

# HERO

INNOVATIVE **COLOR** TECHNOLOGY

- ARCHIMEDE •  
A200/A250  
Automatic colorant dispenser



• ARCHIMEDE •  
A200/A250

Incorporates HERO's new patented Progressive Cavity Pump (PCP) dispensing technology. This new, innovative and revolutionary pump design allows HERO to offer the first truly low maintenance automatic colorant dispenser resulting in the lowest cost of ownership on the market today. In fact, Archimede is so simple to repair that an entire dispense circuit can be replaced without tools or special training in less than 5 minutes. For a further reduction of its cost of ownership, Archimede is calibration-free.

The PCP is calibrated once at the factory and then calibration is not required again. PCP technology, thanks to its reversibility, solves also the problem of the drying of the colorants on the nozzles, each dosage ends with a small rotation backward of the pump sniffing-back the colorant inside the nozzles. This in addition to the automatic humidifier cap reduces to the minimum the contact with the air.

Colorants are dispensed in a consecutive continuous flow sequence thus reducing the dispense time.

For even faster performance, HERO also offers the A250, a simultaneous dispense (up to 4 colorants at once) version of the A200.

Archimede also offers precision unmatched by its rivals. This unit will dispense down to 1/1000 of a fluid ounce (0,03 ml)!

It also operates within a +/-1% error on average dispenses. Yes this unit is so precise it can be used to tint sample color testers!





#### ● ● ● ADVANTAGES:

- Unbeatable precision and productivity (better than a gear pump system)
- Unmatched durability and low maintenance (better than a piston pump system)
- Service-free and tool-free. In case of breakdowns any user, even the less expert, can change a circuit in less than five minutes and without the need of any tool
- Calibration-free
- Best possible ergonomics and ease of use
- Unbeatable quality/price ratio

#### ● ● ● PROBLEMS SOLVED:

- High maintenance and service costs
- Impossibility to dose difficult products
- Drying of the colorants on the nozzles
- Difficult re-filling of the colorants
- Low durability and reliability of the pumps
- Frequent re-calibration

#### ● ● ● ERGONOMICS AND EASE OF USE:

- Canisters on a rotating frame to facilitate the re-filling of the colorants
- Easy and quick substitution of the entire circuit
- Low re-filling height (less than 1000 mm)
- Free desk at less than 1150 mm of height



## ● ● ● Technical features

Dosing System:	A200 - Continuous consecutive dispense A250 - Simultaneous dispense
Number of circuits:	Up to 16 or 24
Dosing principle:	Progressive Cavity Pump (PCP) can play the double role of moving a volume with precision (typical of a volumetric pump) and retain a liquid (typical of a valve).
Compatibility:	Water-based and Universal Colorants
Canister content:	2 liters
Max flow rate:	0,2 l/min
Average precision:	+/-1%
Minimum dosing quantity:	1/1000 fl. oz. (0,03 cc)
Capping system:	Automatic
Can presence:	Photocell
Can handling:	Manually repositionable shelf
Max dimensions:	l 800 x d 800 x 1150 mm height (up to 16 Canisters) l 880 x d 880 x 1150 mm height (up to 24 Canisters)
Weight:	145 Kg (up to 16 Canisters) 205 Kg (up to 24 Canisters)
Power supply:	230 V (+/- 10%), 50 Hz, 16 A, mono-phase + ground 115 V (+/- 10%), 60 Hz, 32 A, mono-phase + ground
Options:	Laser aiming system

## ● ● ● Software features

**TintWise\_LAB:** Laboratory and technical service software for the preparation and up-dating of the database of the formulas. It is a precious instrument for our Customers' Laboratory and Service teams, in order to run independently the following activities: preparation and up-dating of the databases of formulas, setting of the machine parameters, setting of the level of accesses to the software (Paint Manufacturer – Owner of the Point-of-sales – Machine Operator).

**TintWise\_POS:** All of our automatic dispensers come complete with HERO's latest version of TintWise™ dispense and machine utilities software. This state of the art Windows XP color formula software is specifically designed for point-of-sale custom color dispensing. It performs a large list of functions including: product look up, can-size specification, user security, label printing, color database management, custom formula generation. The utilities area also offers simple to use machine calibration, colorant level visualization, and settings for warning levels for re-filling, agitation, service intervals, and purging. This software is also compatible with most common brands of spectrophotometer and color matching software so you can operate your dispenser seamlessly with these programs. A bar code reader can also be interfaced if required. The user interface can be customized with the Company logo.