

AUTOMATIC INFRA-RED DYEING MACHINE

# AUTO-CHROMA IR



Essential innovative advantages of Auto-Chroma IR code 323EA

#### **Automatic dosing of dyestuff, alkali and auxiliaries**

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

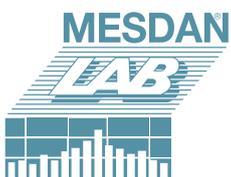
#### **Special pot design (patented worldwide)**

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 size 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, its components and material**

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



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= ISO 14001 =

# 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 temperature range for heating and cooling are ambient to 135°C , rate of heating from 0,1 up to 4 deg / min.
- Cooling by means of water heat exchanger and air circulation fan above 500 meter cube/hour
- The automatic dosing eliminated the stop start operations, eg stop to add dye, stop to add alkali, so on
- The Auto Chroma 1 patented “click - valve”\* system will dose precise amounts of Dye, Auxiliaries, Alkali etc. as per the program set by the operator
- The instrument is equipped with an elegant colour “touch screen”
- The machine as supplied with several dyeing programs designed by experts (eg, Pes, Cot, Cot/Pes, Wool, etc..)

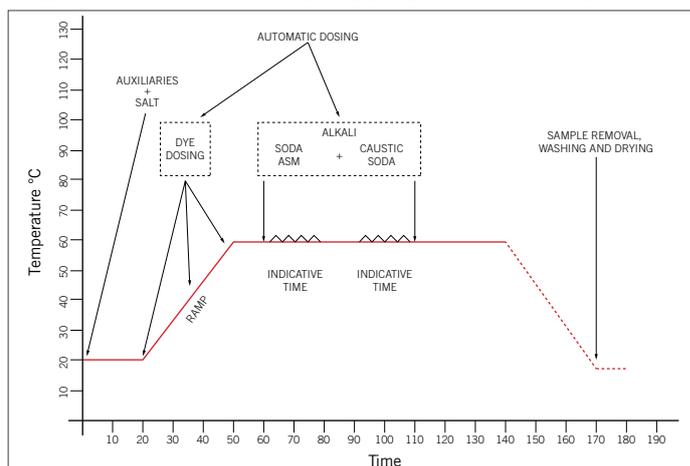
Note: Stock Solutions have to be prepared manually or using the Mesdan Automatic Dispenser, Box Rotacolor Code 323GA.

\* Patented

- Special 300cc pots design (patent pending world-wide) allows for use of only one type of pot for all liquor ratio which covers the following volumes: 100 - 150 - 200 - 250 and 300cc, special volumes capacity pots to dye 500cc to 1000cc liquor are available on request
- The maximum number of pots on a standard machine is 12. On special request, 24 pot machines can be supplied
- 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 for the 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 is undertaken.

Auto Chroma IR is made in Europe and built entirely out of the best quality stainless steel, practically indestructible.

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



### DIMENSIONS / POWER SUPPLY

Net weight: 150Kg  
Dimensions: (L) 1250 x (P) 700 x (H) 700 mm  
Power supply: 380 - 400 V 50 Hz - Wires 3 phase / 1N / 1 E

Photograph and description of present leaflet have to be considered as purely indicative and not binding  
Ref. En 2014-05

## MESDAN DYELAB