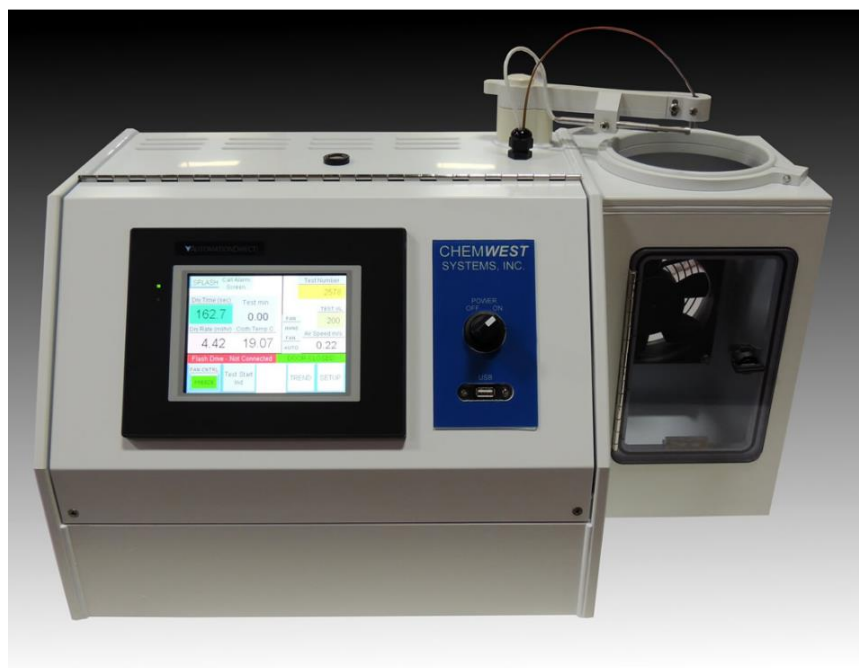


Air Flow Method Dry Rate Testing Unit



DRY RATE TESTING UNIT, AIR FLOW METHOD (DRTU/AF)

Designed to test the drying rate of textiles at their absorbent capacity, Chemwest's DRTU/AF conforms to the specifications developed and copyrighted in 2012 by AATCC (American Association of Textile Chemists and Colorists) Committee RA63.

By employing the Air Flow Method⁽¹⁾, the drying rate of a textile is determined by the evaporation rate that occurs at its approximate absorbent capacity.

Our self-contained module facilitates dry-rate measurement at absorbency for all types of fabrics⁽²⁾ with a consistent repeatable testing process. The **Dry Rate Testing Unit/Air Flow** comes pre-programmed for easy operation, and programmable controller and touch screen with USB and Ethernet ports for downloading test results (see full list of specifications). Output results can be programmed for as low as one second intervals. Tests for absorbent capacity, for dry rates, records and downloads test data.

- Determines the drying rate of a fabric at the approximate absorbent capacity

Air Flow Method Dry Rate Testing Unit

- Automated test unit for repeatability and consistent testing
- Compact desktop design
- Easy to use 6" touch screen
- USB & Ethernet ports for data storage and easy transmittal to computer data files
- Method is applicable to all types of fabrics, including knits, wovens, and non wovens²

MATERIAL, COMPONENTS AND SPECIFICATIONS

- Enclosure ~ White PVC-C (flame retardant and chemical resistant material, in accordance with Factory Mutual (FM) 4910)
- Door ~ Clear blue PVC
- 6" Color Touch Screen
- PLC controls
- Adjustable leveling feet
- UL 508a approved, GFI, Custom Electrical set up per jurisdiction
- Temperature Recorder with capabilities to take readings every 1 second, data storage, and transmittal to external data file
- IR Thermocouple probe, temperature range of 15-50 +/- 0.1deg C
- Adjustable Fan
- Micropipette, adjustable volume, 0.100-1.000 +/- 0.003ml
- Anemometer, Hot wire-type, capable of measuring air flow from 0.5-2.5 +/- 0.1m/s
- USB to accommodate recording test output to thumb drive device
- Ethernet port to facilitate direct connection of laptop/desktop
- Dimensions – 12.5"L x 23.63"W x 15"H

Air Flow Method Dry Rate Testing Unit

FEATURES AND BENEFITS

Features	BENEFITS
Consistent repeatable testing mechanism	Combined with a consistent laboratory environment, test unit provides a copy exact platform from unit to unit
Integrated design	Design merges critical components to test all fabric types ⁽²⁾
6" color touch screen and PLC controls	Ease of operation with easy to understand, simple pre programmed process. Capable of measurements @ 1 second intervals, data storage and transmitting
USB and Ethernet ports	Easy access to download recorded test results to thumb drive or computer data file
Equipment Cooling Fans	Fans adjust to appropriate test air flow with additional capacity/durability
IR Thermocouple	Probe provides exacting temperature measurement
Bubble level and Leg levelers	Level and solid unit foundation
Compact design	Economical use of space in lab environment

¹ Reference AATCC Test Method 200-2012, AATCC Technical Manual 2013 pp 398 – 400. Developed in 2012 by AATCC Committee RA63

² Not for testing textiles taken from socks or hosiery, this method is limited to textiles tested on the non-face side – that exhibit a maximum absorbency time of 30 +/- 2 s as measured by AATCC TM 79, Absorbency of Textiles (see(14.1). It is not applicable to textiles that exhibit absorbency of more that 30 +/- 2s.

For inquiries, please contact



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