



TORONTECH



DUAL DRUM FRIABILITY TESTER WITH WEIGHING SCALE INTERFACE TORONFRI™ 2W

Dual Drum Friability Tester with Weighing Scale Interface ToronFRI™ 2W ensures precise and efficient testing of tablet durability. It features automatic sample discharge, unique front-loading drums, protocol storage for up to 10 drugs, and compliance with USP, Ph. Eur, and IP standards. With online validation, memory retention, and power failure recovery, it delivers reliable results for advanced pharmaceutical testing.

APPLICATIONS

Types of Drums

The Friability Tester accommodates two drum types:

1. **Standard Drum**
2. **Abrasion Drum** (designed for more demanding tests on tablet and coating durability)

Snap-Lock Mechanism

1. Securely holds single or double drums in place with the TM Snap-Lock knob.
2. Designed for ergonomic and seamless operation.

Operation Modes

Testing can be carried out using one of the following modes:

1. **Timer Mode**
2. **Counter Mode**

Alphanumeric Keypad

1. Includes an alphanumeric keypad for entering product and sample details with ease.

Results

1. Results like % friability and weight-loss can be calculated.

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Standard accessories

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Friability drum

EF-1W Part no – 0402A00009

Position A – 0402A00012

Position B – 0402A00013

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Tablet collection SS drawer

Position A – 0403A00001

Position B – 0403A00003

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Abrasion drum

Part no – 0402A00008

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Printer Epson LX-310 plus

Part no – 0201A00020

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FEATURES

- Fully compliant with **USP**, **Ph. Eur**, and **IP** standards.
- **Automatic Sample Discharge**: Test samples are automatically transferred to their designated trays post-testing.
- **Convenient Loading**: Samples can be loaded into the drum without removing it, thanks to the unique front-loading system.
- **Secure Drum Engagement**: Positive engagement with the drive ensures no slippage during operation.
- **Tilt Adjustment**: The drum can tilt at **10°** with the benchtop, as specified by USP.
- **Protocol Storage**: Save test data for up to ten different drugs for future use.
- **Precise Drum Positioning**: Unique drum positions ensure accurate and reliable results.
- **Automatic Drum Positioning**: Drums automatically align for loading new samples.
- **Data Retention**: Programmed values remain stored in memory, even after power loss.
- **Online Validation**: Real-time monitoring of revolution count and speed.
- **Power Failure Detection**: Automatically resumes and completes testing after power is restored.

TECHNICAL SPECIFICATIONS

Model	EF-2W	
Product code	230 Volts	110 Volts
	M.S.: 0420300 S.S.: 0440300	M.S.: 0410300 S.S.: 0430300
No. of drums	2	
Speed	20 RPM to 60 RPM	
Accuracy	± 0.5 RPM	
Timer	1 sec to 9 hrs. 59 min 59 sec	
Count	1 to 9999 revolutions	
Display	24 x 2 character LCD	
Printer Interface	Serial	
PC Connectivity	Standard : Serial Optional : External LAN	
Electrical power	220/230 V AC ± 10%, 50 Hz, 18 VA 100/110 V AC ± 10%, 50/60 Hz, 18 VA	
Dimensions (W x H x D)	350 mm x 430 mm x 310 mm	
Weight	12 kg	



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