

# CBC-50C & CBC-100C



## Automatic Electrical Protective Equipment Test System

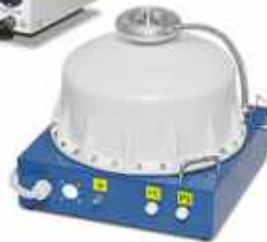


Test bath CBC-50C (CBC-100C\*)

Measurement unit (MU)



Control unit (CU)



High voltage unit (HVU)

Automatic CBC-C series systems are designed for high-voltage withstand testing of electrical protective equipment such as gloves & boots and insulated hand tools, typically used in high voltage electrical environment.

The testing is carried out with an AC voltage up to  $50 \text{ kV}_{\text{RMS}}$  (up to  $100 \text{ kV}_{\text{RMS}}$  for CBC-100C) at industrial frequency ( $f = 50 \text{ Hz}$ ).

**Note:** For CBC-100C, 2 high voltage units (HVU) are provided, the second being a high voltage unit extension (HVUE).

### Versatility :

CBC-C series systems are supplied with a range of holders allowing to test a wide range of objects, including:

- Rubber insulating gloves and dielectric safety boots
- Hand tools with electrical insulation
- Voltage indicators
- Discharge rods
- Insulating mats
- 4 test objects can be tested simultaneously



### Automation :

CBC-C series systems are able to operate in a fully automatic mode – Apply, stabilise and control the output voltage according to the pre-set parameters, as well as fill and drain the test bath using electric pump as part of the test cycle.

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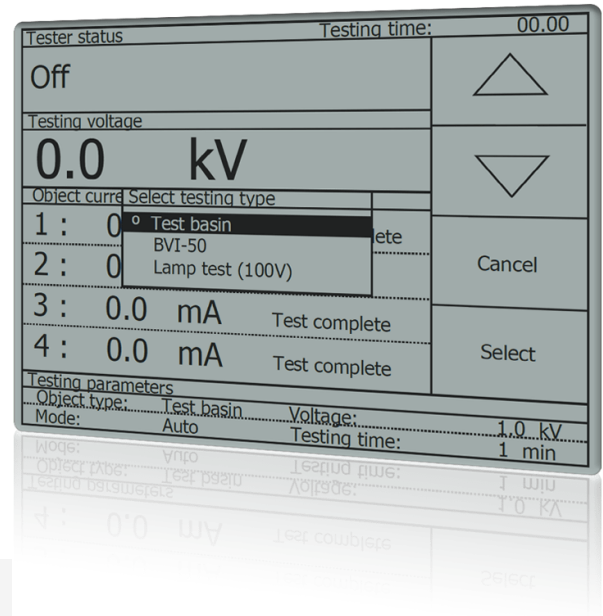
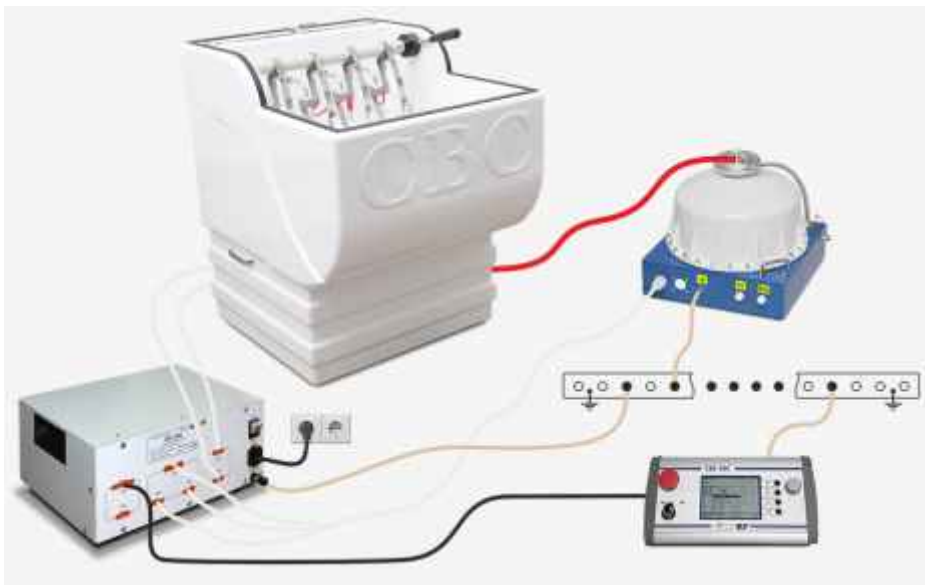


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### Digital Control :

The CBC-C series testers provides five pre-set output voltage levels, as well as one user-defined one.

- Test duration is set and monitored via a built-in timer.
- Leakage current is displayed throughout the entire test cycle.
- Upon detecting a breakdown, the system indicates the specific glove the breakdown has occurred in and automatically terminates the test.



### Multi-Module Design :

The system comprises of control, high-voltage and measurement units, as well as a separate test bath. Such multi-module design allows an operator to remain at a safe distance away from high-voltage circuit and the test bath.



### Safety :

CBC systems of C series include the following operational safety measures:

- Overcurrent protection.
- Short-circuiter on the high-voltage outlet.
- Protective earthing.
- Fuses.
- Sulphur hexafluoride gas pressure monitoring in the high-voltage unit (units).
- Emergency stop button.

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### Specifications :

		CBC-50C	CBC-100C
Test modes and parameters	"Neon lamp, 100 V"	20 ... 100 VRMS	
	"Test bath, 15kV"	1 ... 15 kVRMS	
	"BVI-50"	10 ... 50 kVRMS	
	"BVI-100"	-	10 ... 100 kVRMS
	Leakage current threshold	7.6 mA	10 mA
	Number of simultaneously testable objects	up to 4	
	Relative voltage and leakage current indication error	± 3 %	
Safety	Grounding	<ul style="list-style-type: none"> <li>Protective earthing</li> <li>Operating grounding</li> <li>Automatic grounding bar</li> </ul>	
	Protection	<ul style="list-style-type: none"> <li>Overcurrent</li> <li>Thermal overload warning</li> <li>Low internal gas pressure warning</li> </ul>	
	High voltage presence signalling	<ul style="list-style-type: none"> <li>Light signalling</li> </ul>	
	High voltage switch off	<ul style="list-style-type: none"> <li>EMERGENCY STOP button</li> <li>Power keylock switch</li> <li>Safety interlock</li> </ul>	
Power supply and consumption	Protection	230 VAC, ± 10 %	
	Mains supply frequency	50 Hz (60 Hz option)	
	Power consumption	up to 0.9 kV•A	up to 1.5 kV•A
Physical	Control unit dimensions, H × W × D	97 × 344 × 193 mm	
	Control unit weight		
	High-voltage unit dimensions, H × W × D	334 × 364 × 381 mm	
	High-voltage unit weight	26.5 kg	26.5 kg × 2
	Measurements unit dimensions, H × W × D	175 × 368 × 254 mm	
	Measurements unit weight		
	Bath dimensions, H × W × D	900 × 700 × 820 mm	
Bath weight (with accessories, empty)			



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