

CBC-50M & CBC-100M

High-Voltage Glove & Boot Test System



Test basin CBC-50M (CBC-100M*)

CBC-M series High voltage glove & boot testing equipment is designed for testing personal protective equipment (PPE) typically used in high voltage application for the insulation properties of insulating rods, rubber boots, gloves, electrical & Insulated hand tools. Withstand tests are carried out with an AC voltage upto 50kV_{RMS} for CBC-50M & upto $100\text{kV}_{\text{RMS}}$ for CBC-100M.



High voltage unit (HVU)

Control unit (CU)

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

Split-Unit Design :

The system is composed of a control unit, test bath and a high-voltage unit (two for CBC-100M). The test procedure is controlled from the control unit, which may be positioned at a safe distance away from high-voltage source and the test bath, ensuring operator safety.



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Easy And Convenient Control :

- Four pre-set output voltage levels.
- 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 for which breakdown has occurred in and automatically terminates the test.



Versatility :

CBC-M series systems include a variety of holders and adaptors allowing to test a wide range of the objects:

- Rubber insulating gloves and dielectric safety boots
- Hand tools with electrical insulation
- Voltage detectors and indicators
- Discharge rods
- Insulating mats



Safety :

CBC-M series systems include the following operational safety measures:

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

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Specifications :

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Test modes and parameters	"100 V"	Output voltage adjustment and indication range	10 ... 100 V _{RMS}	
		Number of simultaneously testable objects	1	
	"3 kV"	Output voltage adjustment and indication range	0.3 ... 3 kV _{RMS}	
		Leakage current threshold	7.6 mA	
		Number of simultaneously testable objects	up to 4	
	"15 kV"	Output voltage adjustment and indication range	up to 4	
		Leakage current threshold	1.5 ... 15 kV _{RMS}	
		Number of simultaneously testable objects	7.6 mA	
	"100 kV"	Output voltage adjustment and indication range	5 ... 50 kV _{RMS}	-
		Leakage current threshold	10 mA	-
		Number of simultaneously testable objects	1	-
	"100 kV"	Output voltage adjustment and indication range	-	10 ... 100 kV _{RMS}
		Leakage current threshold	-	10 mA
		Number of simultaneously testable objects	-	1
Relative voltage and leakage current indication error		± 3 %		
Safety	Grounding		• Protective earthing • Operating grounding • Automatic grounding bar	
	Protection		• Overcurrent • Thermal overload warning • Low internal gas pressure warning	
	High voltage presence signalling		• Light signalling	
	High voltage switch off		• EMERGENCY STOP button • Power keylock switch	
Power supply and consumption	Mains supply voltage		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		194 × 313 × 328 mm	
	Control unit weight		13.3 kg	
	High-voltage unit dimensions, H × W × D		334 × 364 × 381 mm	
	High-voltage unit weight		26.5 kg	26.5 kg × 2
	Bath dimensions, H × W × D		660 × 845 × 400 mm	
	Bath weight (with accessories, empty)		19 kg	



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Quality
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