

SONY MA900 MAINTENANCE SCHEDULE

WHEN	PROCEDURE	Notes	Page
DAILY			
Before start up	Check the fluids status in the tanks		
	Check the tubing connections		
	Wipe the sorting chamber	DI water -> 70% ethanol	
Shutting down/logging off	Sample fluidics system cleaning with 1-3% bleach	Cytometer tab ->Software and Hardware Shutdown	70
After shut down	Refill the sheath tank	Use sterile PBS or 1x ClearSort	164
	Empty the waste tank		168
	Wipe inside the collection chamber, the sample chamber and the used sample and collection tube holders.	First with DI water, then with 70% ethanol	
WEEKLY			
WEEKLY	Ethanol Priming	Before the first calibration and after the last shutdown, Maintenance mode, Cleaning chips are reusable	193
	Clean the sheath tank	Discard remaining sheath fluid, replace with 500mL of 70% ethanol, close & shake, rinse with DI water	
	Sorting Chamber Maintenance	Wipe the sorting chamber with DI water, then 70% ethanol, clean the deflection plates, the sorting tube and plate holders, the waste catcher tray	181
MONTHLY			
MONTHLY	Ethanol Cleaning (including bleach cleaning if necessary)	<p>DAY 1: The system will shut down with ethanol. After the shutdown, empty the sheath tank, add 500 mL of 70% Ethanol, seal & invert the tank, leave to soak overnight</p> <p>DAY 2: Before re-initiating hardware/software, thoroughly rinse out the ethanol from the sheath tank.</p> <p>Turn on MA900, initiate the software, & proceed with the Ethanol Cleaning Wizard</p> <p>IMPORTANT: Perform 1x extra sheath filter de-bubble during the fluidics check to remove all air from the system</p>	192
	Sample Area Maintenance	Maintenance mode IMPORTANT: clean and lubricate the sample chamber O-ring	180
	Replacing the waste tank air filter		200
EVERY 3 - 6 MONTHS			
EVERY 3 - 6 MONTHS	Sample line (LE-U3F021) exchange	Maintenance mode/Cytometer tab,	175
	Sheath filter (LE-U7F004) exchange	Main unit OFF/STAND BY	178
INFREQUENT USE			
Before	Replace the sheath fluid with 3L of sterile DIW & perform 3x sheath filter debubble. Perform daily shutdown & empty the waste tank. Empty the sheath tank & rinse with 70% ethanol, close them dry.	This procedure will replace the sheath fluid in the tubes with DI water.	
After	Fill the sheath tank		
	Waste A Maintenance	Maintenance mode, repeat if the level of the fluid in the 15mL tube does not decrease	193
	Run ethanol cleaning	minimum 1h soak, recommended over-night.	
	3x Sheath filter de-bubble	During Fluidics check	200
OPTIONAL MAINTENANCE			
OPTIONAL MAINTENANCE	Autoclave the probe adapter		173
	Autoclave the DI water, sheath and waste tank		172
	System-wide bleach cleaning	Maintenance mode, 3h, cannot be aborted. It is recommended to autoclave the tanks and use only sterile DI water, use only fresh 1-3% Sodium Hypochlorite.	192
	Clean the lens guard		186
AUTOClave CONDITIONS			
AUTOClave CONDITIONS	AUTOClaveABLE PARTS	MAXIMUM	
Temperature: 121°C (250 °F)	Sheath tank		172
Pressure: 103.4 kPa (15 psi)	Waste tank (without air filter)	120x	172
Duration: 20 minutes	DI water tank (without air filter)	120x	172
	Sheath filter (without the cap)	10x	200
CER: autoclavable	Probe adapter		177
CSS: non-autoclavable	Lens guard		186