

AQUALAB – WATER ACTIVITY METER INSTALLATION / OPERATIONAL QUALIFICATIONS

AquaLab Information

Manufacturer: Decagon Devices, Inc.
 Model Number: _____
 Serial Number: _____
 Company: _____
 Department: _____
 Room Number: _____
 Contact: Decagon (800) 755-2751
 Calibration SOP #: _____
 Calibration Frequency: Daily/Before each use

Installation Qualification

Installation of AquaLab includes placing the instrument on a level surface in a location where the temperature remains fairly stable. This location should be well away from air conditioner and heater vents, open windows, outside doors, or other items that may cause rapid temperature fluctuation. After finding a good location for your AquaLab, plug the power cord to the back of the unit and a standard AC outlet. The ON/OFF switch is located on the lower right corner of the AquaLab's back panel.

AquaLab properly installed at facility

Qualified By: _____ Date Qualified: _____
(Vendor Representative/Analyst Name)

Operational Qualification

AquaLab's operation and performance is verified by measuring specially prepared calibration standards that have a specific molality and water activity. In order to provide the most accurate readings, your AquaLab should ideally be allowed a warm-up period of at least 15 minutes after turning it on. Performance Verification Standards come in four water activity levels: 0.250, 0.500, 0.760, and 1.000 a_w . The AquaLab dew point sensor will read each standard within $\pm 0.003 a_w$ of the stated value. The volatiles sensor will read each standard within $\pm 0.015 a_w$ of the stated value.

Standard @ 25°C		Dewpoint Sensor		Volatiles Sensor (if applicable)	
		$a_w \pm 0.003$	°C	$a_w \pm 0.015$	°C
13.41m LiCl	0.250				
	0.250				
8.57m LiCl	0.500				
	0.500				
6.0m NaCl	0.760				
	0.760				
Steam Distilled H ₂ O	1.000				
	1.000				

AquaLab measured Verification Standards within specification: YES NO
 Qualifications met Vendor Acceptance Criteria: YES NO

