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| **OPS10** | **UVC Disinfection Device Risk Assessment** |
| **Type of UVC Device Used** |  |
| **Unit Name and Number** |  |
| **Unit Address** |  |
| **Risk Assessment Completed** | Date | Signed |
| **1st review** | Date | Signed |
| **2nd review** | Date | Signed |

**Note** - Risk assessments must be reviewed every 3 years, whenever there is a significant change in the activity, and following any incident involving the activity. Risk assessments must be retained for a period of 6 years.

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| **Step 1 - Workplace Safety Hazards** |
| **What are the hazards?** | **Who might be harmed?** | **How might they be harmed?** | **What are you already doing to control the risks?** |
| Exposure to ultra-violet light emissions | Compass employees | Erythema (skin reddening)Photokeratitis (eye damage) | Only fully trained operators who are listed on the Authorised User List on page 3 of this Risk Assessment to use these machines, training delivered by supplier/ manufacturerEnsure the machine has an annual Preventative Maintenance Plan in placeNo person should be present or enter the room while the system is in useAll room access doors must be closedWindows must be covered using blinds or shades provided with the machineIf any gaps around doors, then ensure the UV impermeable sealant tape is used to seal around doorsAll pre-process checks to be completed as per control documents and checked and signed by senior operativeCaution signs (supplied with unit) must be located outside the door (2 such signs are supplied with each unit) If you need to enter the room the process can be stopped by pressing the wireless switch on the Caution Sign, which turns off the deviceThere is a fail-safe system if somebody enters the room without pressing the Caution Sign stop button as each device has 360 degree sensors, the device will turn off automatically as soon as anyone attempts to enter the roomConfirm safety cut out time frame with manufacturer and document accordingly Safety device for -Arraydiate 5; the device will turn off automatically as soon as anyone attempts to enter the roomINOVIS UVC; will cut out within 3 seconds of movement sensed within operating space. If machine process is operating at shift change – handover document must be completed and signed off |
| **What are the hazards?** | **Who might be harmed?** | **How might they be harmed?** | **What are you already doing to control the risks?** |
| Lamp Damage | Compass employees | Cuts and lacerations | Ventilate room for 30 minutes, clean up damage wearing gloves and dispose of waste correctly in a UV lamp bin supplied by waste contractor.Do not attempt to remove or replace the lamps, contact supplier/ manufacturer to facilitate this and take the machine our of use until repaired. |
| Slip, Trip or Fall on same levelTethered cable for device | Compass employees | Sprains, strains, bruising and impact injuries | Operatives are vigilant for slip, trip and fall hazards and can organise their work area to reduce the risk. Ensure cable is fully extended when in use and deployed by trained operativeCheck cables and plug for any defects before starting up the machine, if any damage to the cabling or to the plug, contact supplier/ manufacturer for repair. In both situations, take the machine our of use until repaired.No one will enter the room during disinfection, therefore no footfall and no riskCables to be stowed as per training, coiled on retention hooks on the device was use is finished before moving back to storage |
| Manual Handling from pushing and pulling | Compass employees | Back, arm and muscle strains | Unit weighs 62kg however, the unit is on four easy glide wheelsDuring testing, unit was found to have a push ratio of 8kg and a pull ratio of 11kg, well within HSE guidelinesEnsure wheels are kept clean and free of any debris or materials that may cause them to jamOperatives to ensure they have a clear field of vision when moving the machine around the locationOperatives to ensure they continually observe for any hazards on the route |
| Persons hit by equipment when being moved | Compass employees, hospital staff, members of public | Impact injuries | Operatives to ensure they have a clear field of vision when moving the machine around the locationOperatives to ensure they continually observe for any hazards on the routeOperatives to use good verbal communication if anyone approaches or looks to be getting in the way of the equipment and advise politely to stand clearEnsure wheels are kept clean and free of any debris or materials that may cause them to jam |
| Contact with electricity  | Compass employees | Electric shock | All portable electrical equipment is tested as per PAT Testing Assessment and visual checks are made prior to use to ensure plugs, cables and connections are free from damageCheck cable during device deployment for any visual damage. If any damage is found, do not use and remove from operation and contact supplier for repair. |
| Exposure to biological agents within the hospital environment | Compass employees | Viral or bacterial infection | Work areas have been previously cleaned to required IPC requirements with appropriate detergent and disinfection processAny specific direction given by the ward / department staff would be followed by the operator.Operatives undertake standard precautions such as hand cleansing and the wearing of gowns when available outside the target area and gloves at all times when setting up.All areas to be moved to reduce the risk of shade and shadow to increase effective use of the UVC process |

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| **Step 2 - Additional Measures**Do you need to do anything else to control this risk? |
| **Additional Controls Required** | **Action by who?** | **Action by when?** | **Done** |
| Ensure the use of this machine has been reviewed and approved by the site RPA officer | Cleaning Manager | Before purchase |  |
| All operatives to receive full training session on use of and cleaning of UVC machine from supplier/ manufacturer | Cleaning Manager | Before first use |  |
| Once operatives are fully trained and deemed competent then their names and date of training should be added to the Authorised User List below in Step 3. | Cleaning Manager | When training is completed |  |
| All relevant control documentation to be implemented -  | Cleaning manager | Refer to HSE sector lead Head of healthcare cleaning and infection control  |  |
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| **Step 3 – Authorised User List**All team members who have received the required training from Ecolab and have been deemed competent to use the machine should be named below with the date of training recorded |
| **Name of Operator** | **Date Training Completed** | **Name of authorising manager** | **Signature of authorising manager** |
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