



Acrastyle has been the leading manufacturer of Liquid Neutral Earthing Resistors (LNER) for more than 40 years. It has supplied Neutral Earthing Resistors all over the world to power system utilities including Hong Kong, Singapore and Australia. The design is fully EA tested and approved with thousands in service worldwide.

LNER Design

Our Liquid Neutral Earthing Resistor design has passed rigorous tests, making them suitable for seismically active regions.

The LNERs range from 6.6kV up to and including 33kV with a maximum fault current rating of 2500A.

Acrastyle's LNERs are manufactured to our traditional low maintenance design and comprise a large tank containing an electrolyte solution (distilled water with a small amount of electrolytic powder). The outer case of the LNER is connected solidly to the earth point. An inner electrode which is insulated from the LNER, is the HV connection to the transformer or generator star point. At commissioning, small amounts of electrolyte are added to the water to increase the conductivity of the solution until it reaches the calibrated resistance level.

The final result is a high current carrying capacity fluid with a high resistance, in a very robust and low maintenance product.

Our LNERs can be completely custom designed to fit into any site location or replace any existing legacy LNER with the minimum of site disturbance.

Acrastyle's Neutral Earthing Resistors are made from stainless steel and can be supplied in a natural stainless steel finish or painted. Many have achieved 30 and 40 years plus of continuous service.

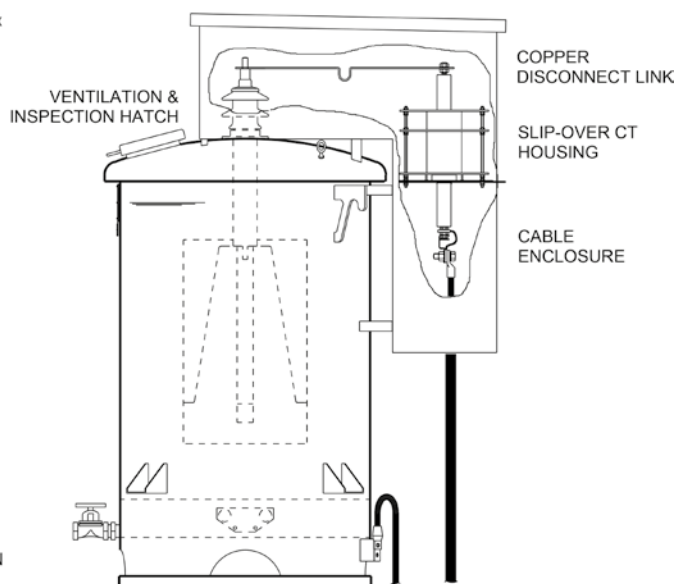
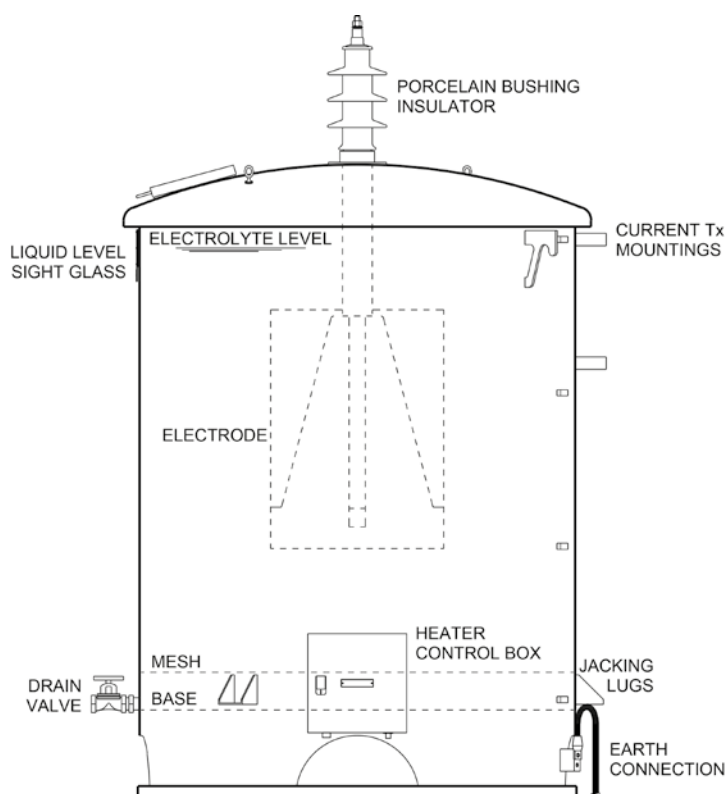
*“...a very robust and
low maintenance product.”*

Liquid Neutral Earthing Resistors

Key Features

- Thermostatically controlled anti-frost heating systems
- Condensation traps to return evaporate to the LNER
- Fluid level detection and low level alarm devices
- Inspection hatches for ease of maintenance
- CT housings and Current Transformers for earth fault protection devices
- Direct overhead line or underground cable connection options
- Lifting hooks and jacking lugs.
- Drain valve

Two typical LNERs – A 1750mm ϕ LNER suited to an overhead connection, rated at 33kV 750A & a 1016mm ϕ LNER with underground cable connection, rated at 11kV 600A



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