



## Infectious Disease Control for Schools

July, 2020

### Introduction

Germ-Fogger™ can be a great assistance in creating and maintaining safe environments for schools of all sizes. According to the U.S. Centers for Disease Control and Prevention Coronavirus Disease 2019 (COVID-19) position paper, *Considerations for Schools* (May 19, 2020), “Maintaining Healthy Environments”:

“Schools may consider implementing several strategies to maintain healthy environments.

#### Cleaning and Disinfection

Clean and disinfect frequently touched surfaces (e.g., playground equipment, door handles, sink handles, drinking fountains) within the school and on school buses at least daily or between use as much as possible. Use of shared objects (e.g., gym or physical education equipment, art supplies, toys, games) should be limited when possible, or cleaned between use.

If transport vehicles (e.g., buses) are used by the school, drivers should practice all safety actions and protocols as indicated for other staff (e.g., hand hygiene, cloth face coverings). To clean and disinfect school buses or other transport vehicles, see guidance for bus transit operators.

Develop a schedule for increased, routine cleaning and disinfection.

Ensure safe and correct use and storage of cleaning and disinfection, including storing products securely away from children. Use products that meet EPA disinfection criteria.

Cleaning products should not be used near children, and staff should ensure that there is adequate ventilation when using these products to prevent children or themselves from inhaling toxic fumes.”

Germ-Fogger™ is well suited to these disinfecting requirements for primary schools, secondary schools and college facilities. A Germ-Fogger™ with one or two disinfecting agent spray wands can rapidly sanitize classrooms, cafeterias, auditoriums, gymnasiums, locker rooms, etc. – even school buses, playgrounds and outdoor stadiums – on a regular basis!

This white paper gives ideas for how school administrators can use the Germ-Fogger™ to rapidly and efficiently meet their requirements to disinfect a wide variety of school buildings and outdoor venues so that they are safe for students, teachers and administrators.



### Germ-Fogger™ Features Useful For Schools

The Germ-Fogger's design incorporates many features that make it very efficient for a wide variety of large and small disinfecting tasks in schools.

- \* High Quality Construction – The Germ-Fogger is built from machined aluminum, stainless steel and brass parts, all easily serviceable. In normal use it will provide schools with thousands of hours of trouble-free service.
- \* One or Two Disinfecting Agent Spray Wands – The Germ-Fogger is perfect for use by one or two operators for very rapid disinfection of very large spaces.
- \* Easy-to-Use Hose Based Disinfecting Agent Delivery – Germ-Fogger operators can reach as far as 150' (46 m) from the unit chassis giving it an operating area of over 70,000 sq. ft. (6,500 m2). Just park the chassis, grab a wand and start spraying. No need to wear heavy, bulky backpacks or drag units with short hoses around with you.
- \* Ergonomic Atomizing Wand Design – the palm fitting grips of the Germ-Fogger atomizing disinfecting agent wands are comfortable to hold and a gentle squeeze by the operator on the trigger unleashes the fogging spray.
- \* Quick Change Fittings – all Germ-Fogger hoses, tanks and tips all industrial grade stainless steel quick disconnecting fittings so all connections can be changed in seconds.
- \* High Capacity – the Germ-Fogger's disinfecting agent tanks hold five full gallons (18.9L) of disinfecting agent allowing it to cover up to 52,000 sq. ft. (4,830 m2) on a single filling. Extra tanks can be pre-filled and kept ready for use and the quick change fittings allow you to swap tanks in a matter of seconds and continue spraying with minimal down time.
- \* Spray Tip at Safe Distance From Operator – the Germ-Fogger's spray wand places its precision brass spray tip almost 10" from the operator's hand to minimize operator exposure to disinfecting agents.
- \* Easy to Use – once you've aimed the sprayer a gentle squeeze on the ergonomic pistol grip trigger is all it takes to start the spray.
- \* Right or Left-handed Operation – The Germ-Fogger™ disinfecting agent spray wands are completely ambidextrous.
- \* Minimal operator training required.
- \* Full documentation available in both English and Spanish



## Disinfecting Specific School Areas

Germ-Fogger™ can be used to precisely disinfect all categories of school facilities including:

- Classrooms
- Administration offices
- Auditoriums
- Cafeterias
- Gymnasiums
- Locker rooms
- Restrooms
- Outdoor stadiums
- School buses
- And all other school high-touch areas...

Some ideas for disinfecting many of these areas are discussed in the following sections. Hopefully school administrators can adapt these ideas to develop disinfecting plans to meet their school's specific requirements.

### **Classrooms**

Most school buildings are oriented with single row (| x) or dual rows of classrooms off of a central corridor (x | x).

#### **Classrooms on corridor in single row**

1. Locate Germ-Fogger chassis in corridor and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Enter classroom, uncoil hose and proceed to back corner opposite the door
3. Begin spraying back and forth to cover desks, counters, etc. while working back toward the classroom door.
4. Spray door on both sides
5. Move to next classroom
6. Move Germ-Fogger chassis as required and repeat for additional classrooms
7. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting students.

#### **Classrooms on corridor in double row**

1. Locate Germ-Fogger chassis in corridor and lock castors. Install full disinfecting agency tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Enter classroom, uncoil hose and proceed to back corner opposite the door
3. Begin spraying back and forth to cover desks, counters, etc. while working back toward the classroom door.
4. Spray door on both sides



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5. Cross corridor to facing classroom
6. Repeat process for facing class room
7. Move Germ-Fogger chassis as required and repeat for additional classrooms
8. Optional: with two spray wand equipped Germ-Fogger spray classrooms on both sides of the corridor simultaneously.
9. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting students.

### Administration offices

Administrations offices come in all shapes and sizes and Germ-Fogger's cart and hose-based design makes it easy to disinfect them all.

1. Locate Germ-Fogger chassis in location that allows access to all office areas and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Uncoil hose and spray common areas, offices, counters, surfaces, etc.
3. Move Germ-Fogger chassis as required to access more office area.
4. Optional: with two spray wand equipped Germ-Fogger spray more office area faster.
5. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting staff.

### Auditoriums

Most auditoriums have long aisles with rows of seats radiating off the aisles, an orchestra pit and a stage area. Typical is an outside aisle, a middle aisle (| x | x |) and another outside aisle creating two large blocks of seats. There are, of course, many variables based upon size and shape of the auditorium.

1. Locate Germ-Fogger chassis in front of middle aisle of the auditorium and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Uncoil hose and move to farthest seat in first row in outside aisle.
3. Move back and forth spraying the rows of seats from the front of auditorium toward back.
4. Cross middle aisle and repeat for spraying seats on other side of aisle
5. Move Germ-Fogger chassis toward back of auditorium as required and repeat for additional rows.
6. As required spray orchestra pit and stage area.
7. Optional: with two spray wand equipped Germ-Fogger spray seats on both sides of the center aisle simultaneously.
8. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting patrons.



### Cafeterias

Cafeterias have two components: kitchen area and seating area. Both areas are highly variable in shape making the Germ-Fogger's flexible hose-based design very efficient for disinfecting. Procedures are significantly different for these two areas.

#### Seating area

1. Locate Germ-Fogger chassis in location that allows access to all seating areas and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Uncoil hose and spray seats and table tops.
3. Move Germ-Fogger chassis as required to access more seating area.
4. Optional: with two spray wand equipped Germ-Fogger spray more seating area faster.
5. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting patrons.

#### Kitchen

1. Locate Germ-Fogger chassis in location that allows access to all kitchen areas and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Uncoil hose and spray kitchen counters, sinks, surfaces, etc.
3. Move Germ-Fogger chassis as required to access more kitchen area.
4. Optional: with two spray wand equipped Germ-Fogger spray more kitchen area faster.
5. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting staff.

### Gymnasiums

Gymnasiums are typically indoor spaces with a playing court with courtside seating for team players and coaches surrounded by large blocks of bleacher seats separated by aisles. These are very large, complicated disinfecting jobs and Germ-Fogger is a very efficient solution.

1. Locate Germ-Fogger chassis at one end of the bleacher seats and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Uncoil hose and begin going up and down aisles spraying the bleacher seats.
3. Move Germ-Fogger chassis down the arena as required and spray the courtside team seats when appropriate.
4. Repeat until reaching the end of the arena.
5. Repeat on other side of arena and end areas of the arena if appropriate
6. Optional: with two spray wand equipped Germ-Fogger spray the seating areas of the arena can be sprayed twice as fast.



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7. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting patrons.

### **Locker rooms**

Schools and locker rooms and shower areas are highly variable in shape making the Germ-Fogger's flexible hose-based design very efficient for disinfecting.

1. Locate Germ-Fogger chassis in location that allows access to all locker room and shower areas and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Uncoil hose and spray locker room lockers, benches, tables, shower spaces, sinks, toilets, etc.
3. Move Germ-Fogger chassis as required to access more locker room area.
4. Optional: with two spray wand equipped Germ-Fogger spray more locker room area faster.
5. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting staff.

### **Restrooms**

Boys and girl's restrooms are highly variable in shape making the Germ-Fogger's flexible hose-based design very efficient for disinfecting.

1. Locate Germ-Fogger chassis in location that allows access to all restroom facilities and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Uncoil hose and spray restroom counters, stalls, sinks, toilets, urinals, etc.
3. Move Germ-Fogger chassis as required to access more restroom area.
4. Optional: with two spray wand equipped Germ-Fogger spray more restroom area faster.
5. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting students.

### **Outdoor stadiums**

Outdoor stadiums are among the most challenging disinfection applications. Stadiums typically combine large open playing fields surrounded by large open blocks of aisles and rows of bleacher seats, field seating for team, team locker rooms, press spaces, luxury boxes, etc. These are very large disinfecting jobs. Germ-Fogger is a very efficient solution but each stadium is unique and will need a custom.

Contact us and we can help design the best disinfecting solutions for your specific stadium requirements



### Corridors

School corridors are typically wide with student lockers arrayed down both sides of the corridor. Germ-Fogger makes it very fast and efficient to disinfect even the longest school corridors.

1. Locate Germ-Fogger chassis in middle of corridor at one end and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Uncoil hose and move to lockers on one side of corridor
3. Move down the corridor spraying the lockers (optionally, floor).
4. Cross corridor and repeat for lockers on other side of corridor
5. Move Germ-Fogger chassis down the corridor as required and repeat until reaching the end of the corridor.
6. Optional: with two spray wand equipped Germ-Fogger spray lockers on both sides of the corridor simultaneously.
7. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting patrons.

### School buses

School buses are a prime disinfecting target and Germ-Fogger makes it easy to rapidly disinfect the whole fleet.

1. Locate Germ-Fogger chassis on curbside and lock castors. Install full disinfecting agent tank on cart and connect supply hoses, put on any required PPE and prepare to spray.
2. Park bus with front door open opposite Germ-Fogger. Uncoil hose and move to back of the bus.
3. Move back and forth spraying the rows of bus seats from the back of the bus toward the front.
4. Spray the driver's seat, entry way and door as you exit the bus.
5. Repeat for additional buses with PPE equipped driver moving disinfected buses and bringing up next buses.
6. Optional: with two spray wand equipped Germ-Fogger two buses can be disinfected simultaneously.
7. After spraying is completed wait time recommended by disinfecting agent manufacturer for area to clear and dry before admitting passengers.



**More Information**

The Germ-Fogger™ is in production now in Portland, Oregon USA. Complete information is available on the website:

<https://www.germ-fogger.com>

For more information

phone: 1-503-236-4500 x1

email: [info@germ-fogger.com](mailto:info@germ-fogger.com)

Germ-Fogger is a subsidiary of Portland Kettle Works. More information on Portland Kettle Works is available on the website:

<https://www.portlandkettleworks.com>