

AUTOMATIC INFRA-RED DYEING MACHINE

AUTO-CHROMA IR



Essential innovative advantages of **AUTO-CHROMA IR** code 323EA

Automatic dosing of alkali and auxiliaries

The innovative micro-metric step by step dosing brought forward drastic dyeing time reduction and consistent increase of dyeing uniformity

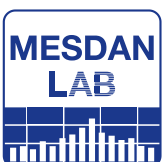
Special pot design (worldwide patented)

The revolutionary pot design allowed the achievement of multiply positive effects:

- Consistent dyeing repeatability, perfect colour absorption in between dyeing cycles performed with the same pot
- Major dyeing flexibility enabling to cover with one 300cc capacity different sample sizes at different LR, which traditionally requires up to 5 standard dyeing pots (100, 150, 200, 250 and 300cc)
- Low liquor ratio dyeing possible

Top quality workmanship of pots, their components and material

Enabled excellent dyeing reproducibility, namely, absolute perfect colour absorption within different pots



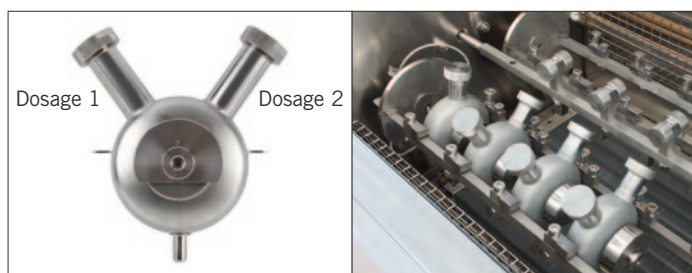
AUTO-CHROMA IR CODE 323EA

AUTO-CHROMA IR “click-valve”* Infra-red dyeing machine

For the first time ever a Lab Infra-red dyeing machine that works on “fill it & shut it” principle. Very thoughtfully designed and tested by a set of expert dyers and chemists, for durability, repeatability, reproducibility, color rendering.

Main features

- Semi-automatic Laboratory IR dyeing machine with patented pot design
- Programmed temperature control for raise, hold, and cooling
- Total chemical dosing control
- Thanks to these and other details mentioned further, users can achieve innovative and accurate performances for lab dyeing at reduced costs with the accuracy and uniformity never reached before with an IR machine
- Suitable to dye pieces of fabric, yarn, fibre and blends
- Suitable for all types of dyes, and dyeing methods
- This fully automatic chemical dosing and temp & time control is achieved by a specially designed dye pot. Each pot has 2 special automatic dosing reservoirs with “click-valve”*
- The instrument is equipped with an elegant colour “touch screen”
- The machine is supplied with several dyeing programs designed by experts (e.g. Pes, Cot, Cot/Pes, Wool, etc.)
- Special 300cc pots design (patent world-wide) allows the use of only one type of pot for all liquor ratio which covers the following volumes: 100 - 150 - 200 - 250 and 300cc
- The maximum number of pots on a standard machine is 12.
- With the elegant colour “touch screen” the operator can program, store, recall and run a number of dyeing sequences (temperature setting up to +135°C) and personalized programs. The saved programs can be easily recalled again on next occasions of dyeing, so even a small change to a standard program is saved, e.g. if an additional auxiliary is added for turquoise shades, that program is saved in the machine and can be recalled when lab trials of turquoise colors are undertaken.
- AUTO-CHROMA IR is made in Europe and built entirely out of the best quality stainless steel, practically indestructible.



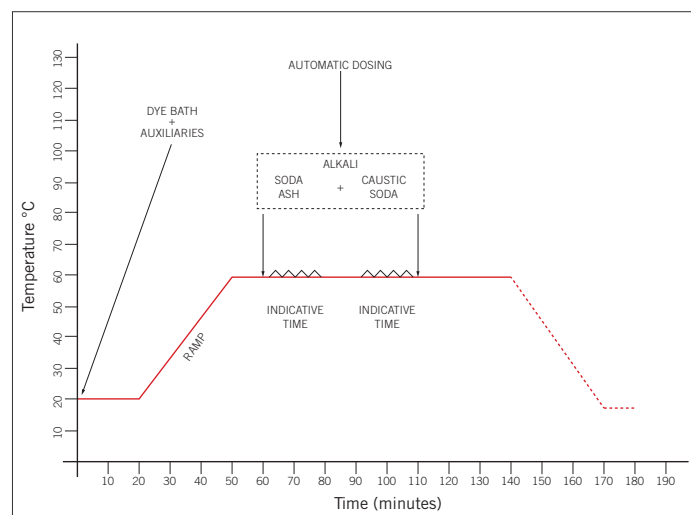
Patented “click-valve” dyeing pot

- The temperature range for heating and cooling can vary from ambient to +135°C , rate of heating from 0,1 up to 2°C/min.
- Cooling by means of water heat exchanger and air circulation fan above 500 cubic meters/hour
- The automatic dosing eliminated the “stop-start operations”, e.g. stop to add dye, stop to add alkali, so on
- The AUTO-CHROMA IR patented “click-valve”* system will dose precise amounts of Auxiliaries and Alkali, as per the program set by the operator

Note: Stock Solutions have to be prepared manually or using the Mesdan Automatic Dispenser, **Colormatic**, Code 323G.

* Patented

A typical isotherm cotton dyeing program (Reactive Dye at +60°C)



Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding

DIMENSIONS / POWER SUPPLY

Net weight: 240 kg
Dimensions: (L) 1500 x (P) 880 x (H) 850 mm
Power supply: 400 Vac, 50 Hz, three-phase + N

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MANAGEMENT SYSTEM CERTIFICATION
DNV
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MESDAN DYELAB SYSTEMS