

Infrared IRD-III Lab Dyeing Machine



Main advantages:

- Crease- and spot-free sample dyeings.
- Knitted and woven fabrics as well as yarn can be dyed.
- Cotton, wool and synthetic materials.
- State of the art process controller with large integrated program memory.
- Low liquor ratio: 1:5 fabric dyeing cotton.
- Stainless steel cabinet.
- Soda ash adding without opening the beakers.
- No glycerin or cooling water needed.
- Very good price / performance value.



Simple operation:

- Filling dye liquor and textile.
- Optional: Filling in the powder or liquid chemical to be added later on during the dye process.
- Simple fixation of the beakers into the machine.
- Calling of the dye program from memory and starting the dye process.

Beaker support:

- Three-dimensional movement and 360° rotation (clockwise and counterclockwise) allow even and dyed through samples.
- The multifunctional beaker holder allows the use of different beaker sizes.
- Depending on structure and kind of the material to be dyed, the rotational speed can be varied between 5 and 100 rotations per minute.

Beaker sizes:

- 175 ml x 16 beakers (standard: Piece samples only)
- 350 ml x 12 beakers (for yarn or piece samples)
- 500 ml x 8 beakers



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Temperature measuring:

- The measuring of the temperature takes place inside the beakers allowing the direct measurement of the dye liquor. This enables the machine to accurately control and regulate the temperature.

Heating system:

- The laboratory dye machine is equipped with two 1 kW or 1.5 kW (max.) infrared heating tubes.
- Maximal temperature: 140 °C.
- Heating rate can be varied between 0.1 °C/min and 4 °C/min.

Cooling system:

- Air cools down to the required temperature. The machine does not need any cooling water.

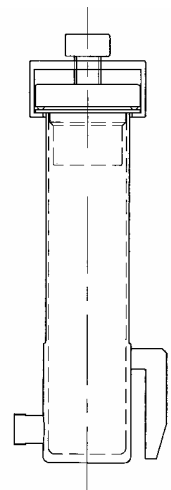
Process controller:

- Becatron Datex Future NT controller.
- Graphical display showing dyeing curve, process steps, temperature, speed and rotation direction.
- 170 programs with 32 process steps can be stored inside of the controller memory.



Options:

- Chemical adding system: Into the specially designed chemical add lids powder as well as liquid chemicals can be filled. During the dye process a plug has to be pulled and the chemical is automatically added to the dye bath. Therefore the beakers do not have to be opened during the dye process. This allows even dyeing since during dosing the movement of the beaker continues very shortly after the dosing start.
- The standard beaker holder has 16 positions. Optionally, a holder with 12 beaker positions is available.
- To dye yarn we suggest our yarn holder. This accessory is available in combination with the 350 ml beakers.
- Teflon foil to dye crease sensitive and delicate materials.



Specification:

Dimensions (W x D X H):	810 x 650 x 910 mm
Machine weight:	120 kg
Power consumption:	2.5 to 3.5 kW
Heating power:	3 kW
Voltage:	Single phase 220 V, 50 or 60 Hz
Max. ambient temperature:	0 °C