CS-915™
Wheeled Cart - Electrostatic Spray System
OPERATOR’S MANUAL

115VAC, 60Hz, 5.2A
Indoor Commercial Use Only
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## SPECIFICATIONS

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WARNINGS

• Read and fully understand the ByoPlanet Operator’s Manual prior to using the Electrostatic Sprayer.

• Read and fully understand the manufactures label prior to using any chemical with the ByoPlanet Electrostatic Sprayer.

• ByoPlanet Electrostatic Sprayers are for Indoor Commercial Use only.

• ByoPlanet Electrostatic Sprayers should never be used in a hazardous environment.

• ByoPlanet Electrostatic Sprayers should never be used in an area containing volatile chemicals.

• ByoPlanet Electrostatic Sprayers should never be used by untrained personnel.
The following warnings are for the setup, use, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

**WARNING**

**FIRE, EXPLOSION, AND ELECTRIC SHOCK HAZARD**

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire, explosion, and electric shock:

- Electrostatic equipment must be used only by trained, qualified personnel who understand the requirements of this manual.
- Stop operation immediately if static sparking occurs or you feel a shock. Do not use equipment until you identify and correct the problem.
- Use and clean equipment only in well ventilated area.
- Use non-flammable (flash point greater than 60°C) cleaning solvents when flushing or cleaning equipment.
- Never spray a flammable chemical (with a flash point less than 60°C).
- Always turn the electrostatics off when flushing, cleaning or servicing equipment. This is accomplished by removing the battery in the ES-120 Sprayer.
- Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.
- Keep spray area free of debris, including solvents, rags, gasoline or any flammable chemicals.
- Keep a working fire extinguisher in the work area.
# WARNING

## PRESSURIZED EQUIPMENT HAZARD
Fluid from the equipment, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

- Follow the Pressure Relief Procedure when you stop spraying/dispensing and before cleaning, checking, or servicing equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.

## PLASTIC PARTS CLEANING SOLVENT HAZARD
Many solvents can degrade plastic parts and cause them to fail, which could cause serious injury or property damage.

- Use only compatible water-based solvents to clean plastic structural or pressure-containing parts.
- See Technical Data in this and all other equipment instruction manuals. Read fluid and solvent manufacturer’s SDSs and recommendations prior to use.

## TOXIC FLUID OR FUMES
Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled, or swallowed.

- Read SDS’s to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.

## PERSONAL PROTECTIVE EQUIPMENT
Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This protective equipment includes but is not limited to:

- Protective eyewear and hearing protection.
- Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.
- Read SDS's to know if specific PPE is recommended.
WARNING

EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

• Do not operate the unit when fatigued or under the influence of drugs or alcohol.

• Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer’s warnings. For complete information about your material, request SDS from distributor or retailer.

• Do not leave the work area while equipment is energized or under pressure.

• Turn off all equipment when not in use.

• Check equipment daily. Repair or replace worn or damaged parts immediately with genuine ByoPlanet replacement parts only.

• Do not alter or modify equipment. Alterations or modifications may void your ByoPlanet Warranty, agency approvals and create safety hazards.

• Use equipment only for its intended purpose. Call ByoPlanet for information.

• Route hoses and power cords away from traffic areas, sharp edges, moving parts, and hot surfaces.

• Do not kink or over bend hoses or use hoses to pull equipment.

• Keep children and animals away from work area.

• Comply with all applicable safety regulations.
CHEMICAL USE HAZARD

Each chemical such as a disinfectant has a unique set of hazards and needs to be handled properly to ensure worker safety.

- Never spray any chemical that has not been approved by ByoPlanet for use in ByoPlanet equipment. Using a chemical that has not been approved by ByoPlanet will void your warrantee and may increase safety concerns. Contact ByoPlanet if you have questions about a chemical.
- Read and understand the chemical manufacturer’s SDS prior to use.
- Be aware of First Aid procedures related to the chemical in use.
- Read and understand the chemical label prior to use. Remember that it is a violation of Federal Law to use a chemical in a manner inconsistent with its labeling.
- Insure that the chemical is diluted to the correct concentration prior to use.
- Use Personal Protective Equipment as suggested by the manufacturer’s SDS.
- For use with non-flammable, non-combustible and non-volatile fluids only. Never spray a flammable chemical (any chemical with a flash point less than 60°C).
- Insure the area being sprayed has proper ventilation allowing air to flow freely.
- Store all chemicals in original containers in a cool, dry place away from heat and open flames.
- Do not reuse or refill a chemical container.
- Rinse and dispose of empty chemicals in a manner consistent with all Federal, State and local laws and procedures.
- Dispose of waste chemicals in a manner consistent with all Federal, State and local laws and procedures.
SAFETY NOTICES

This manual contains information that is important for you to know and understand before operating the CS-915™ electrostatic system. This information relates to protecting YOUR SAFETY and ensures product reliability and performance. It is the owner’s responsibility to ensure that all who operate this equipment read this manual.

SAFETY DECALS

To help you recognize this information, we use the symbols below. Please read the manual carefully and pay special attention to these symbols and warning labels. Warning label indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

THE CS-915™ IS ONLY INTENDED FOR USE WITH APPROVED ByoPlanet® CHEMICALS. Be aware that many chemicals are harmful if they are not used properly. Read all instructions and warnings on the chemical label. Do not leave leftover chemicals where children or animals may find them. The contents of the CS-915’s tank are under pressure. Please use caution when releasing pressure and when removing the tank lid.

![WARNING! PRECAUCIÓN!]

This decal is located on the front cover of the CS-915.

PROTECTIVE GEAR

Personal Protective Equipment (PPE) must comply with the American National Standards Institute, ANSI Z87.1-1989 standard if purchased after July 5, 1994 or ANSI Z87.1-1968 if purchased before July 5, 1994. [1910.133(b)(1), 1915.153(b), 1926.102(a)(2)]

- Eye and face PPE shall be distinctly marked to facilitate identification of the manufacturer. [1910.133(a)(4)]
- The following minimum requirements must be met by all protective devices. Protectors shall:
  - Provide adequate protection against the particular hazards for which they are designed
  - Be of safe design and construction for the work to be performed
  - Be reasonably comfortable when worn under the designated conditions
  - Fit snugly and not unduly interfere with the movements of the wearer
  - Be durable
  - Be capable of being disinfected
  - Be easily cleanable
  - Be distinctly marked to facilitate identification only of the manufacturer
IMPORTANT SAFETY PRECAUTIONS

When using an electrical appliance, it is important to understand that some circuits are electrically live; even when the power switch is in the off position. Basic safety precautions should always be followed to reduce the risk of burns, fire, electrical shock, injury and/or death. **READ ALL INSTRUCTIONS BEFORE USING THIS UNIT.**

POWER CONNECTION

Our power plug must be used with a 3-prong **grounded** outlet rated for no less than 15A service. Always verify before product use.

EXTENSION CORD

ByoPlanet provides a 50’ extension cord with each CS-915 and strongly recommends that you use the ByoPlanet approved extension cord. Make sure your extension cord is in good condition. Inspect extension cords periodically and replace if damaged. An undersized extension cord will cause a drop in line voltage which could result in loss of power, damage to the product and/or overheating. Always use a sufficiently rated extension cord.

**IMPORTANT:** ByoPlanet® recommends using a 3/14 gauge extension cord rated for outdoor use no longer than 100ft (30.5m). Additionally, ByoPlanet also recommends the use of a GFCI (ground fault circuit interrupter) type power outlet or extension cord. When equipped on the extension cord, always position GFCI towards power outlet.

SHOCK/ELECTRICAL HAZARD

As with most electrical appliances, electrical parts are electrically live even when the switch is off. To reduce the risk of burns, fire, electric shock, or injury:

1. Use this unit only for its intended use as described in this manual.
2. Do not use while bathing.
3. Do not place or store unit where it can fall or be pulled into water or other liquid.
4. If unit falls into water – unplug immediately. Do not reach into water to retrieve.
5. Never operate this unit if it has been dropped, damaged, or is working improperly. Return the unit to an Authorized ByoPlanet® Technician for examination or repair.
6. Keep the cord away from heated surfaces.
7. Never block the air openings of the unit or place it on a soft surface, such as a bed or couch, where the air openings may be blocked. Keep the air openings free of lint, hair and the like.
8. Never drop or insert any object into any opening.
9. Do not use with a damaged or broken attachment.
10. Never store at a temperature above 140ºF.
11. This unit may be warm when in use. Do not let heated surface touch bare skin.
GENERAL SAFETY
Lack of attention to safety can result in reduced efficiency, accident, personal injury, or even death. Watch for safety hazards and correct deficiencies promptly. Use the following safety precautions as a guide when using this machine.

1. Read the operator’s manual. Failure to do so is considered misuse of the equipment.
2. Use the CS-915™ unit ONLY for its intended use as described in this manual.
3. Before operating equipment, become familiar with all caution and warning decals affixed to the sprayer.
4. Do not use the CS-915 in a hazardous location.
5. Do not allow a child to operate the CS-915™ sprayer.
6. Do not allow adults to operate the sprayer without proper instruction or under the influence of alcohol or drugs.
7. Use an extension cord rated for no less than 15 amp service.
8. Store sprayer in a cool, dry place. Do not expose to extreme temperatures.
9. It is recommended to completely empty tanks and rinse machine thoroughly before storing the unit.
10. Be aware, even when the sprayer is off, power is still supplied to the unit.
11. Never hang unit from cord.
12. A sprayer should never be left unattended when plugged in.
12. The switch on the bottom of the unit acts as a circuit breaker – and not just a power switch. It will trip if the unit experiences an electrical short.
13. Always turn off sprayer after each application and before unplugging.
14. Always unplug unit from outlet when not in use or when leaving it unattended.
15. Never unplug by pulling the cord or with wet hands. Always unplug by grasping the plug.
16. Do not pull or carry the sprayer by the power cord. Do not crimp the cord or strain it around sharp edges, as doing so might damage the cord.
17. Do not use the CS-915™ sprayer with a damaged power cord.
18. Always thoroughly inspect product before usage.
19. Contact ByoPlanet immediately at (855) 211-1518 for any questions pertaining to unit or replacement needs.

CHEMICALS
1. Always use appropriate Personal Protective Equipment (PPE) when operating the CS-915™.
2. Follow the chemical manufacturer’s recommendations in storing, handling, mixing, applying, and disposing of any chemicals used in the CS-915™.
3. Be aware of poisoning symptoms and know the appropriate first aid protocol for your organization.
4. Know the length of time required by each chemical application before allowing people and pets to return into the sprayed area.
5. Consider all chemicals to be hazardous unless you are instructed otherwise.
6. Know what chemicals you are using. Carefully read the label twice before taking anything from a bottle.
7. Excess chemicals should never to be returned to stock bottles. If you take too much, dispose of the excess.
8. If chemicals come into contact with your skin or eyes, flush immediately with copious amounts of water and consult with chemical SDS sheet.
9. Never aim the hose or gun at yourself or your neighbor, it may cause damage.
10. Do not store chemicals in extreme temperatures or if container is leaking.
11. Dispose of chemicals properly per SDS guidelines.

EXTREMELY IMPORTANT: Safety Data Sheets (SDS) are available for all ByoPlanet® chemicals in use. These will inform you of any hazards and precautions of which you should be aware. The SDS dictates what kind of personal protective equipment (PPE) will be specified on the label. All employees that use the product must be aware of where the SDS information is located. They should also be trained and aware for their safety while working with chemicals. Please refer to the www.byoplanet.com website product pages for all necessary forms. For chemicals not supplied by ByoPlanet, it is the responsibility of the owner of the equipment to obtain an SDS from the chemical supplier for each
The patent-pending ByoPlanet® CS-915™ Electrostatic System was engineered with the end user in mind. It is durable, highly mobile and incredibly effective for electrostatic delivery and optimum sanitization. This unit is incredibly effective for disinfecting, decontamination, mold remediation and odor removal.

Familiarize yourself with the location of various controls and assemblies. Save this manual for future reference.

**BYOPLANET CS-915™**

1. **Main Power Switch:** Turns on air compressor when turned to the “(I)” position. Also functions as a circuit breaker.

2. **Tank:** 3 gallon stainless steel, pressurized tank with corrosion protection.

3. **Frame:** Stainless steel frame and hardware design for long term durability.

4. **Air Compressor:** Atomizes and propels the liquid. Runs on 115-volt power. Includes a built in a thermal safeguard against compressor overheating.

5. **Air Line Quick Connect:** Is located on the larger of the two hoses, connects to the larger of the two fittings on the sprayer.

6. **Liquid Line Quick Connect:** Is located on the smaller of the two hoses. Connects to the smaller of the two fittings on the sprayer.

7. **Hose Reel:** Used to store liquid and air lines. Aids operator during project set up and clean up.

8. **Non Marking Wheels:** Large wheels, for easy transport and maneuverability, will not leave scuff marks. Do not require inflation.

9. **Rubber Feet:** To protect floors and prevent sliding during hose distribution.

10. **Electrical Connection:** Grounded NEMA 5-15 Straight - 125VAC/15A AC Power Plug

11. **Twinline Hose:** Supplies air and liquid to sprayer. Up to a maximum of 50’ hose lengths available.
THE TANK

The CS-915™ has a 3-gallon (11.4 liter) stainless steel tank. There are tank quick connects for both the air and liquid lines located at the top of the tank. The quick connects were specifically designed with rejection features to prevent confusing connections. There is also a pressure relief valve on the tank lid that allows the operator to release tank pressure before opening the tank. When the pressure relief valve is in the lower or resting position, the tank is pressurized; when the valve is lifted, the tank is depressurized and then can be opened.

TO OPEN THE TANK:
Make sure the air compressor is off.
1. Release tank pressure by pulling up and rotating the pressure relief valve.
2. Once air release is no longer audible, slowly unlatch the tank lid’s lever so it is vertical.
3. Push down slightly on lid to release seal.
4. To remove lid - Hold onto the handle, rotate the lid 90° and pull out.

TO CLOSE THE TANK:
Slide the lid onto the tank opening in the same direction as when it was removed.
1. Rotate the lid 90°.
2. While pulling the lid up to seal it against the tank opening, push down on the lid handle until it snaps down.
3. Rotate the pressure valve lever until it snaps into place.

THE AIR COMPRESSOR

The air compressor produces compressed air, which atomizes and propels the liquid from the sprayer. It is powered by a 115-volt electrical source. Always use the CS-915™ with a grounded extension cord of no more than 100 feet and rated for no less than 15 amp service. The power switch is located on the underside of your unit. For added safety the on/off switch also serves as a circuit breaker. If the compressor is to shut off suddenly or won’t run in the reset position “(I)”, it could be that the circuit breaker switch has tripped. If this should occur, turn the switch to the off position “(O)” and then back to the reset position “(I)” – resetting the breaker. The air compressor also has a thermal safety shut off to prevent overheating and damage to the compressor. If upon resetting the circuit breaker, the compressor still won’t turn on; let the unit cool down for a minimum of 30 minutes before attempting to restart again.

BYOPLANET ES-120 SPRAYER™

1. Air Connection: The larger of the two fittings, connects to the air line on the CS-915™.
2. Liquid Connection: The smaller of the two fittings, connects to the liquid line on the CS-915™.
3. Liquid Filter: Located on the left side of the handle extension.
4. Trigger: Turns the liquid flow on/off.
5. Trigger Lock: Locks the trigger in the on position.
6. Indicator Light: A green light, that when illuminated, indicates the spray coming out of the nozzle is charged.
7. Nozzle: Located at the front of the sprayer.
8. Battery Compartment/Cap: Located in the rear of the sprayer.
**SPRAYER CONNECTIONS**

*NOTE: Before operating the CS-915; both hose lines must be connected to the sprayer.*

To Connect the Quick Connects:
Push the socket connection from the hose onto their respective plug fittings on the unit – pull gently on the hose to verify connections.

To Disconnect the Quick Connects:
Slide the sleeve of each quick connect back towards the hose – pull to remove.

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**TRIGGER & TRIGGER LOCK**

The trigger turns the spray on and off. It can be continuously held for operation or it can be locked in place with the trigger lock.

To Engage/Disengage the Trigger:

1. Gripping the handle at the rear, squeeze the trigger with your index finger to initiate spraying.
2. For continuous spraying, you can continue to hold the trigger or you can lock it in position by sliding the trigger lock rearward until an audible click is heard.
3. To stop spraying when the trigger is not locked, simply let go of the trigger.
   - If the trigger is locked, push forward on the trigger lock; releasing the trigger.
4. Never store the sprayer with the trigger in the locked position.

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**INDICATOR LIGHT**

There is a green indicator light on your unit that will illuminate when the unit is spraying and your batteries are carrying a sufficient charge. This glowing green light lets you know that the droplets leaving the gun are electrostatically charged. The light will only illuminate once air is flowing through the sprayer.

*NOTE: It is absolutely imperative that this green indicator light is illuminated when you are spraying the product.*

If the green indicator light is not illuminated, the droplets leaving the gun will not carry a charge. If the indicator light fails to illuminate, stop what you are doing and replace the battery pack or make sure that you are using only ByoPlanet® approved chemicals.

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**NOZZLE**

The nozzle assembly is located at the end of the sprayer. It is composed of a nozzle body, external O-ring, electrode flange, nozzle cover, liquid tip and electrode. These are the only user serviceable components. To access the nozzle components, unscrew the nozzle cover by hand. It is very important to follow all the maintenance and cleaning procedures to ensure that the sprayer will function optimally.

*NOTE: As the sprayer becomes dirty from typical use, solvent cleaning is recommended on the outside surfaces. This discourages dripping from the nozzle.*
BATTERY PACK

IMPORTANT NOTE: These are non-rechargeable batteries. Do not attempt to charge battery for risk of fire.

User Instructions

Caution – The battery pack used in this device may present a risk of fire or chemical burn if mistreated. Do not recharge, disassemble, crush, open, heat or incinerate. Replace battery pack with Byoplanet Battery Pack Model ESB-120 only. Use of another battery may present a risk of fire or explosion. Dispose of used battery pack promptly. Keep away from children.

Battery Specifications

- Battery Type: Li-Ion Non-rechargeable
- Storage Temperature: -40°C (-40°F) to 60°C (140°F)
- Optimal Operating Temperature: -20°C (-4°F) to 60°C (140°F)
- Storage Life: <1% yearly self-discharge at 23°C (73°F)
- Service Time: 50-70 hours *Typical Application

Replacement Instructions

1. If the green indicator light no longer illuminates, unscrew sprayer battery lid then pull to remove.
2. Take the red plastic tip off of the replacement battery before sliding into sprayer.
3. Place the new battery pack into the battery compartment and reinstall sprayer battery lid.
4. Before use, attach airline to sprayer, turn machine on and depress trigger to make sure green light illuminates. This will indicate battery has been installed correctly.
5. Keep these User Instructions for reference.
6. Please contact ByoPlanet® for any questions and to order additional battery packs, call 1.855.211.1518

Battery Disposal and Precautions

The U.S. Environmental Protection Agency (EPA) does not regulate the disposal of batteries in small quantities. While there are no federal regulations for disposal of lithium batteries, individual states or localities can establish their own guidelines for battery disposal, and should be contacted for any disposal guidelines that they may have. ByoPlanet® suggests you follow local solid waste disposal regulations or call the Battery Solutions Information Help Line at 1.800.852.8127.

*Please refer to the following website for additional battery disposal information and guidelines: http://www.bipowerusa.com/documents/disposal.asp
OPERATING INSTRUCTIONS

PREPARING THE SPRAY AREA

The CS-915™ is not a mechanical cleaner.

In order to create an area acceptable for electrostatic spraying, there are pre-spraying procedures that one must follow. Please familiarize yourself with the following scenarios:

1. An interior area that is spotless—this scenario requires no preparatory work prior to spraying.
2. An interior area with loose debris on the floor—this scenario would require a clean sweeping of the area prior to spraying.
3. Walls, floors, or ceilings with materials stuck to them—this scenario would require utilizing a scrub brush with cleaner to remove unwanted materials and/or using a scraping instrument (chisel, putty knife, etc.) to scrape off stubborn foreign materials.
4. Once the area has been cleared of foreign objects and debris, you are ready for the electrostatic spraying process.

SPRAY TECHNIQUE

1. Before starting, it should be known that there will be a momentary delay before liquid will be present. This is due to the fact that on an empty system, liquid must travel down the full length of the hose.
2. Once spraying, choose a starting point near the rear of the room. Starting where the wall meets the ceiling and using a sweeping left to right motion, start spraying back and forth slowly. Move your spray pattern downward until you have reached where the wall meets the floor. Make sure to work in a methodical zigzag pattern and to let your strokes overlap when moving to the next section.
3. Continue this process until you have gone completely around the entire room and return to your original starting point.
4. Using the same approach, begin spraying the ceiling. Once the ceiling is completed, your last function will be to spray the floor.
5. Allow the treated area to dry as listed on the chemical label.

Note: Do not over-saturate the surface; if you see runs or puddles you are applying too much chemical.

As in spray painting, the goal is to achieve even coverage over the surface area. The sprayer is designed to help you do just that. The spray droplets propelled from the sprayer are very, very fine — about 40 microns each. This means that the target surface area should just barely glisten with moisture and will evaporate quickly, contrary to conventional units that leave large beads of liquid on the target.

ELECTROSTATIC SPRAYING

1. Prior to filling the tank with approved ByoPlanet® chemical, make sure to verify if product is ready to use (RTU) or requires dilution. All dilution mixes should be prepared outside of tank to ensure accuracy.
2. Add solution through the lid located on the top of the tank.
3. Connect an electrical extension cord to the electrical cord on the unit. The extension cord should be no more than 100 ft. in length and rated for no less than 15 amp service.
4. Plug the other end of the electrical extension cord into an appropriate outlet receptacle.
5. Turn on the power switch to the "(I)" position.
6. Let the CS-915™ run for a few moments (5-10 secs) to build up working pressure.
7. Before spraying, make sure the green indicator light is illuminated when the trigger is depressed.
8. Engage the trigger and begin to spray.
MAINTENANCE

To Clean the CS-915™ After Operation

1. Follow all SDS chemical disposal guidelines for product remaining in tank, prior to performing maintenance.
2. Fill the tank with 1-2 cups of clean water and reinstall the cap. Rotate the tank back and forth, swishing the water around, to clean the inside surfaces of the tank.
3. Turn on the air compressor and engage the trigger for 2 to 3 minutes, to flush the line and sprayer.
4. Disconnect the smaller liquid quick connect while unit is still running and evacuate all remaining liquid from within the sprayer.
5. Turn the unit off, unplug and then empty any remaining water in the tank through the lid.
6. Finally, holster the sprayer, reel up the hose and store in an appropriate location.

SPRAYER

The unit has the following user-serviceable parts: the liquid filter, the nozzle assembly, and the battery pack. Nothing inside the unit housing is user-serviceable. Do not open the unit shell as doing so will VOID the warranty on the gun. Contact your ByoPlanet® Service Representative at (855) 211-1518.

LIQUID FILTER

The liquid filter assembly is located on the side of the unit handle. Its purpose is to filter out foreign contaminants and provide a configured flow rate for the paired base unit. Use an appropriate spade tool, or coin, to access for service. To remove, align the slot with the two features around the filter. After doing so, simply turn the unit on its side and it should fall right out. Inspect the filter screen for contaminates and clean if required. Upon reinstallation, verify that the two O-rings are in place and free of contaminates that may cause an insufficient seal. To reinsert, align the features as before and rotate 90° in either direction.

NOZZLE

Cleaning the Nozzle

The most important thing you can do to ensure trouble-free operation of your unit is to rinse the nozzle out with clean water after every use. By cleaning your gun’s nozzle after each usage, you will avoid the long-term chemical buildup that eventually causes clogs, poor spray patterns, and shortened life of the nozzle components.

In addition to rinsing with clean water after each use, the nozzle should periodically be dissembled and cleaned. Your nozzle maintenance schedule will vary depending on how often the gun is used and adherence to pre/post-spray checks.

*It is recommended you contact ByoPlanet before performing the service outlined below.*

To Clean/Inspect the Nozzle Assembly:

1. With the unit disconnected from the base unit, unscrew the cover from the nozzle base. Clean any debris from or around any of the interior surfaces with warm water.
2. Inspect for any damage to the liquid tip. If spray pattern was noted to be inconsistent or non-typical of a healthy symmetrical spray, remove the liquid tip with an appropriate 7/16” socket wrench.
3. Inspect Nozzle electrode for any signs of electrical arching, burn and/or corrosion. Gently push down on the electrode to verify a smooth spring return. If any issues are noted remove/replace immediately. This is done by gently pulling on the electrode with a pair of pliers. Otherwise service the electrode by applying a generous amount of dielectric grease. Available at any local automotive/hardware store.
4. Be sure to also thoroughly clean all interior surfaces of the nozzle cover; including the main orifice.

**IMPORTANT NOTE:** The nozzle cover should be hand tight. Never use pliers or other tools to tighten it, as this may cause damage. Removal of the nozzle electrode is not necessary for cleaning.
## SPECIFICATIONS

CS-915™ SPECSHEET

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volts</td>
<td>115V</td>
</tr>
<tr>
<td>Running AMPS</td>
<td>5.2</td>
</tr>
<tr>
<td>Startup AMPS</td>
<td>14.6</td>
</tr>
<tr>
<td>Frequency</td>
<td>60 Hz</td>
</tr>
<tr>
<td>Standard Hose Length</td>
<td>25 ft / (7.62m) [ 50ft / (15.2m) Maximum Length ]</td>
</tr>
<tr>
<td>Dimensions</td>
<td>43.02in (1.09m) H x 19.63in (0.50m) W x 29.43in (0.75m) D</td>
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<tr>
<td>Air Line Pressure</td>
<td>35 psi (2.4 Bar)</td>
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<tr>
<td>Weight - Empty</td>
<td>68 lbs (31 kg)</td>
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<tr>
<td>Weight - Full</td>
<td>93 lbs (42 kg)</td>
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<tr>
<td>Shipping Weight</td>
<td>75 lbs (34 kg)</td>
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<tr>
<td>Tank Capacity</td>
<td>3 Gal (11.4 L)</td>
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<td>Flow Rate</td>
<td>4 oz./min (120 ml/min)</td>
</tr>
<tr>
<td>Droplet Size</td>
<td>30-50 microns</td>
</tr>
<tr>
<td>Spray Range</td>
<td>3 to 10 ft (0.9 to 3 M)</td>
</tr>
</tbody>
</table>
## TROUBLESHOOTING GUIDE

Note: Do NOT use a chemical in the unit that is not approved by ByoPlanet®. If you encounter the issues listed below, use the suggested troubleshooting methods. If you encounter an issue that is not addressed in this manual, contact ByoPlanet® at (954) 790-6894 or email info@ByoPlanet.com.

<table>
<thead>
<tr>
<th>Symptom(s)</th>
<th>Potential Issue(s)</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS-915™ will not turn on or has shut off suddenly</td>
<td>No power</td>
<td>Verify the unit is plugged in and on a known working power outlet.</td>
</tr>
<tr>
<td></td>
<td>CS-915™ is not switched on</td>
<td>Switch the CS-915™ to the &quot;(I)&quot; position.</td>
</tr>
<tr>
<td></td>
<td>Circuit breaker has tripped</td>
<td>Flip the switch to the &quot;(O)&quot; position and then back to &quot;(I)&quot;.</td>
</tr>
<tr>
<td></td>
<td>Compressor has overheated</td>
<td>Allow the unit to sit for a minimum of 30 mins in the &quot;(O)&quot; position.</td>
</tr>
<tr>
<td></td>
<td>Damage to the air hose</td>
<td>Inspect hose for kinks, damage, or areas where air is escaping.</td>
</tr>
<tr>
<td></td>
<td>Clogged or damaged compressor filter</td>
<td>Remove the filter (located on the front of the compressor) by unscrewing it – replace or clean if necessary.</td>
</tr>
<tr>
<td></td>
<td>Blockage in the nozzle</td>
<td>Remove the nozzle cover and inspect for blockages.</td>
</tr>
<tr>
<td></td>
<td>Larger quick connect is not properly seated</td>
<td>Inspect larger quick connect to verify that it is properly connected.</td>
</tr>
<tr>
<td></td>
<td>Out of liquid solution</td>
<td>Inspect the liquid tank for solution level, add if low or out.</td>
</tr>
<tr>
<td></td>
<td>Tank lid is not completely seated and/or pressure relief valve is open.</td>
<td>Ensure the tank lid is secure and/or pressure relief valve is closed.</td>
</tr>
<tr>
<td></td>
<td>Blockage in the nozzle or liquid tip</td>
<td>Remove the nozzle cover and/or liquid tip to inspect for blockages.</td>
</tr>
<tr>
<td></td>
<td>Smaller quick connect is not properly seated</td>
<td>Inspect smaller quick connect to verify that it is properly connected.</td>
</tr>
<tr>
<td></td>
<td>Damage to liquid hose</td>
<td>Inspect the liquid line for kinks and/or damage.</td>
</tr>
<tr>
<td></td>
<td>Damage to nozzle cover</td>
<td>Check nozzle cover for cracks, chips or damage to sealed surfaces.</td>
</tr>
<tr>
<td></td>
<td>Missing or damaged o-rings</td>
<td>Replace missing or damaged o-rings.</td>
</tr>
<tr>
<td></td>
<td>Liquid flow continues when powered off.</td>
<td>Release sprayer trigger lock and actuate trigger.</td>
</tr>
<tr>
<td></td>
<td>Dirty exterior sprayer surfaces</td>
<td>Clean exterior surfaces with solvent (acetone or 90% alcohol).</td>
</tr>
</tbody>
</table>
WARRANTY

EQUIPMENT WARRANTY

ByoPlanet\textsuperscript{®} warrants the original purchaser of any CS-915\texttrademark Electrostatic Sprayer that the equipment shall be free from defects in material and workmanship for a period of one year after the date of delivery.

Disclaimer of Implied Warranties and Consequential Damages

The ByoPlanet\textsuperscript{®} obligation under this warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed, including implied warranties of merchantability and fitness for a particular purpose and any liability for incidental and consequential damages with respect to the sale or use of the items warranted.

Such incidental or consequential damages shall include, but are not limited to: transportation, charges other than normal freight charges, cost of installation other that cost approved by ByoPlanet\textsuperscript{®} duty, taxes, charges for normal service or adjustments, loss of income, expenses due to loss, damage, detention or delay in the delivery of equipment or parts resulting from acts beyond the control of ByoPlanet\textsuperscript{®}.

This Warranty Shall Not Apply:

If this unit has been subject to misapplication (including use of non-approved chemicals), abuse, misuse, negligence, fire, or other accidents.

If parts not made or supplied by ByoPlanet\textsuperscript{®} have been used in connection of the unit, if, in the sole judgment of ByoPlanet\textsuperscript{®}, such parts affect its performance, stability or reliability.

1. If the unit has been altered or repaired in a manner which, in the sole judgment of ByoPlanet\textsuperscript{®}, such alteration or repair affects its performance, stability or reliability. This shall include but not be limited to opening of the sprayer shell by anyone not authorized by ByoPlanet\textsuperscript{®} to do so.

2. To normal maintenance, service and replacement items such as, but not limited to, filters, or to normal deterioration of such things as, but not limited to, belts and exterior finish, due to use and exposure.

NO EMPLOYEE OR REPRESENTATIVE OF ByoPlanet\textsuperscript{®} IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY UNLESS SUCH CHANGE IS MADE IN WRITING AND IS SIGNED BY A CORPORATE OFFICER OF BYOPLANET INTERNATIONAL LLC.