

Rapid spray disinfection process for start of shift and confirmed COVID Cases

As an amendment to the current “CGP129 – Infection Control Programme” & “CGP153 - Deep Clean and Standard Cleaning Procedure” the following rapid spray disinfecting process should be used to disinfect the ambulance after conveying confirmed communicable disease patient. This system should also be used to disinfect ambulance at the beginning of every shift

It is no longer required to perform a deep clean after conveying a confirmed or suspected communicable disease patient as the rapid spray disinfection process will neutralise any communicable disease residue more effectively than a normal deep clean.

Disinfection System Use

The Rapid **disinfecting** system (compressor, hose, and spray gun) is to be used in the following instances and does not replace your normal scheduled monthly / 2weekly deep cleaning regime.

1. Use at the start of the shift to **disinfect the ambulance for the shift.**
2. Use after the transportation of a **confirmed communicable disease case in place of the current deep clean.**

Observations

1. **In the event of blood or body fluid spills please follow the standard process in CGP129**
2. Use proper PPE required as outlined in material needed
3. Only one person is required to complete the disinfection process
4. Total time to clean the vehicle should be around 10-15 minutes once started.
5. Park outside in a clear, ventilated area with at least 3m clearance from other vehicles and users to prevent inhalation of perform vapour.
6. **Always wear an N95/FFP2 or better when spraying** inside the ambulance. Do not use the spray if you have **asthma** or other related complaint.

Areas to be cleaned and order of cleaning

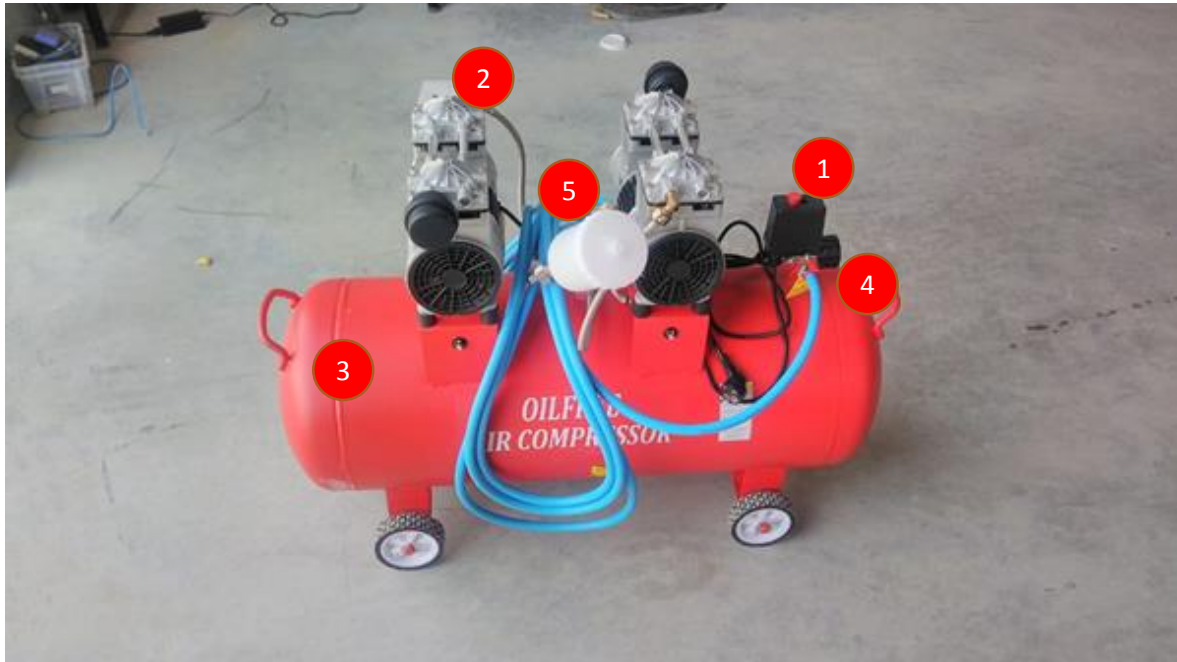
1. Exterior Door handles, side, rear and front, extendable step, wing mirrors and any areas that have been or are suspected to be contaminated
2. Driver and passenger compartment including doors, seats, bulkhead, headliner, steering wheel, and dashboard.
3. Dismounted stretcher including legs, frame and handles, mattress both sides and base
4. Treatment compartment including floor, ceiling, handrails and door handles, extended seating, locker fronts and bulkhead equipment.
5. Rear of the ambulance and equipment from the side lockers.

Materials required

- | | |
|--|--|
| 1 x Compressor, hose, and spray gun in good working order | 1 x pair gloves |
| 1 x KN95, N95 or FFP3 respirator mask or better (can be reused as this is to prevent inhalation of the Perform droplets only) | 1 x surgical gown |
| 1 x pair of protective eye goggles (reusable) | 1 x 40g Sachet perform |
| | 1.1 litre of clean water for mixing |
| | A jug / bottle to mix the Perform with the water |
| | 100ml clean water to rinse the spray gun |

Familiarization and precautions.

1. Compressor with coiled hose



Main components

1. Mains switch
2. Electric motor / Reciprocal Compressor
3. Reservoir tank
4. Output valve / pressure gauge / pressure Release valve
5. Coiled high pressure flexible hose with quick disconnect fitting for spray gun

Precautions

The compressor is electrical so should not be left unattended when plugged in or left outside in the rain or left standing in water.

The reciprocal compressor can become hot during operation

The compressor is heavy, care should be taken when moving the compressor.

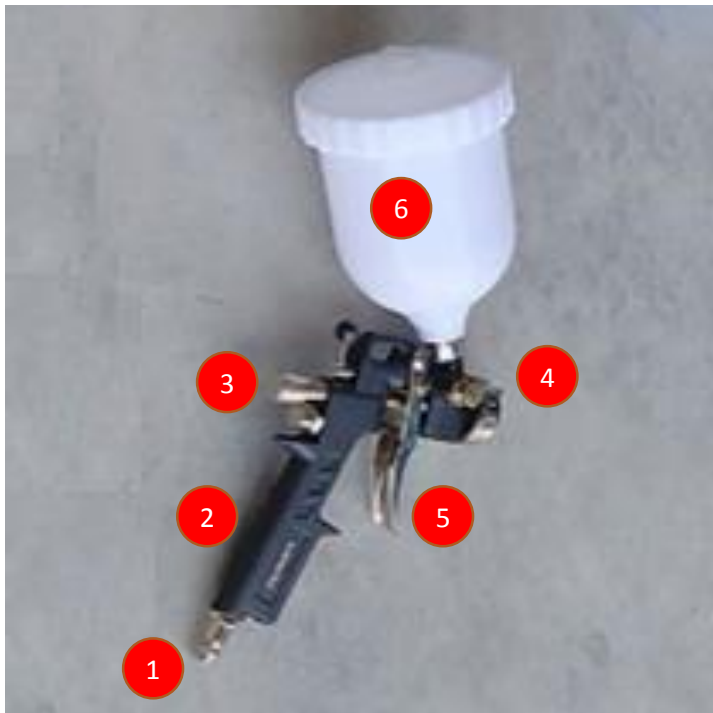
Do not use if damaged or broken

Do not leave in full sun unattended fully pressurised.

Do not wrap the hose around the compressor or coil the hose. Loop it over the compressor as shown to prevent damage and kinks.

Once the Perfom has dried wipe any white marks from glass /assets / controls / dashboard ect

2. Spray gun with 50u nozzle and integrated, closed spray bottle



Main components

1. Quick connect hose attachment
2. Body grip
3. Trigger adjustment (should be left alone unless instructed to alter)
4. 50micron spray jets
5. Spray trigger
6. Spray bottle with integrated screw top lid.

Precautions

Do Not point the gun at anybody or into your eyes

Always wear an N95 when using the spray gun

Do Not adjust the spray or trigger controls

Do Not Drop the spray gun onto hard surfaces

Do Not Leave the spray gun on the ground

Always rinse the spray gun out after use to prevent clogging the nozzles

Do Not leave the spray gun with Perform in it

Preparation

1. Inspect the compressor and ensure there are no electrical issues or signs of damage
2. Ensure the hose is kink free untangled and undamaged
3. Turn on the compressor (pull up red button), allow it to run to pressure (it will shut off when the pressure is reached)
4. Open valve so that it is in line (parallel) with direction of hose outlet from compressor
5. Test the spray gun by pulling the trigger. (Air should blow out when the trigger is pulled)
6. Put on PPE including mask, gloves and protective eye goggles
7. Mix 1 x 40g sachet of Perform with 1.1liter of clean water (3%) at room temperature.
8. Rinse the spray gun with a little Perform before use
9. Unscrew the top of the spray bottle and fill with 500ml of mixed Perform
10. Ensure the Ambulance to be cleaned is parked with 3m of space all round and is switched off.
11. Remove the stretcher from the ambulance ready for cleaning. Remove the stretcher mattress cover ready for cleaning
12. Deploy all seating so it can be sprayed later in the process
13. Pull the unkinked hose into a position to allow you to spray the ambulance
14. Point the spray gun at a wall or other clear area and at more than 50cm and press the trigger for a second or two. The spray should be continuous, in a horizontal fan using smooth



Using the spray gun

1. The spray gun must be held so the liquid is above the spray nozzle in order to feed the spray.
2. To activate the spray gun, hold the trigger down fully to ensure a full pressure spray is used.
3. Use short bursts of 2-3 seconds of spray holding the gun from 40-50cm from the surface to be sprayed so the surface does not run with liquid.
4. Move the spray gun in a smooth motion along the surface to be sprayed in order to deposit an even coating of detergent on the surface without causing flooding.

In the event that the sprayer does not work please follow the following troubleshooting guide.

In the event of the system being damaged please log an asset fault and inform QHSE



Troubleshooting

1. Compressor does not start when the red button is pulled up

Check the compressor is plugged in and powered on

Check the pressure gauge, if @ 100psi (7bar), if already at the running pressure then the compressor will not turn on till it is needed.

2. Compressor runs but nothing comes out of the gun

Check the airline valve is open (turned in line with the hose)

Check the second valve is closed (Turned at 90° to the hose)

Check the hose is not damaged or kinked

Check the gun is clean and not blocked

3. The gun sprays but stutters or is not consistent

Ensure the trigger is pulled back all the way

Ensure there is liquid in the spray bottle

Ensure the compressor is turned on and running

Order of spray disinfecting

Stretcher

1. Begin by spraying the stretcher from the wheels up on each leg.
2. Spray the underside of the stretcher from between the legs
3. Spray the handles of the stretcher then the side
4. Lift the mattress and spray under the mattress and the underside of the mattress
5. Replace the mattress and spray the mattress top and side
6. Move to the other side of the stretcher and spray the mattress side and the remaining stretcher side and handles



Ambulance spray disinfecting

Driver Side / cabin

1. Begin at the closed driver's side door
2. Spray the door handle, and side mirror
3. Open the door and spray the inside of the door, the handle and pocket.
4. Spray the steering wheel and hand controls
5. Spray the seat, seat back and edges of the driver's seat.
6. Get into the cabin and spray the headliner
7. Spray the dashboard and center console area
8. Spray the driver's side rear bulkhead



Exterior rear and side doors

9. Step out of the cabin, close the door and move to the rear of the ambulance
10. Spray the rear door handles and door edges
11. Move to the sliding door and spray the door handle



Passenger Side

12. Spray the passenger side wing mirror and door handle
13. Open the door and spray the inside of the door, the handle and pocket
14. Spray the dashboard
15. Spray the seat and seat back
16. Step into the cabin and spray the headliner
17. Spray the rear bulkhead
18. Step out of the ambulance and move to the sliding door



Interior and assets

19. Open the sliding door, spray the edge of the door and the interior handle and side hand grip.
20. Deploy the step and spray it.
21. Remove the Lukas, BLS and Entonox bag from the cupboard, place on the stretcher, and spray it on all sides and leave on the stretcher to dry
24. Spray the cupboards and countertop
25. Spray the medics chair, chair back and the space underneath
26. Spray the passenger chairs, chair backs and floor underneath



27. Spray the ceiling, hand grips and high-level locker fronts.
28. Spray the side bulkhead, oxygen store, suction and LP15
29. Step back out of the ambulance out of the sliding door and spray the floor area, keep the door open.
30. Move around to the rear doors.



Rear Interior

31. Spray the edges and inside of the rear doors
32. Spray the remaining floor area and back sides of the locker
33. Spray the backboard, and scoop stretcher as attached. If not used. Remove and spray all sided if used
34. If the chair has been used remove the chair and spray starting at the wheels and finishing at the handles otherwise spray in place.
35. Spray the deck and finish spraying.

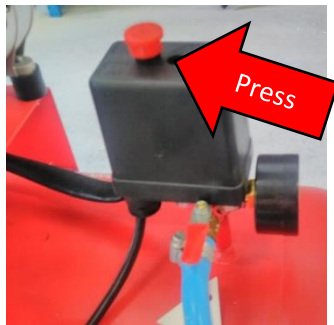


Ambulance spray disinfecting Completion

36. Place the spray gun on the compressor out of the way without being damaged.
37. Once Dry (should not take more than a minute to dry) Replace the Lucas, BLS and Entonox Bags into the lockers
38. Any assets / windows / controls / dashboard gauges or other areas which have dried but show a white Perform residue should be wiped clear with wipes to prevent oxidation of the surface and to ensure clear vision when driving.
39. Remount the stretcher but leave the doors open until ready to move or other BAU tasks are complete.

Post disinfection Completion

1. Pour any unused Perform back into the mixing jug / bottle
2. Flush the spay gun with clean water by filling 100ml water and spraying into clear air or at a wall.
3. Turn off the compressor by pushing down on the red button



4. Replace the looped (not coiled) hose across the compressor so it does not kink or tangle.



Do NOT wrap the hose round the compressor, lay the hose across the compressor so there is no chance to kink or damage the hose.

5. Remove PPE.
6. If not being used for a while, unplug, and store the compressor in the allocated area with the cover if available ready for the next crew to use.

End of Process.