

RY1

Test Cell for liquid Insulants



The precision test cell type **RY1** measures the dielectric properties of liquid insulants such as insulating oil, i.e. it determines the dissipation factor $\tan\delta$ and the dielectric constant ϵ_r as well as the specific resistivity.

The test cell has been designed as a cylindrical capacitor with a shielded measuring electrode (guard ring capacitor) thus avoiding partial capacitances, which might influence the test results.

The test cell's design is in accordance with the specifications of VDE 0303, 0370 (Fed. Republic of Germany), SEV (Switzerland) and the recommendations of CIGRE, IEC and ISO, as well as with ASTM standards (USA).

The temperature controller type SG121 with digital temperature adjustment is used to heat up the test cell.



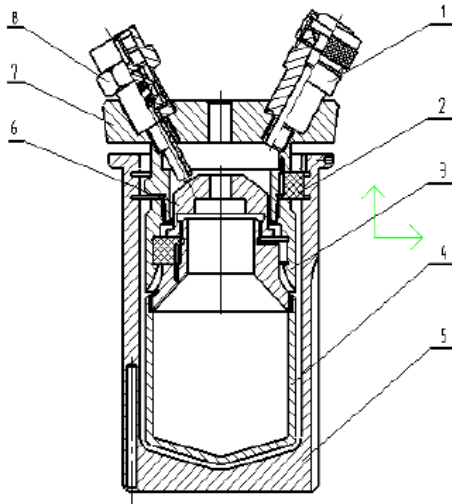
Advantages & Benefits

- _ The test cell is in accordance with international standards and specifications.
- _ The temperature is adjustable up to 200°C
- _ The cell can be evacuated, e.g. to degas the insulating oil.
- _ The electrodes are made of stainless steel.
- _ The test results are reproducible thanks to precise mechanical design.

Technical Specifications

No-load capacitance	60 pF
Electrode spacing	2mm
Amount of liquid	40 cm ³
Electrode material	stainless steel
Surface	micro finished
Electrode temperature	ambient temperature .. 200°C
Heating capacity	heating 1000W
Heat-up time	60 min
Built-in fuses	4A
Max. Test voltage	2000 V RMS, 50/60 Hz
Max. Electric field	10 kV/cm
Dimensions	240mm×220mm
Weight	10 kg

Technical Specifications of test set



Legend

1	Vacuum connection
2	insulating layer
3	Guard electrodes
4	Measuring electrode
5	high-voltage electrode
6	Securing nut
7	Installs body
8	Connecting for measuring electrode

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