

AS ELECTROTECH

Kolkata

OIL TEST SET AS PER IS 6792 : 1992 4000 Series



RANGE: 50 K.V. & 60 K.V.



RANGE: 50 K.V. TO 80 K.V.



ABOVE 80 K.V. UP TO 120 K.V.

MODEL NO.		Output Voltage (AC Volts)**	Capacity	input	Duty
MOTOR OPERATED	MANUAL OPERATED				
E.T. 4050 MOT	E.T. 4050 MN	0 -50 KV	500 VA	230V +_ 10% 50Hz, 1 Phase AC	Intermittent (i.e. : 1 Minute withstand Test or Momentary Breakdown Test)
E.T. 4060 MOT	E.T. 4060 MN	0 -60 KV	600 VA		
E.T. 4070 MOT	E.T. 4070 MN	0 -70 KV	700 VA		
E.T. 4090 MOT	E.T. 4090 MN	0 -90 KV	900 VA		
E.T. 4100 MOT	E.T. 4100 MN	0 -100 KV	1000 VA		
E.T. 4120 MOT	E.T. 4120 MN	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 ● Autotransformer for smooth & continuous Variation of output voltage ● Zero start inter Locking ● HT 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. ● 96sq. 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.

AS ELECTROTECH *Test Equipments For Quality, Accuracy & Reliability*

OIL TEST SET

AS PER IS 6792 : 1992 **4000 Series**

A.S.Electro-Tech Make **oil test set** is ideal for speedy & accurate testing of breakdown/withstand test of transformer and circuit breaker oil, in accordance with IS 6792 : 1992 for oil testing

TECHNICAL FEATURES :

Input :

230V. \pm 10%, 50Hz, 1Phase, AC

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E.T. 4100 MOT	E.T. 4100 MN	0 -100 KV	1000 VA		
E.T. 4120 MOT	E.T. 4120 MN	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, guage and supply input cable of at least 2 metres length with 3 pin plug. The Set is 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 double wound Resin-Cast High Voltage Transformer. The H.V. winding of the high voltage testing transformer is of graded insulation with center point of H.V. winding grounded. This testing transformer is specially designed to withstand frequent spark over or momentary short circuit conditions under which such testing transformers are supposed to operate.

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 motor operated Sets.

Overvoltage protection : For motorised sets, overvoltage protection is provided

Metering : 96sq. 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 rise of voltage

Test Cell : 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 single unit. All the components are housed within a nicely painted M.S. cabinet provided with wheels, M.S. buffer and handles fore easy movement. A transparent cutout with suitable interlocking devices 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.

Features that can be provided at extra cost :

Tripping Set other than standard setting.

Digital Metering

Safely 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.

A.S. Electro-Tech in a continuing effort to offer excellent products at a fair value, reserves the right to change models, specification

Manufactured & Designed by :

AS ELECTROTECH