HAEFELY

Current and voltage – our passion

9230

High Voltage capacitors for Partial Discharge or AC measurement

■ The capacitor is of sturdy and rugged design for indoor operation. Insulation system is oil filled reinforced epoxy fiberglass tube and the main applications are:

- Decoupling of a Partial Discharge signal from Device under Test. (together with an optional measuring impedance)
- Measuring AC voltages in the industrial frequency range. (together with an optional secondary Unit)
- Attenuating interferences coming from the HV side and improving Signal to Noise Ratio of the PD measuring circuit (together with an optional HV filter)

The standard design includes a base frame with swivel castors for mobility and an appropriate upper toroid



FEATURES

- ☑ High stability in capacitance values
- ☑ Large base frame with heavy duty swivel casters
- ☑ PD free (< 1 pC)
- ☑ Partial Discharge test ready (base prepared to add measuring impedance).
- ☑ Secondary Unit for AC measurement optional.

BENEFITS

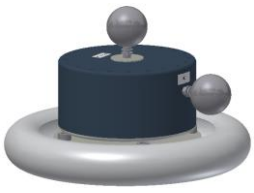
Save room in the HV laboratory – With our compact all in one solution, High Voltage capacitor, measuring impedance (optional), secondary unit (optional) High Voltage filter (optional) in one single unit, the number of necessary devices for performing a test are drastically reduced.

Highest accuracy results – Large measurement frequency bandwidth, high stability in capacitance values with frequency and temperature guarantee a consistent and reliable measurement.

Increase your sensitivity – With the optional HV filter, interferences from the HV power supply are sufficiently suppressed and Signal to Noise Ratio of the test circuit is improved.

HIGH VOLTAGE FILTER (OPTIONAL)

A half-T filter incorporated with the high voltage electrode not only attenuates any interference from the power supply, but also improves Signal to Noise Ratio of the PD measuring circuit. The filter is protected from overvoltage by a mechanical spark-gap.



Up to 100 kV



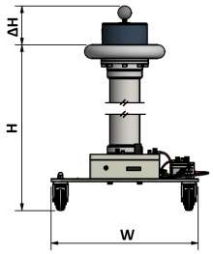
200 kV

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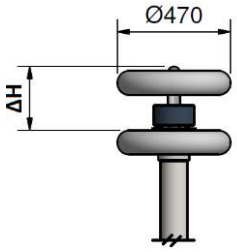
TECHNICAL SPECIFICATIONS HIGH VOLTAGE CAPACITORS

Type 9230	Voltage (kV)	Capacity (nF)	PD Level at U_n (pC)	Height H (mm)	Width W (mm)	Weight (kg)
9230/25/1	25	1	≤ 1	650	550	21.6
9230/50/1	50	1	≤ 1	650	550	21.6
9230/100/1	100	1	≤ 1	950	550	25.6
9230/100/10	100	10	≤ 1	1520	550	34.0
9230/200/1	200	1	≤ 1	1520	550	35.0

Operating temperature: -5°C … +45 °C **Storage temperature:** -20 °C … +50 °C



9230/25/1 to 9230/100/1



HV Filter detail - 9230/200/1

HIGH VOLTAGE FILTER (OPTIONAL)

High Voltage filter	Max. Current (A)	Inductance (mH)	Typical attenuation (1 nF load; 40 – 1000 kHz) (dB)	Height increasing[1)] ΔH (mm)	Weight Increasing[1)] (kg)
9230/HVFIL-2A (≤ 100 kV)	2	110	30	145	5.2
9230/HVFIL-2A (200 kV)	2	110	30	265	7.6

[1)] This height and weight must be added to the 9230 capacitors to calculate the total device weight and height with HV filter.

SCOPE OF SUPPLY

- High Voltage coupling capacitor with base frame and wheels, Test certificate.

OPTIONS

- 9230/AKV9310T Measuring impedance for DDX 9121b
- 9230/AQS9110a Measuring impedance for DDX 9101
- 9230/SEK-AC Secondary unit for AC measurement
- 9230/HVFIL-2A High Voltage filter 2 A

ACCESORIES

- BNCTwin/20 BNC twin cable (2 x BNC) 50 Ohm, 20 m.
- BNCTwin/40 BNC twin cable (2 x BNC) 50 Ohm, 40 m.