



EVACUATED RECEPTACLE DRAW VOLUME TESTER

Evacuated Receptacle Draw Volume Tester | ISO 6710:2017

Evacuated Receptacle Draw Volume Tester – ToronMed™ ERDVTCM05A is designed to measure the draw volume of single-use containers for human venous blood specimen collection. This system ensures compliance of vacuum blood collection tubes with international standards under varying altitude conditions, helping laboratories and manufacturers guarantee reliable and safe performance.

Why Choose Evacuated Receptacle Draw Volume Tester – ToronMed™ ERDVTCM05A?

The Evacuated Receptacle Draw Volume Tester – ToronMed™ ERDVTCM05A offers precision, automation, and compliance for laboratories and medical device manufacturers. By simulating altitude variations and measuring draw volume under stable vacuum conditions, this tester ensures vacuum blood collection tubes consistently meet international standards.

With features like large data storage, GMP-ready audit trails, and eco-friendly design, the Evacuated Receptacle Draw Volume Tester is an essential solution for ensuring the quality and safety of blood collection devices.

APPLICATIONS

Standards Compliance

The ToronMed™ ERDVTCM05A Evacuated Receptacle Draw Volume Tester is designed in accordance with:

- ISO 6710:2017 – Single-use containers for human venous blood specimen collection



FEATURES

- Negative Pressure Method
Advanced dual-pressure system ensures highly accurate testing of vacuum draw volumes.
- High-Speed Processing
Embedded micro-computer and imported precision chips improve test efficiency and accuracy.
- Constant Vacuum Maintenance
Automatic pressure compensation maintains stable preset vacuum levels throughout testing.
- Automatic Functions
Includes automated blow-back and unloading functions for smooth operation and test completion.
- Built-In Safety Design
Overvoltage protection and power-off memory provide stability and security during testing.
- Connectivity & Low Power Use
RS232 interface for PC data transfer, with low energy consumption for eco-friendly performance.
- Large Data Storage Capacity
Stores up to 50,000 test records, with integrated micro printer for reporting.
- Customizable & Modular
Standardized design supports modular add-ons to meet diverse laboratory requirements.
- High Stability Vacuum Generator
Equipped with an SMC vacuum generator, ensuring stable and reliable test data.

THEORY & METHOD

Test Principle

The Evacuated Receptacle Draw Volume Tester operates by inserting the vacuum blood collection tube into the puncture site of the test chamber. Pressure inside the vacuum chamber is maintained to simulate real-world use conditions at different altitudes.

After a one-minute resting period, the blood draw volume is determined by measuring the weight difference of the tube before and after sampling, providing accurate compliance verification.

TECHNICAL SPECIFICATIONS

Specification	Value
Vacuum Degree	0 to -90 kPa
Sensor Accuracy	0.5% FS
Vacuum Chamber Size	Standard Chamber 300: $\phi 310 \times 355$ mm (H)
Effective Chamber Size	$\phi 270 \times 210$ mm (H)
Vacuum Stability	± 0.1 kPa with automatic compensation
Display & Control	7-inch HD touchscreen
Air Supply Pressure	0.7-0.9 MPa (customer-supplied)
Vacuum Generator	SMC high-stability vacuum generator
Instrument Dimensions	$300 \times 385 \times 150$ mm
Net Weight	Instrument: 7 kg, Chamber: 9.5 kg
Voltage	AC 220V 50Hz / 120V 60Hz

Standard Configuration

- Main instrument unit
- Standard vacuum chamber
- Micro printer
- Test frame



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