

OCULOPLASTIK

Suggested yearly inspection procedures and Validation tests for Liquisteam-E Units



CAUTION, consult accompanying documents.



oculoplastik.com

Get our instructions for use at oculoplastik.com.

In order to ensure the proper functioning of your Liquisteam-E unit, it is recommended that you perform the following tests periodically (yearly). These tests have been validated by Oculo-Plastik, Inc.

1 – LEAK TEST.

This validated test ensures your unit keeps its pressure. There is no water and no heater used.

- Connect the air and power supplies.
- Close the water outlet.
- Do not fill with water.
- Heater is kept turned off.
- Close top lid.
- Turn the time regulator to 30 minutes.
- Put main switch ON.

- The pressure should rise to the users selected pressure level. For example 3.0 BAR (44 PSI). Document starting pressure.
- When the 30 minutes cycle is finished, read the pressure again: the pressure should be anywhere between 0.3 bar (44 PSI) under the selected level, to the selected level. For example between 2.7 and 3.0 BAR (39 PSI and 44 PSI).
- Document ending pressure.
- Push main switch OFF.
- Open the water outlet, so air exits.
- Attention! Do not open the safety lid before the pressure is completely released. It should not be possible.
- Open top lid.
- **Test criteria:** If pressure was below acceptable levels, contact Oculo-Plastik, Inc. for a repair due to pressure loss.
- When in doubt that unit loses pressure, test can be performed at will. Otherwise perform periodically (yearly). Document each time the test is performed.

2 – MAXIMUM TEMPERATURE REACHED TEST.

This validated test is to verify that your unit is working in actual circumstances and that the recommended minimum temperature is reached. In order for this test to be valid it must be performed only with the Oculo-Plastik, Inc. validated thermometer. (OPVAL)

- Connect the air and power supplies.

- Be sure your drain is connected.
- Close the water outlet.
- Open the top lid of the unit.
- Remove the OPVAL thermometer from stainless case. Inspect the thermometer and make sure you bring the level of mercury reading in the thermometer (by holding firmly and shaking the thermometer in your hand) to a low level (like under 65°C or 150°F).
- PUT THE OPVAL THERMOMETER BACK IN THE STAINLESS CASE. Place the thermometer with the stainless case into the immersion cradle, and cover it with water (level of water between the 2 lines), and close the top lid.
- Adjust the temperature knob to maximum (120°C or 148°F).
- Turn the time regulator to 30 minutes.
- Push main switch ON.
- The pressure should be at the users selected pressure level. For example 3.0 BAR (44 PSI).
- **Test criteria:** When the 30 minutes cycle is finished, verify the maximum pressure reached: It must be between 5.8 and 7.5 BAR (84 and 108 PSI).
- Push main switch OFF and then progressively open the water outlet.
- Attention! Do not open the safety top lid before the pressure is completely released. It should not be possible. Open the top lid.

- With proper hand protection, carefully remove the stainless case with the thermometer inside (caution it's hot). Let the stainless case cool down (for about 15 minutes). The OPVAL thermometer is a Maximum registering thermometer that will maintain the registered temperature even if it cools down. Open the stainless case and read the thermometer: it must be at least 118°C (244°F). As an example, it could be at 132°C (270°F).
- When in doubt that unit does not reach expected temperature, test can be performed at will. Otherwise perform yearly. Document each time the test is performed.

The inspection validation can be performed in your laboratory using the thermometer OPVAL that Oculo-Plastik, Inc. has validated. The use of a thermometer other than the one Oculo-Plastik, Inc. has validated (OPVAL) does not constitute the yearly inspection valid under our recommendations. A validated OPVAL thermometer can be purchased from Oculo-Plastik, Inc. Item# 128-TC with temperature in Celsius.

For any other repairs or verifications, please contact us. It will be a pleasure to help you.



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