

Sanitation

Standard Operating Procedure

GREENHOUSE AND IRRIGATION LINE CLEANING AND DISINFECTING

STRIP-IT PRO™ and KleenGrow™

Using the PACE 49 ACBD Sanitation program, **STRIP-IT PRO™** / **KleenGrow™** will clean and disinfect greenhouse structures and irrigation lines, killing algae and diseases in addition to dissolving minerals and biofilm, thus eliminating an environment for over-wintering pest such as snails, nematodes, fungus gnats, insects, algae and diseases. A pre-**STRIP-IT PRO™** cleaned surface followed with **KleenGrow™** will provide up to 30 days of residual control on hard surfaces that were cleaned and disinfected.

Greenhouse and Spray Equipment Cleaning and Disinfecting

Step 1 Use rate chart to make the **STRIP-IT PRO™** solution and apply to a **pre-wet surface** using a hydraulic sprayer or foam applicator. **SOAK** all surfaces (*glass, poly film, corrugated plastic, aluminum, steel, wood, concrete, gravel, dirt or ground cover/shade cloth floors*). **STRIP-IT PRO™** is phytotoxic to plants. Protect any desired plants from direct contact from over-spraying.

STRIP-IT PRO™ GREENHOUSE CLEANING RATES		
Application	oz/gal	ml/l
Heavy Cleaning	5	40
Light Cleaning	2.5	24

Step 2 Allow **STRIP-IT PRO™** to penetrate dirt deposits 5-30 minutes on hard surface (15-30 min soak time for gravel and ground cover cloth or heavily soiled areas). **RINSE** thoroughly using a pressure-washer or hose sprayer for hard surfaces and watering hose sprayer for ground cover cloth or gravel.

Step 3 Using the rate chart, determine **KleenGrow™** application to disinfect pre-cleaned surface and **do not rinse**. Using **KleenGrow™** provides a 30-day residual control for continued disinfection while the new crop is being established. This will provide **300-1200ppm**. Use the higher ppm rate for viral control.

KleenGrow™ GREENHOUSE AND HARD SURFACE DISINFECTING RATES		
Application	oz/gal	ml/l
STANDARD RATE	0.5	4
COMPACTED SOILED SURFACES	1	8
DISINFECTING FOR VIRUS CONTROL	2	16

*Cleaning Sprayer: Using **STRIP-IT PRO™** in your sprayer will also remove chemical build-up from sprayer tank, nozzles and hose. Rinse thoroughly so that pH of rinse water returns to the neutral pH (use standard pH Hydrion paper to test).*

Irrigation Line and Pump Cleaning and Disinfecting

Step 1 Using an injector (*Dosatron or HE Anderson Pump*) set at **1:50**, inject **concentrated STRIP-IT PRO™** into irrigation line and soak overnight. This is a rate of 2.5 fl.oz/gal.

Step 2 Flush the lines thoroughly with clean water until pH of water returns to neutral.

Step 3 Using an injector set at **1:100** and inject concentrated **KleenGrow™** into irrigation lines. This is a rate of 1.0 fl.oz per gallon. Allow the solution to soak **4-12 hours**, then rinse. This will provide at least 30 days of residual control.

KleenGrow™ may routinely be injected at 0.003-.012 fl oz/gal (see Disease Control SOP) to reduce build up in irrigation lines and provide disease/algae control on your crops.

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EVAPORATIVE COOL PADS AND RECIRCULATING WATER TANK CLEANING AND DISINFECTING

STRIP-IT PRO™ and KleenGrow™

Cool Pad - Foam or Spray Cleaning

Step 1 Remove or cover all plant material to prevent STRIP-IT PRO™ damage.

Step 2 Use the rate chart to prepare a STRIP-IT PRO™ solution. **Wet pads thoroughly** with water before using a hydraulic sprayer or foamer to apply STRIP-IT PRO™ solution. SOAK back and front of cool cell pads and tank.

STRIP-IT PRO™ EVAPORATIVE COOL PAD AND TANK CLEANING RATES		
Application	oz/gal	ml/l
Foam, Spray or Dip	5	40

Step 3 Allow the STRIP-IT PRO™ solution to stay wet on the surface for **10-30 minutes**, then rinse thoroughly.

Step 4 Rinse both sides using a pressure washer using a fan tip nozzle. This will remove loosened salts and algae build-up.

Step 5 Empty the recirculating tank and clean with the STRIP-IT PRO™ solution or add STRIP-IT PRO™ to the recirculating tank, scrub, drain and RINSE.

Recirculating Water Cleaning

Step 1 For heavy salts build-up on pads add STRIP-IT PRO™ to the recirculation tank using the rate on the chart above.

Step 2 Run recirculation pump to circulate STRIP-IT PRO™ solutions throughout pads. Turn off power to pads and keep wet with STRIP-IT PRO™ solution for **10-30 minutes**.

Step 3 Repeat pressure washing rinse procedure in Step 4 of Cool Cell Pad - Foam or Spray procedure above.

Step 4 Clean and drain STRIP-IT PRO™ out of recirculating tank and add fresh water, and continue running clean water through pads until pH of water returns to the normal water pH. Fill recirculating tank with clean water.

Cool Cell Pads Recirculation Water Disinfecting

Step 1 Using hydraulic sprayer, soak cool cell pads with KleenGrow™ solution. **Do not rinse.**

Step 2 To maintain clean cool pads, add KleenGrow™ to the recirculation tank once every 2 weeks or use pumps, such as a Dosatron, Etatron or HE Anderson injectors, for continuous injection in incoming water line.

KleenGrow™ COOL CELL RECIRCULATING WATER DISINFECTING RATES				
Application	ml/L	oz/gal	%	PPM
INITIAL RATE	0.5	0.06	0.05	40
MAINTENANCE RATE	0.1	0.02	0.01	10