



Cube Pro Misting System Bluetooth- 55 gallon





BEFORE INSTALLATION

The Pynamite Cube is shipped with the Drain Valve Cap removed. Hand-tighten it in place before filling the Cube. Do not discard the Viton O-ring inside the cap.

GETTING STARTED - DOWNLOAD THE APP AND PAIR THE CONTROLLER

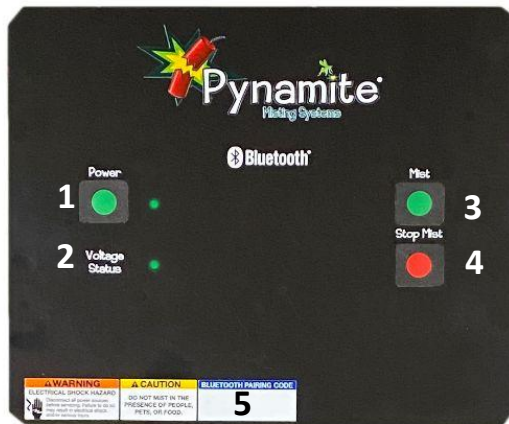
- 1 Plug the Power Supply into an outlet and toggle the power switch to ON
- 2 Press the Power button on the Bluetooth Controller, the light will illuminate green
- 3 Go to iPhone App store or Play Store, depending on your device. Type Pynamite Cube Bluetooth in the search bar
- 4 Download and then open the app

The App will be used:

- to set-up and configure the settings for the system
- as the Remote Control
- to update any future firmware or software updates

THE CONTROLLER

NOTE: Always Take care not to get water on the controller.



1 POWER - Press the Power button to turn the system ON or OFF. The green LED indicates the system is ON. **NOTE: The power to the Power Supply must be plugged in and turned on as well. NOTE: The app default is 0 nozzles, the system will not mist until the controller is paired and the nozzle count is increased to at least 1 nozzle in the set-up screen.**

2 VOLTAGE STATUS - The Voltage Status indicates power level when using a battery. A Level of 11.9V or higher will show a green LED and 11.8V or lower will show a red LED

3. MIST BUTTON

- Press the Mist button to initiate a mist. The default length is 45 seconds. Mist length is the same duration as remote control length and can be changed in the Set Up screen. **NOTE: The system will first agitate before it mists if agitation is turned on.**
- Press and HOLD the Mist button for 5 seconds **then release** to initiate a 180 second Inspect cycle. **NOTE: The system will first agitate before it mists if agitation is turned on.**

4. STOP MIST BUTTON

- Press the Stop Mist button to immediately stop a Mist.
- Press and HOLD the Stop button for 5 seconds until the Mist button LED flashes green 3 times to reset the liquid level indicator to 100%. **NOTE: You can also reset the liquid level indicator in the app Set Up screen.**

5. PAIRING CODE - Code will be used to pair the system to the a pp.

BLUETOOTH CONNECTION SCREEN

This screen is used to manage connections and devices. Once the app is downloaded it will default to the Bluetooth Connection screen.

The Selected Device box will show the name of the device that the app is currently connected to. If no device is connected, the field will be blank.

- If asked to share your location press **“Only When Using”** or **“Always”** so that the system will know your time zone and keep accurate time. Declining will make the Dawn and Dusk feature inoperative.
- If asked to have access to photos and videos press **“Only When Using”** or **“Always”** so that the app will get future updates.
- Press the Select Device button to navigate to the Available Bluetooth Devices Screen.

This screen is used to select the Pynamite device the app will pair to.

- Press on PynamiteBLE under Available Device to choose your system.

- Press Connect and settings will load.
- Enter the Pairing code when prompted. It is located on a sticker on the controller inside the Cube. (see #5 on page 2)
NOTE: Android phones may ask for a 4-digit PIN (1234 or 0000), input the 6 digit Pairing Code at this time.

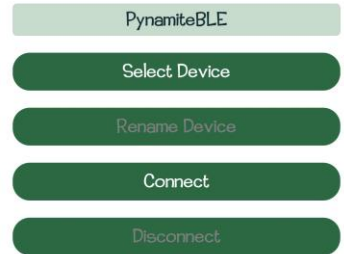
NOTE: Several phones can be paired to the system at the same time.

Renaming the Device: Before pressing Connect, you can change the name of the Selected Device by pressing PynamiteBLE and typing in the desired name, then Press Rename Device. The system will be renamed on that user’s phone. This is helpful if you have more than one system.

Disconnecting the Device: Press the Disconnect button to disconnect the app from the selected device. This button is disabled if no device is connected.



Selected Device:

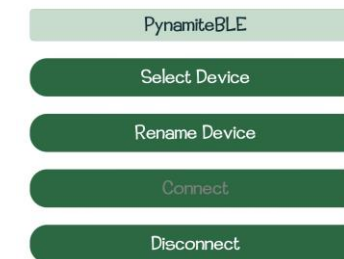


Available Pynamite Devices

PynamiteBLE
 04b4cc6a-bedf-528b-e9ab-a27defc
 1620b



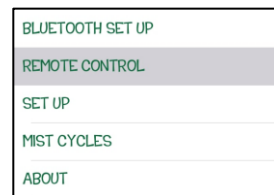
Selected Device:



✱ Loading Current Settings...

MENU SCREEN

Pressing on the Menu button (either ☰ or the word Menu) in the upper left-hand corner of the screen will open the menu. The screen that is currently displayed will be highlighted.



Pressing on any of the menu options will take the user to the selected screen.

REMOTE CONTROL SCREEN

This screen is used as a remote control by pressing the buttons on the left and for informational purposes through the boxes on the right.

REMOTE BUTTONS on the left

MIST BUTTON

Press the Mist button to begin a remote manual misting cycle.

NOTE: The app default is 0 nozzles, the system will not mist until the controller is paired with the app and the nozzle count is increased to at least 1 nozzle in the Set-Up screen. It is best to input the actual number of nozzles so the liquid level status will be accurate.

STOP MIST BUTTON

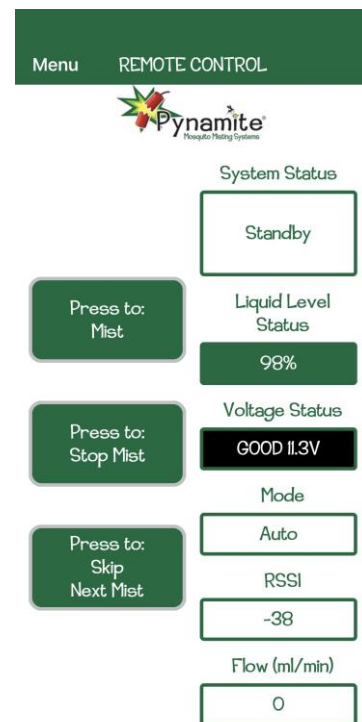
Press the Stop Mist button to terminate any misting cycle and stop other activities in progress.

SKIP NEXT MIST

Press the Skip Next Mist button to skip the next scheduled automatic mist cycle. The skip feature can be activated any time a scheduled automatic misting cycle is not active.

Once a user has chosen to skip the next cycle, the button text will be changed to Unskip Next Mist and pressing it will cancel the request to skip the next auto mist cycle.

When this button is pressed, a confirmation pop-up will verify the Skip/Unskip request before sending the command to the Controller.



INFORMATION SCREENS on the right

SYSTEM STATUS: displays the current state of the misting system. The field will report one of the following states:

- **STANDBY** – controller is idle
- **AGITATE** – in agitation phase - a countdown will appear
- **MIST** – in misting phase - a countdown will appear
- **DUMP** – in dump phase
- **STIR** – performing a stir operation
- **MIST SAVER** – suspends misting if the temperature goes below 50F inside the Cube
- **STANDBY/SKIP** – skip mist cycle is pending



LIQUID LEVEL STATUS: displays the current % level of liquid in the tank. The background of the field will change color based on the % level

- Green – Level = 25% to 100%
- Yellow – Level = 11% to 24%
- Red – Level = 0% to 10%

NOTE: The system will not mist if the liquid level shows 0%. To reset Liquid level either 1) go into the Set Up screen in the App and reset the Liquid Level or 2) Press and HOLD the STOP button on the Bluetooth controller for 5 seconds. The MIST button LED will flash green 3 times. In either case the liquid level will be reset to 100%. Running the pump dry can damage the pump and void the warranty.

VOLTAGE STATUS: displays the current voltage level, Good 11.3.

NOTE: Low Voltage Detection should be turned OFF in the Set Up screen when the system is using a power supply and ON when a battery or solar panel is being used.

MODE STATUS: displays either Auto or Manual. The system must be in Auto mode for scheduled mists and stir operations to activate. Change the Mode in the Set Up screen.

RSSI STATUS: displays the current Bluetooth strength (RSSI = Received Signal Strength Indicator). The number is always negative. The smaller the negative number is, the stronger the signal is.

FLOW STATUS: displays the current flow in ml/min. Will only display if optional Flow Meter is installed.

SET UP SCREEN

This screen is used to configure the controller settings.

Select Choice: is used to select between Manual and Auto mode. Press Auto or Manual to move the mosquito icon to that Mode.

NOTE: System must be in Auto mode for scheduled mists and stir operations to activate.

Agitation: happens before every mist cycle. It is a good feature to turn On.

Stir: is additional agitation twice a day. Stir only operates on Auto mode.

Liquid Level Reset: resets the liquid level back to 100%. **Liquid Level must be manually reset each time the system is refilled.** The Liquid Level is shown on the remote control screen. The system uses math to determine when it is time to refill, it does not have a liquid level sensor. When the system reaches 0% it will not mist until Liquid Level is reset. Reset the liquid level every time the tank is refilled.

NOTE: Do not allow the pump to run dry as this will void the warranty.

Zone 1 Settings: are used to configure the number of nozzles, the nozzle flow rate, and the tank size used in the system.

NOTE: The app default is 0 nozzles, the system will not mist until the controller is paired with the app and the nozzle count is increased to at least 1 nozzle on each active zone

- Number of Nozzles – Range: 0-60
- Nozzle Flow Rate – Range: 1-90 ml, typically leave as default
- Tank Size – Range: 1-250 gallons, typically leave as default

Zone 2 Setting: is used to configure the number of nozzles in Zone 2 if an optional Zone Kit was purchased with the system.

- Number of Nozzles – Range: 0-60 (at least 1 nozzle must be input for Zone 2 to mist)





Mist Days: are used to independently configure which days automatic misting should occur.

Remote Duration: is used to configure the duration of the mist cycle when triggered from a remote control or the MIST button on the Bluetooth controller. The range is 1-999 seconds.

Remote Counter: shows how many remote mist cycles have been initiated from the app and handheld remote transmitter. It will reset to 0 after 999.

Remote Reset: is used to reset the remote counter back to zero.

Mist Saver: suspends auto cycle misting when the temperature falls below 50F inside the Cube and will resume scheduled mist cycles when the temperature is above 50F inside the Cube. However, if the temp. falls to 32F for 5 minutes the system will go into sleep mode and power down. Pressing the POWER button will awaken the system.

Low Voltage Detection: should be turned OFF unless a battery is powering the system.

Dump: Relieves the pressure off the nozzles.

OPTIONS:

Learn Optional Transmitter: is used to reset or add a handheld remote control.

Forget Optional Transmitter: is used to erase a handheld remote control.

Leak Detection: is currently unavailable.

Reset to Factory Defaults: is used to reset all settings on the controller to factory defaults.

MIST DAYS

- SUNDAY
- MONDAY
- TUESDAY
- WEDNESDAY
- THURSDAY
- FRIDAY
- SATURDAY

REMOTE DURATION (sec) (Default: 45 sec)

REMOTE COUNTER

REMOTE RESET

MIST SAVER

LOW VOLTAGE DETECTION

DUMP (sec) (Default: 15 sec)

OPTIONS

LEARN OPTIONAL TRANSMITTER

FORGET OPTIONAL TRANSMITTER

LEAK DETECTION

LEAK ERROR % (Default: 20)

RESET TO FACTORY DEFAULTS



MIST CYCLES SCREEN

This screen is used to set the automated mist cycles. There are 24 independent cycles, displayed as 1 through 24. Cycles 1 and 2 are always listed as Dawn and Dusk and cannot be changed but can be toggled ON or OFF.

Cycles 1 & 2 - Dawn & Dusk: are a convenient way of not having to reset mist cycles with Daylight Saving Time. Dawn and Dusk can not be deleted only turned ON and OFF.

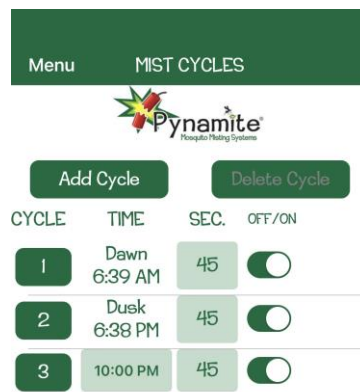
Add a Cycle Button: Pressing will add a new mist cycle row. The time will say “Set Time” until the user has selected a new time for the mist cycle.

Seconds Field: is used to configure the duration of the mist cycle. This field will default to 45 seconds and has a range of 0-999 seconds.

On/Off Selector: is used to enable or disable that mist cycle.

Zone Field: is used to configure which zone is controlled by this cycle. The zone column is only displayed if the optional zone 2 is installed on the system. The choices are 1, 2 and Both.

Delete a Cycle: Pressing will delete the selected row from the list. The delete button will not be enabled unless a row has been selected. The Dawn and Dusk cycles cannot be deleted.



RECOMMENDED MIST TIMES

MOSQUITOES: 30-45 second mists at Dawn, Dusk and again about 10:00 pm

FLIES: 30-45 second mists at 8:00 am, 10:30 am, 1:00 pm, 3:30 pm, and 6:00 pm

NO-SEE-UMS: Add 15-30 second mists every 30-60 minutes from 3:00-7:00 pm

***It will take a couple days to get control of your yard initially and again sometimes after a big rain and hatching cycle. Use the remote control to mist in between scheduled mists.

ABOUT SCREEN

This screen is used to update firmware on the controller.

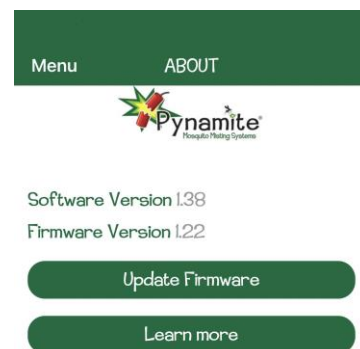
The system arrives with the latest update. However, if you want to check for an update, go to iPhone App or Android Play store. Type Pynamite Cube Bluetooth in the search bar. Press the mosquito icon (not the word open). If there is an update you will see the option to update, press it, and wait for the app to update.

To update Firmware:

- Open the Pynamite app on your phone and connect to the device as instructed on page 3
- **Press** MENU or ☰ then **Press** ABOUT
- **Press** the Update Firmware Button and then **Press** the PynamiteBLE.zip file. You will see a pop up.
- **Press** Download and the % bar will start increasing from 0%

The LEDs on the controller will turn blue during the download and change back to green when complete

NOTE: The paired phone MUST stay in range of the Bluetooth controller until the download has finished or the controller will lock up requiring a tech support call



INSIDE THE CUBE

1. POWER SUPPLY – plug into a 120v outlet. Must be turned for the system to operate. **NOTE: Plug the power supply into a surge protector to extend the life of the power supply.**

2. WIRE RECESS – for the power supply electrical cord.

3. ANTENNA – for the Bluetooth Controller.

4. CONTROLLER – see instructions above.

5. VALVE PLATE – contains the Agitation, Anti-Siphon Valve (#8), Electronic Dump Valve (#6) and the Nozzle Circuit Tee (#7).

6. ELECTRONIC DUMP VALVE – releases the pressure off the nozzles and dumps liquid back into the tank after each mist through the check valve.

7. NOZZLE CIRCUIT TEE AND PRESSURE TESTER TEE –

Nozzle Circuit Tee - is the beginning of the Nozzle Circuit. Bring the tubing in through the Nozzle Circuit Outlet (#9), insert the tube into the Nozzle Circuit Tee. **NOTE: To insert the tubing correctly, first make a clean straight cut with the Tube Cutter, then moisten the tubing and push it all the way in and then swiftly pull back to lock the tubing in place.**

Pressure Tester Tee - this tee can also be used to check the pressure of the Pump. Remove the Nozzle Circuit Tubing and plug the Pressure Tester in to check the pressure of the Cube. See Using the Pressure Tester below.

8. AGITATION, ANTI-SIPHON VALVE – agitates liquid inside the cube prior to every mist to keep the contents in suspension.

9. NOZZLE CIRCUIT OUTLETS – outlets (holes) on both the back right and left side to allow the Nozzle Circuit to go in either direction. It may be easier to feed the tubing in through the Nozzle Circuit Outlet from outside the Cube before attaching it to the Nozzle Circuit Tee.

10. SUCTION STRAINER – catches particulates/debris from the tank before they enter the pump and nozzle circuit. Helps keep the nozzles from getting clogged. It serves as an excellent visual to determine if the strainer is clogged and needs to be cleaned. See more about the Suction Strainer below

11. PUMP AND MOTOR – 300 psi Pump can mist up to 80 Nozzles on up to 1200 feet of tubing.

12. PRESSURE REGULATOR – regulates pressure to the Nozzle Circuit. It is set for a maximum of 300 psi. Connected hose is a bypass line.





13. SIGHT GLASS – used when filling the Cube to determine when it is full. When liquid can be seen at the level of the sight glass, the Cube is full to the 55 gallon mark.

14. 8” MANWAY – used to access inside the Cube for filling, maintenance, and winterization.

15. LOUVERS – designed to allow air to move through the Cube while protecting the components from the elements. See Installing the Louvers below. If liquid is exiting through the Louvers, a leak has occurred inside the Cube and needs to be inspected immediately. **NOTE: Never operate the Cube without the Louvers or with broken Louvers as water (rain, irrigation, etc...) can enter the Cube and damage the components.**

NOT PICTURED

Outside the Cube

- Recessed Drain – located on the bottom right side of the Cube.
NOTE: The Pynamite Cube is shipped with the Cap removed. Make sure Viton O-Ring is in place and hand-tighten before adding liquid.

Inside the Cube

- Eductor Tube – attached to the Agitation, Anti-Siphon Valve (#8)
- Suction Strainer Tube – attached to the Suction Strainer (#10), draws liquid from the Cube into the Pump and out through the Nozzle Circuit.

ATTACHING THE DRAIN CAP

Make sure the viton o-ring is in place and hand-tighten the drain cap on to the drain, back right hand corner of the cube, before filling the cube.



ATTACHING THE LOUVERS

The louvers cover holes in the sides of the cube that allows water to drain out if the cube gets overfilled or a hose breaks.

- While the lid on the Cube is closed; center the louver over round the hole on each side, just under the lid. Do not attach the louvers to the lid. Make sure the louvers point down.
- Attach the louvers with the provided screws. Tighten just until snug. **CAUTION: Do not over tighten the screws.**

NOTE: Never operate the Cube without the louvers or with broken louvers as water (rain, irrigation, etc.) Cube and damage the electronics.



USING THE PRESSURE TESTER TOOL

The Pressure Tester is a tool to check the pressure at the Pump and anywhere along the Nozzle Circuit.

NOTE: The Pressure Gauge is partially filled with liquid.

To test the pressure at the Pump, remove the Nozzle Circuit Tubing (#7 inside the Cube) by holding down the collet on the Tee fitting and pulling the tubing out. Insert the tubing attached to the Pressure Tester into the Tester. The Pressure Tester will read the pressure of the system.

The Pressure Tester can also be used along the Nozzle Circuit to check for leaks. To attach the Pressure Tester to the nozzle circuit, remove a nozzle and adapter from the fitting and insert the tubing attached to the Pressure Tester into the fitting that was holding the nozzle and adapter. **NOTE: The Pressure Tester should not remain attached to the Cube Pro system or Nozzle Circuit during regular operation. Store the Pressure Tester out of freezing temperatures to use again when needed.**



REMOTE CONTROL

1. START MIST Button - pressing this button will initiate an unscheduled agitate/mist cycle.

NOTE: Mist will start after the pre-set agitation runs.

2. STOP MIST Button - pressing this button will stop a mist once it starts.



SUCTION STRAINER CLEANING

The suction strainer can be cleaned by pulling some of the suction hose out of the hole to allow the suction strainer to be moved outside of the Cube. Open the clear bowl outside the Cube so liquid does not go inside the Cube and remove the mesh filter. Rinse the filter and nylon bowl after every couple of refills.



NOTE: Do not allow water to remain in the clear plastic bowl of the suction strainer during a freeze. Freezing water will crack the nylon bowl.

INSECTICIDES REGISTERED FOR MISTING

Only products that are water based, approved by the EPA and labeled for use in an Automated Misting System can be used in a Pynamite Misting System. **Products containing Petroleum Distillates should never be used regardless of labeling. Additionally, do not use Natural Products containing essential oils such as wintergreen, peppermint and similar. Using unauthorized products can damage your system as well as your property and will void the warranty.** To see approved Misting Concentrates, go to www.mosquitoesinthemist.com and click on the Misting Solutions tab.

Never mix different misting concentrates inside the Cube. Always thoroughly clean out the tank and run a couple freshwater manual mists before you change products. Perform this clean out procedure after every 2-3 refills to keep the Cube tank clean and algae/bacteria free.

LIQUID LEVEL RESET

Level Reset: resets the liquid level back to 100%.

Liquid Level must be manually RESET each time the system is refilled. The Liquid Level is shown on the remote control screen. The system uses math to determine when it is time to refill (number of nozzles, duration and frequency of mists). It does not have a liquid level sensor. When the system determines the tank is at 0% it will not mist until the Liquid Level is reset.

To reset the liquid level:

- In the APP
 - Press the Menu button (either ≡ or the word Menu) in the upper left-hand corner of the screen
 - Press Set-up
 - Press RESET next to Liquid Level
 - Press to confirm
- On the controller
 - Press and HOLD the Stop button for 5 seconds until the Mist button LED flashes green 3 times to indicate the liquid level has been reset to 100%

NOTE: Do not allow the pump to run dry as this can damage the pump and void the warranty.

NOZZLE CIRCUIT ASSEMBLY

Nozzle Assembly:

- Insert the nozzle and adapter into the center hole of a union tee by pushing the adapter into the tee and then swiftly pulling back to lock the nozzle and adapter in place.

Riser Assembly:

- Insert the tubing sticking through the bottom of the riser into the center hole of a union tee.
- Insert the nozzle and adapter into the union at the top of the copper riser. Secure the adapter by pushing it all the way in and then swiftly pulling back to lock the adapter in place.



NOTE: Ensure the nozzles are tightly screwed into the adapter. Do not loosen the nozzle from the adapter or the tip from the nozzle. That will cause a pressure loss.

The most effective nozzle circuit is one that forms a complete perimeter barrier around the area you want to protect. Nozzles/risers are typically placed 10 feet apart.

The Cube Pro with its high pressure pump and motor is strong enough to run up to 60 nozzles/risers without having to create a closed loop. Insert a union tee anywhere in the line to run in a different direction. Insert a plug into the open hole(s) of the union tee(s) at the end of all the runs.

Starting a Nozzle/Riser Circuit:

- Run the end of the tubing in through one of the Nozzle Circuit Outlets (holes) found in the back corners on either side of the Cube. See #6 on page 8.
- Insert the tubing into the nozzle circuit fitting inside the Cube. See #4 on page 8.
- Using the Tube Cutter, cut the tubing at the first nozzle placement or tee and insert the tubing into union tee.
- Continue cutting the tubing to the desired length, usually 10 feet, and attaching to the remaining union tees on the nozzles/risers to create the nozzle circuit.
- Secure the nozzles with the included tube clamps. Place a tube clamp on the tubing on each side of the nozzle to hold the nozzle in place and one every 3 -5 feet to hold the tubing in place.
 - Be sure to pull tubing snug before tightening the clamp to keep the tubing from sagging.
 - NOTE: If installing on Stucco, take precautions to ensure water does not seep into the Stucco.

Tips & Time Savers:

- Ensure every tubing cut is a straight clean cut. Even a small angle can cause a leak in the fitting.
- Push the tubing all the way into the fitting and then swiftly pull back to lock it in place to avoid leaks. You should feel 2 points of resistance for the tubing to be fully seated.
- Wetting the tubing before inserting it into the fitting will help it slide in easier.
- To release a nozzle or tubing hold down the springy collet on the fitting and pull to remove nozzle or tubing. The U-shape on the back of the tube cutter works well to hold the springy collet down.
- When the installation is complete, check the entire nozzle circuit to make sure there are no leaks and that the tubing is inserted into all the fittings properly. Use the pressure gauge (see page 9) to check the pressure.
- Don't bury the riser tubing until after the system has been pressure tested and no leaks were found.
- Tubing does not need to be protected underground but should be protected in 12"-15" of PVC pipe or similar material up from the ground for every transition to avoid cuts from feisty squirrels and weed whackers.
- Nozzles and risers can be alternated throughout the installation.

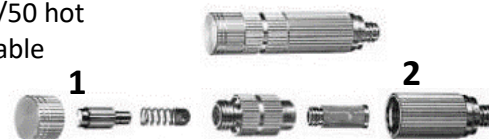
TUBE CUTTER

The tube cutter is used to make straight cuts in the tubing. The U-shape at the back of the tube cutter is a tube release tool. Use it to push down on the springy collet of a fitting to release the tubing.



NOZZLES

Pynamite nozzles are fully cleanable. The tip (1) can be unscrewed and soaked in 50/50 hot vinegar/water solution to remove calcium deposits. The nozzles also contain a cleanable mesh filter (2) in the rear of the nozzle. Unscrew the back of the nozzle to locate the filter and rinse the filter with fresh water to remove any debris. Hand tighten to reassemble. **NOTE:** Only soak the nozzle tip in the vinegar solution.



SYSTEM SETUP

Once the Nozzle Circuit has been installed and connected to the Cube, the system needs to be purged and tested before filling it with insecticide.

- Fill the Cube about halfway with water. **DO NOT ADD INSECTICIDE YET.** **NOTE: Do not get the controller wet.**
- Remove the last Nozzle in the circuit (or Nozzles if you have different runs) by unscrewing from the Adapter.
- To purge the air out of the system, initiate an Inspect cycle by Pressing and HOLDING the Mist button for 5 seconds **then release.** **NOTE: The system will NOT mist with the remote or a quick touch on the Mist button until the controller is paired with the app and the nozzle count is set to at least 1 in the Set Up screen.**
- After the agitation cycle (if turned on), the system will start misting. **Verify there are no leaks inside the Cube before walking away.** Water and air will come out of the open Nozzle(s). Initiate several Inspect cycles to get the air out of the lines so that the water runs freely without sputtering. Make sure the Suction Strainer tube is below the surface of the water.
- Once the water is running without air sputtering, either press the Stop button or wait until the current Inspect cycle has ended, **replace the Nozzle(s).**
- Attach the pressure tester along the nozzle circuit to test the system pressure. Refer to pressure tester instructions above.
- Press and hold the Mist button for 5 seconds. Once misting, if the pressure does not reach about 150 psi, check tubing connections making sure water is not leaking out or air is not being sucked in. **NOTE: Tubing must have a fresh straight cut and is pushed in and swiftly pulled back to lock in place.**
- Once the pressure is verified, remove the pressure tester.
- Lastly, pour in the insecticide, and continue filling the Cube with water. **Do not leave the Cube while you are filling to ensure it does not get overfilled. Water can damage the electronics and pump & motor.**

NOTE: DO NOT OVERFILL PAST LOWER MOUNTING PLATE OF CUBE. Use the Sight Glass (#13) to ensure you do not overfill.

WARNINGS:

DO NOT LEAVE THE SYSEM UNATTENDED WHILE FILLING
DO NOT LET THE HOSE COME IN CONTACT WITH SOLUTION IN THE TANK
UNPLUG THE SYSTEM WHILE SERVICING

NOTE: When the Cube is full, you may notice a slight bulge. This is common with rectangular tanks and is not a functional concern.



WINTERIZING

If possible, plan for your Cube to be close to empty as the winter season commences. You will need to empty the Cube for the winter. Be sure to dispose of any remaining liquid properly according to the instructions on the label of your misting concentrate.

Flush pump and agitation valve with clean water:

- Open the drain cap on the bottom right side of the Cube to drain.
- Open the Manway Cover to rinse inside the Cube with fresh water, replace the drain cap.
NOTE: Do not get the electronics wet.
- Thoroughly rinse the suction and agitation lines inside the Cube with fresh water.
- Fill a few inches of water back into the Cube, **make sure the water covers the entire end of the suction hose.**
- Initiate an Inspect cycle by Pressing and HOLDING the Mist button for 5 seconds and **then releasing.** The agitation cycle will flush the Agitation Valve with fresh water and the mist cycle will flush the Pump.
- Open the Drain Cap and empty the Cube and then activate a dry Manual Mist cycle by pressing the Mist button or using the Remote Control to clear the water from Agitation Valve and Pump.
- Close the Manway Cover.
- **Do not allow water to remain in the clear bowl of the Suction Strainer. Freezing water can crack the bowl.**
- Press the Power button to turn the system OFF.
- Turn off the Power Supply.

Purge fluid remaining in the Nozzle Circuit with compressed air.

- Remove the Nozzle from the Adapter (straight or 45 °) on the end of each run.
- Using a portable air compressor with adapter (adapter can be purchased from Pynamite www.mosquitoesinthemist.com, click the Fitting & More tab) purge fluid from Nozzle Circuit by connecting the air compressor to the tubing at the beginning of the Nozzle Circuit.
- Once the fluid has been purged from the lines, replace the Nozzle(s).

OR in areas that do not have a long hard freeze

Remove the nozzle tip from the straight or 45 ° adapter on the end of each run and leave them off through the winter to allow liquid to drain out

NOTE: Winterizing is a great time to check and clean the nozzles. For optimum performance, nozzles should be checked and cleaned several times a year. See nozzle cleaning instructions above.

NOTE: If you live in an area that does not freeze and you do not plan on performing a complete winterization process, the Cube should either be emptied and cleaned or kept agitating and running throughout the winter. If the liquid sits stagnate over several months, slime and bacteria will naturally grow in the tank. When the system starts up again, that slime will be drawn up into the suction filter, though the pump and out through the nozzle circuit causing clogging and possible damage.

NOTE: An overnight freeze can cause liquid in the pump and motor to freeze. If the system initiates a scheduled mist while the pump is frozen, the pump, motor and controller can be damaged. These damages are not covered under the warranty.



WARRANTY

Lovett Industries, LLC dba Solar Insect Systems (SIS) warrants this Product, to be free from defects in material and workmanship as follows:

- For a period of three (1) year from the date of purchase (whether or not actual use begins on that date), SIS will repair or replace defective electronic 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. Additionally, warranty does not apply to Nozzle Circuit or Fittings.
- This warranty applies solely to equipment supplied by SIS 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 Solar Insect Systems.

Warranty Conditions:

- This warranty is extended only to the original Purchaser and is nontransferable.
- A purchase receipt or other proof of date of 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 Solar Insect’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 Solar Insect Systems not more than three years after the original purchase date.
- SIS reserves the right to inspect the equipment prior to any decision involving a warranty claim.
- SIS reserves the right to make warranted repairs at either the installed site or at SIS's location in Navasota, TX. If SIS opts for repair at its own location, Purchaser is responsible for shipping the item to SIS 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, water damage on electronics, misting products not labeled for misting systems or that contain Petroleum Distillates, accident, vandalism, acts of God, acts of war, whether declared or undeclared, improper application, or any other contingency beyond the control of Solar Insect Systems.
- Cosmetic damage
- Damage in transit
- Failures caused by products not supplied by SIS
- 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 SIS or in a manner inconsistent with such authorization
- Normal wear on any item or piece of equipment
- Lost items



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CAUTION: Use a GFCI outlet