

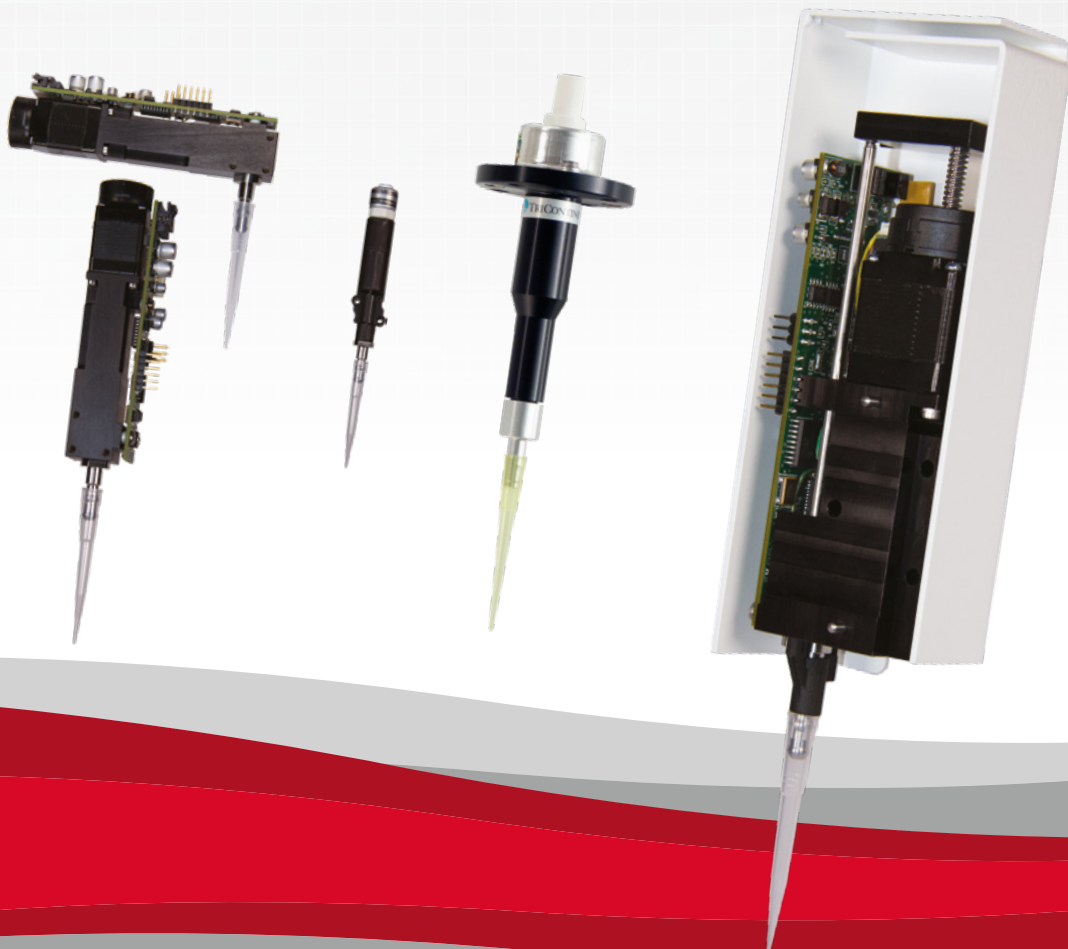
**TRICONTINENT**

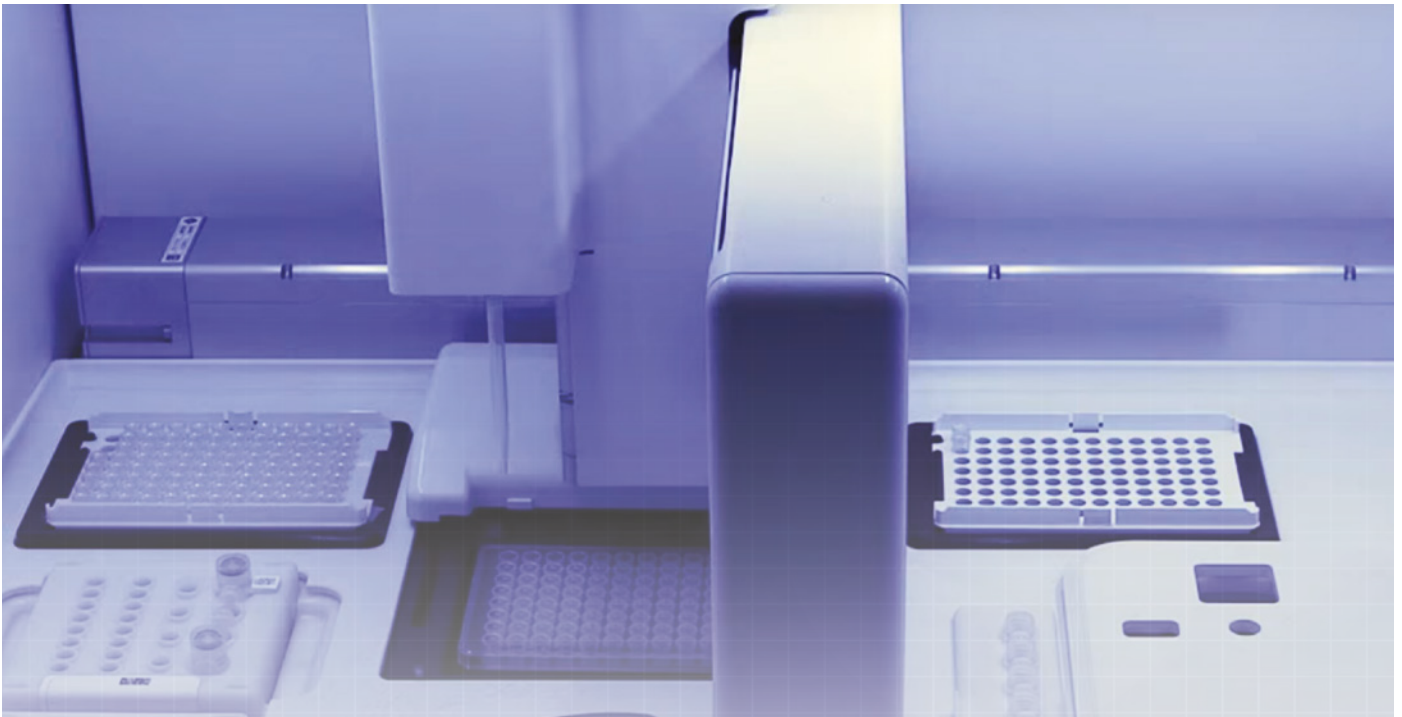
by Gardner Denver

# Air-Z

**Air Displacement Pipettes**

**Precision. Efficiency. Flexibility.**





## Air-Z air displacement pipettes simplify liquid handling



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These state-of-the-art automated pipettes can handle fluid volumes from a few microliters up to five milliliters with superior precision and accuracy. They also offer superior flexibility. That's due to their simple mechanical interface that can be seamlessly integrated into any liquid handling (XYZ) robotic system. Whether for diagnostic or analytical equipment, the choice for rapid, reliable liquid handling has never been so easy.

### **WHY AIR DISPLACEMENT? SIMPLY SECURE.**

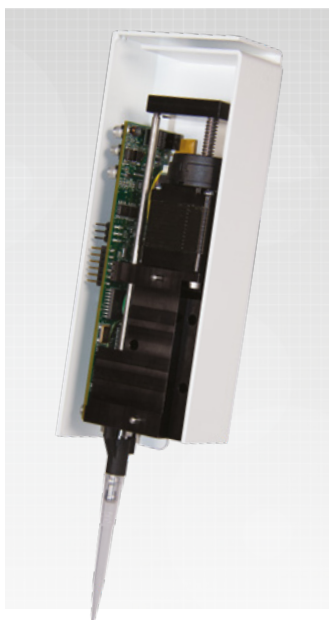
Air displacement technology ensures greater simplicity and security, regardless of your application. Since they are used with disposable tips, air displacement pipettes prevent cross contamination and carryover during sample transfer and reagent aliquoting. Additionally, they eliminate tubing and priming normally required for liquid handling.

### **PRECONFIGURED OR CUSTOMIZED? YOU DECIDE.**

We offer Air-Z pipettes in four preconfigured models - ranging from fully programmable to truly economical. For more special OEM applications, we offer customized designs, volumes and mounting options to your exact requirements. Developers can either use their own drivers, or choose a complete package that matches Air-Z pipettes with our optimized pump controllers.

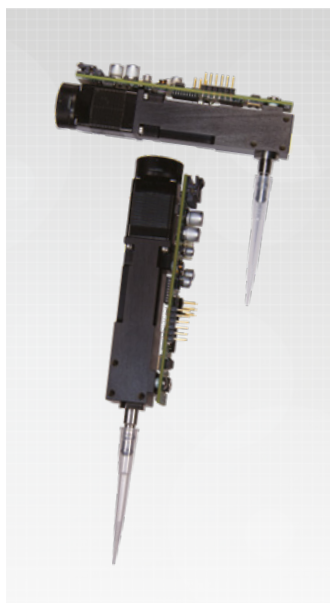
# COMPARE Air-Z MODELS

Find the best solution for your automated pipetting requirements



## Air-Z Premier

Full-featured, fully programmable air displacement pipetting module with integrated tip ejection and automatic detection of liquid levels, tips, tip blockage, step loss and more.



## Air-Z Flex

Automated air displacement pipetting module available with or without control electronics and pressure sensor.



## Air-Z Mini

Most economical model for low-duty cycle applications, designed for easy installation and replacement.



## Air-Z Legacy

Tricontinent's first air displacement pipette with proven technology for use on liquid handling robotic systems.

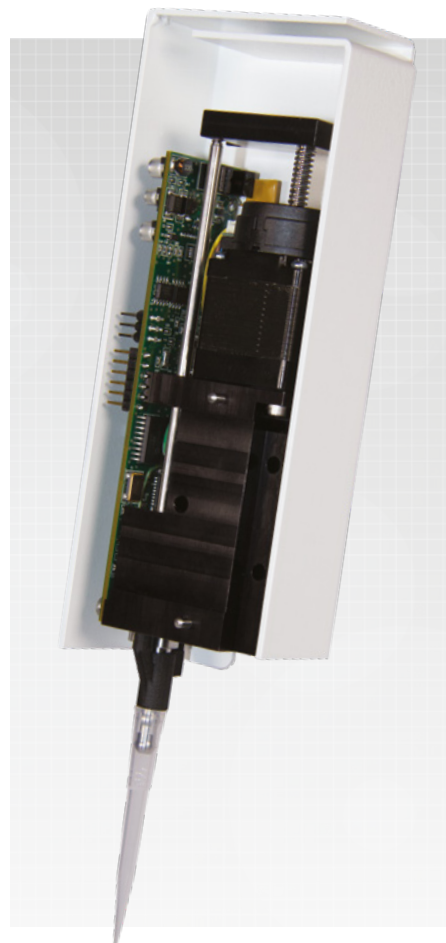
Air-Z FEATURES	Air-Z Premier	Air-Z Flex	Air-Z Mini	Air-Z Legacy
High-resolution encoder (step loss detection)	✓	✓	✗	✗
Liquid level detection: pressure (pLLD)	✓	✓	✗	✗
Liquid level detection: capacitive & hybrid (cLLD & hLLD)	✓	✗	✗	✗
Real time streaming pressure data	✓	✓	✗	✗
Quiet at all speeds	✓	✓	✓	✓
Built-in tip ejector	✓	✗	✗	✗
Clogged tip detection	✓	Option	✗	✗
Fully programmable (w/control electronics)	✓	Option	✗	✗
Optional horizontal or vertical mounting orientation	✗	✓	✗	✗
Pump volume options	1000 µL	50 µL, 250 µL, 1000 µL	50 µL	200 µL, 1000 µL, 2000 µL, 5000 µL
Tip volume availability	20 µL, 50 µL, 200 µL, 1000 µL	20 µL, 50 µL, 200 µL, 1000 µL	20 µL, 50 µL	200 µL, 1000 µL, 2000 µL, 5000 µL
Overall dimensions without disposable tip (H x W x D)	168.7 mm x 60.5 mm x 30.5 mm	130.5 mm x 30.6 mm x 25.0 mm	110.7 mm x 20.2 mm x 19 mm	131 mm x 47 mm

## Air-Z Premier

Air-Z Premier is a full featured, fully programmable automated air displacement pipette with the features listed below.

### FEATURES

- ✓ High-resolution encoder for dependable step loss detection
- ✓ Multiple liquid level detection options: pressure, capacitive and hybrid
- ✓ Real time pressure data for aspirate and dispense verification and blocked tip detection
- ✓ Integrated tip-on and tip-loss detection
- ✓ Integrated tip ejector
- ✓ Configurable for single unit operation or address up to 15 pumps individually
- ✓ Functional status feedback with LED indicators
- ✓ Overall dimensions (H x W x D): 168.7 mm x 60.5 mm x 30.5 mm (without cover, not including disposable tip)
- ✓ Pump volume: 1000  $\mu$ L
- ✓ Lightweight, compact and maintenance free
- ✓ Optional cover, tips and evaluation kit



## Air-Z Mini

Air-Z Mini is an automated air displacement pipettor module with features listed below.

### FEATURES

- ✓ Most economical and compact automated air displacement pipette for low-duty cycle applications
- ✓ Designed for easy installation and replacement
- ✓ Can be nested on 18 mm centers for multi-channel applications
- ✓ Custom tip adaptors available
- ✓ Overall dimensions (H x W x D): 110.7 mm x 20.2 mm x 19.0 mm (without disposable tip)
- ✓ Pump volume: 50  $\mu$ L
- ✓ Lightweight, compact and maintenance free
- ✓ Optional tips and evaluation kit

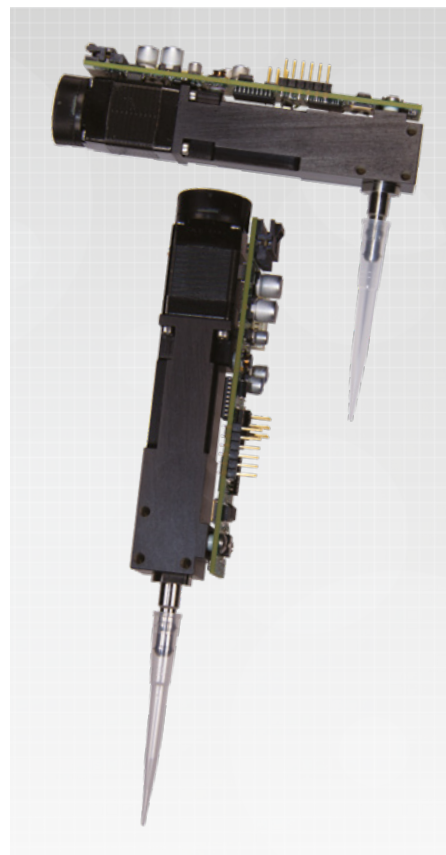


## Air-Z Flex

Air-Z Flex is an automated air displacement pipettor module with high-resolution encoder for dependable step loss detection. Additional options for Air-Z Flex, including pressure sensor and control electronics, are listed below.

### FEATURE OPTIONS

- ✓ With or without control electronics, including pressure sensor
- ✓ With or without pressure sensor for real time pressure data
- ✓ Optional mounting configurations with horizontal or vertical orientation
- ✓ Configurable for single unit operation or address up to 15 pumps individually
- ✓ Custom tip adaptors in orientations and sizes to fit your instrument design
- ✓ Overall dimensions:  
Vertical orientation (L x W x D): 130.5 mm x 30.6 mm x 25.0 mm  
Horizontal orientation (H x W x D): 53.7 mm x 107.7 mm x 25.0 mm (without disposable tip)
- ✓ Pump volume options: 50  $\mu\text{L}$ , 250  $\mu\text{L}$ , 1000  $\mu\text{L}$
- ✓ Optional pipette tips and evaluation kit



## Air-Z Legacy

Air-Z Legacy is a single tip air displacement pipette designed for use on liquid handling robotic systems.

### FEATURES

- ✓ Three configurations: standard, w/integrated homing sensor and "Instrument Ready"
- ✓ Custom mounting configurations available
- ✓ Custom tip adaptors available
- ✓ Proven Tricontinent air displacement solution since 2008
- ✓ Overall dimensions (H x W): 131 mm x 47 mm (without disposable tip)
- ✓ Pump volume options: 200  $\mu\text{L}$ , 1000  $\mu\text{L}$ , 2000  $\mu\text{L}$ , 5000  $\mu\text{L}$
- ✓ Optional tips and evaluation kit



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