

2. Description

Secondary coil for transformer core D, generating high voltages which can cause spark discharges between two shielded horn electrodes.

Coils are made of impact-resistant plastic, safe to touch. Number of turns, maximum current for long-term operation, effective resistance and inductance are specified on the case of the coil.

Ionisation leads to the formation of a gas discharge arc between the V-shaped pair of horn electrodes the consequential rise in air temperature causes the arc to drift upward. The arc is eventually broken but then forms again where the gap is smallest. While the arc is burning, the voltage drops to a minimum value. Consequently, further ignition is only possible after the arc has extinguished again.

The electrode spacing can be finely adjusted to the optimal value by means of an adjustment lever.

2.1 Accessories

Transformer Core D	U8497180
Mains coil with connecting lead	U8497420-115
or	
Mains coil with connecting lead	U8497420-230

3. Scope of delivery

- 1 High voltage coil
- 2 2 Horn shaped electrodes

4. Technical data

Number of turns:	24000
Open-circuit voltage:	9200 V approx.
Resistance:	10 k Ω
Max. current:	0.02 A
Inductance:	28 H
Maximum operating time:	1 minute
Minimum cooling phase:	5 minutes
Dimensions:	90 x 70 x 350 mm ³
Weight:	550 g approx.

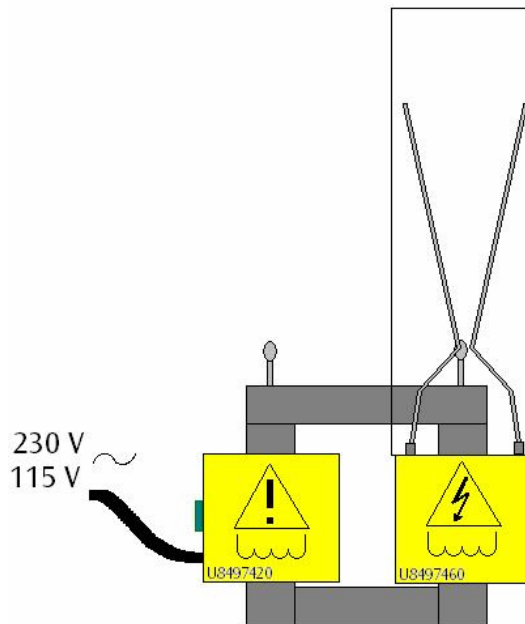


Fig.1 Experimental set-up