

RISK ASSESSMENT & METHOD STATEMENT

Water Management Units – Installation & Servicing

Purpose - This RAMS provides Installation engineers with the safety requirements for the installation, removal and servicing of Calabash Mint Water Management units. It identifies the hazards and control measures required to ensure work is carried out safely and consistently.

Scope - This RAMS applies to trained and authorised Calabash Mint Installation Engineers and Relief Installation engineers carrying out installation, removal and servicing of Water Management units at customer premises.

Section 1 — Risk Assessment

No.	Hazard	Who Might Be Harmed/How	Likelihood (1–5)	Severity (1–5)	Initial Risk	Controls Required	Residual L	Residual S	Residual Risk
1	Cuts, Bruises and Hand Injuries	Installation engineers– cuts, abrasions, bruising or hand/finger injury	2	2	4	Only trained and authorised Installation engineers to carry out the task. Use correct tools and handle units, covers, fixings and internal components carefully. Do not force components or use damaged tools/equipment.	1	2	2
2	Slips, trips and falls	Service Drivers, customers and others on site – injury from slipping, tripping or falling	3	2	6	Check the work area and floor condition before starting. Keep tools, equipment and components clear of walkways. Any water released during servicing/installation must be contained and cleaned promptly. Leave the floor clean and dry before reopening the area.	1	2	2
3	Water Leakage or Uncontrolled Water Release	Service Drivers, customers and others – slips/falls, water damage or contact with contaminated surfaces	5	3	15	Isolate the relevant water supply before installation, removal or other work requiring the water connection to be disturbed. Confirm isolation before commencing. Check connections before restoring water supply.	1	1	1
4	Drilling Into Concealed Electrical Cables or Pipework	Installation engineers and others – electric shock, burns, flooding or injury from damaged services	3	3	9	Check the proposed drilling location before drilling. Use an appropriate cable/pipe detector. Do not drill where concealed services cannot reasonably be ruled out. Follow site information/instructions concerning concealed services.	1	2	2
5	Use of Drills and Hand Tools	Installation engineers– eye injury, cuts, puncture wounds or another hand/tool injury	2	2	4	Only trained/competent drivers to use tools. Inspect tools before use. Use the correct drill bit, fixings and tools for the surface/task. Keep others clear while drilling and use appropriate PPE.	1	2	2
6	Water Pressure/Pressurised Connections	Installation engineers and others – unexpected water discharge, impact or slip hazard	2	2	4	Water supply must be appropriately controlled before connections are opened or altered. Check connections are secure before restoring the water supply. Restore supply in a controlled manner and check for leaks. Ensure the unit has the appropriate water supply/pressure required for correct operation.	1	1	1

7	Customer/Public Access During Work	Service Drivers, customers, site employees and visitors – collision, slips, contact with tools/equipment or interference with work	3	1	3	Close/restrict access to the affected toilet area while installation, removal or servicing is taking place, in accordance with site arrangements. Keep tools and equipment contained and do not leave the work area unattended where hazards remain.	1	1	1
---	------------------------------------	--	---	---	---	--	---	---	---

Section 2 — Risk Matrix Key

1-3 Low	4-9 Medium-Low	10-15 Medium-High	16-25 High
---------	----------------	-------------------	------------

Risk score = Likelihood (1-5) × Severity (1-5). Where additional controls are introduced, the risk must be reassessed to determine the residual risk.

Section 3 — Method Statement

A. Installation / Removal

Step	Installation
1. Isolate Services	Establish a suitable working area and protect the wall-mounted urinal and surrounding finishes. Isolate the water supply. Drain the relevant water pipework and urinal cistern and confirm the system is safe to work on before commencing removal of the existing water-management components or installation of the new unit.
2. Prepare Work Area / Remove Existing Components	Establish a safe working area and inspect the existing urinal, pipework and fixing locations. Carefully disconnect and remove the existing water-management system components, including the sensor/control unit and solenoid valve, taking care not to damage the urinal, existing pipework or surrounding finishes. Check the existing installation and connections for any damage or defects before installing the replacement components
3. Remove & Install Sensor / Control Unit	Carefully disconnect and remove the existing sensor/control unit and associated fixings/cabling where applicable. Position and securely fix the replacement water-management system sensor/control unit in accordance with the manufacturer's instructions. Ensure the unit is correctly positioned, securely fixed and accessible for future servicing.
4. Remove & Install Solenoid Valve	Disconnect and remove the existing solenoid valve and associated fittings. Inspect the existing cold-water supply connection, then fit the replacement solenoid valve in line with the urinal cold-water supply, ensuring the correct flow direction and secure, watertight connections. Connect the valve to the water-management system control unit in accordance with the manufacturer's instructions and secure/protect the cable from damage
5. Connect & Configure	Connect the solenoid valve, sensor and control unit in accordance with the manufacturer's instructions. Route and secure cables to prevent damage.

	Configure the water-management system, sensor settings and flushing parameters in accordance with the manufacturer's instructions. Check all connections before restoring the system.
6. Restore Services	Gradually reinstate the water supply. Check all joints, valves and connections for leaks or other defects.
7. Test	- Test the sensor, control unit and solenoid valve. Confirm that the urinal flushes correctly, the water supply operates and shuts off correctly, and there are no leaks. - Rectify any defects identified during testing, clean the work area and remove waste. Leave the installation secure, operational and ready for use.

B. Servicing

Step	Servicing
1. Initial Inspection	Inspect the urinal, sensor, control unit, solenoid valve, pipework and visible connections for damage, leaks or signs of deterioration.
2. Check Water Supply	Confirm the water supply is available and that the urinal receives adequate water flow for normal operation.
3. Check Sensor Operation	Activate the sensor in accordance with the manufacturer's instructions and confirm that it correctly detects use and initiates the flushing cycle.
4. Check Solenoid Valve	Confirm the solenoid valve opens when activated and allows water to flow to the urinal, and closes correctly at the end of the programmed cycle.
5. Check Flush Cycle	Run the urinal through its normal operating cycle and confirm the flush duration, water flow and shut-off are functioning correctly.
6. Check for Leaks	Inspect all accessible pipework, valves, joints and connections while the system is operating. Check for leaks or abnormal water discharge.
7. Clean Components and Check Settings	- Clean the sensor and accessible components as required. - Check the control unit settings and programmed operation against the manufacturer's requirements and adjust where necessary.
8. Rectify Defects	If a fault is identified, isolate the relevant water supply before carrying out any work that requires disconnection or dismantling, then repair or replace the defective component as required.
9. Final Test	Reinstate any isolated services and carry out a complete operational test. Confirm the sensor, solenoid valve, flushing cycle, water shut-off and system controls are operating correctly. Clean the work area and record/report any outstanding defects

Important: - Ensure water supplies are isolated where required before installation, repairs or removals. Check all connections for leaks before leaving site and fully test the sensor, solenoid valve and flushing cycle to confirm correct operation. Keep the work area clean and remove all waste on completion.

Route Servicing

Personal Protective Equipment (PPE) Required: <i>(Tick as relevant)</i>											
Foot Protection	Hearing Protection	High Visibility	Head Protection	Eye Protection	Face Protection	Hand Protection	Protective Clothing	Breathing Protection	Sun Protection	Safety Harness	Any personal accessories must not be worn. Long and loose hair must be tied back.
											
☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	☐	☐

Installation

Personal Protective Equipment (PPE) Required: <i>(Tick as relevant)</i>											
Foot Protection	Hearing Protection	High Visibility	Head Protection	Eye Protection	Face Protection	Hand Protection	Protective Clothing	Breathing Protection	Sun Protection	Safety Harness	Any personal accessories must not be worn. Long and loose hair must be tied back.
											
☐	☐	☐	☐	☒	☐	☒	☐	☐	☐	☐	☐

Section 5 – Equipment

Servicing & Programming	Installation/Replacement
✓ Adjustable spanners & screwdrivers ✓ Pipe grips ✓ Cleaning cloths & suitable cleaning materials ✓ Bucket & absorbent cloths ✓ Suitable access equipment ✓ PPE	✓ Adjustable spanners & pipe grips ✓ Screwdrivers & Allen keys ✓ Drill/driver & suitable fixings ✓ Pipe cutter/deburring tool, if required ✓ Bucket & absorbent cloths ✓ Suitable access equipment ✓ PPE

Section 6 – Sign Off

Reviewed and Approved By	Document Control
Name: Mabel Urrego	Assessment Date: September 2026
Signature: 	Review Date: September 2027
Date: 28/09/2026	Issue: 1
	Document Owner: Operations Manager