

dyeMASTER I™ (HTHP) 12x 500ml (Beaker Dyeing Machine)

INTRODUCTION

A sturdy & robust equipment is suitable for continues sample dyeing of fabric and yarn at high temperature and high pressure, for all man made fabric like polyester, which is dyed by disperse dye (insoluble in water), another aspect of this machine is that it can also be used to carry out dyeing process at atmospheric pressure.

EQUIPMENT

Paramount's *dyeMASTER I™ (HTHP)* is a big & sturdy equipment designed to facilitate effective dyeing for testing purpose to replicate the dyeing in bigger machine. HTHP Beaker dyeing 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 are provided.

SALIENT FEATURES

- A sturdy equipment specially designed to dye samples at high-temperature & high-pressure condition, Specially used for polyester fabrics
- Many sizes of beakers can be accommodated.
- 500ml twelve beakers supplied to dye 12 samples together.
- Temperature can be raised up to 140°C using glycerin.
- Special cooling system for instant cooling of the bath.
- 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.
- Supplied with calibration & inspection certificates.

dyeMASTER I™ (HTHP 500) is supplied complete with below accessories.

Main Unit	: 01 No.
Beaker (500 ml.) with Gasket	: 12 Nos.
Tray for Beaker (500 ml.)	: 01 No.
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	: 12 Beakers(Expandable to 24 beakers)
Capacity of Beaker	: 500 ml.
Carriage rotation	: At 30 RPM. (±2 RPM.)
Temperature	: Maximum operating temperature : 140°C. Maximum rate of heating 1.5°C/Min. Maximum rate of cooling 1.5°C/minutes. (with cooling water at a temperature of 25°C) Control through Microprocessor based programmer having auto/manual operation.
Heater Rating	: 10 KW
Medium used for Heating	: Glycerin (Please change the glycerin after 3 months)
Electrical Supply	: 415 Volts AC, 3 Phases with Neutral.
Power Consumption	: 10.5 KW
Contractor	: Contractor with current suspensor to control current fluctuation
Motor	: ½ H.P , 1390 RPM (Crompton & Greaves)
Gear Box	: 1 : 50
V – Belt	: A 27 (02 Nos.)
Overall Dimensions of the Unit	: 1060 mm (L) x 680 mm (W) x 1180 mm (H)
Net Weight of the Unit (with 12 Beakers)	: 161.5 Kgs.



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