

## Monthly Inspection Checklist

Model	Component	Instructions
All	Power light	Check the light. Green: Running; Yellow: Powered but not running, No light: No power
All	Gas Leakage	Use soap water to check the gas leakage on the joints and fittings. Check for signs of cracking on the tubes
All	Water Pressure	Check water pressure gauge (8-30 Psi). Compare value with the historical values on the remote monitoring dashboard (requires subscription)
All	Gas Pressure	Check gas pressure gauge (30-110 Psi). Compare value with the historical values on the remote monitoring dashboard (requires subscription)
All	Fan	Make sure fan is clean and running continuously.
All	Pump basket	Stop the unit. Take the pump lid out. Inspect and clean the basket.
All	Intake screen	Visually inspect the intake screen and check valve. Shut down the unit and clean if necessary.
All	Compressor(s)	Compressors must run continuously without strong vibration. Housing must be very hot during operation.
All	Pump Visual inspection	Inspect the pump body. Look for signs of leakage, water, or heat marks on the junction box
All	Temperature sensors	Make sure all temperature sensors are securely attached.
All	External inspection	Make sure air intakes under the pump and the compressors are not blocked.
All	Rotameter	Check rotameter value and compare with previous readings. Approximate values: 5 CFH for Clear50 and 15 CFH for Clear150
All	Air suction	Detach the suction tube on the compressors. Check the suction by putting a piece of paper on the tube to block the air flow.
All	Main compressor air pressure	Detach tube from the back of the rotameter and check the air flow.
All	Visual inspection	Check gas tubing and look for spots with condensation, and heat marks. Detached tubes to drain water inside tubes.
All	Main pressure regulator	Check the outlet of pressure regulator. Combination of high gas pressure (above 90SPi) and constant outgoing flow can be a sign of diffuser fouling or gas blockage inside the nanobubble generator
All	Power interruption test	Shut down the unit and power back on after 30 second. Monitor the unit until it goes back to normal operation

<b>Enriched</b>	Enriched air pressure regulator	The outlet of the regulator is located outside the unit right under the regulator. Air must constantly flow out of the outlet
<b>Enriched</b>	Enriched air pressure	Enriched air pressure must be about -2 to 5 Psi. Adjust the pressure by turning the enriched air back pressure regulator while the unit is running
<b>Enriched</b>	Primary compressor air pressure	Detach the tube between primary compressor and prism. Check the air flow.

## Preventative Maintenance

### Preventative Maintenance Schedule

Schedule	Description
<b>Week 1</b>	Perform monthly inspection
<b>Week 2</b>	Perform monthly inspection
<b>6 months</b>	Perform monthly inspection
	Perform inspection per inspection checklist
	Replace main compressor air filter
	Clean 3-stage air filter (Enriched units only)
<b>1 year</b>	Perform monthly inspection
	Replace fan
	Replace 3-stage filters (Enriched units only)
	Perform CIP
	Replace compressor(s) capacitor(s)
	Replace compressor air filter
	Replace or reseal air compressors
	Wipe-clean the enclosure. Clean the air intake in the bottom of the unit
<b>18 months</b>	6 months maintenance items
<b>2 years</b>	1 year maintenance items