

dyeMASTER™ HTHP (Table Top)

INTRODUCTION

This is an economical equipment ideally suited for sample dyeing of fabric and yarn at high temperature and high pressure, particularly for man made fabric like polyester, which is dyed by disperse dye (insoluble in water). High-temperature high-pressure method of dyeing is the most accepted one. This machine is suitable for small lab where space is a constraint. Another aspect of this machine is that it can also be used to carry out dyeing process at atmospheric pressure.

EQUIPMENT

Paramount's *dyeMASTER™ (Table Top)* is designed in order to facilitate effective dyeing for testing purpose. This equipment is an economical version of full size HTHP Beaker dyeing machine. The machine is fabricated out of 304 quality Stainless steel with beaker body and lid made out of 316-quality stainless steel. The beaker carriage will rotate in Glycerin bath at about 30 RPM, through suitable geared motor. The temperature obtained in the Glycerin bath will be up to 140°C through electric heaters. For rapid cooling, the machine is equipped with a copper pipe through which water is made to pass continuously when required. In order to control Time v/s Temperature profile a microprocessor TBB 100 is used. The electrical control panel has fused protection for all the circuits and ON / OFF indications with switches for all functions.

SALIENT FEATURES

- Specially designed small table top ergonomically equipment used to dye samples at high-temperature & high-pressure condition, Specially used for polyester fabrics
- Ergonomic latest design which occupies less space.
- 200ml twelve beakers supplied to dye 12 samples together.
- Temperature can be raised up to 140°C using glycerin.
- Latest microprocessor based control panel for temperature & time.
- Stainless steel body & beakers gives rust-less long life.
- Smooth, precision-engineered components for exceptional performance.
- Supplied with all accessories along with tong for removing beakers.
- Special cooling system for instant cooling of the bath.
- Supplied with calibration & inspection certificates.

dyeMASTER™ HTHP(Table Top) is supplied complete with below accessories.

Main Unit	: 01 No.
Beaker (200 ml.) with Gasket	: 12 Nos.
Tray for Beaker (200 ml.)	: 01 Nos.
Beaker Removing Tong	: 01 No.
User's Manual	: 01 No.
Calibration Certificates (Traceable to NPL)	: 01 Nos.
Inspection & Conformance Certificate	: 01 Nos.



TECHNICAL DETAILS

Capacity	: Max. 12 Beakers
Capacity of Beaker	: 200 ml.
Carriage rotation	: At 40 RPM. (±2 RPM.)
Temperature	: Maximum operating temperature : 140°C. Maximum rate of heating 1°C/Min. Maximum rate of cooling 1°C/minutes. (with cooling water at a temperature of 25°C) Control through Microprocessor based programmer having auto/manual operation.
Heater Rating	: 2 KW
Medium used for Heating	: Glycerin (Please change the glycerin after 3 months)
Electrical Supply	: 220 ~ 230 Volts AC, 50 Hz.
Power Consumption	: 2.5 KW
Contractor	: Contractor with current suspensor to control current fluctuation
Motor	: 1/8 HP, Single Phase, Geared Motor
Overall Dimensions of the Unit	: 711 (L) x 355 (W) x 584 (H)mm 28 (L) x 14(W) x 23 (H) Inch.
Net Weight of the Unit (with 12 Beakers)	: 92 Kgs. (202.40 lbs)



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