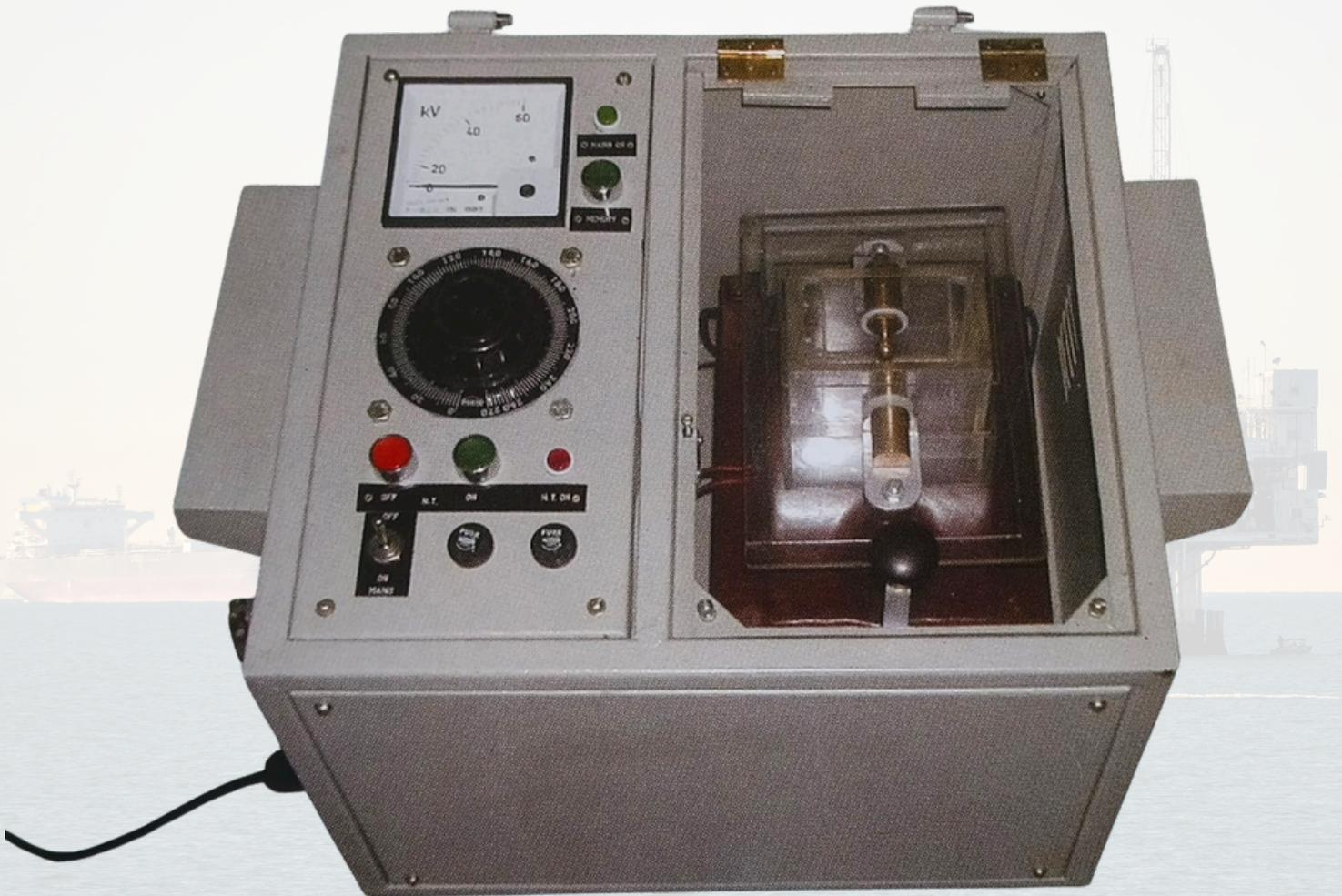




OIL TEST SET

7000 SERIES

IDEAL FOR SPEEDY AND ACCURATE TESTING OF BREAKDOWN/WITHSTAND TEST OF TRANSFORMER AND CIRCUIT BREAKER OIL, IN ACCORDANCE WITH IS 6792 : 1992 FOR OIL TESTING.





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MODEL NO.

Motor Operated	Manual Operated	Output Voltage (AC Volts)	Capacity	Input	Duty
CIE /7050 MOT	CIE /7050	0 – 50 KV	500 VA	230 V ±10%	Intermittent
CIE /7060 MOT	CIE /7060	0 – 60 KV	600 VA	50Hz,	1 phase AC
CIE /7070 MOT	CIE /7070	0 – 70 KV	700 VA		
CIE /7090 MOT	CIE /7090	0 – 90 KV	900 VA		
CIE /7100 MOT	CIE /7100	0 – 100 KV	1000 VA		
CIE /7120 MOT	CIE /7120	0 – 120 KV	1200 VA		

**** CONTINUOUSLY VARIABLE WITH CENTRE POINT OF H.V. WINDING GROUNDED.**

SPECIAL FEATURES

- Mains ON/OFF switch
- Neon Lamps to indicate L.T. ON & H.T. ON
- Automatic smooth & continuous variation of output voltage
- Zero start inter locking
- H.T. chamber door interlocking
- Overvoltage indication
- Lamp to indicate "Regulator not at zero" for Motorised Set
- Memory device with push button switch to show the break down voltage
- 96 sq.mm. AC moving iron type voltmeter connected to the L.T. side and scaled in KV
- Provided with Test Vessel (Oil Cell) made from non-absorbent insulating material fitted with two brass spheres of diameter between 12.5 to 13mm, placed at a distance of 4mm or 2.5mm. A gauge is provided along with the cell to adjust the gap.



OIL TEST SET

7000 SERIES

THIS SET IS USEFUL FOR TESTING DIELECTRIC STRENGTH OF THE INSULATING OILS NORMALLY USED FOR THE DISTRIBUTION AND HIGH VOLTAGE TRANSFORMERS.

INPUT :230 V \pm 10%, 50HZ, 1 PHASE AC

MODEL NO. TECHNICAL FEATURES

MODEL NO. (Motor)	MODEL NO. (Manual)	Output Voltage (AC Volts)	Capacity	Input	Duty
CIE /7050 MOT	CIE /7050	0 – 50 KV	500 VA	230 V \pm 10%, 50Hz, 1 phase	Intermittent
CIE /7060 MOT	CIE /7060	0 – 60 KV	600 VA		
CIE /7070 MOT	CIE /7070	0 – 70 KV	700 VA		
CIE /7090 MOT	CIE /7090	0 – 90 KV	900 VA		
CIE /7100 MOT	CIE /7100	0 – 100 KV	1000 VA		
CIE /7120 MOT	CIE /7120	0 – 120 KV	1200 VA		

* WITH CENTRE POINT OF H.V. WINDING GROUNDED.

GENERAL ARRANGEMENT

The set will be consisting of the following: H.T. Transformer, Control Circuit, Test Cell with electrode, gauge and supply input cable of at least 2 metres length with 3 pin plug. The set in single unit. Instruction manual with circuit diagram will be supplied along with the set.

H.V. TRANSFORMER

H.V. Transformer used in the Test set is cast resin type. The H.V. winding of the high voltage testing transformer is of graded insulation with centre point of H.V. winding grounded. This testing transformer is specially designed to withstand frequent sparkover or momentary short circuit conditions under which such testing transformers are supposed to operate.



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PROTECTION

Beside main switch and fuse in the input side, one "ON" and one "OFF" push button switch along with C.T. and contactor provides a snap acting automatic tripping of H.V. circuit in case of overload or breakdown of oil sample under test.

OVERVOLTAGE INDICATION

Over voltage indication lamp and alarm is provided for both manually and motor operated sets. For motorised sets, overvoltage protection is provided.

METERING

96 sq.mm. AC moving iron type voltmeter connected to the L.T. side and scaled in KV.

MODE OF OPERATION

Sets will be available either in manual or in motor operated mode. In motor operated sets, the regulators are adjusted at approximately 2KV/sec rate of rotation.

TEST VESSEL

The Test Vessel (Oil Cell) fitted with two brass spheres of diameter between 12.5 to 13mm, placed at a distance of 4mm or 2.5mm. The test vessel made from non-absorbent insulating material. Gap of the spheres can be adjusted by adjusting one sphere while the other being fixed. Dimensions are generally as per IS 6792 : 1992. A gauge is provided along with the cell to adjust the gap.

TEST SET HOUSING

The set is in trolley type. All the components are housed within M.S. cabinet provided with wheels and handles for easy movement. A transparent cutout with suitable interlocking device is provided for covering the H.T. side. The set will not get energised unless this H.T. end is covered. The oil cell is to be placed between the H.V. terminals.

For 50kV to 80kV manually/motor operated sets, a M.S. hinged lid will be provided.



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FEATURES THAT CAN BE PROVIDED AT EXTRA COST:

- Tripping set other than standard setting
- Digital Metering

SAFETY MEASURES

- Zero start interlocking is provided to ensure that the H.V. circuit cannot be energised unless the regulating transformer is at zero position or brought back to zero position after each test.
- A transparent cutout with suitable interlocking device is provided for covering the H.T. side. The set will not get energised unless this H.T. end is covered.

MEMORY SWITCH

Memory device along with push button switch enables the test set meter to show the breakdown voltage by pressing the memory switch even after the high voltage circuit is tripped off.

'CIE' in a continuing effort to offer excellent products at a fair value, reserves the right to change models, specifications.

CAMBRIDGE INSTRUMENTS & ENGINEERING CO.

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