

OPERATING INSTRUCTIONS FOR SANITECH MARK I & II

PART 1 : SETTING UP THE MACHINE

1. Connect the garden hose to the faucet and the machine.
2. Connect the extension cord to the electrical outlet and the machine. The extension cord should be 50 feet or less and the gauge should be 14 or 12.
3. Connect the steam hose to the machine. Connect the steam wand to the steam hose.
4. Connect the LP gas regulator to the LP tank (30lb or 40 lb tank). Connect the LP gas hose to the machine using the quick connect fitting. Open the silver valve on the tank all the way "open".

PART 2 : TURNING THE MACHINE ON

1. Turn the water on at the faucet. Open the trigger gun by pulling the handle.
2. You must let the water run with the trigger gun open for at least two minutes to get all the air out of the heat coils. Put the green or white nozzle (found in the parts box) on the end of the wand.
3. Turn the pump switch "on". Pressure will be generated. Wait 30 seconds before the next step to be sure all the air is out of the coils.
4. With the trigger gun open, turn the ignition switch "on". You should hear a slight "click" sound. This sound shows the machine is trying to ignite. Reduce the fuel setting on the fuel pressure gauge to 2psi.
5. The unit will not ignite the first time you turn the ignition switch "on". Air is in the gas lines and it needs to be purged. Leave the ignition switch on for 10 seconds and turn it back "off". Then turn it back "on". Wait another 10 seconds and turn off. Repeat this process until the machine ignites.

NOTE: The trigger gun has to be open and the water flowing any time you are trying to ignite the unit.

PART 3 : SETTING THE TEMPERATURE

1. A good temperature for degreasing and cleaning without using any chemicals is 230°-240°f.
2. The machine should have been ignited at 2psi. You should now turn the black knob on the gas regulator clockwise until it is at 3psi. The temperature will slowly increase.
3. When the increase has stopped if you are below 230° increase the fuel pressure by ½ psi . Do this until the temperature is in the desired region.
4. The fan nozzles (green, white & optional yellow) will maintain a sharp cutting edge up to 250°. After this temperature the flat spray will start to "vaporize" or become more rounded. If you wish to Sanitize at temperatures above 250° we recommend that you use the zero degree red nozzle.

PART 4 : CLEANING WITH THE SANITECH

1. The Sanitech cleans primarily with temperature. It does not try to blast the surface clean with large water volumes and extremely high pressure. Get the nozzle as close to the surface as is necessary to remove the grease or other substances that you are cleaning.
2. Once you have established the correct distance clean as quickly as possible using a "back and forth" motion. Areas that are being cleaned for the first time might require a slow initial cleaning. Follow up cleanings can be done much more rapidly.
3. Try to use the trigger gun as infrequently as possible. Each time you close it the heat goes off. When you reopen the gun the ignition will come on in 1-3 seconds. During this time cold water is being pumped thru the coils. **Constant "on & off" will make it difficult to maintain a good temperature.**

PART 5 : TURNING THE MACHINE OFF

1. Close the trigger gun and walk back to the machine. Turn the ignition switch "off".
2. Reopen the trigger gun and allow the cold water to pump through the machine until the temperature is down around 100°.
3. When the steam hose is cool enough to touch you can turn the pump switch "off". At this point turn the silver knob on the LP gas tank all the way clockwise to the closed position.
4. You can now turn the inlet water off and disconnect everything.

PART 6 : THINGS TO KNOW

1. Never store the Sanitech in an area that is not heated. If the machine freezes the water inside will expand and crack the coils. More than one hole in the coils is as sure sign of freezing.
2. **Never operate the Sanitech in a temperature controlled environment like a meat locker or a cold room where air is only recirculated and not exchanged.** If you want to clean these areas leave the unit outside in the normal plant environment where you have natural or forced ventilation. You can run the steam hose into the cold storage area. Extra lengths of steam hose are available for this.
3. **Never use hot water on the intake of the Sanitech.** The Sanitech will accept cold or warm water up to 140°. Do not use intake water above 140°F.
4. **Never operate the Sanitech at a fuel pressure reading of 6 psi or greater.** Locking nuts have been installed beneath the black knob on the LP gas regulator to prevent usage above 6psi. Removing these locking nuts and operating at high fuel pressures can lead to incomplete combustion and the release of carbon monoxide.
5. Never turn the pump on when water is not running through the machine. Water removes excessive heat from the pump. Running the pump dry will cause pump failure.
6. Always have your employees wear gloves when using the Sanitech.
7. Freezing of the LP gas tank. When the tank starts to empty a moist film will start at the bottom of the tank. As it empties further this film will become a frost. When the frost line reaches mid-tank you will notice the fuel pressure on the gauge start to drop. This is the time to switch to a new tank. When your old tank has heated back up to room temperature you can use it again. When the freezing starts to happen quickly it is time to refill the tank. The larger the tank the longer you can go before freezing occurs.
8. Keep the nozzles free of dirt. When small amounts of dirt get into the nozzle you will notice a disruption in the flat fan spray pattern. You should remove the nozzle and tap it to remove the dirt. If a large blockage occurs the ignition will terminate automatically.
9. **Scale buildup.** The #1 cause of pump damage is scale from hard water building up in the heat coils. Scale restricts the opening in the coils thru which the pump pushes the water. When scale buildup becomes excessive you will detect a lower pressure at the nozzle due to a restricted water flow. If you are in an area with hard water you should use a water filter (available from Sanitech) or descale your machine on a regular basis.
10. **Never leave the unit unattended with the pump “on”.** The pump will eventually overheat and activate the thermal relief. Also, employees not trained on the Sanitech might use it.
11. **Never hook the Sanitech up to a high pressure water line.** The Sanitech should be operated on a water line that has normal city/county pressure. If you only use high pressure lines you will have to use a pressure reducer on the intake of the Sanitech.