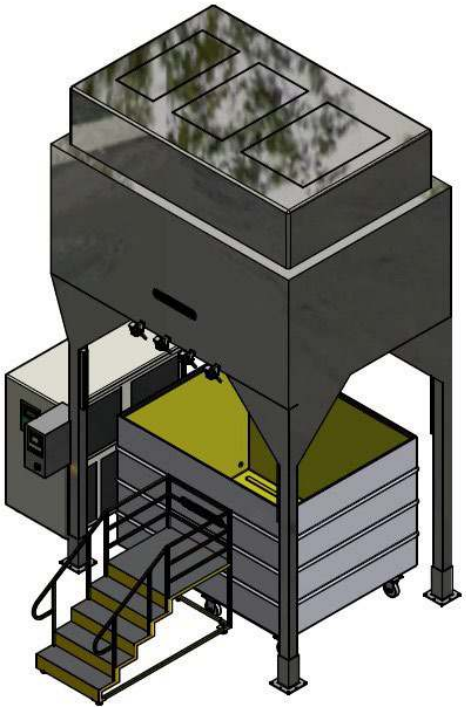
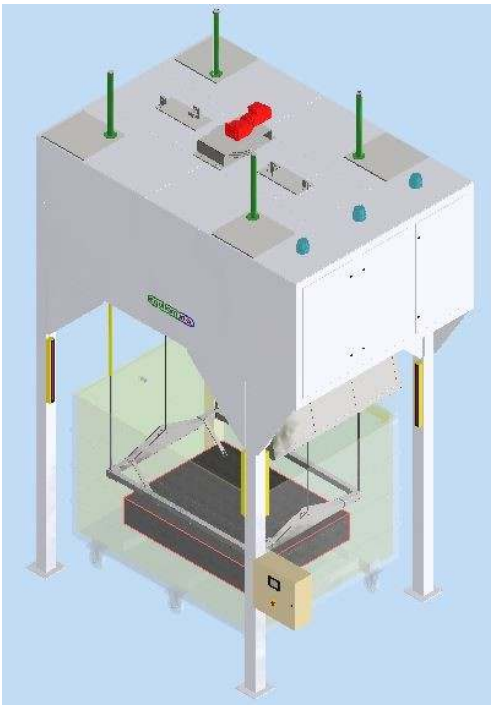
Thermal Shock System for Electric Vehicle Batteries





Method: (Meets ISO 16750-4)

- Test consists of heating the battery, for example to 80°C, controlled by a temperature ramp in one period (hold time) of stabilization.
- Then the battery is automatically moved (transition time is controlled and adjustable) to an immersion tank, where the solution (DEI Water, Salt Solution, or others on request) with adjusted temperature between 1 to 5°C (Set Point).

- The user can select the height of the solution above the battery up to 39.37”(1,000 mm).
- The system is designed to during the immersion period of the heated battery, there are no +/- 2°C variations on the defined temperature value set point of the solution.
- Usually, the immersion tank temperature set point is range from 1 to 5°C.
- Through the touch screen control panel, the user can enter all test control parameters, as well as the number of repetitions of the total cycle.
- All test control parameters can be graphically recorded.

- The thermal shock test chock could cause small cracks or airtight seal in the samples by the expansion and contraction of the materials.

Video link: https://www.youtube.com/shorts/2wWV8ntI158

Test Load:

1,323 lbs (600 Kg) – another consults us.

Max. DUT Dimension W x D X H:

72.44”x 56.69”x 12.99” (1,840 x 1,440 x 330 mm) – another consults us.

Immersion tank built in inert material, highly resistant to high temperatures and salts.

For more details, consult us.

6555 Powerline Road – Suite 405 • Fort Lauderdale, Florida 33309 • Ph.: 754.900.7816

Toll Free: 844-8533458 • www.equilamna.com • sales@equilamna.com