

**HZQW-10KVA/50KV**  
**PD Free High Voltage Testing System**

**Technical Solution**





## **2. HZXC-10KVA/220V Controller**

1. Capacitance: 10KVA
2. Input Voltage: 220V
3. Input Current: 45.4A
4. Output Voltage: 0-250V adjustable
5. Working Environment: Temperature: 0°C~40°C
6. Relative Humidity: <85%
7. Dimension: 560×440×300mm
8. Weight: 50Kg



### **3. Isolating Transformer : 10KVA, 1 set**

The main structure is the isolation transformer and the wave separation device, which can effectively eliminate all kinds of interference and interference in the power supply.

Input Voltage : 220V  $\pm$  10%      Output Voltage: 220V  $\pm$  10%

Rated Capacity: 10KVA      No Load Loss  $\leq$  5%

Impedance Voltage  $\leq$  5%      Weight: 30Kg

Attenuation: 10KHZ-100KHZ  $\geq$  20db

100KHZ-30MKZ  $\geq$  50db

Dimension: L 450mm\* W 400mm\* H 550mm



#### **4. Coupling Capacitor 1set**

H. 800mm, Weight 15Kg

1 apical ring Capacitance: 500PF

PDAmount  $\leq$  5PC Voltage: 50kV



#### **5. 50KV/8K Protective Resistor**

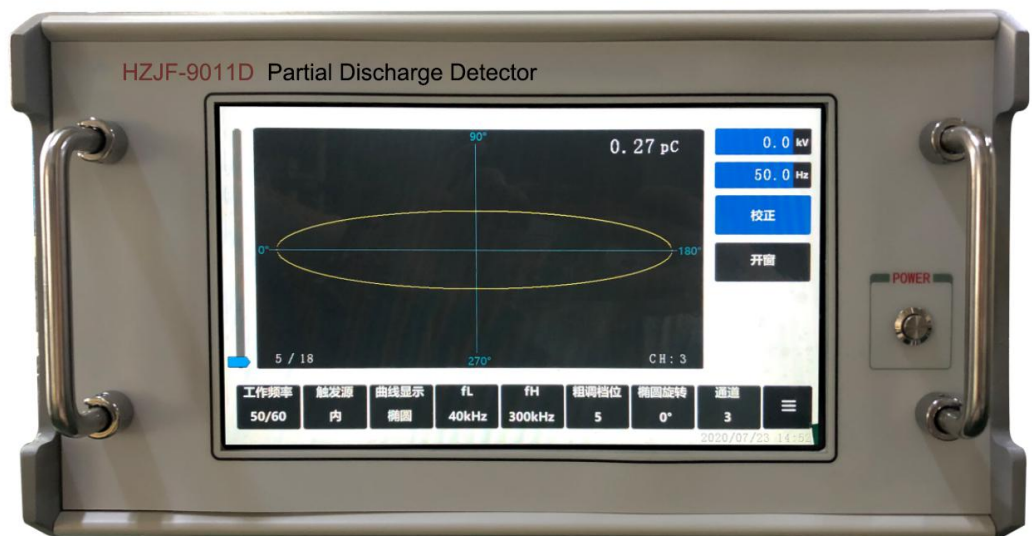
Dimension: Diameter 50mm\* Length 500mm

Weight: 3kg

Equipped with test connection line, shielding cover, shielding line, etc



## 6. HZJF-9011D PARTIAL DISCHARGE DETECTOR



## 2、 Main Technical Indicators

1. The equivalent capacitance ranges from 6pF to 250  $\mu$  F
2. Number of channels: single channel
3. Measurement range: 0.1pc-10000nc
4. Detection sensitivity and allowable current (see Table 1)

NO.	Tuning Capacitance Range	Sensitivity (PC) (Unbalanced Circuit)	Effective Value Of Allowable Current	
			Unbalanced Circuit	Balance Circuit
1	0 ~ 25 ~ 100pF	0.02	30mA	0.25A
2	25 ~ 100 ~ 400pF	0.04	50mA	0.5A
3	100 ~ 400 ~ 1500pF	0.06	120mA	1A
4	400 ~ 1500 ~ 6000pF	0.1	0.25A	2A
5	1500 ~ 6000 ~ 25000pF	0.2	0.5A	4A
6	0.006 ~ 0.025 ~ 0.1 $\mu$ F	0.3	1A	8A
7	0.025 ~ 0.1 ~ 0.4 $\mu$ F	0.5	2A	15A
8	0.1 ~ 0.4 ~ 1.5 $\mu$ F	1	4A	30A
9	0.4 ~ 1.5 ~ 6.0 $\mu$ F	1.5	8A	60A
10	1.5 ~ 6.0 ~ 25 $\mu$ F	2.5	15A	120A
11	6.0 ~ 25 ~ 60 $\mu$ F	5	25A	200A
12	25 ~ 60 ~ 250 $\mu$ F	10	50A	300A
7R	Resistance	0.5	2A	15A

Table 1. Detection sensitivity and allowable current value of input unit

### 5. Elliptic scan time base

- (1) Frequency 50/60, 100, 150, 200, 400Hz
- (2) Rotation: 30 ° as the first gear, and can rotate 120 °
- (3) Working method: ellipse sine wave straight line

### 6. Display unit

10.1 inch capacitive touch screen is used.

### 7. Amplifier

- (1) 3dB low frequency fl:10, 20, 40KHz optional

(2) 3dB high frequency  $f_h$ : 80, 200, 300kHz optional

(3) Gain adjustment, rough adjustment 6, inter gear gain difference  $20 \pm 1$ dB, fine adjustment range  $>20$ db

(4) Asymmetry of positive and negative pulse response  $< 1$ dB

#### 8. Time window

(1) Window width: adjustable,  $5^\circ \sim 170^\circ$  at 50Hz

(2) Window position: each window can rotate  $0^\circ \sim 170^\circ$

(3) Two time windows can be opened separately or simultaneously.

#### 9. Peak pulse display

The touch screen displays 1 decimal place (10pc or more), 2 decimal places (less than 10pc), error:  $\pm 3\%$  (in full scale)

#### 10. Test voltage display

(1) Range 150kV

(2) Input impedance:  $>1\text{m } \Omega$

(3) Display: touch screen display, display 1 decimal place

(4) Error:  $\pm 1\%$

#### 11. Test frequency display

Error: less than  $\pm 1\%$

#### 12. Zero standard system

Zero sign is consistent with all ellipse scanning frequencies

#### 13. Structure

(1) Dimensions: 370mm (width), 460mm (depth), 215mm (height)

(2) Weight: about 12.5kg