Rapid Microbial Monitoring Tests for Water Quality

Water environments are notorious for encouraging bacterial growth which can lead to corrosion, biofilm formation, and foul odors. Maintaining control over microbial contamination requires preventive measures so water systems do not become contaminated by uncontrolled microbial growth. Verify hygienic status and biocide effectiveness in cooling towers, evaporative condensers, potable water, and other water systems with rapid microbial monitoring tests. Hygiena's SystemSURE Plus monitoring system and easy-to-use tests detect adenosine triphosphate (ATP), the energy molecule of all living organisms, in water samples and environmental surfaces. AquaSnap is a user friendly ATP test for water samples, available in two formats: Free and Total. Together, they detect living and non-living organisms to give an estimate of microbial contamination down to 10^3 CFU. UltraSnap surface ATP tests can be used to test surfaces for biofilm buildup and surface contamination. All test results are recorded with complimentary SureTrend software, which tracks and trends test results over time and generates automatic reports for review.

Suggested ATP Test Locations:

Cooling Towers

- Condenser water loops
- Heat transfer surface
- Spray nozzels
- Fan blades
- Tower makeup
- Tower sump tank
- Inlet to heat exchanger
- Outlet to heat exchanger
- Tower pack

Closed Loops

- Piping
- Plug control valves
- Heat exchanger surfaces
- Pump seals

Potable water systems:

- City water entry point
- Storage tanks
- Hot water heater drain point
- Hot water return

For more information, visit www.hygiena.com

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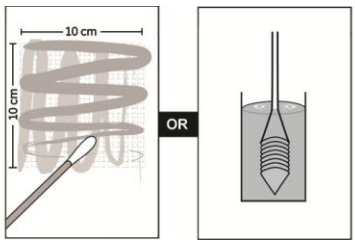
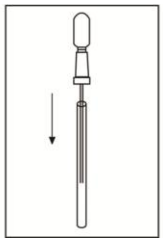
Test Procedure:

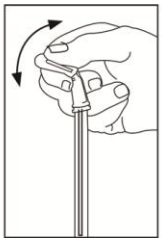


Swab a 10x10 cm area or equivalent of irregular surfaces with UltraSnap.

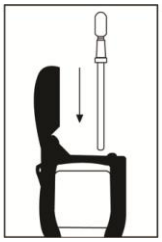
Or collect a liquid sample with AquaSnap.



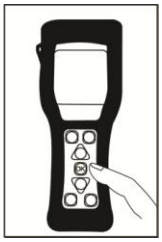
Replace swab in tube.



Activate test by breaking Snap-Valve, squeezing bulb, and shaking.



Press "OK" to initiate measurement.



Results will be displayed in 15 seconds.

Recommended RLU limits for Cooling Towers:

Result	Level of Control	Action Required
< 30	Excellent Control	No action necessary
30 – 75	Good Control	No action necessary
75 – 150	Alert Situation	Re-test the system. Review the control measures and risk assessment.
≥ 150	System is out of control	Re-test the system. If the result is of similar scale, re-dose the system with biocide. Review risk assessment and control procedures to identify remedial action. Seek advice from your water treatment professional.

Suggested Products:

SystemSURE Plus
SystemSURE Plus is used for ATP hygiene monitoring. This palm-sized instrument is easy to use, extremely sensitive and affordable, allowing users to quickly determine the cleaning efficiency and hygienic status of surfaces and liquid samples to ensure product quality and reduce costs.

AquaSnap
AquaSnap measures ATP found in liquid samples, utilizing a honey dipper collection tip collects a consistent amount of sample from test to test. AquaSnap is available in Total and Free format.

UltraSnap
UltraSnap measures ATP found on surfaces. ATP (adenosine triphosphate) is found in organic matter from all living organisms and should be significantly reduced after cleaning. Monitoring ATP provides an instant and objective measurement of cleaning efficiency.

Catalog No.	Description	Quantity
SS3	SystemSURE Plus Monitoring System with SureTrend Software	1
AQ-100X	AquaSnap Free Water ATP Test	100
AQ-100FX	AquaSnap Total Water ATP Test	100
US2020	UltraSnap Surface ATP Test	100

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