

# SmartDispenser®

## MDAV LOW TORQUE BENCHTOP CA SYSTEM



### SmartDispenser® Medium Dot Any Viscosity

Use this model for dispense volumes between .00045 & 30cc, ideal for medium dot to medium bead dispensing. For use with industrial grade Genius® CA reservoirs and dispense tips.

MDAV-LT-CA

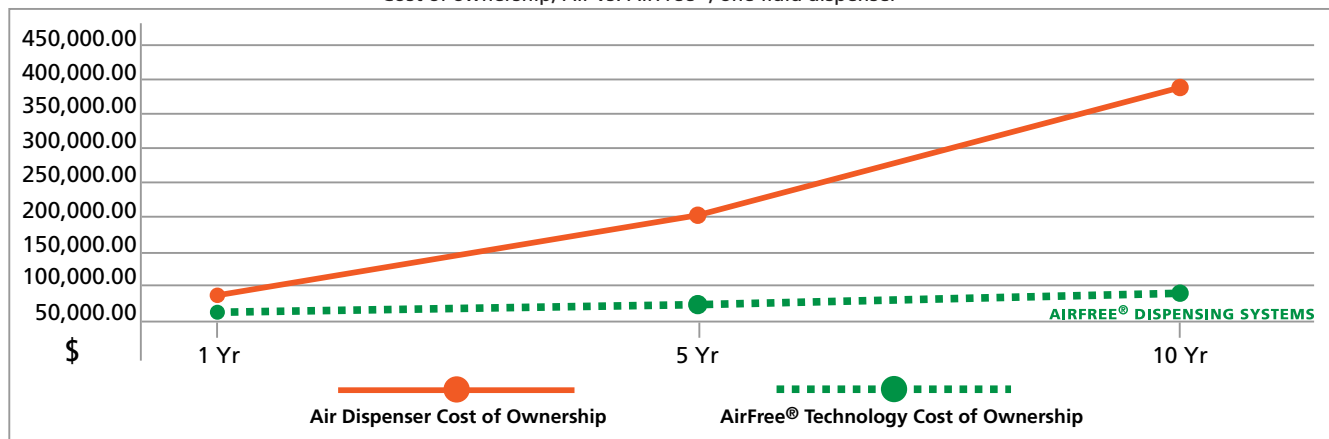
## AirFree® Technology & Cyanoacrylate

Traditional air pressure systems inject moisture filled air into the syringe reservoir activating the cyanoacrylate (CA) cure cycle. AirFree® technology eliminates moisture filled air from the dispensing process protecting the CA formulation. As a secondary safeguard Genius® CA components are made from proprietary plastics that inhibit CA bonding between components.

### Total Cost of Ownership

#### AirFree® Technology Adds Profits When Replacing Air Driven Systems

Cost of ownership, Air vs. AirFree®, one fluid dispenser



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**FISHMAN®**  
 Dispensing Innovation®

# SmartDispenser® MDAV-LT BENCHTOP CA SYSTEM

## MDAV-LT-CA Medium Dot Any Viscosity

BARREL SIZE	3CC	5CC	10CC
MIN. VOL. (CC)	.00045	.00079	.00131
MAX. VOL. (CC)	3.0	5.0	10.0
MIN. RATE (CC/SEC)	.011	.020	.033
MAX. RATE (CC/SEC)	.267	.477	.783
MAX. BACKOFF (STEPS)	500	500	500
MAX. DELAY (SEC)	9.99	9.99	9.99



The SmartDispenser® MDAV-LT-CA (3-10cc) comes with 3-10cc Dispense Gun and 3, 5, 10cc Retaining Rings.

MIN. VOL. (CC)	.00257
MAX. VOL. (CC)	30.0
MIN. RATE (CC/SEC)	.064
MAX. RATE (CC/SEC)	1.543
MAX. BACKOFF (STEPS)	500
MAX. DELAY (SEC)	9.99



The SmartDispenser® MDAV-LT-CA (30cc) comes with 30cc Dispense Gun and 30cc Retaining Rings.

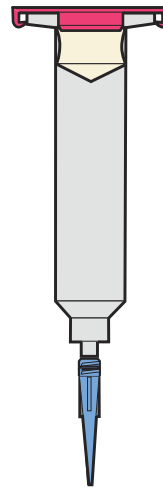


### SMARTDISPENSER® MDAV-LT-CA 3-30CC DISPENSE STARTER KIT CONTENTS

- Foot Pedal
- Keyboard
- Mouse
- Earphone
- Video Camera
- Cisco Wireless Connectivity Device
- Needle Kit
- Manuals
- Power Supply Connection
- Universal Power Supply

## Genius® Cyanoacrylate Dispensing Components

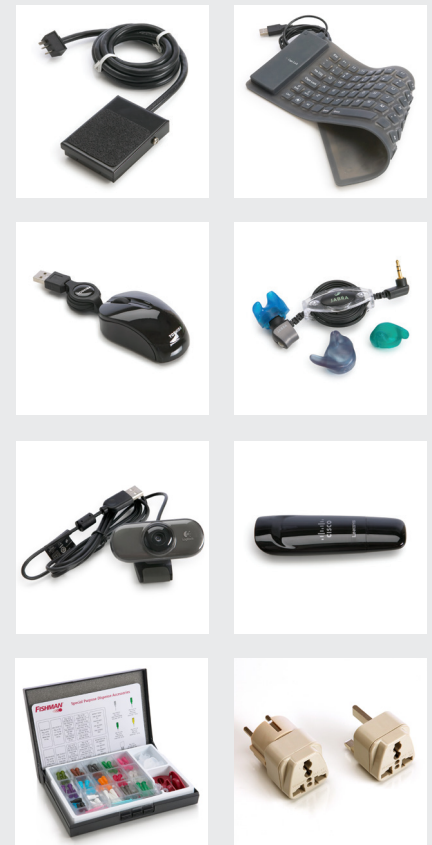
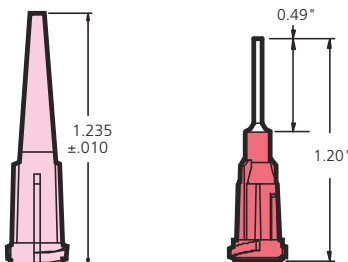
Genius® CA dispensing components are designed from a proprietary plastic that prevents the CA from bonding the syringe piston to the syringe barrel and the syringe tip cap to the syringe luer.



## Genius® CA FreeFlow™ Tips and Teflon® Tips

Genius® FreeFlow™ CA Tips and Teflon®\* Tips both prevent CA from clogging the tip during the fluid dispensing process.

\*Teflon is a registered trademark of the Dupont Corporation.



# SmartDispenser® MDAV-LT BENCHTOP CA SYSTEM



## SPECIFICATIONS

Usage:	Indoor use
Altitude:	Up to 2000m
Temperature:	0° to 40° C
Maximum Relative:	80% for temperatures up to 31° C decreasing linearly to
Humidity:	50% relative humidity at 40° C
Mains Supply	
Voltage Fluctuations:	Not to exceed ±10%
Installation	
Overvoltage:	Category II
Pollution:	Degree 2, Class 1
Input Voltage:	100-240 VAC 47-63Hz
Max Inrush Current:	3.2A-1.8A
Output Voltage:	5.0VDC
Output Power:	4.6W
Fuse Rating:	1.0A/250 VAC
Initiate Circuit:	Foot Pedal (dry contact) finger switch
Drive Motor:	MDAV-LT-CA 3.75 Degree 96 Steps/Rev
Axial Movement:	MDAV-LT-CA .024 Axial Pitch .00025"/Step
Control Circuitry:	CMOS microprocessor
Interface:	Touch Screen or Keyboard/Mouse
Minimum Dispense Volume:	0.00045ml

## CONTROL UNIT

Size:	5.6 x 9.9 x 6.3in (14.23 x 25.15 x 16cm)
Weight:	4.7lbs (2.13 kg)

## GUN

Length:	7in (17.8cm)
Weight:	6oz (170.1 gr)
Cable Length:	3 feet (91.5cm)

## What makes the SmartDispenser® so smart? The combination of 3 powerful platforms.

### AIR-FREE MANUFACTURING

- One program – worldwide
- Closed-loop feedback
- 6-10X more repeatable than pneumatics
- Volume base numeric dispensing
- Positive displacement via stepper motor
- Firmware proven for over a decade
- Eliminates expensive air compressor
- Designed to integrate into automation systems using PLCs

### WINDOWS 7 NETWORKING

- SD Device to MES System Networking
- Remote programming and lock out
- Real time production data
- Live video feed
- Auto e-mail of unauthorized program changes
- On screen work instruction (audio option)
- Connectivity between SmartDispensers® Desktop, Laptop and Smartphone.
- Video/Audio training and tutorials

### SMARTPHONE FUNCTIONALITY

- Touch screen
- Finger gesturing controls
- MES Networking Apps
- Custom Manufacturing Apps

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