# VACUUM DISCHARGE TESTER

# DAC-VD-1

This tester can locate damages or defects like scars and pinholes on stator coils and wires visibly by applying testing voltages in a vacuum chamber. An unintended electric arcing should occur if any damages on the specimens. Comparing with conventional breakdown tests and impulse tests, this vacuum discharge tester facilitates detection of elements such as the positions of scratches on winding materials formed during manufacturing.

## Test Materials

**Stator coils and wires**

- Thickness :35～85mm
- Outer diameter :φ160
- Lead length :200mm, approx.
- Weight :10kg or less

Controller

## Composed of DAC-VD-1

- **Vacuum chamber (acrylic) and controller**
  - Material: Acrylic resin
  - Vacuum pressure: - 760 mmHg (-101 kPa)
  - Chamber volume: Approximately 12 liters
  - Dimensions/weight: W430 × H400 × D500 (mm), Approximately 60 kg

- **Withstanding Tester DAC-WT-25DM**
  - Applied voltage: 0 - 2000 V
  - Transformer: 100 VA
  - Power Supply AC100V* 50/60Hz
  - Dimensions/weight: W430 × H149 × D300 (mm), Approximately 6 kg

- **Vacuum pump (DA-121D, manufactured by ULVAC)**
  - Exhaust speed: 120 L/min
  - Ultimate pressure: 3.32 × $10^3$ Pa
  - Power supply : AC100V* 50Hz 6A
  - Dimensions/weight: W189 × H303.5 × D411 (mm) Approximately 28 kg

(* Please specify your test voltage for other than AC100V)

Vacuum pump Type DA-121D

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