



## DTS Series Oil Dielectric Test Set

0 - 100 kV Oil Dielectric Test Set

The **DTS-100D** and **DTS-100DF** are CE Marked liquid dielectric test sets, typically used for testing the breakdown voltage level of insulating oils, hydraulic oils, and other dielectric fluids per the most common world standards including **ASTM D-877**, **ASTM D1816**, and **IEC 156**. Three user-selectable automatic voltage rates-of-rise, and automatic voltage shutdown with the meter indicating the breakdown voltage of the insulating liquid under test. Its durable aluminum construction, small footprint, a removable oil drip tray and rugged design make our DTS series ideal for field, factory, or laboratory use.

- Three motorized rates of rise: 500V/2000V/3000V per second
- Arc detection with automatic shutdown and failure indicator
- Window panel for test observation
- Accessory outlet located within test chamber
- One-piece portable design
- Zero Start safety and test chamber interlock provision

Model	DTS-100D/DTS-100DF
Input:	120 Vac, 60hz, 7A (DTS-100D) 230 Vac, 50/60hz, 3A (DTS-100DF)
Output:	0-100 kVac, 800 VA resistive load
Meter Accuracy	+/- 2% of full scale
Optional Test Cells (Sold Separately)	TCD-N3 for ASTM D877, TCD-N5 for ASTM D1816, TCD-NI2 for IEC 156
Operating Temperature	14° to 104° F, -10° to 40° C
Size and Weight	18.5 x 16.5 x 16.5 in., 100lb 470 x 419 x 419 mm, 45kg
Output Termination	Dual high voltage sections with brass corona spheres in test chamber

### Test Cells

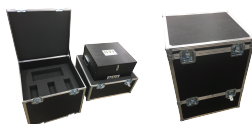
**TCD-N3** – For ASTM D877, flat disc electrodes, 625mL sample size, 0.100-inch gap adjustment gauge

**TCD-N5** – For ASTM D1816, spherical electrodes, 625mL sample size, 0.100, 0.080, and 0.040-inch gap adjustment gauges, includes motorized stirring assembly

**TCD-NI2** – For IEC 156, spherical electrodes, 625mL sample size, 0.100, 0.080, and 0.040-inch gap adjustment gauges,

### Optional Accessories

PN 32-0391 Reusable  
Shipping Container



## DTS-100D DTS-100DF

0 - 100 kV AC, 800 VA



TCD-N5

TCD-NI2



TCD-N3