

**List of most effective cleaner/disinfectant**

**and list of touch points which are instructed to routinely clean.**

**Appendix A4: Cleaning & Disinfecting Products**  
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This procedure covers the proper use of the cleaners and disinfectants used throughout this document. Please reference the enclosed technical data sheets for specific information.

**Cleaning Products**

1. **Enviro-Solutions #72C Hydrogen Peroxide Multi-Purpose Cleaner**
  - a. Concentrated product that is diluted with the Enviro-Solutions "1-2 Punch" chemical dilution station.
  - b. ECO-LOGO Certified
  - c. Convenient Dilutions for all cleaning tasks
    - i. Light Duty (1:128)
    - ii. Medium Duty (1:32)
    - iii. Heavy Duty (1:10)

**Disinfectants**

1. **Bioesque Botanical Disinfectant**
  - a. Ready to Use Product
  - b. EPA Registered Disinfectant
  - c. One Step Disinfectant-Cleaner
  - d. No Rinse
  - e. 4 Minute Dwell Time
  - f. Level IV Disinfectant- safest EPA category
  - g. No pre-cleaning required, unless GROSS soil
  - h. No PPE required
  - i. Approved as soft surface sanitizer
  - j. Safe for HVAC systems
  - k. Kills Fungus and Mold
  - l. Approved for use on Food Contact/Prep areas with no rinsing
  - m. ECO-Logo Certified Green (Canada only, due to US EPA rules)
  - n. Non-Corrosive
  - o. Registered on EPA's N List of Products Approved for Use Against SARS-COV-2/COVID19
2. **Enviro-Solutions #64H Neutral Disinfectant Cleaner**
  - a. Concentrated product that is diluted with the Enviro-Solutions "1-2 Punch" chemical dilution station.
  - b. EPA Registered Disinfectant
  - c. One Step Disinfectant-Cleaner
  - d. Neutral pH
  - e. Dilution Ration (1:64)

## Appendix A1: Touch Points

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- Examples of touch points found throughout facility and in common areas
  - Door handles & push plates
  - Handrails
  - Light Switches
  - Buttons, i.e. vending machines, elevators, intercom
  - Drinking fountains *Currently investigating Bottle fill fountains Touchless.*
- Examples of Touch Points specific to certain areas:
  - Classrooms & Instructional Areas
    - Classroom desks & chairs
    - Pencil sharpener
    - Instructional aides or objects
    - Toys
    - Restrooms (see restrooms below)
  - Restrooms
    - Sink Faucets
    - Toilet & urinal flushers
    - Stall door handles
    - Paper towel dispenser *changing over to touchless*
    - Hand soap dispenser
    - Hand dryer
  - Offices
    - Desks and counters
    - Telephone
    - Copier, scanner, fax machine
  - Visitor Entrances & Contractor Areas
    - Sign in/Sign out area
    - Visitor badges
    - Intercom/Phone
  - Staff/Faculty Break Rooms
    - Food prep equipment, i.e. coffee machine, fridge, microwave
    - Tables and chairs
    - Vending machines
    - Restroom

- Kitchens
  - Appliances
  - Service ware
  
- Cafeteria
  - Cafeteria Tables & Chairs
  - Lunch service line *Not in Use*
  
- Athletic Areas
  - Exercise Equipment
  - Athletic Gear
  - Locker Rooms
  - Trainers Rooms
  - Bleachers



## **New Products introduced to our school district to aid in our defense**

First product is the "Protexus Sprayer"

This product utilizes purtabs killing 99.999% of bacteria.

Custodians spray on all touch areas which will be mentioned in pages following. There is a 10 second contact time to kill Bacteria.

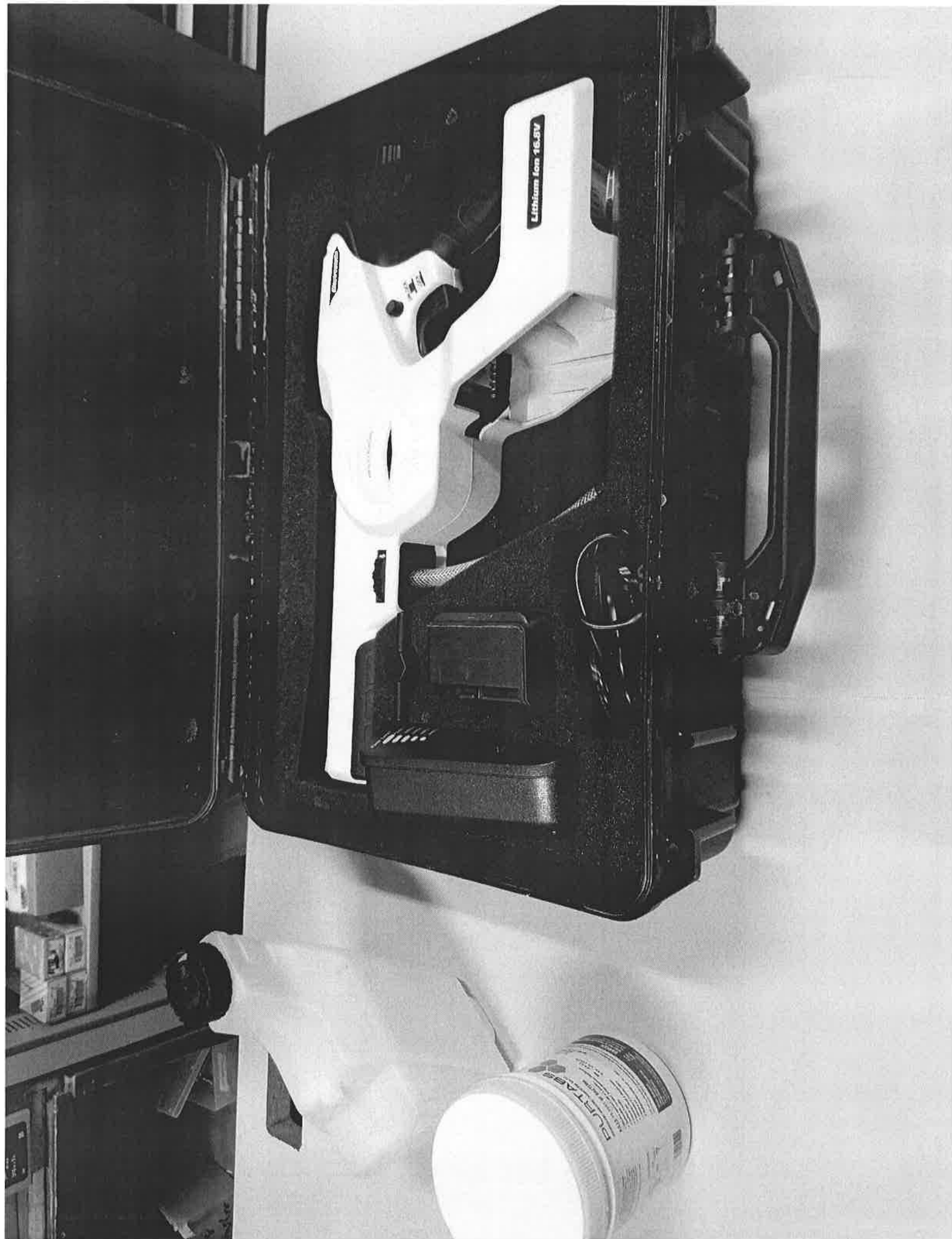
Second product is the "Counter Strike" uses "64H"

which is also 99.9% Bacteria killer.

Both products do same, we introduce the Counter Strike sprayers

to cover more areas more frequently.

We intend to spray all Touch points at the end of class day and schedule disinfecting hourly of Lavatories.



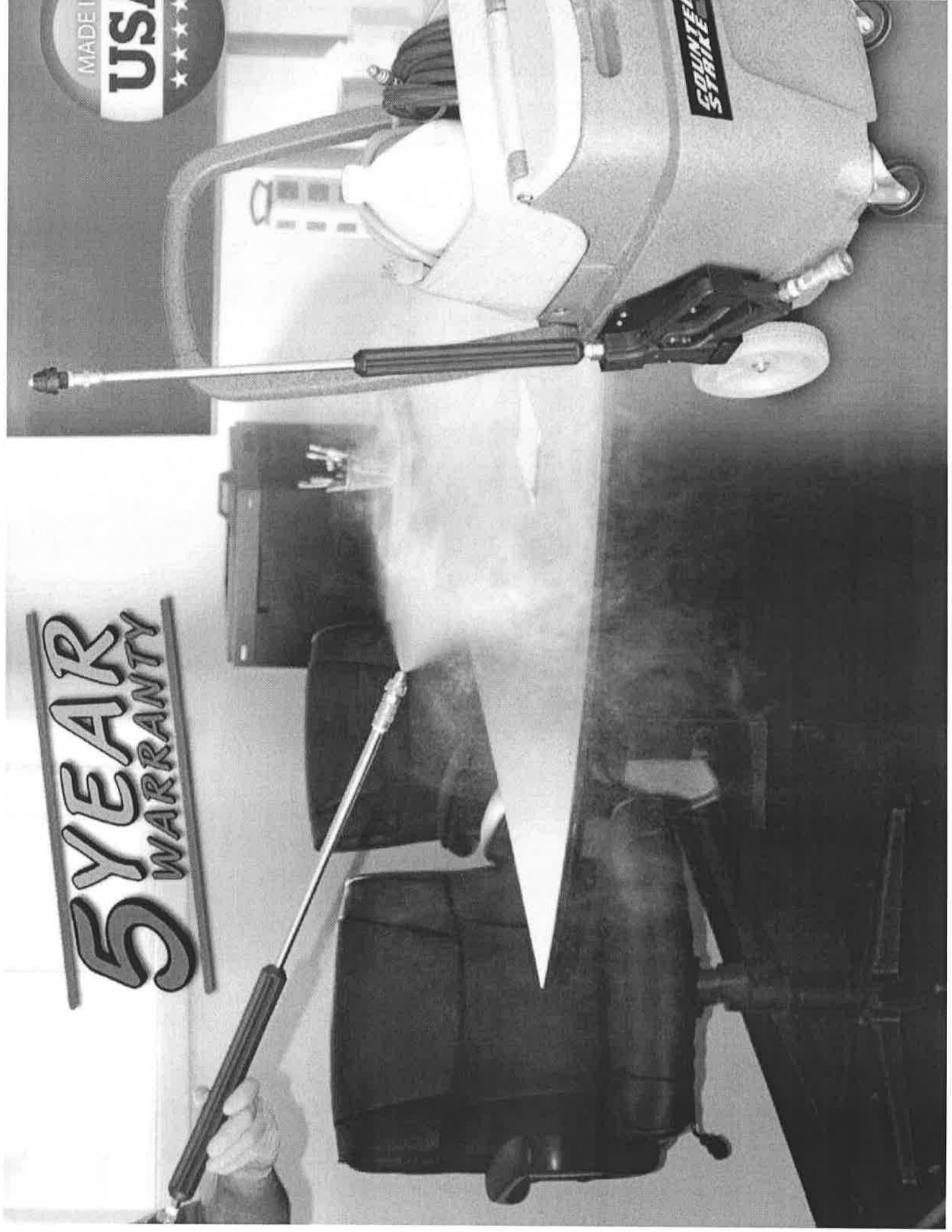
Lithium Ion 16.8V

BUTABE  
100% PURE  
100% PURE  
100% PURE

**5 YEAR  
WARRANTY**



MADE IN  
**TACKL**



COUNTER STRIKE

MADE IN  
**USA**  
★★★★★

**5 YEAR**  
WARRANTY



## Choosing the Right Products for Your District

Much thought goes into a districts decision when choosing products that will provide them not only with a comprehensive program but also those in which enhance the overall cleanliness and health of the students, staff and building. What is important is that whichever program you choose, be sure that you have support from industry professionals for training, troubleshooting and for ongoing resources. This is especially important as the landscape during the current COVID19 pandemic is in constant flux. Industry professionals are an invaluable resource. As such, your representative has helped your district on their path and have recommended certain products based on your districts specific needs. Here is a list of some of the products and tools that ATRA currently promotes as part of your cleaning and disinfecting program:

### Enviro-Solutions/Charlotte Products

- Cleaning
  - ES72C Hydrogen Peroxide Multi-Purpose Cleaner, ECO LOGO Certified
- Disinfecting
  - ES64H Neutral Disinfectant Cleaner, EPA REG #1839-169-68138
  - ES364 Neutral Disinfectant, EPA REG #6836-366-64900
  - Registered on EPA's N List of Products Approved for Use Against SARS-COV-2/COVID19

### Bioesque Botanical Disinfectant

- Disinfecting
  - Bioesque Botanical Disinfectant, EPA REG #87742-1-52595
  - Available Sizes: (12 x 1 quarts), (5 gallon pails), (55 gallon drums)
  - Registered on EPA's N List of Products Approved for Use Against SARS-COV-2/COVID19

## Step 4: Consider equipment or additional resources that may be needed for each area

Proper equipment is just as important as choosing the best product(s) for an application. Oft times the right type of equipment can make a significant difference. For example, utilizing microfiber to replace cloth rags can elevate your cleaning effectiveness. Another example is the use of double bucket systems to replace single bucket systems. When battery operated or electrical equipment can be utilized, productivity can be increased as well. Products such as electrostatic sprayers, autoscrubbers and restroom cleaning equipment are all useful tools to assist in effective cleaning and disinfection.

ENVIRO

Solutions®

64H

NEUTRAL DISINFECTANT CLEANER

• CLEANER • DISINFECTANT • \*VIRUCIDE • FUNGICIDE  
• MILDEWSTAT • DEODORIZER

ACTIVE INGREDIENTS:

Decyl decyl dimethyl ammonium chloride	1.627%
Dioctyl dimethyl ammonium chloride	0.814%
Dioctyl dimethyl ammonium chloride	0.814%
Alkyl (150% C <sub>12</sub> , 40% C <sub>14</sub> , 10% C <sub>16</sub> ) dimethyl benzyl ammonium chloride	2.170%
<b>INERT INGREDIENTS:</b>	94.575%
Total	100.000%

EPA REG. NO. 1839-169-68138  
EPA EST. NO. 72026-IL-001

KEEP OUT OF REACH OF CHILDREN  
DANGER / PELIGRO

Net Contents  
1.25 U.S. Gal

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

See side panels for additional precautionary statements.

ES72 Light Duty

4GPM  
HIGH FLOW

### BUCKET APPLICATION



#### SELECT DILUTION

Turn knob to select solution, then pull trigger down to dispense from your nozzle.

ES64H DISINFECTANT



ES72 LIGHT



ES72 MEDIUM



WATER



### TRIGGER APPLICATION



#### SELECT DILUTION

Use knob to select solution, then pull trigger down to dispense from your nozzle.

ES64H DISINFECTANT



ES72 LIGHT



ES72 MEDIUM



## Flexible Dispenser

Flexible and Effective  
Cleaning Program

[www.enviro-solution.com](http://www.enviro-solution.com)

ES72 Heavy Duty

Heavy Spots & Stains  
Hand Cleaning/Carpet



Surface Disinfectant

Hand Application



ES64H Disinfectant

Enviro-Solutions®  
Flexible Dispenser, ES72 4GPM  
ES72 4GPM  
ES72 4GPM  
ES72 4GPM



ES72C

ES64H

ES64H



## ES64H Neutral Disinfectant Cleaner

A No-Rinse, No NPE, Non Alkaline, Neutral pH Cleaner That Disinfects, Cleans and Deodorizes  
**AVAILABLE IN USA ONLY**

	ES64H
APPEARANCE	Clear green liquid
FRAGRANCE	Fresh
RELATIVE DENSITY	N/A
pH	6-7
DILUTION RATES	N/A
SHELF LIFE	3 years

SIZES	
ES64H-4	3.78 L (1.0 U.S. gallon)
ES64H-CS	4.73 L (1.25 U.S. gallon)
ES64H-15	2.0 L (0.52 U.S. gallon)
ES64H-4CS2	1.89 L (0.50 U.S. gallon)

CAUTION: Refer to label for complete instructions, dilutions, safety requirements and kill claims.

EPA REG. NO. 1839-189-68138  
 EPA EST. NO. 72026-1L-001

### EFFECTIVELY CLEANS

Use on floors, walls, toilet bowls, urinals and other hard nonporous surfaces such as sinks, tables and counter tops made of Stainless Steel, Metal, Glazed Porcelain

### THIS PRODUCT FOR USE IN:

- Hospitals, nursing homes, medical and dental offices and clinics, operating rooms, isolation wards, and medical research facilities.
- Restaurants and bars, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, dressing rooms and laundries.
- Crime scenes and funeral homes.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels and transportation terminals.
- Institutional kitchens and bathrooms.
- Institutions, schools and colleges, churches, classrooms, athletic facilities and locker rooms.
- Camp grounds, play grounds, and recreational facilities.
- Food processing plants, dairy farms, hog farms, poultry and turkey farms and egg processing plants.
- Veterinary clinics, animal life science laboratories, kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, and other animal care facilities.
- Automotive garages, boats, ships, campers, trailers, mobile homes, cars, buses, trains, taxis and airplanes.
- Health clubs, spas, tanning spas, massage/facial salons, hair/nail salons, barber/beauty shops, tattoo parlors.

DISINFECTANT

**CHARLOTTE**<sup>TM</sup>  
 PRODUCTS LTD.

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 Peterborough, Ontario  
 K9J 8N4

Tel: 705.745.2880  
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 Toll free: 1.877.745.2880

  
[www.charlotteproducts.com](http://www.charlotteproducts.com)

MSD Ref. - 2011214

# Ventilation

## Unit-Ventilator Operations

The order of operation is as follow.

As Unit-Ventilators begin to reach room temperature set points  
the outside air dampers open to 20% to mix cool fresh air with heated air.

When room temperature has been satisfied heat valve closes, outside air damper closes and  
process repeats.

## Air filter ratings and changing policy

The highest air filtration allowed by specifications in our equipment is referred to as MERV 8.

Newer equipment is engineered allowing a higher filtration.

We have been replacing these filters annually. Do to the current situation we are changing this  
policy to bi-annually with a monthly inspection of filters and change on as needed basis.

Filter changes are dated on filter and logged in book.

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# What Are MERV 8 Filters And Why Are They So Popular?

By Content Team | December 22, 2017

The Minimum Efficiency Reporting Value (MERV) tells you the efficiency of an air filter at its lowest performing level. . The American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), established this rating under Standard 52.2: Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size.

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ASHRAE created the MERV system 1987 as part of their ongoing process to update their filter testing standard that was initially published in 1968. MERV ratings are based on how well an air filter traps common airborne pollutants within specific size ranges.

According to the National Air Filtration Association, there are 16 MERV values, from 1 to 16, with the tested filter efficiency increasing as the MERV number increases. Filters are tested against 12 size ranges of particles, with the smallest range being around 0.3 micrometers, and the largest range around 10 micrometers. (1)

To put these sizes in perspective, a micrometer – also known as a micron – is one millionth of a meter. A strand of human hair is estimated to be 75 to 100 microns, so some of these particles can only be seen using a microscope.

To determine MERV, *an air filter's performance is determined by measuring the particle counts upstream and downstream of the filter being tested. Particle counts are taken*

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MERV 13 to 16 – effective at controlling airborne bacteria, most tobacco smoke and pollutants released through sneezing. Applicable in general surgery suites, smoking lounges and commercial buildings with superior HVAC systems.

MERV 9 to 12 – effective at controlling humidifier dust, lead dust, vehicle emissions, and welding fumes. Applicable in residences with superior HVAC systems, hospital labs and commercial buildings

MERV 5 to 8 – effective at controlling mold spores, hair spray, dust. Applicable in most commercial buildings, residences, industrial workplaces and paint booths. MERV 8 filters have 90 percent efficiency on particles that are 3 to 10 micrometers in size.

MERV 1 to 4 – effective at controlling larger particles such as, sanding dust, spray paint dust, lint and carpet fibers. Applicable in residences and in window air conditioning units.

The majority of MERV 8 filters are two-inch, pleated filters that have been popular in the U.S.

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pollutants and then follow the manufacturer's recommendations for changing or servicing the filter.

Remember that MERV 8 filters are medium-efficiency filters that can get rid of most particles, but will have to be changed periodically to maintain performance. Higher efficiency filters that carry a MERV 13 or better are used in commercial buildings but they require HVAC system modification to perform in a residential system.

## About Camfil

Camfil is the world leader in air filtration and clean air solutions. For more than 50 years, Camfil has provided filtering devices as part of its commitment to offering clean air solutions in a number of industries.

# CAMFIL IS THE WORLD

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