

digiFLAME II™ (With Fume Hood)
(Digital Flammability Tester)

INTRODUCTION

In **digiFLAME II™** the 45° flammability tester is supplied with a specially designed fume hood for safety. In **digiFLAME** the Fabric is kept at 45 degree Angle in a specimen holder rack. It is then exposed to the Flame of specified length 90° from specimen for 1 Second, and is left for burning. The time taken to burn the Fabric is automatically recorded on DIGITAL Timer. After this the grading of the Fabric for Flammability is done as per the Standards i.e. ASTM D1230 or other.

During the flammability test, the fumes coming out from the **digiFLAME II™** will be exhausted through the fume hood placed on the table.

Dessicator is also provided with this instrument to make sample moisture free.

EQUIPMENT

Paramount **digiFLAME II™** is completely made of STAINLESS with a fine Acrylic door, which opens upwards except the fume hood. The PANEL housing all the controls is at Lower Front portion of the Unit.

Paramount **fume hood** is made of M.S with a fine Glass door, which opens upwards. The PANEL housing all the controls is at Lower Front portion of the Unit.

SALIENT FEATURES

- Specialized equipment to determine flammability of the fabrics.
- Latest ergonomically design with modern aesthetics.
- With special fume hood to exhaust fume generated during testing.
- With fine gas control system to regulate the flame length.
- Movable sample mounting system to adjust the sample as per standards.
- With specially designed digital resettable timer.
- The equipment adheres to C.E specifications for safety.
- Supplied with all accessories including brushing device for raised fibre fabrics.
- Supplied with inspection & calibration certificate.

digiFLAME II™ (With Fume Hood) is supplied complete with below accessories.

Main Unit	: 01 No.
S.S. Brushing Device Unit	: 01 No.
Fume Hood	: 01 No.
Table for placing Fume Hood	: 01 No.
Dessicator	: 01 No.
Empty Cylinder	: 01 No.
Gas Regulator	: 01 No.
Fine Cutting Scissors	: 01 No.
Marking Pen (For Specimen Template)	: 01 No.
S.S. Specimen Holders	: 05 Set.
Dead Weight for Hanging	: 01 No.
Gas Pipe for Cylinder (1.5 Meter)	: 01 No.
Multi-Purpose Gauge to measure flame (S.S)	: 01 No.
S.S. Clamps for fixing gas pipe	: 02 Nos.
Clamps for holding the specimen	: 10 Nos.
Clamps for Brushing Device	: 02 Nos.
Mergerized cotton reel No. 50 (As Per Standard)	: 01 No.
Specimen Cutting Template (50 x 150 mm)	: 01 No.
Standard Transparent Tape Roll	: 01 Roll.
Detailed User's Manual	: 01 No.
Calibration Certificate (Traceable to NPL)	: 01 No.
Inspection & Conformance Certificate	: 01 No.

TECHNICAL DETAILS

Flame source	: L.P Gas.
Gas cylinder & Regulator	: General.
Gas Pipe	: 1.5 Meters.
Power Supply	: 220V AC, 50 Hz, 1-φ.
Multipurpose Gauge	: 16 mm, 19 mm, 8 mm.
Flame length	: 16 mm
Height adjustment of flame	: 19 mm
Burner specimen distance	: 8 mm



Specimen holder receiver tray position:	: 45° Angle w.r.t base
Door size	: 335 mm x 335 mm
Glass window area	: 850 x 1125 mm
Platform size of Brushing Unit	: 175mm(L)x105mm(W)(±2 mm)
Movement of platform	: Manually operated by bearing wheels.
Brushing Unit Dimensions	: 375 mm (L) x 120 mm (W) x 140 mm (H)
Specimen cutting template	: 150 mm x 50 mm
Digital timer	: 0 – 99.9 Sec. , L/C : 0.1 Sec.
Test Time	: Depends upon the test specimen/procedure
Size of sample holder	: 175 mm x 80 mm
Burning area	: 105 mm x 40 mm

Fume Hood Details:

Glass window	: Single window with two handles, operating upward
Table	: With two big box and two drawers.
Water tap	: One with hot and cold water.
Basin	: One no. under the tap.
Gas	: one gas line.
Panel board	: Knob for – i) Gas line ii) Hot water iii) Cold water Switch for – i) Light ii) Exhaust fan iii) Inner socket
MCB	: 01No., 230 V, 3A , 1 - φ,50 Hz
Outer socket	: 01 No., 230V, 15 A.
Exhaust fans	: 04 Nos.
Lights	: 02 Nos.

RELATED STANDARDS

- ASTM D1230
- FTMS 191-5908
- CRF 16-1610
- CALIF TB 117



AATCC
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Patron Member



Member Bureau of Indian Standards