

Mini Mist Fogger



Operation Manual

1. Safety precautions

- 1) Always wear protective clothing when using the machine. (mask, gloves, long sleeves and etc.)
- 2) Do not use this machine in enclosed room or the places where foods or inflammables exist.
- 3) Do not spray directly to people or animals.
- 4) Do not use this machine in strong wind weather.
- 5) Be careful of burning accident by the protection shield of the burner.
- 6) Wait until the machine cools down before refill of chemicals or diesel/water or change of butane gas.
- 7) After work, wait until the machine cools down completely and then store it in a dry, cool place out of reach of children.

Warning signs

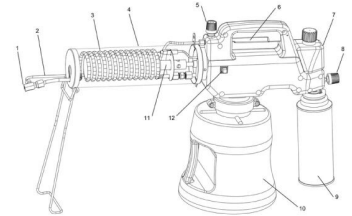
	Read the manual		Use a mask
	Wear protective clothing		Use gloves
	Wash after work		Caution! Risk of burning
	Safety warnings		Caution! Risk of fire

2. Attentions

- 1) This product has separated chemical tank and water/diesel tank. Do not put other materials into water tank except water, diesel and dispersing agent. Agricultural chemicals, pesticides and disinfectants should be put into the chemical tank. The coil would be clogged if chemicals are mixed in the water tank according to the usual method.
 - * When used as misting, open the gas valve more if the particle size is large, or close it a little if the particle size is small.
 - * When used as fogging, it is difficult to check the discharged particles. With eyes, so please check the level of liquid in the chemical tank.
- 2) When mixing the chemical in the chemical tank, please read the instructions about the mixing ratio of the chemical on the chemical container. Overuse of chemicals may cause dizziness, headache and vomiting.
- 3) Chemicals must be in liquid form. (Powder or solid chemicals are not allowed to use)

- 4) After work, continue to push the pump handle at least 5 times to spray out the undiluted chemical before disassemble the water tank.
- 5) Please be sure of ventilation when working in confined spaces.
- 6) Inhalation of combusted gas from the combustion section might cause dizziness, headache and vomiting, so please keep away from the combustion section in the protection shield during work.
- 7) Excess concentration of chemicals might kill plants. Proper mixture proportion must be complied with.
- 8) Spray to plant or object away from about 1.5 meters.

3. Part names



1. Nozzle
2. Chemical pipe
3. Coil
4. Protection shield
5. Chemical control knob
6. Pump handle
7. Chemical tank
8. Gas control knob
9. Gas container
10. Water tank
11. Burner
12. Ignition switch

4. Operation Directions

Water tank

- 1) Put diesel or water + dispersing agent into water tank. Put diesel for fogging, and put water or water + dispersing agent for misting.
- 2) Except diesel, water and dispersing agent, do not put other liquids into water tank. Other liquids like chemicals should be put into the chemical tank. Chemical tank is installed in the upper case of the machine.
- 3) Suggested working ways.
 - Outdoor: Fog - water tank (diesel)
 - chemical tank (diesel + chemicals)
 - Indoor: Mist - water tank (water)
 - chemical tank (water + chemicals)
 - Semi-fog - water tank (water + dispersing agent)
 - chemical tank (water + dispersing agent + chemicals)



Chemical tank

- 1) Make sure the chemical control valve is closed.
 - 2) Put the mixture of chemicals and diesel (water) into the chemical tank. Please keep in mind that the mixing ratio of each chemical must comply with the instruction stated on the chemical container.
 - 3) Check the liquid volume according to the marks on the chemical tank. Maximum capacity of chemical tank is 350ml. Please do not overfill.
 - 4) Close the lid of the chemical tank.
- * Overuse of chemicals may cause dizziness, headache, nausea and vomiting.
 * Do not put water into the chemical tank if there is an object which is apt to rust in work place.
 Recommendation: water tank - water
 chemical tank - diesel + chemicals.



Ignition

- 1) Make sure the gas control valve is closed initially.
 - 2) Assemble the butane gas container.
 - 3) Put the machine on an even place where without inflammables.
 - 4) Open the gas control valve by turning the knob counterclockwise to supply gas. Push the ignition switch to start the machine.
- * Wind may cause malfunction of ignition, so try to ignite in a place of no wind.
 * In case, the machine could not be activated after pushing of 5 or 6 times, turn off the gas control valve and wait about 20 seconds and then repeat the above procedures.
 5) After ignition, let the machine preheat 10 seconds for misting, or preheat 40-60 seconds for fogging.



Spraying application

- 1) After preheating, open the chemical control valve by turning the knob counterclockwise, repeat pushing and releasing the pump handle to start spray (misting or fogging).
 Spray to the plant or object away from about 1-2 meters.
 - * When used as misting, open the gas valve more if the particle size is large, or close it a little if the particle size is small.
 - * When used as fogging, it is difficult to check the discharged particles. With eyes, so please check the level of liquid in the chemical tank.
- 2) The discharge volume of chemical can be controlled by turning the chemical control knob.
- 3) The frequency of pumping action is 1 time in every 3-4 seconds. If fire is sprayed out, stop pumping immediately and close the gas valve. Put the machine on an even place and wait the fire stops.
 - * For your safety, be care of keeping away from the discharged fog or mist. Do not spray against the wind.
 - * Keep a distance from the protection shield of the burner to avoid burning your skin or clothes.
 - * After refill of the machine, do not leave it aside without operation.
 - * If need refill of chemical or water/diesel, stop the machine and wait until it cools down.



Stop work

- 1) Stop pumping of the handle. After the spray stopped completely, turn off the gas control valve (clockwise).
- 2) Turn off the chemical control valve (clockwise) completely.
- 3) Repeat pushing the pump handle at least 5 times to spray out the residues while the coil cools down.
- 4) Remove the gas container from the machine and put it in a cool place with ventilation.
 - * For long term storage, wash the water tank and chemical tank and put clean diesel into both tanks and assemble the machine well. Then store it in a dry and cool location with ventilation and out of reach of children.



Shoulder strap

- 1) Attach the shoulder strap and carry the machine during work. While, the strap can be removed during work.



5. Specification

Name	Mini Mist Fogger	
Model	HYT-2W	
Dimension (L x W x H)	630x190x365mm	
Net weight	2.0kg	
Fuel	Liquid butane gas	
Fuel consumption	1EA / 30min	
Starting method	Press the ignition switch	
Ignition system	Piezoelectric ceramic ignitor	
Water tank (Capacity 2.0L)	Fog	Diesel
	Mist	Water
	Semi fog	Water + dispersing agent
Chemical tank (Capacity 350cc)	Fog	Diesel + chemical
	Mist	Water + chemical
	Semi fog	Water + dispersing agent + chemical
Water/Diesel output	2 Liter / hr	
Chemical output	1-5 Liter / hr	

6. Advantages of this new type fogging machine

- 1) This machine has separated spray coil and chemical pipe. There is no carbonization of chemicals and so it does not have problem of clogging in the coil.
- 2) It is not necessary to keep the water tank and equipment separately to prevent corrosion of the pump, because it has separated chemical tank and water tank.
- 3) Chemical utilization is maximized because the chemical goes to the discharge nozzle directly without vaporizing by heat.
- 4) The machine has versatile uses. Since there is no chemical change by heating, it can spray more kinds of chemicals and as well as water.
- 5) The user can secure good sight of the misting by water and is safe.