-1 damaged or loose pad inside and outside the diaphragm, this time should check whether the diaphragm replacement

Check 6-2 the check valve and valve seat decomposition, check the check valve and valve seat is stuck to the solid, if the card to the solid to remove him, according to the damage to be replaced.

Problem 7 The pump is out of service for too long and is not used, causing the

liquid being transported to cause precipitation hardening in the internal piping of

the pump body, clogging the pump's internal piping.

Check 7 Decomposition of the pipe and pump, the precipitation hardened clear detailed inspection of the parts, according to the loss of new products for replacement.

Pump maintenance after use

Note: Before disassembling this pump, make sure that the source of pressure has been turned off. There is no pressure effect in the machine

- 一. To prevent work stoppage when not in use hardening and clogging in the pump and pipeline, keep the pump at any time and suction hose and suction cup clean the filter, each time not in use, please change to transport water or appropriate cleaning liquid To clean the pump internal and pipeline, do not set the liquid material in the pipeline for a long time.
- 二. Replace the liquid material, the first feed tube lifted, remove the plug on both sides, the body of liquid material all spit out, the suction cup is now placed in a clean container barrel (about five liters of solvent) solvent, the internal After the cleaning is completed, the liquid sucker is sucked in the material bucket which is prepared for use by the sucker, and the material switch is closed and then used again

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Various types of material temperature limit:

S.T.P (synthetic rubber)	-29°C ~ 80°C
UPE	+5°C ~ 60°C
Teflon.PTFE	+4.4°C ~ +120°C