

Thermal Fogger Manual

H100, H100SF, H200 & H200SF





INSTRUCTION MANUAL THERMAL FOGGER VECTORFOG H100, H100SF, H200 & H200SF

When fogging outdoors, you should only fog for short periods at a time and when there is not much wind. When fogging indoors you should start at the furthest part of the building and work your way back until you get to the entrance or exit. It's essential to read the chemical manufacturer's instructions before you start applying, including diluting ratio and safety precautions. Only experienced personnel should operate this equipment. If fuel or chemicals are spilt, you should exercise caution to avoid the risk of fire or contamination. You must use protective equipment when handling this machine. Incorrect use of this equipment by unqualified personnel could result in serious risk of injury.

CAUTION MARKS



Please read this manual before using the equipment.



You must wear protective equipment (face/breathing mask, protective clothing, gloves, etc.) when handling potentially hazardous chemicals.



It is advisable to wear ear plugs to protect the user from the high noise produced by the machine



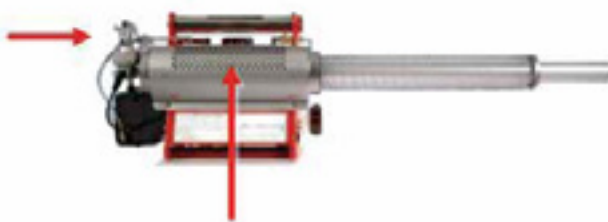
The interior of the machine heats up to extremely high temperatures Do not add fuel or chemicals during the operation of the machine or when it is hot after use.



Avoid fogging chemicals upwind.

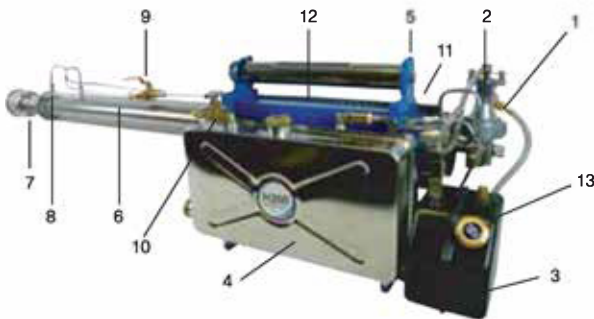


Risk of electric shock. Do not turn on the machine when the spark plugs electrode is exposed.



SPECIFICATIONS

Model	H100 / H100SF	H200 / H200SF
Motor	Pulse Jet	Pulse Jet
Chemical Tank	Polymer	Stainless steel
Tank Size	4.5L	6.5 L
Flow rate	10-50 LPH	10-50 LPH
Pressure in the chemical tank	0.224 bar	0.224 bar
Fuel	Petrol	Petrol
Performance	19 kW	19 kW
Fuel tank pressure	0.8 bar	0.8 bar
Start	Automatic (manual version available)	Automatic (manual version available)
Fuel tank capacity	1.2 L	1.2 L
Weight(net)	8.5 Kg	10.8 Kg
Dimension	115x34x25 (cm)	133x28x38 (cm)
Features	Fuel Tank cut off switch (Model SF : Dual Function - Fog water /oil based Chemicals)	Fuel Tank cut off switch (Model SF : Dual Function - water based chemicals as well as oil based)
Accessories	Belt, Spares Kit, Charger, Toolkit, Instruction Manual	Belt, Spares Kit, Charger, Toolkit, Instruction Manual



1. Fuel Injector
2. Carburettor
3. Fuel Tank
4. Chemical Tank
5. Main Body
6. Safety Mesh
7. Resonator
8. Chemical Inlet
9. Close valve/Directional valve (SF model)
10. Chemical Supply valve
11. Security Cover
12. Handle/Manual Start Pump (optional)
13. STOP button

CHECKLIST BEFORE STARTING THE UNIT



Unpacking the unit

When unpacking the unit, please make sure that the machine is not damaged and that all the accessories mentioned in this manual are not missing.

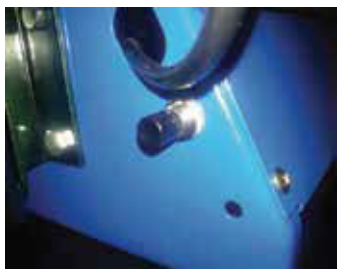


Make sure the charger is not damaged and that it is of correct voltage before plugging to the mains.



Charge the battery

Make sure the right power supply is being used (110/220 volts). Connect the charger to the unit and then connect to the mains. When first purchased, the machine requires around 8 to 10 hours to fully charge.



Inspect the ignition unit

Press the START button situated below the carburettor and listen to ensure that the spark plug is working to start the ignition process.



Fill the fuel tank

Fill the tank with undiluted petrol using a funnel. Do not overfill the tank. When you finish filling the tank, close the tank cap tightly. The unit operates for approximately 40 minutes with a full tank.

Important Note: Do not fill beyond 80% of its full capacity



Fill the chemical tank

Pour the special fogging chemical mixture into the chemical tank. It is important not to add more chemical mixture than it's needed. Leaving remaining chemicals in the tank after use could affect the performance of the machine in the following session as deposits may solidify. When you finish filling the tank, close the tank cap tightly.



To turn on the machine

Press the power button "START" and keep it pressed for 8 seconds after you hear combustion starting (sounds like a small explosion). It is necessary to keep the machine on for about 10 seconds to warm up before opening the chemical valves. TIP: If the machine fails to start, press the STOP button (air release) so pressure can be re-established. Press the start button again and repeat the above procedure until it starts.



Chemical supply Valve



Close Valve



Directional Valve (SF MODEL)



To start fogging

Once the machine has heated up for 10 seconds, first turn the "Close Valve" and then slowly the chemical supply valve counter clockwise. On SF models, The "Close Valve" has been replaced by a "Directional Valve" for selecting the type of solution being applied. For applying oil based solutions the valve should face the direction of the resonator. For water based solutions, the valve should be turned to its left position.



To turn off the machine

Turn the chemical supply valve clockwise to stop the supply of chemical. Keep the machine in operation for 5 seconds to help get rid-off any chemical mixture still in the system. Close the close valve and press the STOP button located on top of the fuel tank to stop the machine.

Important: You must never switch off the machine with the chemical supply valves still open. This could Cause a back-fire.

MAINTENANCE

Cleaning the Chemical Tank and Pipes

Fill the chemical tank with 25% of clean water and turn on the unit. Then open the chemical supply and close valves to flush it through. This will prevent corrosion and the accumulation of chemical deposits in the tank and pipes.

Spark Plug Maintenance

Remove the spark plug using a spanner or spark plug remover. Remove any carbon deposits between the electrode and the earth section with a wire brush. Make sure that there is a space of 3.5 mm between the electrode and the earth.



Fuel injector Maintenance

Unscrew the fuel injector situated on the side of the carburettor. Clean the injector with compressed air to remove any blockages.

Important: Never use a metallic punch to clean the injector. The injecting hole is calibrated for optimum performance

STANDARD SYSTEM



SF MODEL



Maintaining the valve petal

Unscrew the fuel filter and regulator (if applicable) before unscrewing the top of the carburettor. Check the valve for any distortions or cracks. If it's damaged, you will need to replace this part.

TIP: It's important to assemble the carburettor in the same order as it was disassembled. The distance between the petal valve and the valve plate o should be approximately 1 mm.



COMMON TROUBLESHOOTING

If there is no ignition:

- Listen for any noises coming from the engine

If there is noise coming from the engine but there is no ignition, this could be because the engine has flooded (an over-supply of fuel in the carburettor). Press the choke/off button above the fuel tank and then press the start button until you hear the machine ignite. Repeat this procedure several times if it doesn't start the first time.

