

# datacolor

## AHIBA IR™

Revolutionary  
Laboratory Exhaust  
Dyeing Hardware  
for the Textile  
Industry



Reduces the time and cost  
to bring finished goods  
to market



## Technical Specifications

### Applications

Fibers	All
Substrates	Piece, Skein, Loose, Tops
Minimum Liquor Ratio	1:5 natural fibers 1:3 synthetic fibers

### Heating / Cooling

Heating System	Infra-Red
Max. Heating Power	3 KW
Temperature Range	20° - 140°C
Cooling	Forced Air

### Dyeing Capacities

Beaker Sizes & Maximum	150cc x 20
Number of Dyeing Positions	300cc x 15 500cc x 8 1000cc x 8 5 Liter Drum x 1

Beaker Sizes & Maximum	500cc x 10
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Number of Dyeing Positions for Fastness Testing

### Ideal Sample Size

5 grams for 150cc beaker  
10 grams for 300cc beaker  
25 grams for 500cc beaker  
50 grams for 1000cc beaker  
250 grams for 5 Liter Drum

### Dosing

Manual Dosing injector

### Controller

Controller Type	Icon/Button driven
Program Capacity	99 dyeing programs
Program Name	User selectable number
Programmable Steps	15 Steps
Language	N/A
Display Size	114mm X 64mm

### Controller Parameters

Time	In minutes
Temperature	0.1°C or °F
Temp Gradient	0.1°C or °F/min.
Rotational Speed	5 to 50 RPM
Reversing	Automatic every 1 minute
Program Halt	Selectable On/Off for each step

### Physical / Electrical

Dimensions H/W/D:	864 x 597 x 648mm 34 x 23.5 x 25.5 in.
Weight:	73 Kg 161 lbs.
Voltage:	230V AC 50/60HZ Single Phase
Insulation:	Fiberglass

The dyeing beakers are rotated in a circular motion at a user selectable speed continuously during the dyeing process. Quartz Infra-Red lamps generate radiant heat to heat the beakers at the user defined gradient. Cooling is accomplished by a high output CFM blower that inputs cool air into the dyeing chamber and exhausts hot air out the rear of the unit. The controller uses specially designed control parameters to ensure the programmed dyeing curve is followed precisely.

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**AHIBA IR™**

## Setting the new standard in IR dye machines

The Ahiba IR is a state-of-the-art dyeing unit for the new millennium. It addresses a wide range of dyeing and testing requirements at an affordable price. The unit produces accurate laboratory sample dyeings with the levelness and reproducibility you've come to expect from Ahiba. The Ahiba IR can accommodate many different beaker sizes and quantities maximizing the versatility of the machine.

The Ahiba IR moves the beakers in a circular rotation with advanced infrared heating technology that eliminates glycol contamination and cumbersome beaker cleaning. The specially designed pressure tested beakers offer maximum safety and can be used for atmospheric and high temperature dyeings. Chemical auxiliaries can be easily added through our specially designed beaker lid without removing the lid. Either injection or membrane options are available. The easy to operate multi-step controller makes operator error virtually impossible. The actual temperature of the dyebath is measured directly by a precision PT-100 probe and ensures the greatest temperature accuracy. The Ahiba IR is suitable for all types of substrates. Ergonomically designed for fast, convenient use. State-of-the-art microprocessor technology ensures accurate temperature and process control.

#### ❖ New Microprocessor Controller

New controller interface uses symbols to relay programming information, eliminating the need for language translations.

#### ❖ New See-through Door

High temperature glass protected by a heat shield allows the user to visibly see the beaker motion in action.

#### ❖ New Temperature Sensor

New design is durable and accurate and gives years of reliable results.

#### ❖ Low Environmental Impact

High efficiency Infra-Red lamps and high output air cooling system reduce energy consumption.

#### ❖ Increased productivity in the laboratory

Up to 20 dyeing positions available, many beaker sizes available, adaptable as the needs of the dye lab change.

#### ❖ Low liquor ratio capable

Beaker agitation options that offer smooth or aggressive agitation given the specific substrate requirement.

#### ❖ Increased program storage capability

Up to 99 programs of 15 steps available to be stored locally for easy recall.

## Because Color Matters



As a product within Datacolor SPECTRUM™, the complete solution for successful global color management, the Datacolor AHIBA IR™ provides exceptional quality control. It is an integrated part of the Datacolor SPECTRUM™ solution for controlling all aspects of color management.

For more information, please  
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