



## Evaporative Cooling PPM Schedule



## Support... Planned and contracted maintenance services

To ensure that data centre or building services are always operating to their full potential Workspace Technology recommends the deployment of regular planned preventative maintenance programmes which are back up with emergency callout for unplanned failures.

Workspace Technology engages specialist teams of service engineers operating throughout the UK. You can choose the level of service to match the business criticality.

## Support Plan Options

- Standard** Routine maintenance with access to our call-out service. All newly supplied products\* \*\*\* covered within warranty period.
- Premium** As Standard but inclusive of callout charges when newly supplied equipment is within the warranty period\*
- Comprehensive** Provides full service including call-out charges and equipment replacement both in and out of warranty\*\* \*\*\*.

\* Equipment replacement costs when within there warranty period are inclusive. This excludes consumables, batteries and lamps/bulbs.

\*\* Excludes consumables, batteries and lamps/bulbs.

\*\*\* Excludes failures where the system has been damaged by users or third parties or has a call out due to customer mis-operation. Damage due to poor quality water, fire, storm, flood or act of nature will be chargeable. Full details are in the contract terms and conditions.

Service	Standard	Premium	Comprehensive
Planned Preventative Maintenance Schedule	•	•	•
New Equipment 12 Month Warranty	•	•	•
Minor Adjustments During Service Visits	•	•	•
Availability of Technicians 24 x 7 x 365	•	•	•
Engineers Callout Charges		•	•
Variable Response Time Options		•	•
Out of Warranty Equipment Replacement			•

## Evaporative Cooling Module PPM Schedule

### Frequency Quarterly

It is recommended that an evaporative cooler is regularly maintained. The frequency of maintenance is dependent upon the quality of water, the cleanliness of the air and the frequency of use. In normal conditions a 6 monthly service will maintain the reliability, efficiency and hygienic operation of the cooler. Workspace Technology recommends quarterly service visits when installed within a critical space such as server room or data centre environments.

### Cooling Unit Procedure

#### FREECOOL UNIT SERVICING

Item	Service Detail
1	Ensure the cooler is fully drained by switching the cooler off at the wall control. Any water will then be automatically drained.
2	Electrically isolate the cooler by using the external switch mounted on the underside of the cooler.
3	Remove the side panels by first removing the securing screws and then, by lifting the frame slightly and moving it outwards, the side frame holding the pad can be removed. Take care not to damage the top surface of the pad.
4	Clean all surfaces to remove any deposits.
5	Use the 'Clean Cycle' to aid cleaning. Note - On salinity setting: If there is evidence of scaling then the bleed rate should be increased.
6	Inspect each of the filter pads. These should be changed if: <ul style="list-style-type: none"> <li>- They are mechanically damaged</li> <li>- They are contaminated by airborne products so badly they cannot be cleaned using a low pressure water pipe</li> <li>- They have salt or scale build up</li> <li>- Their efficiency has reduced to an unacceptable point</li> </ul>
7	Remove insect screens carefully by lifting from the side frames. Inspect and replace if damaged.
8	Clean using low pressure water and replace inside frame.
9	Record dip switch settings on maintenance record sheet. Validate any changes from default.
10	Re-start cooler by switching on mains power and run test sequence to check the cooler operation.
11	Replace side frames and securing pins.

**FANS & DAMPERS**

Item	Service Detail
1	Inspect each fan to ensure integrity and security of all fittings.
2	Inspect fans for signs of wear and ensure they are operating correctly.
3	Check for correct operation of variable fan speed controller
4	Inspect each damper and actuator system to ensure integrity and security of all fittings.
5	Inspect dampers for signs of wear and ensure they are operating correctly.
6	Check for correct operation of damper actuator mechanism.
7	Check integrity of all controls wiring.

**CONTROLLER**

Item	Service Detail
1	Inspect control system for correct operation.
2	Check all remote communication.
3	Run test sequence to ensure correct operation of system.

**FIRE INTEGRITY (WHERE FITTED)**

Item	Service Detail
1	Operate fire test key. Inspect to ensure fire damper are closed. Note open key to ensure airflow is returned ASAP.

**PAD INSPECTION**

**The pads should be replaced if:**

Item	Service Detail
1	They are mechanically damaged.
2	They are contaminated by airborne products so badly they cannot be cleaned using a low pressure water pipe.
3	They have salt or scale build up.
4	Their efficiency has reduced to an unacceptable point.

## Damper Overhaul - Optional Service

**Frequency** Recommendation Once Every 3 Years

Dampers require servicing because of a number of reasons as detailed:

- Over time damper mechanisms will slowly clog up with dust and debris. Damper blades may go out of alignment with each other. Actuator spindles slip out of sync.
- A combination of issues will result in dampers not responding correctly to PLC control signals. This in turn will cause confusion and lead to poor or ineffective system control.

Item	Service Detail
1	Removal of Damper (Temporary Correx Blank Inserted).
2	Remove Actuator & Remove Damper Mechanism Cover.
3	Clear of Debris/Dust with High Pressure Air Spray.
4	Apply Lubrication.
5	Align Blades and Re-assemble.
6	Fit & Correctly Align Actuator Spindle.
7	Refit & Test.



## Notes on Service Schedule

All work mentioned in the schedule is carried out subject to Workspace Technology's Terms and Conditions of sale.

The audit schedules shown are based on a standard and will not be applicable to every installation for every item listed. Consequently each task has to be qualified by the term; 'if it is safe so to do', 'if applicable', 'if possible' and 'if appropriate'.

It is possible that your specific installation may have additional or specialised equipment not mentioned in this schedule. In that case, the specific equipment would be the subject of addenda to the main contract.

Tasks mentioned in the schedule may also be omitted if Workspace Technology's engineers or its appointed agents deem that it is unsafe to carry out that task or that it may jeopardise the security of electrical supply.



**Data Centre Solutions Expertly Engineered**

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## Interested in finding out more?

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