The iQ™ Tree Infuser is designed to allow tree injection treatments to be performed quickly, safely, and accurately without the use of expensive and cumbersome plastic plugs. Be certain to read ALL the instructions covered in this application guide. Refer to the appropriate product guide and product label for dosage and mixing instructions.

IQ TREE INFUSER™ OVERVIEW

- **MAIN LINE VALVE SELECTOR**
  - F indicates Fluid will go through the line (Priming/Injecting)
  - A indicates Air will go through the line (Cleaning)

- **ATTACHMENT POINT FOR GUN TO UNIT CONNECTION** (Fluid and electrical)

- **GUN HOLDER**

- **INJECTION GUN**

- **SAFETY LOCK**

- **TRIGGER**

- **KEYPAD**

- **QUICK-FILL VALVE**
  - Prime lines without losing product

- **LITHIUM BATTERY COMPARTMENT**
  - Holds up to 2 batteries

- **1-LITER BOTTLE HOLDER**

- **GUN/CAP REST SLOTS**

For tech support and protocols call 1-877-272-6747 — www.treecarescience.com
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Patents Pending
I. PRIMING

1. Disconnect bottle cap assembly from device by pressing the release button on the top of the female quick-connect end and removing the supply bottle from the bottle holder. Unscrew the bottle cap and fill the supply bottle with desired chemical, product, or cleaning solution (no measuring required).

2. Turn black feed valve to Fluid [F] Located adjacent to the quick-connect tube. NOTE: Reattach the bottle cap to ensure product supply is able to flow.

3. Insert the tip of the dispensing gun into the top port of the bottle cap, and press and hold the trigger. After cycling 150ml of solution, your lines should be fully primed and ready to begin injecting. NOTE: Press Start/Reset to repeat this step if air bubbles remain in the lines.

Program Total Dose
1. Use up arrow to program the Total Dose to 150ml
2. Select Prime Mode
3. Press Start/Reset button

II. DOSING

1. Select the Total Dose
Press Total Dose button (selecting a button will turn on the button’s indicator light) and use the up and down arrows to set the total product dose (0 to 999ml) for treating the tree. (Refer to product label for dosing information.)

Select the Injection Dose
Press Injection Dose button and use the up and down arrows to select the volume (0 to 10ml) dispensed per trigger pull. NOTE: Injection Dose = Total Dose / (DBH/2)

Set maximum injection pressure (0 to 240 psi)
Use the Pressure button along with the up and down arrows to set the desired pressure. NOTE: Rainbow recommends starting at the default pressure (200 psi). The iQ™ will ramp up pressure as needed from 0 psi as the injection is being delivered. Under good uptake conditions, the maximum set pressure may not be reached.

Select Inject Mode after device is programmed.

Press the Start/Reset button to prepare the unit for injecting. This button will also reset the remaining dose to the Total Dose and can be used when applying the same amount of product to several trees without reprogramming the device’s settings.

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III. INJECTING

As with all injection devices, refer to the product label for dose rates and number of injection sites to drill.

1. Drill the required number of injection sites into the root flare
   Use a 15/64” high helix drill bit. Refer to the product label for number of injection sites. Injection sites should be uniformly spaced around the tree.

2. Insert the tip of the dispensing gun into the first injection site
   NOTE: You want to go in as far as possible to create a tight seal around the tip. Turning the gun slightly while you firmly press the tip into the hole will help create a tight seal.

3. Holding down the safety lock, pull the dispensing gun trigger
   NOTE: As the iQ Tree Infuser™ is injecting, the red LED indicator on the gun will be on. Do not pull the gun out while the red light is on or chemical may leak.

4. When red light has gone off, the dose has been delivered to the injection site
   Remove the gun without pulling the trigger and inject the next hole. The display will show the PSI while injecting.
   NOTE: If an injection is particularly slow, you do have the option to stop an injection by pressing the green Start/Reset button on keypad. This will stop the system from continuing to try to inject the hole. Wait for the red LED light on the gun to go off before removing the gun.

5. Continue injecting until the Dose Remaining is 0
   When it reaches zero, you are now done.

IV. CLEANING

1. Select Prime/Clean Mode

2. F
   A
   Turn the main line valve to A (Air)

3. Insert the tip of the dispensing gun into the cap of the product bottle
   Hold down the safety lock and pull trigger until your lines are emptied of fluid. You can visually inspect the lines to make sure that the fluid has been emptied.

4. If you are done injecting for the day: unscrew the product bottle from the iQ Tree Infuser™ and replace it with an isopropyl alcohol-based cleaning solution and repeat steps 1-5 for priming the unit.
   NOTE: For questions on cleaning solution options, call our Solution Center at 1-877-272-6747.

5. F
   A
   Turn the main line valve to F (Fluid) and insert the gun tip into the cap. Run the cleaning solution through the system.

6. Purge the cleaning solution by turning the main line valve back to A (Air) and dispense the fluid back into the bottle. Now the iQ Tree Infuser™ is clean.
GENERAL CARE

• It is highly recommended that you clean out your iQ Tree Infuser™ daily after use. A 1:2 solution of 70% isopropyl alcohol and water is recommended.
• Purge all product or solution from lines after each use or prior to changing chemistries or job sites, and after cleaning.
• When wiping down the outer parts of the unit you can use a dilute isopropyl alcohol solution.

STORAGE

• It is recommended to store your iQ Tree Infuser™ in a dry area that is free from dust and other particulate matter.
• Storage temperature limits for the iQ Tree Infuser™:
  Main Unit above freezing and below 100°F.
  The battery packs should be stored in an environment with low humidity, free from corrosive gas at a recommended temperature range of <69.8°F.
  Extended exposure to temperatures above 113°F could degrade battery performance and life.

TROUBLESHOOTING

When I pull the trigger, only air comes out
• Make sure your fluid/air valve is in the correct position. It should be set to F for fluid
• Make sure all tubing is fully inserted and attached correctly
• Make sure your cap is screwed on the bottle properly. This will ensure a complete seal in the system
• Make sure your quick connect is securely connected (when connected correctly a distinct click should be heard)

When I pull the trigger, the unit is unresponsive
• If you are in Prime Mode, make sure you program a total dose
• If you are in Inject Mode, both the total dose and the injection dose should be programmed
• Make sure you press the Start/Reset button
• Make sure all the wired connections on the unit and gun bottom are attached properly

Pressure sensor light doesn’t turn off / won’t let me inject or prime
• Make sure the dispensing gun tip is clear of debris. A piece of wire or paperclip can be used to dislodge debris
• Check to see if the hose from the unit to the gun has any visible debris. If so, disconnect the cable and hose from the unit and the gun, and use air to clear the lines
• If the pressure indicator light is still on, the pressure sensor may be obstructed. It is recommended that you contact our technical support team for assistance

The unit is unresponsive and will not cycle back into inject or prime mode
• Press the Start/Reset button
• Try switching to prime or inject mode and back again. The unit may need to be reprogrammed
• Remove the battery and wait several seconds before restarting the unit

If unit isn’t dosing accurately
• Check all the lines to make sure they are connected correctly
• Make sure the unit has been fully primed
• Contact our technical support team if the problem persists

The iQ Tree Infuser™ doesn’t turn on
• Make sure the battery is correctly inserted. Line up the battery connections in the unit and on the battery itself
• Make sure the battery is charged
• If the unit is still unresponsive contact our technical support team for assistance

If there is a problem with your iQ Tree Infuser™, check below for the symptoms and steps to resolve it. If you continue to have problems, contact our customer support Solution Center (1-877-272-6747).