

dyeMASTER™ (Open Bath)

INTRODUCTION

This dyeMASTER™ (Open Bath) is an ideal machine for dyeing of yarns, fabric samples and loose stock under atmospheric conditions. The machine process matches closely to the actual process of dyeing and hence is very suitable to accurately know the outcome of dyeing before a big lot is put in production.

EQUIPMENT

Paramount dyeMASTER™ (Open Bath) is ergonomically designed equipment made up with finest components and raw material. It consists of water bath, which has a precise electrical heating arrangement. Temperature of the bath is controlled through a microprocessor controller with controlling accuracy of ± 1 °C. The Equipment consists of 12 beakers with useful volumetric capacity of 500 ml. The beakers are made from 316-quality stainless steel. The machine is supplied with hooks on the rotating bar which can take cloth or hank samples. Sample to be dyed is attached to the hook of rotating arm, which apart from moving up and down, (40 strokes per minute) also have circular Motion (At 60 rpm).

Direction of rotation of rotating bars is reversed after every three minutes. This improves contact between sample and liquor leading to uniform dyeing result. Beaker cover can be removed, at the time of additions of chemicals, which can be made to the beakers without stopping the machine. This feature is very useful especially in case of Reactive and Vat dyeing where additions are to be made from time to time. The unit has a user-friendly control panel for effective testing. All the components and parts are specially designed to give life-long trouble free operations.

SALIENT FEATURES

- Specially designed open bath dyeing machine for dyeing the samples at atmospheric condition.
- 500ml twelve beakers supplied to dye 12 samples together.
- With auto stirring arrangement
- Latest microprocessor based control panel for temperature & time.
- Stainless steel body & beakers gives rust free long life.
- Smooth, precision-engineered components for exceptional performance.
- Supplied with all accessories along with tong for removing beakers.
- Supplied with calibration & inspection certificates.

twistTESTER (Single Yarn)™ is supplied complete with below accessories.

Main Unit	: 01 No.
S.Steel Beaker (500ml) 316 SS Grade	: 12 Nos.
Beaker's Cover (Set of 2 for each Beaker)	: 12 Set.
Rotating Arm (Sample Hanging rod)	: 12 Nos.
This User's Manual	: 01 No.
Calibration Certificate (Traceable to NPL)	: 01 No.
Inspection & Conformance Certificate	: 01 No.



TECHNICAL DETAILS

Material of Construction Main Body	: Machine of SS 304,
Beakers & rotating bars material	: SS 316
Automation	: Through Microprocessor based Time-Temperature controller.
Maximum Temperature	: Upto 95 °C
Temperature Controller Range	: 0- 99 °C, Least count 1 °C.
Time range	: 0—99 Minutes, Least count + 1 Minute
Sensor	: PT. 100
Stroke of Rotating arm	: 40 \pm 2 / minute.
Stirring Speed of rotating arm	: 60 \pm 5 / minute.
Electrical Supply	: 230 \pm 10% V, 50 Hz, AC single phase.
Electrical Heating	: Through 3 kw immersion heater.
Power Consumption	: 3.5 kw.
Capacity	: 12 Beaker of 500 ml.
Capacity of Beaker	: 500 \pm 20 ml.
Reverse / Forward Mechanism	: 3 Minutes continuous cycle of reverse & Forward each, with 5 Second hold time.
Over all Dimensions of the Unit	: 1090 (L) x 360 (W) x 1020 (H) mm. 43" x (L) x 14" (W) x 44" (H) Inch.
Weight of the Machine	: 96 Kg.(211.20 lbs)



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