

2014

COLOR-X

SERIES **EASY**
DYEING

TECHNOLOGIES FOR THE DYEING AND FINISHING MILLS

I.C.S. ITALIAN COLOR SOLUTIONS SRL



COLOR-X

Infrared Dyeing Machine

Frequently Asked Questions (FAQs)

1. What is the COLOR-X machine?

COLOR-X is the new dyeing machine for the modern textile laboratory. It is based on the modern infrared technology that overcomes the troubles pertaining the traditional heating based on silicone and glycol oil. It ensures high quality results since the whole dyeing process is fully monitored by the specifically designed micro-processor OTX200.

2. How many infrared lamps are utilized?

3 IR lamps at 1 kW are used for generating an uniform field of temperature within the heating housing. The infrared dyeing technology removes all the problems arising from traditional glycol oil system

3. How does the COLOR-X measure temperature?

A new temperature sensor is utilized for monitoring the thermal radiation field. Due to an effective circular rotation of air inside the chamber, an uniform field of temperature is achieved and constantly measured by the digital AD590 probe showing a strong linearity behaviour. The sensor AD590 is fastened at the bottom of beaker n.1. A tailor-made solution has been adopted in order to avoid damages to the electrical connection wire of the sensor during the disk rotation.

4. Which kind of cooling system does COLOR-X utilise?



The temperature control is provided with a water cooled exchanger system. Due to this technical solution, COLOR-X find its application also in closed environment where room temperature may be greater than 20 °C.

5. Which is the temperature range provided with?

Due to thermal insulation of the whole structure and an efficient heating convection the maximum achieved temperature is 140°C. Lower limit is 20°C.

6. Why are beakers made with steel?

The beakers are made with high-polished and high-grade stainless steel AISI316. Their thickness is 1.4 mm and ensures long lifetime and safety.

7. Which fibers and substrates can be dyed with COLOR-X?

All types of fibers can be dyed through COLOR-X. Substrates are Piece, Skein, Loose, and Tops.

8. Which is the minimum liquor ratio that can be set up with COLOR-X?

For natural fiber the liquor ratio is 1:5 and for synthetic fiber is 1:3.

9. Can be injected chemicals during the dyeing process?

Manual injections of chemicals (both liquid and powder) can be performed during the dyeing process by utilizing a specifically designed dosing lid. The lid can be easily opened and closed with the provided hex driver. A specifically designed syringe (Socorex, tube feeding model, 1-10 ml) is used for injecting the liquid inside the beaker. The special syringe makes the auxiliary dosage speedy

10. Can COLOR-X accommodate different beaker sizes?



COLOR-X can accommodate different beaker sizes in order to meet the technical requirements of customer laboratory. 12 beakers with 200/300 cc, 16 beakers with 200/300 cc, 24 beakers with 200/300 cc, 8 beakers with 500 cc, and 1 beaker with 3000/5000 cc.

11. Is COLOR-X equipped with any digital console?

State-of-the-art microprocessor technology ensures an user-friendly interface and accurate process control.

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