datacolor
AUTOLAB™ TF

High-Performance Gravimetric Tube-Free Laboratory Dispensers

TF-80

datacolor
SPECTRUM™
family of solutions
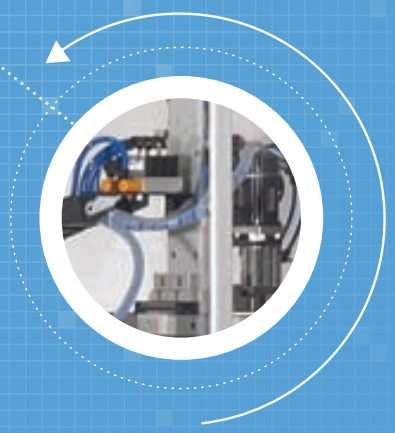
Fast, accurate and

maintenance-free

Unique System for Unmatched Performance

Traditional tubed laboratory dispenser systems generally dispense recipes faster than tubeless dispensers. However, they require a substantial amount of time to maintain and to keep clean, subsequently leading to increased downtime. Some tubeless systems may take longer to dispense each individual recipe, but they require very little maintenance and are more precise.

The Datacolor AUTOLAB™ TF range of gravimetric dispensers provide the best of both worlds: speed, accuracy and maintenance-free performance.

Datacolor AUTOLAB™ TF systems are tube-free, eliminating the possibility of sedimentation and therefore any need to clean the system. They use dedicated individual injectors to transfer solution from each dye bottle, removing any possibility of cross contamination. Quicker to dispense than other tubeless gravimetric systems, Datacolor AUTOLAB™ TF also offers unique advantages that help to further automate the process and save time.

❖ All products are physically weighed during dispense, ensuring total control and traceability
❖ Simple but effective design injector, easy to maintain and low cost
❖ Uses dyepot holding trays, with 6 dyepots in each tray, to optimize dispense throughput
❖ Dyepot trays can be prepared in advance, saving operator and operation time
❖ Dispenses water and chemicals simultaneously, accelerating dispense speeds even further
❖ Conveyors used to further automate the process (up to 60 recipes can be dispensed without the need for any human intervention)

Higher Lab Productivity

Due to its low maintenance requirements and high level of automation, while the Datacolor AUTOLAB™ TF dispenser is automatically performing its many tasks of preparing recipes, your employees can be more productive carrying out other tasks in the lab.

Datacolor AUTOLAB™ TF also offers other benefits of considerable importance that make it the best possible choice for most textiles labs:

❖ Dispenses a wide range of viscosities of products
❖ Employs a fast, high precision and reliable servo motor-driven robotic arm mechanism for exceptionally rapid dispense and system reliability
❖ Provides excellent repeatability due to its particular design
❖ Eliminates human error, by removing human decision making and intervention
❖ Delivers high throughput in the lab

AUTOLAB SPS

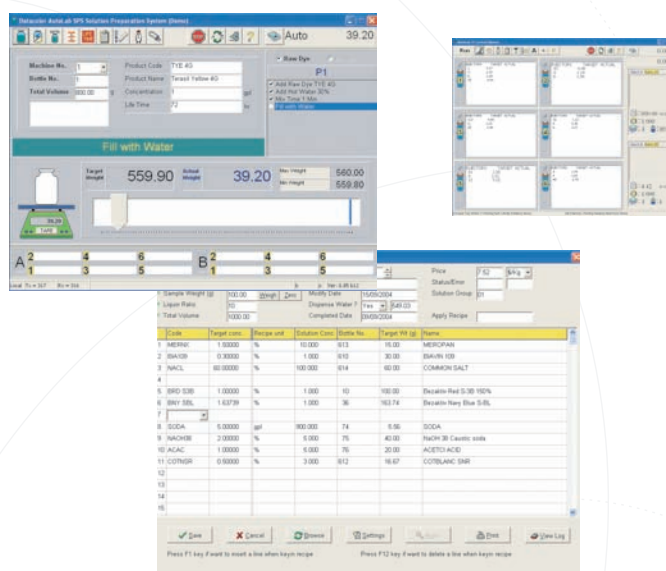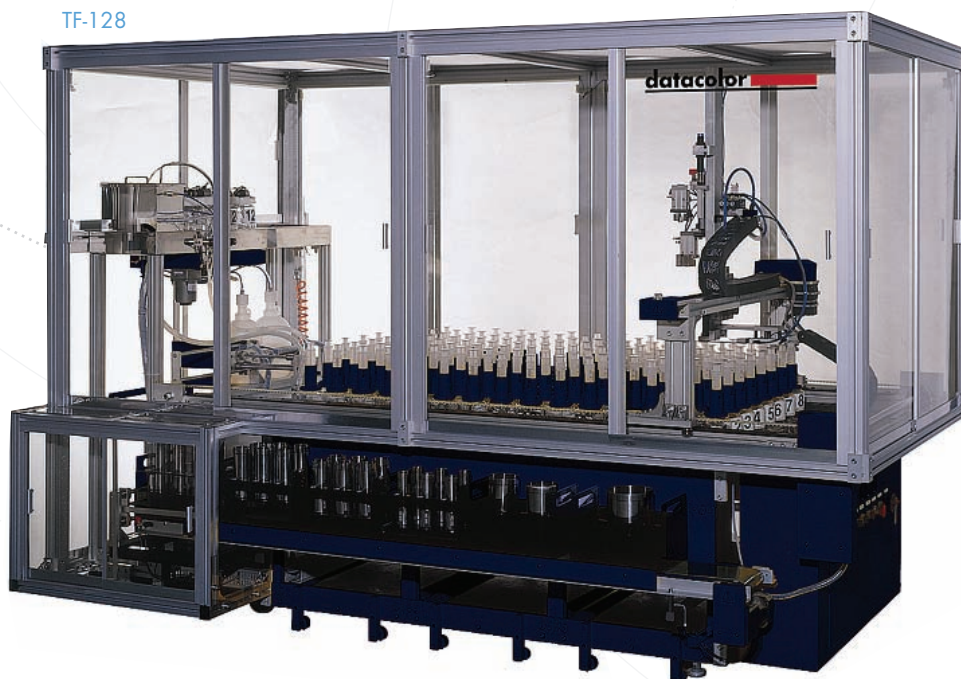## Faster Startup, Less Downtime

With Datacolor AUTOLAB™ TF, there are no dispense tubes, valves or valve wires to maintain or clean. Because there is also no need to calibrate injectors, startup is accelerated and downtime and long-term maintenance are minimized. And Datacolor AUTOLAB™ TF lab dispensers are easy to operate. Datacolor's simple and highly effective control method uses PLC control and Windows® XP-based software, ensuring reliable operation and minimal maintenance.

Stable, Accurate and Consistent Solutions

In addition to the AUTOLAB™ TF range of dispensers, Datacolor also provides a range of automated solution preparation systems, AUTOLAB™ SPS, to ensure that dye solutions used in the lab and on the dispenser are prepared accurately and consistently.

Because Color Matters

As products within Datacolor SPECTRUM™, the complete solution for successful global color management, Datacolor AUTOLAB™ TF and AUTOLAB™ SPS are able to grow as your needs grow. They can run stand alone or be optimized to operate as an integrated part of the Datacolor SPECTRUM™ solution for controlling all aspects of color management. This helps companies innovate faster, ensure consistent color quality, reduce the cost of production and accelerate their product's speed to market. Because color matters, leading businesses worldwide choose Datacolor's innovative technology and solutions to consistently achieve the right color.

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AUTOLAB™ TF

AUTOLAB™ SPS Solution Preparation Systems

Datacolor AUTOLAB™ SPS/SPS-X

- ❖ Hot water tank, 15 litre capacity with automatic refill
- ❖ Automatic water heater with programmable temperature controller
- ❖ Cold water tank, 5 litre capacity with automatic refill
- ❖ 2 large cold water dispense valves
- ❖ 1 large hot water dispense valve
- ❖ 1 small cold water dispense valve
- ❖ Additional manual controls for all dispense valves
- ❖ Precise electronic balance with 0.01g or 0.001g readability (SPS/SPS-X)
- ❖ Separate 6-position mixer station for mixing of solutions during preparation

AUTOLAB™ TF Gravimetric Tube-free Dispensers

Datacolor AUTOLAB™ TF-40 dispenser

- ❖ 40 solution bottles
- ❖ 40 injectors
- ❖ No dedicated chemical bottles (need to use standard injector bottle positions)
- ❖ Single dispense scale
- ❖ Simultaneous volumetric dispense of water into 3 dyepots at same time
- ❖ Auto loading/unloading of dyepot tray
- ❖ Dispenses 6 recipes at a time (1 tray)

Datacolor AUTOLAB™ TF-80 dispenser

- ❖ 80 solution bottles
- ❖ 80 injectors
- ❖ No dedicated chemical bottles (need to use standard injector bottle positions)
- ❖ Uses 2 dispense scales
- ❖ Simultaneous volumetric dispense of water into 3 dyepots at same time
- ❖ Auto loading/unloading of dyepot trays
- ❖ Dispenses 12 recipes at a time (2 trays)

Datacolor AUTOLAB™ TF-88

- ❖ 80 solution bottles
- ❖ 80 injectors
- ❖ 7 chemicals with 5-litre auto-refill
- ❖ In-feed/out-feed auto load conveyor
- ❖ Single dispense scale
- ❖ Simultaneous dispense of water into 2 dyepots at same time
- ❖ Separate area for gravimetric dispense of dye solutions and volumetric area for dispensing of water/chemicals
- ❖ Dispense up to 30 recipes at a time (5 trays)

Datacolor AUTOLAB™ TF-120

- ❖ 120 solution bottles
- ❖ 120 injectors
- ❖ No dedicated chemical bottles (need to use standard injector bottle positions)
- ❖ Uses 2 dispense scales
- ❖ Simultaneous volumetric dispense of water into 3 dyepots at same time
- ❖ Auto loading/unloading of dyepot trays
- ❖ Dispenses 12 recipes at a time (2 trays)

Datacolor AUTOLAB™ TF-128

- ❖ 120 solution bottles
- ❖ 120 injectors
- ❖ 7 chemicals with 5-litre auto-refill
- ❖ In-feed/out-feed auto load conveyor
- ❖ Single dispense scale
- ❖ Simultaneous dispense of water into 2 dyepots at same time
- ❖ Separate area for gravimetric dispense of dye solutions and volumetric area for dispensing of water/chemicals
- ❖ Dispense up to 42 recipes at a time (7 trays)

Datacolor AUTOLAB™ TF-160

- ❖ 160 solution bottles
- ❖ 160 injectors
- ❖ No dedicated chemical bottles (need to use standard injector bottle positions)
- ❖ Uses 2 dispense scales
- ❖ Simultaneous volumetric dispense of water into 3 dyepots at same time
- ❖ Auto loading/unloading of dyepot trays
- ❖ Dispenses 12 recipes at a time (2 trays)

Datacolor AUTOLAB™ TF-168

- ❖ 160 solution bottles
- ❖ 160 injectors
- ❖ 7 chemicals with 5–litre auto-refill
- ❖ In-feed/out-feed auto load conveyor
- ❖ Single dispense scale
- ❖ Simultaneous dispense of water into 2 dyepots at same time
- ❖ Separate area for gravimetric dispense of dye solutions and volumetric area for dispensing of water/chemicals
- ❖ Dispense up to 54 recipes at a time (9 trays)

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

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Because Color Matters