



RISK ASSESSMENT

Risk Assessment for:	Philips UVC Air Disinfection Unit	Prepared by:	H&S Co-ordinators – S.L & V.D
		Assessed by SLT:	
Location:	Elm & Hub 1 bathrooms - ROSEWOOD FREE SCHOOL & AVENUES SITE	Date of Assessment	March 2024
		Review Date:	March 2026

Hazard	Who might be harmed?	Hazards Identified which may cause harm – consequence	Existing Level of Risk	Control Measure and Precautions Taken	Additional Control Measures or Further Action Required	Remaining level of Risk
Obstruction	Employees, Learners & third party	Impact injury	Medium - 9	Do not move the Air Disinfection Unit once positioned in setting. The Unit has been positioned strategically.		Low - 3
Wires	Employees, Learners & third party	Slip, trip or fall causing impact injury	Medium - 10	Wires to be tidied away. If the power cord is damaged, it must be replaced with a dedicated cord or with a dedicated component purchased from its manufacturer or maintenance department.		Low - 5
UV-C emitted and exposure	Employees, Learners & third party	UV-C light emitted from UVC lamp is much “stronger” than normal sunlight and if exposed can cause a severe sunburn-like reaction to your skin, and similarly, could damage the retina of your eye.	Medium - 16	Avoid eye and skin exposure to unshielded UV-C bulb. No misuse of Air Disinfection Unit. Switch off the unit before any investigation of the unit is done. Learners and any visiting siblings/children should be supervised to ensure that they do not play with the appliance. Any maintenance need ensure the use of personal protective equipment that protect against UV-C irradiation and/or accidental	Seek medical attention if exposed to UV-C	Medium - 8

RISK ASSESSMENT

Hazard	Who might be harmed?	Hazards Identified which may cause harm – consequence	Existing Level of Risk	Control Measure and Precautions Taken	Additional Control Measures or Further Action Required	Remaining level of Risk
Use of unit	Employees, Learners & third party	Air not being purified.	Low - 3	<p>exposure.</p> <p>Do not use unsupervised. This UV-C product is intended to be used for the disinfection of Indoor air – only use indoors. The back cover must be closed properly before disinfection, otherwise the UVC lamp will not work.</p>	Contact Site Manager to facilitate any repair.	Low - 1
Clean up of UVC air disinfection unit bulb breaking	Employees, Learners & third party	Mercury from the bulb getting into the air and causing air pollution and harmful effects on the body.	High - 32	<p>Contact Site Manager regarding clean-up of lamp. Hard and carpeted surfaces have a different clean-up process. The use of safety gloves and safety glasses are vital. Do not use a vacuum cleaner.</p> <p>Lamps include Mercury. If a lamp breaks: Turn power off Air Disinfection Unit. Shut off the central forced-air heating/air conditioning (HVAC) system if you have one. Vacate room immediately for at least 30 minutes and use a 'no entry sign' notice to prevent entry. Ventilate the room for those 30 minutes. Collect materials you will need to clean up the broken bulb:</p> <ol style="list-style-type: none"> a. Stiff paper or cardboard. b. Sticky tape (e.g., duct tape). c. Damp paper towels or disposable wet wipes (for hard surfaces). d. Glass jar with a metal lid (such as a canning jar) or a sealable plastic bag(s). 	Site Manager will disposal safety to guidelines.	Medium - 8

RISK ASSESSMENT

Hazard	Who might be harmed?	Hazards Identified which may cause harm – consequence	Existing Level of Risk	Control Measure and Precautions Taken	Additional Control Measures or Further Action Required	Remaining level of Risk
Changing shading cloth		Air not being purified.	Low - 3	After 9,000 hour of operation, error code E77, the shading cloth needs. Refer to manual. Contact Site Manager regarding change of shading cloth. Only those who have received instruction training can replace the relevant parts.	Shading cloth – 9114 018 20890	Low - 1
Change lamp		Air not being purified.	Low - 3	Turn off the power supply and unplug product before changing the lamp. Gloves on to replace bulb. Use only Philips brand TUV lamps. TUV lamp type: 927903004007 TUV PL-L 18W/4P 1CT/25; TUV lamp lifetime: 9000h		Low - 1
Cleaning		Water can act as a conductor of electricity. In the event that you ever touch one of these outlets when there's water inside it, it's likely that you will suffer from an electric shock, which can be severe. The most common injury associated with an electric shock is a burn.	High - 20	Do not spray water on the unit. The body can be cleaned with a wet towel and dried if necessary. RCDs in place across school to lower risk of electric shock from any plug in appliance.		Medium - 10

High likelihood of risk – Likely to occur immediately or in the near future
Medium likelihood of risk – will occur in time if no preventative action is taken
Low likelihood of risk – Remote or unlikely to occur

Date Reviewed	Comments
March 2023	Initial assessment
March 2024	Annual update