



SAN MARCOS
UNIFIED SCHOOL DISTRICT
ENGAGING STUDENTS...INSPIRING FUTURES

Maintenance & Operations

**Schools have been completely cleaned, sanitized and disinfected
for the anticipation of students returning to in-person instruction**
Primary Level – October 20, 2020
Secondary Level – March 22, 2021





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Maintenance & Operations

Cleaning and Disinfecting

- ❑ The M&O department has developed a specific cleaning schedule for each school site. Taking into account for the number of teachers that are working on site and doing additional cleaning if those teachers are bringing their children with them. All sites have implemented a clean/dirty sign for custodians to put on the doors to indicate whether the room has been cleaned. This keeps everyone informed and makes the cleaning schedule more efficient.





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Cleaning and Disinfecting

- ❑ Every morning the day custodians wipe down all high touch areas, such as door handles, push bars and light switches with Waxie (Solsta) 730.





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Maintenance & Operations

Waxie Solsta 730 HP Disinfectant Cleaner

- ❑ Safe for all schools and campus facilities.
- ❑ Contains hydrogen Peroxide.
- ❑ Kills COVID-19 with a **1 minute** contact time.
- ❑ Inhibits the growth of mold & mildew.
- ❑ This product is used in the same manner as The 764. Custodians spray the 730 on all hard surfaces and leave it sit for a minimum of 1 minute. They come back and wipe the area with a yellow microfiber towel.

PRODUCT SPEC SHEET

WAXIE Solution Station® 730 HP Disinfectant Cleaner



DESCRIPTION
A one-step, Hydrogen Peroxide based product for disinfection, cleaning and deodorizing. Cleans quickly by removing dirt, grease, mold and mildew stains, body oils and other contaminants found in hospitals, nursing homes, office buildings, schools and colleges, and many other locations. For use on any hard, nonporous, nonmetallic surface where disinfection is required. Contains Hydrogen Peroxide. **Meets all state VOC compliant regulations.**

SPECIFICATIONS

	AS SHOWN	USE DILUTION
Appearance	Clear, colorless liquid	Clear, colorless liquid
Odor	Odorless	Odorless
pH	> 7	> 7
VOC	0.00 g/L (0.20%)	1.28 g/L
Melting Point/Freezing Point	< 0°C (32°F)	Approx. 0°C (32°F)
Initial Boiling Point/Boiling Range	< 100°C (212°F)	Approx. 100°C (212°F)
Flash Point	N/A	N/A
Flammability	N/A	N/A
Relative Density (Density)	0.87	0.84
Solubility	Not determined	Not determined

ACTIVE INGREDIENTS:
Hydrogen Peroxide 4.25%

OTHER INGREDIENTS:
95.75%

TOTAL:
100.00%

SHelf LIFE: All WAXIE brand chemical products have a guaranteed shelf life of up to one year after the date product was manufactured, when stored in ambient conditions. The actual manufacturing date is included in a data code on every product container.

DIRECTIONS FOR USE
For use with WAXIE Solution Station® dispensers.
Refer to the product label for complete usage directions.
DILUTION RATIO: 1:64 (1 ounce of water in bottle 18 oz. bottle. Each bottle makes 52 gallons. Each case makes 208 gallons.

SAFETY INFORMATION

PERSONAL PROTECTIVE EQUIPMENT:
Concentrate: C - Safety Glasses, Gloves & Protective Apron
Ready-to-Use: R - Safety Glasses & Gloves

ITEM: 170059 3 L/4cs
Secondary Label: 170059 (BL each)

APPLICATION

FEATURES & BENEFITS

- One-step, Hydrogen Peroxide based disinfectant/virucide cleaner and deodorizer
- Safe for most hard surfaces
- Kills SARS-Related Coronavirus 2 (SARS-CoV-2), the virus responsible for COVID-19, in one minute
- No rinsing required – leaves no residue or film
- No Non-Phenyl Ethoxylates (NPE's)
- No Quaternary Ammonium Chlorides (Quats) – eliminates quat binding, and safer for occupants
- No fragrances or dyes – eliminates potential allergic outbreaks
- No Bleach or Peracetic Acid
- Meets all state VOC compliant regulations

PRODUCT REGISTRATIONS & CERTIFICATIONS
EPA Registration No. 45745-11-14094

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Cleaning and Disinfecting

- ❑ **Waxie (Lemon Quat) 764**
 - ❑ EPA registered disinfectant that provides effective cleaning, deodorizing and disinfecting to all hard, nonporous surfaces. It is effective against a broad spectrum bacteria. The product specs sheet claims to disinfect and sanitize against the Human Coronavirus and SARS associated with Coronavirus.
- ❑ **How it is used**
 - ❑ The custodians spray down the restrooms and floors with the Waxie 764 and leave for a dwell time of 10 minutes. They then return to wipe the areas using a yellow microfiber cloth. The custodians repeat this process 3 times per day.



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Waxie (Lemon Quat) 764



DESCRIPTION

Phosphate free, neutral-pH formulation designed to provide effective cleaning, deodorizing, and disinfectant for all hard, nonporous surfaces. Will not dull or blush finished floors. Effective against a broad spectrum of bacteria, is virucidal including HIV-1 (AIDS) Virus and Hepatitis B Virus (HBV), fungicidal, and inhibits the growth of mold and mildew. Lemon fragrance.

SPECIFICATIONS

	AS SOLD	USE DILUTION
Appearance	Yellow liquid	Clear, colorless liquid
Odor	Lemon scent	Lemon scent
pH	6.0-8.0	Approx. 7.0
VOC	25 g/L (2.5%)	0.1562 g/L
Melting Point/Freezing Point	< 0°C (32°F)	Approx. 0°C (32°F)
Initial Boiling Point/Boiling Range	> 100°C (210°F)	Approx. 100°C (212°F)
Flash Point	> 93°C (200°F)	N/A
Flammability	N/A	N/A
Relative Density (Density)	1.011 (8.43 lb/gal)	Approx. 1.0
Solubility	Completely soluble in water	Completely soluble in water

ACTIVE INGREDIENTS:

Octyl decyl dimethyl ammonium chloride	1.627%
Dioctyl dimethyl ammonium chloride	0.814%
Didecyl dimethyl ammonium chloride	0.814%
Alkyl (50% C ₁₂ , 40% C ₁₄ , 10% C ₁₆) dimethyl benzyl ammonium chloride	2.170%
OTHER INGREDIENTS:	94.575%
TOTAL	100.000%

SHELF LIFE: All WAXIE brand chemical products have a guaranteed shelf life of up to one year after the date product was manufactured, when stored in ambient conditions. The actual manufacturing date is included in a date code on every product container.

DIRECTIONS FOR USE

For use with WAXIE Solution Station® dispensers.

Refer to the product label for complete usage directions.

DILUTION RATIO: 1:64 (2 oz/gal) of water in bottle fill mode. Each bottle makes 52 gallons. Each case makes 206 gallons.

WAXIE Solution Station® 764 Lemon Quat Disinfectant Cleaner

DISINFECTION & SANITIZATION CLAIMS (CONTINUED)

MICRO-ORGANISMS: At a 1:64 dilution (2 oz of product per gallon of water), in the presence of 400 ppm hard water, 5% blood serum load and 10 minute contact time (200 ppm hard water, 5% blood serum load and 10 minute contact time for Fungicidal and Mildewstat Activity), unless otherwise noted, this product kills the following on hard, nonporous inanimate surfaces:

BACTERICIDAL ACTIVITY	Strength	Contact Time	Dilution (oz/gal)
Salmonella (galbanus) enterica	850 PPM	10 Minutes	2 oz/gal
Salmonella (typhi) enterica	850 PPM	10 Minutes	2 oz/gal
Salmonella (agona) enterica	850 PPM	10 Minutes	2 oz/gal
Salmonella (paratyphi) enterica	850 PPM	10 Minutes	2 oz/gal
Serratia marcescens	850 PPM	10 Minutes	2 oz/gal
Shigella dysenteriae	850 PPM	10 Minutes	2 oz/gal
Shigella flexneri	850 PPM	10 Minutes	2 oz/gal
Shigella sonnei	850 PPM	10 Minutes	2 oz/gal
Staphylococcus aureus (staph)	850 PPM	10 Minutes	2 oz/gal
Staphylococcus aureus (clinical isolate)	850 PPM	10 Minutes	2 oz/gal
Staphylococcus epidermidis	850 PPM	10 Minutes	2 oz/gal
Staphylococcus epidermidis (clinical isolate)	850 PPM	10 Minutes	2 oz/gal
Streptococcus pyogenes (Clinical - Fresh Eating Strain SHC 863)	850 PPM	10 Minutes	2 oz/gal
Streptococcus pyogenes (strep)	850 PPM	10 Minutes	2 oz/gal
Tetracycline resistant Acinetobacter baumannii (clinical isolate - Fairfax Hospital)	850 PPM	10 Minutes	2 oz/gal
Vancomycin Intermediate Resistant Staphylococcus aureus (ISA)	850 PPM	10 Minutes	2 oz/gal
Vancomycin Resistant Enterococcus (Fuscidic) (VRE)	850 PPM	10 Minutes	2 oz/gal
Candida albicans	850 PPM	10 Minutes	2 oz/gal
Trichophyton mentagrophytes (Athlete's foot fungus)	850 PPM	10 Minutes	2 oz/gal
MILDWEATAT ACTIVITY	Strength	Contact Time	Dilution (oz/gal)
Aspergillus niger	850 PPM	10 Minutes	2 oz/gal

VRUCIDAL ACTIVITY	Strength	Contact Time	Dilution (oz/gal)
Avian Influenza A Virus	850 PPM	10 Minutes	2 oz/gal
Bovine Rhinotracheitis	850 PPM	10 Minutes	2 oz/gal

Canine Distemper Virus	850 PPM	10 Minutes	2 oz/gal
Feline Leukemia	850 PPM	10 Minutes	2 oz/gal
Feline Picornavirus	850 PPM	10 Minutes	2 oz/gal
Hepatitis B virus (HBV)	850 PPM	10 Minutes	2 oz/gal
Hepatitis C virus (HCV)	850 PPM	10 Minutes	2 oz/gal
Herpes simplex virus Type 1 (herpes)	850 PPM	10 Minutes	2 oz/gal
Herpes simplex virus Type 2 (herpes)	850 PPM	10 Minutes	2 oz/gal
HIV-1 (AIDS) Virus	850 PPM	10 Minutes	2 oz/gal
HIV-2 (AIDS) Virus	850 PPM	10 Minutes	2 oz/gal
Human Coronavirus	850 PPM	10 Minutes	2 oz/gal
H1N1 Influenza A Virus	850 PPM	10 Minutes	2 oz/gal
Influenza A2 Virus (Strain Hong Kong)	850 PPM	10 Minutes	2 oz/gal

Item: 170700 3 L/4cs
Secondary Label: 170700L.BL each

APPLICATION



FEATURES & BENEFITS

- Closed-loop system
- Color- & number-coded
- Designed for use with Nexgen, FDC & PDC dispensers
- Effective in the presence of 5% serum contamination
- Bleach free; Phosphate free
- Neutral-pH formulation will not dull floor finishes
- Inhibits the growth of mold and mildew

PRODUCT REGISTRATIONS & CERTIFICATIONS

- EPA Registration No. 1839-169-14994
- CACC Certified



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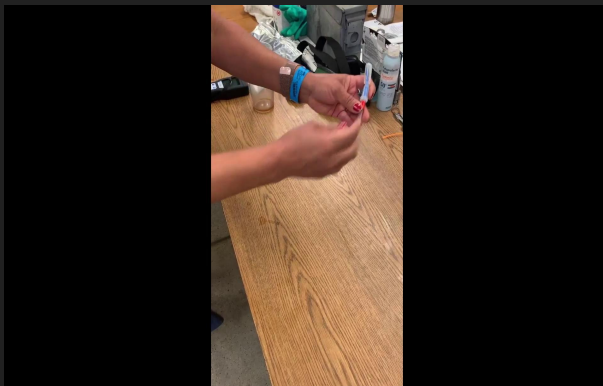
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Maintenance & Operations

Cleaning and Disinfecting

To test the effectiveness of the 730 we use a Systemsure Plus ATP Sanitation Monitoring system. This provides real-time feedback and will help to optimize and verify that our cleaning procedures are working effectively. Below is a video showing the use of the Systemsure Plus and cleaning, disinfecting and sanitizing with the Waxie 730. Using the Systemsure, a failing score is 30 and above. A passing score is 29 or less.

Demonstration of cleaning, disinfecting
And sanitizing using Waxie 730 and the
Systemsure Plus:



Before,
failing score
of 152.

After,
passing
score of 2.





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Maintenance & Operations

Cleaning and Disinfecting

- ❑ The evening custodians clean and disinfect all of the classrooms desks, sinks, counter tops, door handles or push bars and restrooms.
- ❑ Every Friday evening all classrooms, offices and common areas are “fogged” using ENVIROmist to completely sanitize the buildings.
- ❑ In order to prevent cross contamination M&O has provided all sites with enough color coded microfiber towels, 4 for each classroom. In addition, custodians have been trained by our Waxie representative on proper cleaning standards as well as how to use the Longray Basic ULV and Hudson Fog Electric Atomizer Sprayer with the ENVIROmist to sanitize.



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Maintenance & Operations

Additional Precautions

- ❑ Custodians are to fill out a daily restroom cleaning log to ensure that they have been cleaned, disinfected and sanitized at various times during the day.



RESTROOM CLEANING LOG

I

Site: La Mirada Academy

Date: _____

Area: _____

Duties	9am		1pm		5pm
Emptying wastebaskets					
Dusting all surfaces					
Mopping the floors					
Cleaning all mirrors, doorknobs and lights switches					
Once cleaning has taken place, using disinfectant to go over all surfaces once again (Waxie 764) 10 minute dwell time					
Fogging (if necessary) – indicate date below:					

FOGGED DATE: _____ Name: _____ Initial: _____



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Sanitizing after a Positive COVID-19

Custodians have been trained by our WAXIE representative on proper cleaning standards as well as trained on how to use the Longray Basic ULV and Hudson Fog Electric Atomizer with the ENVIOMist to sanitize.

STEPS TO FOLLOW:

1. Wear proper PPE; gloves, goggles, face shield and mask
2. Identify location (specific room)
3. Sweep the floors, vacuum or mop if necessary
4. Use HP-730 to start a thorough cleaning of the classroom including desks, desk shields and frequently touched areas i.e., door handles, push bars and light switches
5. Use EnviroMist to fog the entire classroom and other areas identified
6. Request for Maintenance to change the HVAC filter for the specific room/area



Longray
Basic ULV



Hudson Fog Electric
Atomizer Sprayer

Maintenance & Operations

Z Bio Science Probiotic Enviro Mist

- ❑ a. ZBS Enviro Mist is not a Disinfectant and does not kill anything.
- ❑ b. ZBS Enviro Mist is safe for use around children, pets and adults with chemical sensitivities.
- ❑ c. ZBS Enviro Mist is a Probiotic spray that provides a 'barrier' of safe, beneficial, US FDA GRAS probiotic bacteria that makes surfaces hostile/ inhospitable to pathogens, inhibiting their return and recolonization on 'fogged' surfaces.
- ❑ d. Enviro Mist is a concentrated microflora spray that leaves a powerful barrier of GRAS probiotics on surfaces.
- ❑ e. The proprietary microorganisms in Enviro Mist establish and maintain a safe, stable and healthy microbial community on hard and soft surfaces.
- ❑ f. Enviro Mist consists of live, healthy Probiotic bacteria that 'out-consume' surface pathogens for the available microscopic food source, causing pathogens to starve to death. The process is scientifically known as 'competitive exclusion'.



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Maintenance & Operations

ENVIROmist SDS

*One gallon covers
7,000 to 8,000 sq. ft.*



ENVIROmist

Z BioScience Inc.		SAFETY DATA SHEET	
I. PRODUCT AND COMPANY IDENTIFICATION			
Product Identifier:			
Product Name:	ENVIRO Mist		
Product Code:	20701/000		
Other means of identification:	None		
Recommended use of the chemical and restrictions on use:			
Recommended Use:	Odor reducing spray		
Uses advised against:	Use only as stated on label		
Product Dilution:	Heavy odor - No dilution; Moderate odor - 1:1 dilution; Freshening - 1:2 dilution		
Details of the supplier of the safety data sheet:			
Manufactured by / Distributed by:			
Z Bioscience Inc.			
800 S. Ohio St.			
Tuscola, IL 61953 USA			
Telephone numbers:			
24 Hour Emergency Phone Number: INFOTRAC (800) 535-5053			
Company Phone Number: (313) 643-1402			
II. HAZARDS IDENTIFICATION			
Appearance: Colorless to light beige color		Physical state: Liquid	
		Odor: Fresh slightly minty	
Classification			
Acute toxicity - Oral	No significant hazards		
Eye irritation	No significant hazards		
Respiratory sensitization	No significant hazards		
Skin sensitization	No significant hazards		
Label Elements			
Signal Word: None			
Hazard statements:			
This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).			
Emergency Overview - Concentrated Product			
GENERAL STATEMENT: IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION!			
Precautionary Statements - Response: Specific Treatment (See Section 4 in the SDS)			
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.			
IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.			
IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms contact a doctor/physician.			
IF SWALLOWED: Rinse mouth and throat thoroughly with tap water. Drink water. Call a Poison Center or doctor/physician if you feel unwell.			
Precautionary Statements - Disposal:			
Disposal should be in accordance with applicable regional, national and local laws and regulations.			
Precautionary Statements - Storage:			
Keep out of reach of children.			
Hazards not otherwise classified (HNOC)			
None known.			
Other information:			
Not toxic: 0% of the mixture consists of ingredient(s) of unknown toxicity			
III. COMPOSITION/INFORMATION ON INGREDIENTS			
Chemical Name**	Common name and synonyms**	CAS number**	%**
None of the ingredients are reportable or are below reportable levels.			

**If Chemical Name/CAS No is "proprietary" and/or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has

Safety Data Sheet for ENVIROmist



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Maintenance & Operations

HVAC

- ❑ The District currently uses an air filter which is appropriate/rated for each HVAC system, in accordance with manufacturer recommendations.
- ❑ We have transitioned to a new air filter, on the recommendation of our consultant, which will contain an antimicrobial coating. This new air filter will provide additional assurances that the air being circulated through our HVAC systems is appropriately cleaned and to maximize air quality.
- ❑ HVAC system settings will be modified to ensure that the maximum amount of outside air is brought into school facilities. This will force air to be circulated out of rooms more frequently and ensure that air does not become stale in rooms. Also, to further assist this process, economizers were overwritten and opened up 50% for more outside air to flow in. This has increased room ventilation.
- ❑ The HVAC filters are changed 4 times per year (prior to COVID they were changed 2 times per year).



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Maintenance & Operations

Portable Air Purifiers

- ❑ These units have been placed in our portable classrooms in addition to the new filters in the HVAC units.
- ❑ On March 9, 2021 the district ordered an additional 737 units to be put into permanent classrooms. We anticipate receiving them in approximately 2 weeks and will deliver to all of the sites.



air400 1.6 Air Changes Hour
Model # 24791 | 57EUR24791

Key Specifications	Detail
Square Footage Capability	1200 sq. ft.
Unit Weight	22.82 lbs.
Unit Dimensions	16 x 10 x 24
Cord Length	6 Ft.
Motor Type	DC
Amps	.90
Noise Levels	30-65 Decibels
CADR Ratings	Smoke (279) Pollen (206) Dust (307)
Warranty	Limited 2-Year

air400 1.6 Air Changes Hour

Model # 24791 | 57EUR24791
Carbon Filter # 2520
High Efficiency & Pre Filter # 2521



Holistic, Reliable, Powerful Performance Air Purification

1,200 Square Feet of Coverage

Ideal for placement in large bedrooms, kitchens, basements and living areas

3 Levels of Filtration

Pre-Filter, Activated Carbon and a HEPA Filter which captures 99.97% at 0.3 micron particles

Automated CirQualate® System

Provides real-time, numerical and colored air quality feedback using intuitive sensor technology to monitor & respond to your indoor air needs

Filter Change Indicator

Filter life lasts about 6 months depending on frequency of use and environment



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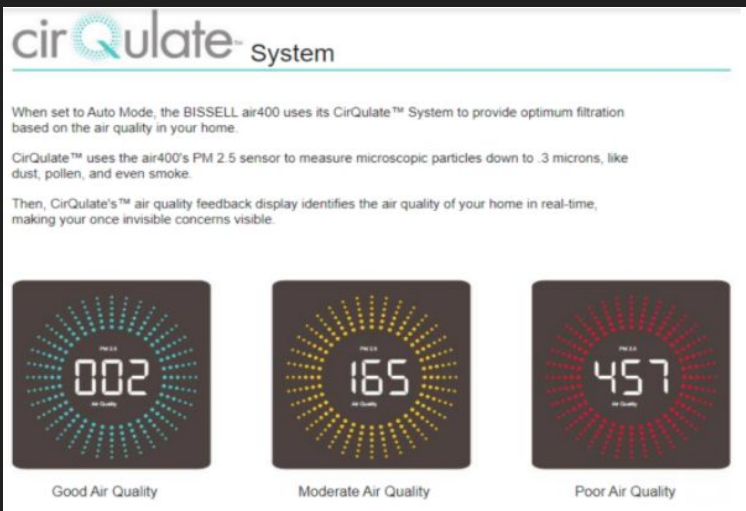
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Air 400 Portable Air Purifiers

- ❑ The units cover up to 1,200 sq. ft. They have 3 levels of filtration which include Pre-Filter, Activated Carbon and a HEPA filter which captures 99.97% at 0.3-micron particles.





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Additional Precautions

- ❑ The M&O department installed lock out mechanisms for the sink bubblers (water fountains around campuses). This will help to keep hands off of a high touch area and also serve as a visual reminder and physical barrier.





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Maintenance & Operations

Additional Precautions

- ❑ Purchasing provided portable hand washing stations and M&O assisted with positioning them in centralized areas. This will help remind students to frequently wash their hands.



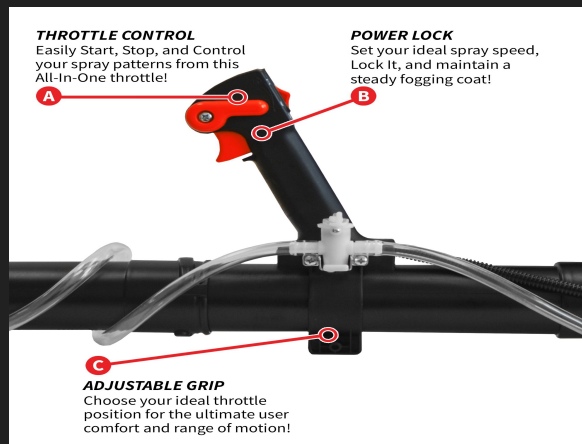


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Tomahawk Power – TMD14

- ❑ These turbo units will be used to disinfect playgrounds and lunch tables with the HP 730 Waxie product. There will not be a need to wipe down the surface.





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Protexus Cordless Electrostatic Sprayer

- ❑ Protexus Cordless electrostatic spraying technology brings new, 360-degree, touchless disinfection and sanitizing capabilities to infection control experts and reaches up to **3X more surfaces** in the same amount of time it would take with today's bucket, rags, wipes or other infection control tools.





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M&O's efforts to clean, disinfect and protect school buildings and their occupants from virus pathogens is at the forefront of CDC and CDE protocol. No one is doing more than SMUSD'S custodians to ensure the health and safety of students, staff and faculty; making this their utmost priority.