



# Misting Fan

## Operating Instructions & Trouble Shooting Guideline

*\*This unit is designed to be used on a single dedicated 20amp circuit.*

615.822.4392

Model #: FTC-P-18-5

### Operating Instructions

1. Connect the water supply to the 3/4" female garden hose adapter on the back of the unit. The water supply should meet the following conditions:

\*Flow rate of 1GPM or more

\*Water less than 7.5 pH

\*Pressure between 15-75 PSI

\*Dissolved solid content less than 500 PPM

\*Possible damage from improper water supply includes:

\*Clogged misting nozzles or filters due to solids in water.

\*Black or galvanized steel pipe fittings; only use hose and pipe fittings compatible with water to prevent corrosion.

\*Pump damage may occur due to fluctuations in the water supply, clogged nozzle, or closed off discharge side of pump. Never attempt to operate the pump with no water supply connected.

2. Connect the proper power supply.

The system is equipped with a 15amp 110v plug. The amp requirements are located on the motor plates of both the pump motor and fan motor. Do not use unapproved extension cords or adapters to connect the system. Common electrical systems have plugs only rated to 15 amps. Common breakers are overloaded at 20 amps. Consult a certified electrician if you are unsure about your power supply.

3. Initial operation and start up of the system. Turn on the water supply and allow the tank to begin to fill up. The unit may be operated with the water supply connected or disconnected. If operating with the water supply disconnected, wait for the tank to fill up and then turn off the water supply and disconnect the garden hose. The user can identify when the tank is full by using the clear sight tube. If operating with the water supply connected, simply leave the water supply on. Once the tank is full, a valve will automatically shut off the water supply preventing the tank from overflowing. The valve will also open when the tank requires more water. Press the "ON" button on the back of the unit to activate the pump. If the Warning light is on, press "OFF" to see if it disappears. If the light persists please see the troubleshooting section. After pressing "ON" wait for 20seconds for the motor and pump to activate, the delay is because the water must enter the system. If after 20 seconds the system does not work, turn off the pump. Running the pump without a water supply will destroy the pump. See the troubleshooting section if the system fails to operate. The mist should form a cone shape when exiting the nozzle. If the cone is not even, or if the nozzle appears to be leaking, see the troubleshooting section.

4. Turning on the Fan. Connect the fan to a proper power source. To begin the operation of the fan, turn the knob on the fan to your desired speed. Fans have three different speeds and an oscillator that may be switched ON or OFF. Fan speed may also be controlled by the knob on the back near the tank. Place the fan in the desired location and lock the wheels in place to prevent the fan from moving during operation.

5. Turning off the system. Shut off the fan by the knob to the “OFF” position. Turn off the pump by pressing the “OFF” button on the back of the unit. The nozzles should stop emitting the mist immediately. If the nozzles are still dripping, high pressure water may still be in the line and can be relieved by opening the evacuation valve on the back of the unit.

### **Operating Tips**

ON Switch: Continuous Misting

MODE 1: Mist 30 seconds / Stop 30 seconds

MODE 2: Mist 40 seconds / Stop 40 seconds

MODE 3: Mist 50 seconds / Stop 50 seconds

Warning Indicator Light: Lack of Water Supply

Knob: Adjust Fan Speed

### **Troubleshooting Guidelines**

FAN WILL NOT RUN

- \*Confirm the control knobs are in the ON position.

MISTING RINGS WILL NOT MIST

- \*Confirm the fittings are securely attached.

- \*Confirm control switch is in the ON position.

- \*Pump malfunction.

SURFACES GET WET

- \*Mist is too close. Optimum evaporation occurs at least 10 ft. from the fan. Relocate the fan.

- \*Order plugs to reduce the amount of mist.

- \*Plug additional nozzles while maintaining the minimum of 4 required for safe pump use.

- \*Use regulator valve to adjust pressure to 1000 PSI.

NOZZLE LEAKS DURING OPERATION

- \*Nozzles are clogged - remove debris from nozzle tip by cleaning.

- \*Nozzles are loose – turn off the system and relieve pressure to the mist rings, and then hand-tighten nozzles.

- \*Nozzle O-ring is worn – check ball in anti-drip body for debris and replace if necessary.

- \*Anti-drip parts may be worn – elongate spring.

## PUMP WILL NOT RUN

- \*Plug in power supply to pump.
- \*Turn ON power supply to pump.
- \*Water supply is empty or off – turn ON supply water to pump or fill the tank.
- \*Circuit breaker is off – confirm correct voltage and amperage is being supplied.
- \*No water supply – confirm the supply water has a pressure between 15-70 PSI.
- \*Inspect the filter and replace dirty filter which restricts flow.
- \*Solenoid valve is not open – check electrical connection at the solenoid valve.

## PUMP STOPS RUNNING

- \*Power supply is interrupted – restore power.
- \*Circuit breaker switched off – confirm breaker is not being overloaded or is not worn.
- \*Drought switch activated – confirm supply water has a pressure between 15-70 PSI. A shared water supply may decrease water pressure. Inspect filter. Check electrical connection at the drought switch.
- \*Pump motor overheated – never operate pump above 1000 PSI. Confirm proper ventilation is available to the pump motor. Confirm voltage and that the motor is within the service factor.
- \*Circuit interrupter is tripped – press reset button on pump motor.
- \*Pump motor may be damaged – motor bearing may have caused pump to seize.
- \*Pump head may be damaged – crank bearing/connecting rods may be damaged.
- \*Pump is being starved of water – ensure that clean water is being supplied – especially at system start-up. Check for clogged pipes or tubes.
- \*Water is leaking – inspect seals and replace if necessary.
- \*Oil is leaking – tighten filler cap and drain plug. Fill crankcase to specified capacity.

## PUMP IS ON BUT NO MIST IS BEING PRODUCED

- \*Pressure regulator turned low – turn clockwise to increase the pressure. Do not exceed 1000 PSI.
- \*There may be a leak in the system – confirm that nozzles are intact. Check for loose hose fitting in manifold line.
- \*There may be an air-lock – open the evacuation valve to release any air-lock.
- \*The pump's pressurization components may be damaged – this is true if the pump makes a clicking sound.

## WATER SPRAYS FROM NOZZLES AFTER SYSTEM IS SHUT DOWN

- \*Anti-drop not functioning – check integrity of anti-drip ball and spring.

## FILTER HOUSING LEAKS

- \*O-ring failure – inspect placement and integrity of O-ring.