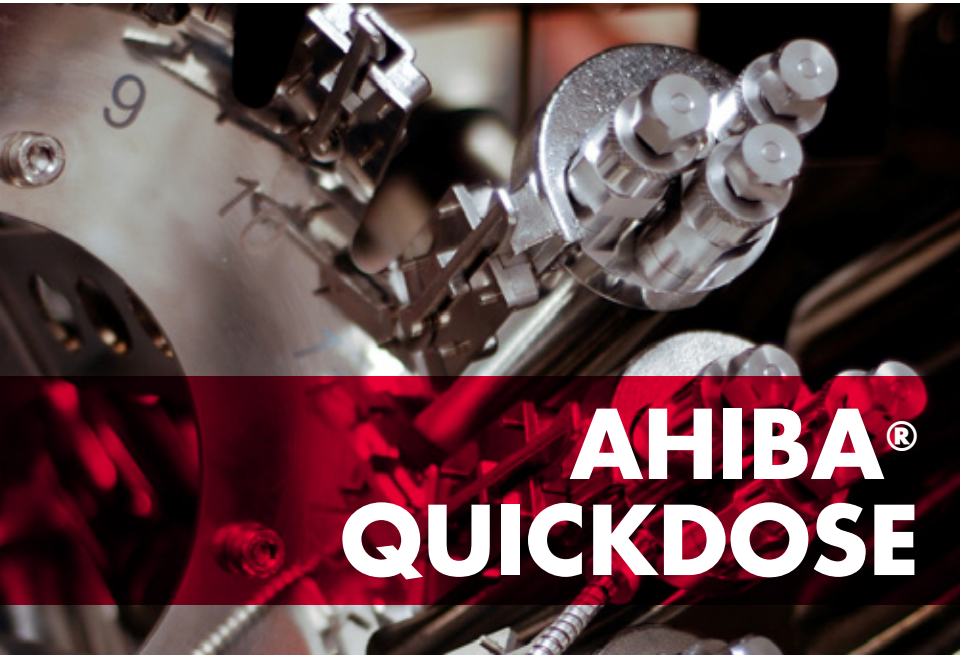


Chemical Dosing Has Never Been Easier



Lab Dyeing with High Lab-to-Production Reproducibility

- Fewer color corrections needed in production
- Safe and convenient dosing of liquids and powders
- Quickly dose all the beakers in less than a minute
- Minimize changes to temperature or liquor ratio

QUICKDOSE

LAB DYEING WITH HIGH
LAB-TO-PRODUCTION REPRODUCIBILITY

Ahiba IR lab dyeing machines are known for precision, convenience and high repeatability of dyeing. Ahiba QuickDose is a unique lid designed for Ahiba beakers with 3 independently operated dosing capsules. It allows safe and easy addition of both liquids and powders to the dyebath. The dyeing cans don't need to be removed or opened for dosing. QuickDose is most commonly used in exhaust dyeing with reactive and acid dyes.

The main benefit of chemical dosing in the lab is that it results in a closer match between lab dyeing and production dyeing with the same dye recipe. This improves productivity by reducing the need for corrections in production. Addition of chemicals at specific points in the dyeing process, rather than all at once in the beginning, is a key to improving reproducibility between lab dyeing and production.



FEATURES AND BENEFITS

Reproducibility: Each chemical can be quickly dosed at the correct time in the dyeing cycle. The use of powder minimizes changes to temperature and liquor ratio. This results in high lab-to-bulk correlation.

Ease-of-Use: The dosing lid has 3 quick-actuating, color-coded capsules. A $\frac{1}{4}$ turn of the cap by the operator opens the capsule valve to the dyebath. All beakers can be actuated in less than one minute. The system is easy to clean and maintain.

Flexibility: Three independently operated capsules that can be filled with either powder or liquid. This option further allows the dye machines to easily dye multiple shades simultaneously.

Durability: The newly designed dosing system is durable. The machined components are made of high quality 316L Stainless Steel.



COMPARISON OF DOSING METHODS

Without a dosing system, the operator removes the beakers from dye machine and manually adds chemicals. This represents a burn hazard to the operator. During the dosing, a significant drop in dyebath temperature can occur which can affect lab-to-bulk reproducibility.

Injector dosing systems require the use of solutions that must be diluted before injecting them in the dyebath affecting liquor ratio. Injector systems are also time consuming and usually requiring significant hand strength to operate the injector. Drastic temperature drop of the dyebath can also occur using this system.

QUICKDOSE VS. INJECTION/SYRINGE SYSTEMS

- Lower maintenance cost
- Can dose powder or liquid
- Liquor ratio not affected
- Shorter time required to dose all beakers
- Easier to operate
- Easily dye multi-shades within the same batch

QUICKDOSE VS. POWDER SYSTEMS

- Systems with “cup” built into the lid add ALL auxiliaries at the time of temperature
- Chemical flash problems exist and can affect levelness of the dyeing
- No ability to segregate between different auxiliaries
- Designs can have clogging issues and trap some of the dyebath inside the “cup”



WHAT PEOPLE ARE SAYING

“You can successfully dose all dyeing beakers in under a minute.”

“While there is an initial investment in time to setup the capsule for dosing, the actual dosing process is very easy and very quick.”

“The dyeing results were satisfactory and did show improved lab to bulk correlation.”



TECHNICAL SPECIFICATIONS

Pre-filled capsules can hold up to 5gr of powder or 7ml of liquid.

CHEMICALS TESTED

Salt	OK
Soda	OK
Caustic Soda	OK
Acid	OK
Acetone	Not recommended

Installation requirements

Normal installation requirements of the Ahiba IR system, no new requirements with dosing.

Included in package (New AHIBA IR or AHIBA IR Pro with QUICKDOSE)

- New system complete with new set of dosing beakers (15 x 300cc, or 8 x 500cc, or 8 x 1000cc)
 - Beaker Lid Closing Tool
 - Spare Set of Lid O-Rings
 - Capsule Actuating Tool
- Spare O-rings for dosing caps
- Spare PT-100 Sensor
- Funnel, 5ml
- User Manual and Installation Guide on USB Flash Drive



For more information, please visit www.datacolor.com/quickdose