

COMPLETE GUIDE for cleaning and disinfection of greenhouses

January 2012



We have the solution!

In response to the specific cleaning and disinfection needs of vegetables and horticultural greenhouses, West Penetone has developed a complete guide to assist you in your food safety and disinfection protocols.

With over 125 years experience in food safety, West Penetone knows and understands your specific needs. We are proud to work with and for you in the development and application of products that help eliminate microorganisms and soils that negatively impact your operations.

West Penetone, your partner in all your cleaning and disinfection projects!



Discover our wide range of products that meet all your needs and requirements in cleaning and disinfection.

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High foaming, phosphoric cleaner. Removes scale and rust.

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The only
solution for
bio-security

1. Always clean surfaces with water and cleaning products.
2. Disinfect all surfaces thoroughly



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RIDSTONE

ACID BASED CLEANER



RIDSTONE is a high foaming acid cleaner containing mineral acids and detergents specifically chosen to remove mineral deposits on surfaces.

FEATURES

- Powerful acid
- High foaming
- Foam clings to vertical surfaces
- Mild odour
- Approved for uses in greenhouses

BENEFITS

- Effectively restores oxidized aluminum surfaces.
- Effectively removes rust
- Highly effective in the removal of calcium and scale deposits found on equipment, particularly stainless steel.

NOTE : DO NOT APPLY TO GLASS SURFACES

USES	APPLICATION	DILUTION
Exterior Interior walls, floors, structures, storage tanks	Pressure washer Backpack sprayer Injection	10 to 50 mL/L

DIRECTIONS FOR USE RIDSTONE

Use procedure

Rinse all surfaces before applying **RIDSTONE**.

Apply the cleaner with a manual or automatic foaming system.

Leave on surface for 5 to 10 minutes.

During this period, scrub or brush the surfaces to eliminate the most stubborn residue, if necessary.

After the dwell time, thoroughly rinse with potable water.

Apply the disinfectant at the recommended concentration.

Let dry if the disinfectant was applied at 200 PPM or less. Otherwise, rinse all food contact surfaces with potable water.

Corrosive on steel, iron. Galvanized steel.

Safe on stainless steel and aluminum when diluted.

GENERIC INGREDIENTS:

Hydrofluoric acid, phosphoric acid, glycol ether, anionic, and nonionic detergents, inhibitors, water.

IMPORTANT: Before using **RIDSTONE**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).

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ADHERE NC

CHLORINATED ALKALINE GEL CLEANER



ADHERE NC is a unique chlorinated liquid alkaline product which forms a gel when diluted in water. The gel allows the solution to adhere strongly to all surfaces to which it is applied. When used as foam with appropriate equipment, the foaming-gel solution clings to vertical surfaces for an almost unlimited period of time.

The effectiveness of ADHERE NC is such that the concentration can be reduced by 20% to 50% which in turn reduces the volume of water required for rinsing.

FEATURES

- Moderate caustic alkalinity
- Very high foaming
- Low viscosity when undiluted
- Phosphate free
- Approved for uses in greenhouses

BENEFITS

- High performance product
- **ADHERE NC** may be used in compressed air or portable foaming systems
- Cost efficient
- The foam clings strongly to surfaces over a long period of time
- Compatible with most systems applications to high or low pressure with or without air
- Safe on all surfaces except aluminum, brass, copper and galvanized steel

USES	APPLICATION	DILUTION
Picking and packing equipment, refrigerators	High-pressure washer Foaming applicator	10 to 20 mL/L
Hard surfaces, tools, totes, equipment		
Scissors, pruning knives		
Production area, coolers, trucks		
Pressure washers		

DIRECTIONS FOR USE ADHERE NC

Use procedure

Rinse all surfaces before applying **ADHERE NC**.

Apply the cleaner with a manual or automatic foaming system.

Leave on surface for 5 to 25 minutes.

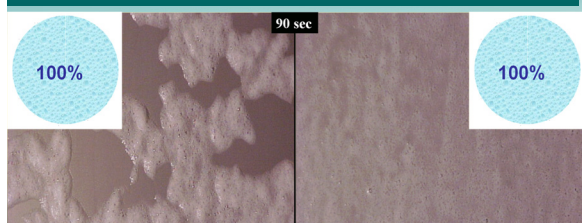
During this period, scrub or brush the surfaces to eliminate the most stubborn residue, if necessary.

After the dwell time, thoroughly rinse with potable water.

Apply the disinfectant at the recommended concentration.

Let dry if the disinfectant was applied at 200 PPM or less. Otherwise, rinse all food contact surfaces with potable water.

Ordinary foam or ADHERE NC?



SEE THE DIFFERENCE

The foam clings strongly to surfaces over a long period of time

Corrosive on aluminum, brass, copper and galvanized steel.

Safe on stainless steel

INGREDIENTS: Water, sodium hydroxide, anionic and non-ionic detergents, EDTA.

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IMPORTANT: Before using **ADHERE NC**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).



PENBLITZ 228M

HEAVY DUTY ALKALINE CLEANER GENERAL ALL PURPOSE CLEANER



PENBLITZ 228M is a caustic free liquid alkaline cleaner.

PENBLITZ 228M is high foaming, and can be used in heavy-duty automatic foaming systems.

FEATURES

- Caustic free
- Phosphate free
- High foaming
- Solvent free
- Low viscosity
- Odourless
- Approved for uses in greenhouses

BENEFITS

- Cost efficient
- Safe for users and compatible with most metallic and non metallic materials
- Non-flammable
- Non-volatile
- May be used in automatic foaming systems
- May be used in high pressure systems
- Pleasant to use since it is odourless

USES	APPLICATION	DILUTION
Picking and packing equipment, refrigerators	Pressure washer Mop Brush	20 to 50 mL/L
Hard surfaces, tools, totes, equipment		
Scissors, pruning knives		
Production area, coolers, trucks		
Pressure washers		

DIRECTIONS FOR USE PENBLITZ 228M

Use procedure

Rinse all surfaces before applying **PENBLITZ 228M**.

Apply the cleaner with a manual or automatic foaming system.

Leave on surface for 5 to 25 minutes.

During this period, scrub or brush the surfaces to eliminate the most stubborn residue, if necessary.

After the dwell time, thoroughly rinse with potable water.

Apply the disinfectant at the recommended concentration.

Let dry if the disinfectant was applied at 200 PPM or less.
Otherwise, rinse all food contact surfaces with potable water.

Not recommended on copper.

Safe on stainless steel, aluminum and galvanized steel when diluted

GENERIC INGREDIENTS:

Sodium metacilicate, organic sequestering agents, nonionic detergents.

IMPORTANT: Before using **PENBLITZ 228M**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).

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BIO-EZE 3

BIODEGRADABLE ALKALINE FOAMING DEGREASER



BIO-EZE 3 is a new generation high foaming alkaline cleaner designed to dislodge food deposits from floors, walls and food processing equipment in the greenhouse.



EcoLogo[™]

EcoLogo[™] certified

FEATURES

- High foaming
- Readily biodegradable
- Water soluble
- Non chlorinated
- Phosphate free
- Non-corrosive
- CCD-146E Degreaser
- Approved for uses in greenhouses

USES	APPLICATION	DILUTION
Picking and packing equipment, refrigerators	Pressure washer	20 to 50 mL/L
Hard surfaces, tools, totes, equipment	Mop	
Scissors, pruning knives	Brush	
Production area, coolers, trucks		

DIRECTIONS FOR USE BIO-EZE 3

Use procedure

Rinse all surfaces before applying **BIO-EZE 3**.

Apply the cleaner with a manual or automatic foaming system.

Leave on surface for 3 to 5 minutes.

During this period, scrub or brush the surfaces to eliminate the most stubborn residue, if necessary.

After the dwell time, thoroughly rinse with potable water.

Apply the disinfectant at the recommended concentration.

Let dry if the disinfectant was applied at 200 PPM or less. Otherwise, rinse all food contact surfaces with potable water.

May discolor copper and aluminum after prolonged contact, even when diluted.

Safe on stainless steel, aluminum and galvanized steel when diluted

GENERIC INGREDIENTS:

Anionic and nonionic detergents, organic sequestering agents, glycol ether, ethanolamine.

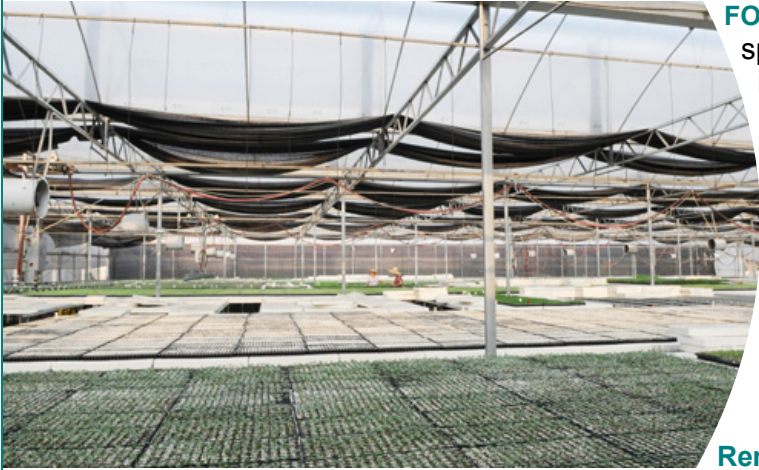
IMPORTANT: Before using **BIO-EZE 3**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).

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FOAMCHEK

LOW FOAMING ACID CLEANER



FOAMCHEK is a low-foaming acid cleaner, specially intended to remove mineral deposits in water system in agricultural premises.

Removes deposits, minerals and scale

FEATURES

- Low foaming liquid
- Mild odour
- Low viscosity
- Highly concentrated
- Approved for uses in greenhouses

BENEFITS

- Very effective
- Cost efficient

USE	APPLICATION	DILUTION
Irrigation lines	Injection	10 to 20 mL/L

DIRECTIONS FOR USE FOAMCHEK

Use procedure

With a Dosatron, inject **FOAMCHEK** at a concentration of 1 to 2% in the system.

Allow to dwell between 4 to 12 hours.

Rinse with clean water.

Safe on stainless steel, aluminum and galvanized steel when diluted

GENERIC INGREDIENTS:

Phosphoric acid, nonionic surfactant, dye.

IMPORTANT: Before using **FOAMCHEK**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).

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SPECIAL 10

ALUMINUM SAFE, NON FOAMING CHLORINATED ALKALINE CLEANER



SPECIAL 10 is a non foaming chlorinated alkaline cleaner designed for use in automatic washing systems.

FEATURES

- Contains high levels of sodium hypochlorite
- Will not foam, even under high agitation
- Safe on aluminum at a 0.5% to 3% dilution rate
- Approved for uses in greenhouses

BENEFITS

- Highly efficient
- Safe on aluminum and soft metals
- High levels of water softeners to control scale deposits
- Low cost

USES	APPLICATION	DILUTION
Totes, bins, plug trays, pots	Dip tank, brush	10 mL/L

DIRECTIONS FOR USE SPECIAL 10

Use procedure

With the foamer, inject **SPECIAL 10** at a concentration of 0.5 to 3% in the system to clean.

Follow the instructions from the cleaning equipment manufacturer.

Corrosive on copper and galvanized steel.

Safe on stainless steel and aluminum when diluted.

GENERIC INGREDIENTS:

Phosphates, potassium hydroxide, silicates, sodium hypochlorite.

IMPORTANT: Before using **SPECIAL 10**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).

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TERAMINE NR

QUATERNARY AMMONIUM SANITIZER



TERAMINE NR is a no-rinse quaternary ammonium based sanitizer for use in greenhouses. It requires no rinsing when the concentration is under 200 PPM of active ingredient (2 mL/L).

Highly effective on a large variety of microorganisms such as bacteria, yeast and mold.

FEATURES

- Odourless and colourless
- Chemically stable
- Non corrosive
- Non volatile
- Neutral Ph
- Phosphate free
- Soluble in water
- Approved for uses in greenhouses
- DIN: 02012294

BENEFITS

- No rinsing required when used according to use directions
- Does not damage metals and other materials
- User safe
- Leaves a sanitizing film on surfaces even after drying when no-rinse application is used.
- Unaffected by changes in pH

PROVEN EFFICACY AGAINST:

- *Salmonella choleraesuis*
- *Escherichia coli*
- *Staphylococcus aureus*
- *Pseudomonas fluorescens*
- *Listeria monocytogenes*
- *Saccharomyces cerevisiae*
- *Candida albicans*
- *Penicillium candidum*
- *Aspergillus niger*

USES	APPLICATION	DILUTION
Hard surfaces, tools, totes, equipments, pruning knives	Dip tank	2 mL/L
Scissors, plug trays	Pressure washer	2 mL/L
Production areas, refrigerators, trucks, end of season	High-volume sprayer, injection	2 mL/L
Pressure washers, irrigation line		2 mL/L

DIRECTIONS FOR USE TERAMINE NR

General use

Pre-rinse surfaces with clean water.

Apply the appropriate cleaning product and then rinse well.

Apply **TERAMINE NR** at a concentration of 0.2% (200 PPM of active ingredient).

Rinsing is not required at this concentration.

Remove any puddles or accumulation of disinfectant before re-entry or re-use.

Fogging/fumigation

Remove all food products.

Use **TERAMINE NR** at a concentration of 1% (10mL/L of water).

The operating time is determined by the type of fogging equipment used.

Evacuate all personnel during this operation.

Non corrosive

Check the concentration of your product using the Quat test kit

GENERIC INGREDIENTS:

N-alkyl dimethyl benzyl ammonium chlorides.

IMPORTANT: Before using **TERAMINE NR**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).

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FOAM-IT

FOAMING SANITIZER FOR FOOT BATHS



FOAM-IT is a high foaming quaternary ammonium sanitizer especially formulated for foam carpets used to protect accesses to greenhouses.

FOAM-IT remains active as long as the foam is visible.

FEATURES

- Abundant foam
- Odourless and colourless
- 5th generation Quat
- Low viscosity
- Non-corrosive
- Approved for uses in greenhouses
- Chemically stable
- Effective in 30 seconds

BENEFITS

- Can be used for foam carpets and foot baths
- Easy to dilute
- Pleasant to use since it is odourless and colourless

PROVEN EFFICACY AGAINST:

- *Salmonella choleraesuis*
- *Escherichia coli*
- *Staphylococcus aureus*
- *Pseudomonas fluorescens*
- *Listeria monocytogenes*
- *Saccharomyces cerevisiae*
- *Candida albicans*
- *Penicillium candidum*
- *Aspergillus niger*

USES	APPLICATION	DILUTION
Work boots at entrances	System and automatic foaming production	10 mL/L
Trucks	Foot baths and carpets	10 mL/L

DIRECTIONS FOR USE FOAM-IT

Foot baths and carpets

Rinse foot baths and carpets with clean water.

Fill equipment with a **FOAM-IT** solution of 10 mL per liter of water.

Check concentration with the Quat test papers.

Change solution when the concentration drops below 400 PPM.

Repeat as above.

Automatic/manual foam carpet generators

Adjust **FOAM-IT** concentration to 1% with the aid of the Quat test kit.
(See use instructions).

Adjust application times with the timer inside the control panel.
(See use instructions).

Non corrosive

Use **FOAM-IT** with the Uni-body ultimate entryway
(See equipment section)

Check the concentration of your product using the Quat test papers
(See equipment section)

GENERIC INGREDIENTS:

5th generation quaternary ammonium compound,
foaming agents

IMPORTANT: Before using **FOAM-IT**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).

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BIO-SAN

QUATERNARY AMMONIUM DISINFECTANT



BIO-SAN is an environmentally friendly, EcoLogo[®] certified quat based disinfectant for use in the food processing and handling industry.

Readily biodegradable product, highly effective on a wide variety of microorganisms

FEATURES

- EcoLogo[®] Certified
- CCD-166 disinfectant
- 4th generation Quat
- DIN: 02309920
- Readily biodegradable
- 100% water soluble
- Neutral pH
- Non-toxic
- Does not damage metals or other materials
- Unaffected by changes in pH



PROVEN EFFICACY AGAINST:

- *Escherichia coli*
- *Staphylococcus aureus*
- *Pseudomonas fluorescens*
- *Listeria monocytogenes*
- *Saccharomyces cerevisiae*
- *Candida albicans*
- *Penicillium candidum*
- *Aspergillus niger*

USES	APPLICATION	DILUTION
Hard surfaces, tools, totes, equipment, pruning knives	Dip tank	7 mL/L
Scissors, plug trays	Pressure washer	7 mL/L
Production areas, refrigerators, trucks, end of season	High-volume sprayer, injection	7 mL/L
Pressure washers		7 mL/L

DIRECTIONS FOR USE BIO-SAN

General use

Pre-rinse surfaces with clean water.

Apply the appropriate cleaner at the recommended concentration then rinse with potable warm or hot water.

Allow to remain for time recommended for each product.

Rinse with potable water.

Apply **BIO-SAN** at a concentration of 0.7%

Allow to dwell 10 minutes.

Rinse after each application in order to meet EcoLogo^M requirements.

Fogging/fumigation

Remove all food products.

Use **BIO-SAN** at a concentration of 1% (10mL/L of water).

The operating time is determined by the type of fogging equipment used.

Evacuate all personnel during the operation.

Rinse after each application in order to meet EcoLogo^M requirements.

Check the concentration of your product using the Quat test kit

GENERIC INGREDIENTS:

Didecyl dimethyl -ammonium chlorides, water

IMPORTANT: Before using **BIO-SAN**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).

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DUTRION or AQQQUON

POWERFUL VIRUCIDAL TREATMENT FOR IRRIGATION SYSTEMS



DUTRION (or AQQQUON) is a new product for the treatment of water irrigation systems. Unlike chlorine, which starts to oxidize all organic matter in the water first before starting to kill the microorganisms. **DUTRION (or AQQQUON)** is a highly selective oxidizer, designed to kill the microorganisms first instead of oxidizing organics in the water.

Revolutionary, safe and ecological concept for the sanitizing of drinking water lines.

CARACTÉRISTIQUES

- Highly efficient bactericide, virucide, fungicide and algicide
- Prevents clogged dripping systems
- Prevents cross contamination in recycled water
- Effective with higher organic loads
- Low concentrations do not harm fertilizers
- Controls algae growth in cooling systems
- Long active in water distribution systems
- Treatment of specific diseases with ClO_2
- Not corrosive on equipment
- Very fast and long active in waterlines compare to other disinfectants being used for cleaning water systems
- Does not have pH limitation
- Final elimination of (waterborne) pathogens in water systems
- Final elimination of (waterborne) pathogens in water systems
- Effective & fast sanitation program with spraying, fogging & propagation
- Bacteria, algae and fungi control on rooted or unrooted cuttings and cut flowers, seedbed soil and planting cubes
- Treats, controls, inhibits algae and fungi in greenhouses and irrigation lines, filter systems, walls, ceilings and floors
- Easy to apply, easy to monitor and very safe
- Very cost effective compare to all other disinfectants
- LOW INVESTMENT COSTS TO START; use existing dosing pump
- Does not react with ammonia to form chloramines
- 10% active ingredients

**One tablet in 20L water =
100 ppm of chlorine
dioxide**

UTILISATION	APPLICATION	DILUTION
Continuous irrigation lines	Injection	0,4 PPM – 0,8 PPM
Fogging	Fogger	15 PPM – 20 PPM
Misting	Injection or sprayer	0,4 PPM – 0,8 PPM
Disinfection (equipment, floor, walls)	Manual, sprayer	35 PPM – 50 PPM (10 min. contact time)

DIRECTIONS FOR USE DUTRION or AQQUON

General use

Rinse surfaces with clean water

Apply to surfaces at recommended dilution

Allow to dwell according to directions as required

Fogging/fumigation

Use **DUTRION** or **AQQUON** at the recommended concentration

Operating –usage times are determined by the type

Effective on the following pathogens :

Bacteria

Pseudomonas Aeruginosa
Campylobacter Jejuni
Pseudomonas Specie
Flavobacterium Species
Enterobacter Cloaceae
Yersinia Enterocolitica
Enterobacter Hafnia
Clostridium Sporogenus
Proteus Vulgaris
Clostridium Difficile
Klebsiella Pneumoniae
Clostridium Perfringens
Salmonella Typhi
Fusobacterium Nucleatum
Salmonella Enteritidis
Bacillus Subtilis
Salmonella Gallinarum
Bacillus Circulans
Salmonella Typhimorium
Bacillus Megaterium
Salmonella Choleraesuis
Bacillus Cereus
Salmonella Typhosa
Bifidobacter Liberium
Corynebacterium Nucleatum
Staphylococcus Aureus
Sarcinae Lutae
Staphylococcus epidermia
Streptococcus Pyrogenes
Streptococcus Faecalis
Strep 1, 2, 3.
Mycobacterioides Bovis
Mycobacterium Smegmatis
Mycobacterium kansasii

Fungi

Candida Albicans
Trichophyton Rubrum
Scopulariosis Species
Aspergillus Niger
Trichophyton Mentagrophytes
Aspergillus Flavus
Mucor Species
Fusarium Specie
Saccharomyces Cerevisiae
Fonsecaea Pedrosoi

Virus

Virus Herpes
Virus I Poliovirus Herpes
Virus II Encephalomyocarditis (EMS)
Adenovirus Echovirus
Vaccina Virus Coxsackievirus
Vesicular Stomatitis Virus (VSV)
Influenza Para Influenza
Feline Parvovirus Bluetongue
Virus Mouse Flu Mouse Hepatitis Virus (MHV)
Minute Virus of Mice (MVM)
Mouse Encephalomyelitis Virus
New Castle Disease
Virus Mouse
Polio Virus (MEV)
Iridovirus Pertiviries – Togaviridae

Others

Vibrio Cholerae
Culex Quinquifasiatus
Mycoplasma

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Non corrosive

INGREDIENTS: Dioxyde de chlore

IMPORTANT: Before using DUTRION or AQQUON, always be sure to read and follow precautions and directions for use appearing on the product container label and on the material safety data sheet (m.s.d.s.).



Products compatibility chart

	RIDSTONE	ADHERE CPM	PENBLITZ 228M	BIO-EZE 3	FOAMCHEK	SPECIAL 10	TERAMINE NR	FOAM-IT	BIO-SAN	DUTRION or AQUON
RIDSTONE		✗	✗	✗	✓	✗	✗	✗	✗	✗
ADHERE NC	✗		✓	✗	✗	✓	✗	✗	✗	✓
PENBLITZ 228M	✗	✓		✓	✗	✗	✗	✗	✗	✗
BIO-EZE 3	✗	✗	✓		✗	✗	✗	✗	✗	✗
FOAMCHEK	✓	✗	✗	✗		✗	✓	✓	✓	✗
SPECIAL 10	✗	✓	✗	✗	✗		✗	✗	✗	✓
TERAMINE NR	✗	✗	✗	✗	✓	✗		✓	✓	✗
FOAM-IT	✗	✗	✗	✗	✓	✗	✓		✓	✗
BIO-SAN	✗	✗	✗	✗	✓	✗	✓	✓		✗
DUTRION ou AQUON	✗	✓	✗	✗	✗	✓	✗	✗	✗	

LEGEND	
Compatible	✓
Not compatible	✗

EQUIPMENT

Portable fogger

Very useful, light and practical, this portable fogger can be easily moved to apply product anywhere throughout the greenhouse. It is also handy enough to go into usually inaccessible areas. The height is adjustable and can carry 20 and 40 L containers. It is also possible to add a 28 foot extension.



Quat Test Papers

Simple, reliable and easy to use, the Quat test paper measures the concentration of quaternary ammonium compound contained in your solutions of **TERAMINE NR**, **FOAM-IT** and **BIO-SAN**. It can ensure optimal disinfection performance to meet industry standards (up to 400 PPM)

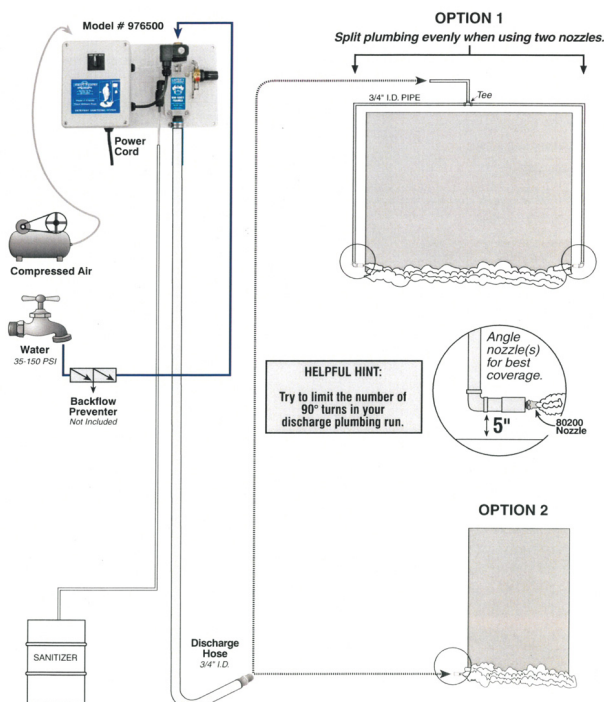


Swab Test

Quick and easy method to accurately monitor cleanliness of surfaces and ensure product quality. Pro-Clean will detect protein residues on surfaces after cleaning and disinfection

Uni-body ultimate entryway foamer

When used with **FOAM-IT**, this reliable device produces a rich foam which will inhibit bacterial growth. Ideal for treating work boots and some types of equipment.





Your cleaning solutions resource

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