MistAway Drum-Based Misting Unit – Gen 1.3
Operations Manual

To Protect Against Accidental Exposure to Insecticide

Using the Unit

- Do not allow the unit to mist in the presence of people, pets or food.
- Unit must be configured, installed and operated so that any insecticide application complies with all label directions, including application rate and prohibitions against offsite drift.
- The unit reservoir and controller should be locked.
- Unit and remote transmitter should be secured against access by children.
- DIP Switches on remote transmitter should be repositioned (from factory setting) to ensure that another transmitter will not activate unit.
- If a leak or siphon in nozzle circuit is suspected, disconnect nozzle circuit from reservoir and discontinue use of unit until it is repaired.
- Unit should never be used for cooling.

Permitted Insecticides and Handling

- Use only insecticides that are labeled for use in automated misting systems, and use only as described in the label.
- Insecticides that state “Not for use in outdoor residential misting systems” may not be used under any circumstances.
- Once insecticide has been introduced into the reservoir, ensure adequate air gap (6”) between hose and drum bung is maintained when filling with water.
- Insecticide label and dilution statement should be securely attached to the unit reservoir in a weatherproof pouch.
- Strictly follow label instructions regarding storage and disposal of insecticide and container.

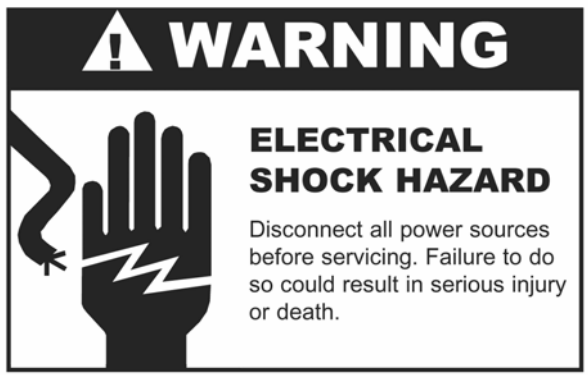
Nozzle Circuit Installation:

- The nozzle circuit must be configured and installed so that insecticide does not drift off the property.
- Nozzles must be directed to spray towards the target area and away from swimming pools, water bodies, or eating and cooking areas.

Section 1
Important Safety Instructions

To Protect Against Fire or Electric Shock

- Ensure unit is positioned where it is free from flooding or exposure to irrigation system spray.
- Unit must be plugged into electrical outlet with ground fault interrupt protection. (GFI/GFCI)
- Extension cord should not be used.
- Except during replenishment or maintenance, assembly should be covered at all times with supplied waterproof fabric cover.
- Disconnect unit from power source if replacing components
- Replace fuses only with those of equivalent value.



Base Functionality

- MistAway's Drum-Based Misting Unit, Gen 1.3, is designed to atomize a dilute botanical insecticide (typically contained in a 55 gallon drum) through an installed nozzle circuit to control mosquitoes and other annoying insects.
- The capacity of the unit is dependent on the configuration of the nozzle circuit. A practical field maximum is around 60 – 75 nozzles (some in parallel) connected by 900 feet of tubing.
- The unit may be programmed to mist up to 12 times daily, with each mist cycle having its own independent duration. A typical program would consist of 2 to 3 mist cycles per day, each with a 45 – 60 second duration, for a daily total of 90 – 180 seconds.
- The unit will also mist in response to a signal from a handheld remote transmitter for a duration programmed by the user.

Optional Equipment and Functionality

- **Agitating Valve**: Each mist (including remote mists) will be preceded by an agitation cycle that will ensure thorough mixing of the drum contents prior to misting. In addition, there is a capability to program a once-daily agitation that is independent of any programmed or remote mist. The agitating valve also eliminates the possibility of a siphon emptying the drum contents.
- **Electronic Anti-Siphon Valve**: For units without agitation, addition of this valve eliminates the possibility of a siphon.
- **Wind Sensor**: Sensor input will inhibit a programmed mist if the wind speed is higher than a user-defined limit for a 5 minute period following the scheduled mist.
- **Zone Kit**: Kit will enable the unit to effectively double the number of nozzles and protected area that it would otherwise support. A single schedule drives misting in both zones

Section 2
Functionality and Components

Components – Mounted to Chassis on Drum Lid

- **Digital Controller** – accepts user input, displays unit operating mode and status, controls electromechanical components.
- **Remote Receiver & Antenna** – receives signal from handheld remote transmitter
- **Pump & Motor** – atomizes drum contents through nozzle circuit. Pump pressure typically set to 240 psi.
- **Agitating Valve (optional)** – One path through the valve routes fluid to the nozzle circuit. The other path recirculates fluid in the drum through j-tube mixing assembly.
- **Plastic Housing & Cover** – protects components from the elements. The cover may be locked to the housing to secure access to the controller. The housing contains ports to the nozzle circuit tubing as well as to an optional Zone Kit. On units with an agitating valve, a pressure gauge is mounted into the plastic housing.

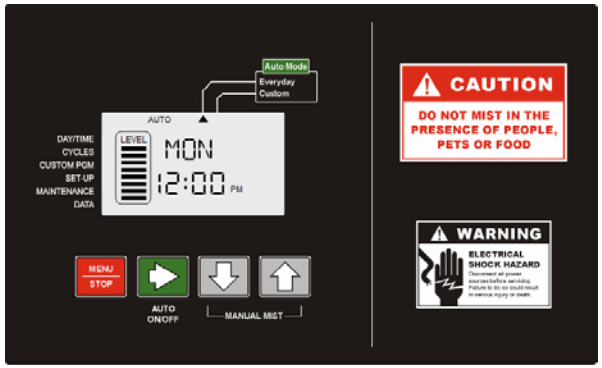
Components – Inside Drum

- **Pump Intake Line and Filter** – Pump intake positioned near bottom of drum. Filter ensures debris is not drawn into pump and nozzle circuit.
- **J-tube Mixing Assembly** (on units with optional Agitating Valve) – To ensure thorough mixing, during agitation, fluid is pushed through a j-shaped tube assembly at the bottom of the drum.
- **Auto-Drain Valve** – ensures rapid increase in nozzle circuit pressure on pump startup and rapid decrease on shutdown.

Other Components

- **Remote Transmitter** – 3-button remote enables the user to start a mist, stop a mist and skip the next scheduled mist.
- **Unit Cover** – Weatherproof fabric cover provides protection of the unit from the elements.

Programming the Controller



- When the unit is powered up and idle, the controller display indicates four pieces of information:
  1. Day of the week
  2. Time of day
  3. System mode (Off, On, Auto-Everyday, Auto-Custom)
  4. Volume Remaining (each bar indicating reservoir 1/8th full)
- Pressing Green ► button will cycle through each of four System Modes. Active mode indicated at top of display.
  1. OFF – If not equipped with an agitation valve, the unit will sit idle. If equipped with agitator, unit will perform a daily agitation cycle and otherwise sit idle.
  2. ON – Unit will allow Remote and Manual mists, but no Auto mists.
  3. AUTO-EVERYDAY – Misting program runs daily.
  4. AUTO-CUSTOM – Misting program runs on days set in CUSTOM PGM menu.
- Pressing Red MENU/STOP button displays triangular cursor by DAY/TIME position on left side of display. Use ▲ or ▼ buttons to cycle through menu structure. Use Green ►button to select menu item and view or change data element within that item.
- Within menu item, the convention is that the flashing data element can be changed with the ▲ or ▼ buttons. Move to the next data element with the Green ► button.
- Exit the menu item by pressing the MENU button.

Section 3
Operating Instructions

Controller Menu Structure

DAY/TIME Menu Set the Day of the Week and the Time of Day.

CYCLES Menu Configure the mist time and duration of each of the twelve possible Auto Mist Cycles (Each with unique duration and time of day.)

CUSTOM PGM Menu Configures the days of the week for Auto Misting in the AUTO-CUSTOM PGM mode. (Turn each day OFF or ON.)

SET-UP Menu

DST	Turn daylight savings time switch ON or OFF.
AGT	Set duration of agitation prior to programmed mists and set time of once daily off-cycle agitation. On units without an agitating valve, the duration should be set to 0. (Note: Agitation duration prior to Remote or Manual Mist is hard-coded at 15 seconds.)
REM	Set the duration for mists triggered by the remote transmitter. (Values from OFF to 120 seconds)
LRN	Program unit to recognize a specific remote transmitter. Hold down Green ► button for 5 seconds and then press a button on the remote transmitter. When DONE flashes in the display, the transmitter is programmed.
MAN	Set the duration for mists triggered by a Manual Mist (pressing ▲ and ▼ buttons simultaneously.)
TNK	Set reservoir size in gallons (5 – 250)
NOZ	Set the Number of nozzles in the circuit attached to the unit. If Zone Kit installed, there are separate displays for NZ1 and NZ2.
SEN	Turn (optional) wind sensor ON or OFF
WND	Set max wind speed (above which wind sensor reading inhibits mist.)
ZN1/ZN2	Enable or disable misting in Zone 1 and (optional) Zone 2

Controller Menu Structure (continued)

MAINTENANCE Menu

LEVEL Set the tank level in the controller display from 1 to 8 bars. In operation, the indicated level will decrease as insecticide is misted. Hold Green ► button for 5 seconds, then ▲ and ▼ buttons to set.

INS Inspect Nozzle Circuit. Runs pump for 5 minutes. Hold Green ► button for 5 seconds to trigger. If Zone Kit installed, separate inspection menus, INS1 and INS2.

DATA Menu

TMC Total Mist Cycles since last reset.*

TMM Total Mist Minutes since last reset.*

MMC Manual Mist Cycles since last reset.*

RMC Remote Mist Cycles since last reset.*

TMH Total Mist Hours on unit. May not be reset.

SPD Wind speed as read by sensor

TOL Error tolerance in nozzle circuit flow rate. Default is 0. Used in tank level indicator and empty shut-off calculation.

NFR Flow rate of average nozzle in circuit, in milliliters per minute. Used in tank level indicator and Empty shut-off calculation. Default is 45 ml/min. Set by pressing Green ► button for 5 seconds, then ▲ and ▼ arrows, then Green ► button to save.

* Reset by pushing Green ► button until value shows zero.

Section 3
Operating Instructions

Operating Displays

There are a number of other displays that will appear when the unit is either operating or suspended (and not idle or being programmed.) These are:

AGT Unit is agitating contents of drum.

EMP Empty. Unit has calculated zero remaining volume in tank.

HOLD Anti-siphon or agitation valve is being held open at end of mist cycle to allow pressure in nozzle circuit to decay and close nozzles quickly.

INS Unit is in Inspection Mode. Unit will mist for 5 minutes or until stopped.

MIST Unit is misting.

NOZ00 Unit stopped operating because the number of nozzles is set to 0. Clear by pressing Red STOP button for 5 seconds.

SKIP Unit will skip next programmed mist, having received signal from remote transmitter to SKIP NEXT MIST. Clear by pressing ▲ and ▼ arrows simultaneously for 2 seconds.

SUS Wind sensor reading higher than user-set max and is suspending programmed mist.

The previous mist was skipped because of SKIP NEXT MIST was triggered by the remote or the wind sensor blocked an Auto Mist.

Manual Controller Operations

Beyond programming the unit and setting the System Mode, there are two other operations that can be performed while standing at the unit:

- **STOP** - Pressing Red MENU/STOP button will immediately stop any current operation of the unit, but will not change the System Mode from AUTO to OFF. (To change the System Mode to OFF, use the Green ► Auto/On/OFF button to cycle through each of four System Modes. Active Mode indicated across top of display.)
- **MANUAL MIST** - Pressing the ▲ and ▼ arrows simultaneously (2 seconds) will activate a mist cycle for the duration programmed in the SET-UP menu.
- **INSPECT** – Navigate to INS in the MAINTENANCE Menu. Press the Green ► button for 5 seconds. Unit will mist for 5 minutes or until stopped.

Section 3
Operating Instructions

Remote Transmitter

MIST Button

- Activates a Remote Mist for the duration defined in the SET-UP menu
- If an agitation valve is installed, a 15 second agitation cycle will precede the Remote Mist. If the agitation duration = 0 (SET-UP Menu, AGT) there is no agitation cycle.
- If a Zone Kit is installed, the unit will mist in Zone 1 and then Zone 2, or either zone, as defined in the SET-UP menu.

STOP MIST Button

- The STOP MIST button stops the current operation of the unit. It will not change the System Mode from ON or AUTO to OFF.

SKIP NEXT MIST Button

- The SKIP NEXT MIST button enables the next programmed AUTO MIST to be skipped
- When SKIP NEXT MIST is activated, the controller display will flash “SKIP”
- While the unit is flashing SKIP, it will still respond to a Remote or Manual Mist.
- Once the next programmed Auto Mist is skipped, the unit will return to the normal display, with the “sunshine” icon in the lower right corner of the display flashing to indicate the mist was skipped
- You may only skip one mist at a time, i.e., pushing the SKIP NEXT MIST button multiple times will not cause multiple AUTO MIST cycles to be skipped
- **The SKIP NEXT MIST can be cleared by holding the ▲ and ▼ buttons simultaneously for 2 seconds.**

Replenishing the Insecticide Reservoir

- Remove waterproof fabric cover.
- Open 2” cap on drum bung and insert funnel
- With garden hose, fill drum half full, ensuring that an air gap of 6” between the tip of hose is 6” and top of drum is maintained.
- Add insecticide concentrate according to label instructions. See *Section 1 , Important Safety Instructions* for detail on dosing and handling insecticides.
- Continue filling reservoir with water from hose (maintaining 6” air gap) until fluid level is approximately 5 “ from top of reservoir.
- Reset level indicator in the controller (per instructions on following page)
- Replace waterproof cover.

Section 3
Operating Instructions

Resetting the Level Indicator

It is important to reset the Level Indicator in the controller after the reservoir has been replenished with insecticide and water:

- MAINTENANCE Menu, LEVEL
- Press green ► button
- Use ▲ and ▼ buttons to set level to full (8 bars)

The 8-bar Level Indicator is driven by a calculation that accumulates the estimated total volume of fluid that has been misted by the unit since it was last reset and then subtracts it from the beginning volume (which is input by the user as Tank Size in SET-UP Menu and Tank Level, in MAINTENANCE Menu.) The unit will shut itself off and the display will annunciate EMP (for EMPTY) when the calculated volume remaining in the tank equals zero.

If the unit is displaying EMPTY before the tank is empty, it probably means that the actual flow through the nozzle circuit is less than the estimated flow rate. (It may also point to a clog in the pump intake filter or clogged nozzle lines.) Change the nozzle flow rate used in the calculation by:

- DATA Menu, NFR
- Hold Green ► button 5 seconds
- ▼ arrow to reduce value
- Press Green ► button to save

If the unit is continues to run well after the tank is empty, it probably points to a leak or siphon in the nozzle circuit.

1. **Position Drum**
   - On firm level surface
   - Free from flooding or sprinklers
   - Near GFCI outlet
2. **Remove Lid Assembly and verify components**
   - Lid Assembly in plastic enclosure
   - Drum and pre-drilled lid
   - Remote transmitter (remote receiver and antenna inside enclosure)
   - Soft drum lid cover
   - Pump suction pipe and filter
   - Auto-Drain valve assembly
   - *Agitator j-tube and eductor (if "with Agitator")*
   - 4 each - bolts, flat washers, lock washers, nuts
3. **Assemble Unit**
   - Align chassis with four holes (large bung on side opposite controller)
   - Insert ½" pump suction line into pump
   - Insert ¼" black tubing of Auto Drain valve assembly into pump discharge
   - *If "with Agitator" unit, insert j-tube into 3/8" agitator valve fitting*
   - Secure chassis to lid using 7/16" wrenches: sequence - bolt, chassis, lid, flat washer, lock washer, nut
   - Position lid assembly on drum
   - Note: all holes oversized to ease assembly
4. **Connect Electric Power**
   - GFCI Outlet
   - 100 volts minimum
5. **Connect Nozzle Circuit**
   - To bulkhead fitting
   - If zone kit, install according to instructions provided

Section 4
Assembly and Installation Instructions

6. **Program Controller**
   - **a. Set Daylight Savings Time switch**
     - SET-UP Menu, DST
     - ON if daylight savings in effect, OFF if not.
   - **b. Set Day and Time**
     - DAY/TIME Menu
   - ***c. Set Independent Agitation Time and duration (if "with Agitator" Unit)***
     - *SET-UP Menu, AGT*
     - *Set duration of agitation prior to programmed mists*
     - *Set time of once daily off-cycle agitation*
     - *Note: Agitation duration prior to remote or manual mist is 15 seconds.*
   - **d. Set Remote Mist Duration**
     - SET-UP Menu, REM
     - Set duration in seconds
   - **e. Orient Remote Transmitter**
     - Set dip switches in remote transmitter
     - SET-UP Menu, LRN
     - Depress Green ► button 5 secs, until LRN On
     - Depress Remote Transmitter button until DONE
   - **f. Set Manual Mist Duration**
     - SET-UP Menu, MAN
     - Set duration in seconds
   - **g. Set tank size**
     - SET-UP Menu, TNK
     - Set Tank size in gallons (5 – 250)
   - **h. Set # of nozzles**
     - SET-UP Menu, NOZ
     - If zone valve installed, repeat for NOZ2
   - **i. Establish optional Wind Sensor**
     - SET-UP Menu, SEN
     - If sensor installed, ON. Otherwise OFF

6. Program Controller (continued)

j. Set Max Wind Speed (wind sensor required)	• SET-UP Menu, WND • Set max wind speed
k. Set Auto Mist Cycles	• CYCLES Menu • Set duration and time for up to 12 automatic cycles
l. Set Auto Mist Days	• CUSTOM PGM Menu • Set days of week to ON or OFF • Only active if system AUTO MODE is Custom
m. Set Level	• MAINTENANCE Menu, LEVEL • Press green ► button and use arrows to set level to full (8 bars)
7. Partially fill drum and run Inspection Cycle	• Fill drum 1/2 full through large bung with water only • MAINTENANCE Menu, scroll to INS • Depress Green ► button 5 secs • Unit will mist for 5 minutes or until stopped. • Check nozzle circuit for leaks • Confirm pump pressure (240 psi) and insert plastic plug (taped) into enclosure • If zone valve installed, repeat for INS2
8. Add insecticide, top off drum, Reset LEVEL to full	• Add insecticide through large bung • Top off drum with water. Ensure air gap is maintained. • MAINTENANCE Menu, LEVEL • Press green ► button and use arrows to set level to full (8 bars)

Section 4
Assembly and Installation Instructions

9. Set System Mode	• OFF - daily agitation cycle only • ON – remote and manual, but no programmed mist • AUTO Everyday – program runs daily • AUTO Custom – program runs on days configured in CUSTOM PGM
10. Cover Unit	• Fit elastic at waterproof cover bottom under lip along edge of drum.

**** Note: Instructions noted in italics are required for units supplied with Agitating valves***

Section 5

Maintenance & Winterization Instructions

Maintenance with Each Refill

- **Clean filter on pump intake line.** Remove filter from intake line. Use wire brush and hose to remove debris.
- **Remove any debris that has collected on drum lid** to prevent it from falling into the drum and fouling the filter or nozzle circuit.

Annual Maintenance (typically performed at spring startup)

- **Replace filter on pump intake line.**
- **Replace Auto Drain Valve on pump discharge line.** (Valve enables rapid pressurization at pump startup and rapid depressurization on pump shutdown.)

Winterization (performed at Fall shutdown)

- **Flush pump (and agitation valve if equipped) with clean water:**
  1. Fill 10 gallon bucket with fresh water and position next to unit.
  2. Lift drum lid (with mounted assembly) from drum and rotate/reposition so that pump intake line (and agitation j-tube) are submerged inside 10 gallon bucket.
  3. Activate an extended manual mist. The agitation cycle will flush the agitation valve and the mist cycle will further flush the pump and nozzle circuit.
  4. Remove intake line (and agitation j-tube) from bucket and activate a dry manual mist to clear water from valve and pump.
  5. Reposition drum lid and assembly back on drum
- **Unplug unit** and wrap power cord around assembly
- **Replace waterproof cover.**

Section 6

Frequently Asked Questions

What happens if the power to the unit is turned off and back on?

- When electrical power is restored to the unit, the digital controller will reboot into the same mode the unit was operating in prior to the power being turned off.
- For example, if the unit was in AUTO-EVERYDAY mode prior to the power being powered off, it will reboot into AUTO-EVERYDAY mode when the power is restored
- The controller features a “Super Capacitor” that stores enough electrical power to run the internal clock for up to six weeks in the event power to the unit is turned off. There is no battery for the clock.
- All programmed settings are maintained regardless of how long the unit has gone without power.

Can I set unique Auto Mist times/durations for each day of the week?

- No. While you may use the CUSTOM-PGM menu to turn specific days of the week ON or OFF, each day set to ON will mist according to the auto mist cycles defined under the CYCLES menu. You cannot customize mist times for each day.

What is the symbol that looks like a “sunshine” flashing in the lower right corner of the display?

- The small “sunshine” indicates that the previous mist was skipped for one of three reasons:
  1. The user triggered a SKIP NEXT MIST with the remote, and the most recent auto mist was skipped. The next Auto Mist will be executed as programmed.
  2. The (optional) wind sensor blocked the previous auto mist.

Why does the display read “HOLD” immediately after the unit finishes misting?

- When either an agitation valve on anti-siphon valve is installed, the unit will hold the valve open for a period of 15 seconds following the end of the mist. This action enables the pressure present in the nozzle circuit to quickly bleed off into the tank, rapidly shutting the nozzles. If this function was not present, the nozzles would “weep” or drip following the mist as the pressure in the nozzle circuit for that zone would not be able to bleed off.
- In a unit without either valve, the display will still flash “HOLD.”

If I press “STOP MIST” on the remote, does that set the system Mode to OFF?

- No. When STOP MIST is pressed on the remote, or the STOP button is pressed on the controller, the unit simply halts whatever current activity it is executing, be it misting, agitating, etc. The System Mode remains unchanged.

I have the optional zone kit installed. Can I used the remote to trigger each zone individually?

- No. When the Remote is used to trigger a mist, and a zone kit is installed, the unit will mist according to which zones are set to “ON” in the controller.
- If you wish to suspend one zone for a period of time, navigate to the SET-UP menu and set ZN1 or ZN2 to OFF, depending on your needs.

Section 6
Frequently Asked Questions

Why does this machine have to be plugged into a GFI circuit?

- As an outdoor electrical appliance that is often exposed to the elements, for protection of both the installer and end-user it is required that the unit is plugged into an electrical outlet that has Ground Fault Interrupter (GFI or GFCI) protection.
- Please note that the unit also requires a minimum electrical service of 15 Amps.

Do I need to install the optional anti-siphon valve?

- If the unit is not equipped with an agitation valve and the nozzle circuit has risers or nozzles positioned below the top of the tank, we recommend an anti-siphon valve be installed to eliminate the possibility of a leak creating a siphon.

Is there a battery for the clock that needs to be replaced?

- No. The digital controller features an electrical device known as a “Super Capacitor”. The “Super Cap” stores enough electrical energy to power the internal clock for up to six weeks in the event power is shut-off to the unit.
- If electrical power is suspended for more than six weeks, the clock may need to be reset when the unit is powered up.

What is SEN ON/OFF in the SET-UP menu? Is this for a wind sensor?

- SEN enables an external wind sensor package to be turned on or off.

Section 6
Frequently Asked Questions

When should I set the Daylight Savings Time switch (DST) to ON or OFF?

- DST, which is found under the SET-UP menu, is a feature added for convenience of the user.
- If DST is changed from OFF to ON, two events happen automatically:
  1. The clock is advanced forward one hour
  2. The time for each mist cycle, as defined in the CYCLES menu, is advanced forward one hour.
- The reverse of the above occurs when DST is changed from ON to OFF.
- DST ON is the setting that would be used in the summer months.

The manual mentions a zone kit. What is a zone kit, and how do I know if I have one?

- A zone kit is primarily composed of a solenoid valve attached to the unit that enables the system to sequentially mist through two different nozzle circuits, effectively doubling the capacity of the unit.
- Units with zone kits may be visually identified by the presence of 3-port valve mounted outside the plastic housing. “Zone 1” should be connected to the fitting on the top of the solenoid valve, and “Zone 2” to the lower fitting on the solenoid valve.
- For units with zone kits, the controller is also slightly different in the SET-UP menu.
- The number of nozzles setting “NOZ” is replaced by “NZ1” and “NZ2”, representing the number of nozzles in Zone 1 and Zone 2 respectively.

Section 7
Troubleshooting

Problem: The unit clock shows odd numbers.

- *Potential Cause*: The clock has not been set.
- *Action*: On brand new units, the clock must always be set when it is powered for the first time. Refer to Step 6b of the Assembly and Installation Instructions.

Problem: Just before misting, the displays shows “NOZ00” and the unit stops.

- *Potential Cause*: The Number of Nozzles is set to 0.
- *Action*: Repeat Step 6h in the Assembly and Installation Instructions to set the Number of Nozzles.

Problem: The Remote Mist won’t work.

- *Potential Cause*: System Mode set to OFF
- *Action*: Set System Mode to On or AUTO

or

- *Potential Cause*: Remote Mist Duration set to OFF
- *Action*: Set Remote Mist Duration (SET-UP Menu, REM)

or

- Potential Cause: Unit does not recognize Remote Transmitter
- Action: Repeat Step 6e to (in Installation Instructions) to program the unit to recognize the remote transmitter

or

- *Potential Cause*: Remote antenna not installed
- *Action*: Verify rubberized black antenna is screwed on tightly to the antenna connector inside housing.

Problem: Manual Mist doesn’t work.

- *Potential Cause*: System Mode is set to OFF.
- *Action*: Repeat Step 6f in the Installation Instructions to set the Manual Mist duration.

Problem: The unit will not Auto Mist.

- *Potential Cause*: System Mode set to OFF or ON
- *Action*: The System Mode must be set to AUTO-EVERYDAY or AUTO-CUSTOM in order for the Auto Mist to work.

Or

- *Potential Cause*: No Auto Mist cycles defined
- *Action*: Define mist cycle time and duration in CYCLES Menu

Problem: Unit agitates normally, but just before the mist, the controller resets.

- *Potential Cause*: Insufficient electrical power.
- *Action*: Verify the unit is plugged directly into a GFI-protected electrical outlet with 15 amp service. Do NOT use an extension cord with the unit.

Problem: Unit mists randomly during the day.

- *Potential Cause*: System receiving a remote signal from another source.
- *Action*: Change the DIP switches on the remote and reprogram the unit to recognize the remote.

Problem: The tank is full but the display still shows “EMP.”

- *Potential Cause*: The Level Indicator was not reset after the reservoir was replenished.
- *Action*: See Resetting the Level Indicator in the Operating Instructions section.

Problem: The tank is obviously empty, but the unit still runs.

- *Potential Cause*: Leak or siphon in the nozzle circuit.
- *Action*: Contact your installer to find and repair the leak.

Section 7

Troubleshooting

Problem: The motor runs, but the unit isn’t misting at all, or the nozzles are sputtering.

- *Potential Cause*: Air is being introduced into the pump suction.
- *Action*: Verify the pump suction pipe and discharge tubing is firmly engaged in the pump fittings. Verify that the Auto Drain Valve is attached.

or

- *Potential Cause*: Pump collar loose.
- *Action*: Use a screwdriver to verify that the collar securing the pump to the electric motor is tight.

or

- *Potential Cause*: Suction filter clogged.
- *Action*: Remove and clean the suction filter at the end of the pump suction pipe.

Section 8

WARRANTY AND LIMITATION OF REMEDY AND LIABILITY

MistAway Systems Inc. (MSI) warrants this Product – the MistAway Drum-Based Misting Unit – to be free from defects in material and workmanship as follows:

For a period of one (1) year from the date of original installation (whether or not actual use begins on that date), MSI will repair or replace defective parts, with new or refurbished parts, at its option, at no charge. This warranty does not include labor or other costs incurred for diagnosing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts.

This warranty applies solely to equipment supplied by MSI and is in lieu of all other warranties, expressed or implied. No person, agent, dealer, or distributor is authorized or empowered to give any other warranty or to assume any other liability on behalf of MSI

Warranty Conditions:

- This warranty is extended only to the original Purchaser and is not transferable.
- A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.
- Installation, use, care and maintenance must be normal and in accordance with instructions contained in the operating manual and MSI's service information. Failure to do so shall void this warranty.
- All claims for failure to conform to specifications or defects in material or workmanship under this warranty must be made promptly after discovery and, in any event, must be received by MSI not more than one year after the original purchase date.
- MSI reserves the right to inspect the equipment prior to any decision involving a warranty claim.
- MSI reserves the right to make warranted repairs at either the installed site or at MSI's location in Houston, TX. If MSI opts for repair at its own location, the Purchaser is responsible for shipping the item to MSI's Houston location at its expense.

Manufacturer's obligation under the warranty shall not apply to:

- Any equipment, which has been damaged by negligence, misuse, abuse, neglect and/or improper adjustment, accident, vandalism, acts of God, acts of war, whether declared or undeclared, improper application, or any other contingency beyond the control of MSI
- Cosmetic damage
- Damage in transit
- Failures caused by products not supplied by MSI
- Failures, which result from faulty installation, set-up adjustments, improper operation, power line surge, improper voltage supply or damage from lightning
- Any equipment that has been repaired or altered without authorization from MSI or in a manner inconsistent with such authorization
- Any unit that has not been maintained in accordance with the operator's manual
- Normal wear on any item or piece of equipment
- Lost items

Section 8

WARRANTY AND LIMITATION OF REMEDY AND LIABILITY

The foregoing is MSI's only obligation and Purchaser's exclusive remedy for breach of warranty. Purchaser's failure to submit a claim as provided above shall specifically waive all claims for damages or other relief, including but not limited to claims based on latent defects. In no event shall Purchaser be entitled to special, direct, indirect, incidental, exemplary or consequential damages, expenses, injury, lost profits, lost savings, business interruption, loss of business information, or any other pecuniary loss arising out of the use of or inability to use the equipment. In any case, MSI's entire liability shall be limited to the amount Purchaser actually paid for the item.

Except as modified in writing signed by both parties, this warranty is and shall remain the complete and exclusive agreement between the parties with respect to warranties, superseding all prior agreements, oral or written, and all other communications between the parties relating to the subject matter of this agreement.