



**FRIABILITY TESTER**  
**QFR-200**

## OVERVIEW

Friability testing is used to test the durability of tablets during packing processes and transit. This involves repeatedly dropping a sample of tablets over a fixed time, using a rotating drum with a baffle. The result is inspected for broken tablets, and the percentage of tablet mass lost through chipping.

QFR 200 is a Double drum tablet friability and abrasion test instrument. It is manufactured in compliance to the USP <1216>, EP <2.9.7> and JP <14> Pharmacopoeias.

The instrument features an automated sample discharge at the end of a test and the possibility to connect an analytical balance.

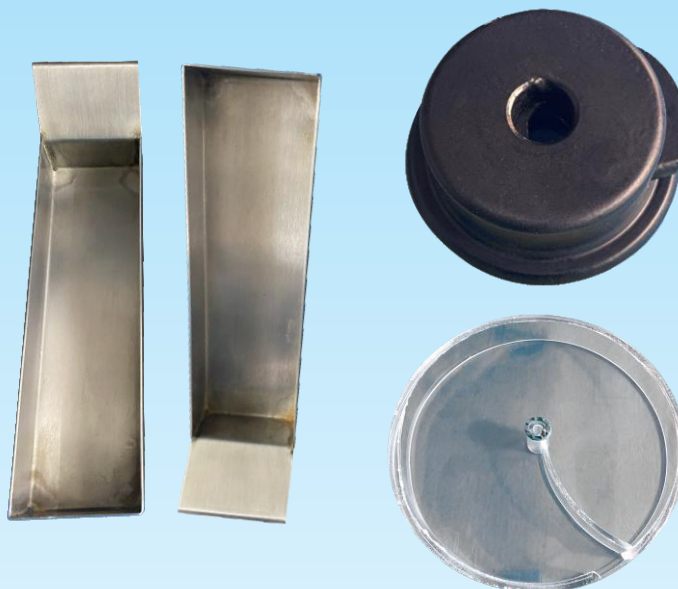
## FEATURES

- Fully USP <1216>, EP <2.9.7> and JP <14> compliant
- 5" TFT LCD WITH TOUCH SCREEN
- Auto Unloading By Rotating in Reverse Direction.
- Determine friability and abrasion (optional) of uncoated tablets
- Programmable for number of drum revolutions or rotating time
- Connect a balance to determine the sample weight (optional, weight can be entered manually)
- Connect to RS485/232 Port to copy methods and store test reports
- Integrated protocol printer (optional)
- User and method management system
- Optional Abrasion Drums
- Optional 10Degree Angle Stand

## PARTS & ACCESSORIES

Included in the Standard Scope of Supply

- One friability drum made from Plexiglas (optional incl. anti-static coating), in compliance with the USP, EP and DAB pharmacopoeia
- Comprehensive documentation included (PDF, hardcopies optional):
- User manual
- DQ/QC instrument compliance test certificate
- IQ documentation
- OQ documentation
- Instrument logbook
- Compliance certificates

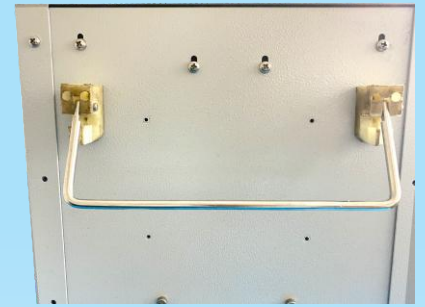


## SPECIFICATIONS

● Drums	: Acrylic ,two numbers
● Display	: 5" TFT LCD with touch screen.
● Parameters	: Time, count
● Unit Time	: hour minute and seconds
● Rpm Control	: Microprocessor controlled stepper motor
● 10° Stand	: to Test Large Samples
● Rpm Range	: 20 to 50 rpm
● Rpm Accuracy	: ± 1% of full scale
● Rpm Resolution	: 1%
● Timer Range	: 1min to 999min
● Timer Accuracy	: 0.1%.
● Count range	: 001 to 999
● Count accuracy	: ±1
● Printer	: connectivity through RS232/485 port. serial / Dot matrix
● Power Requirement	: 230VAC 50 Hz 5A./110VAC 60Hz 10A
● Dimensions (L x W x H)	: 350 x300x450
● Weight	: 10kg
● Validation Documents	: IQ/OQ Documents

## OPTIONAL ACCESSORIES

- Friability drum with anti-static coating
- Tablet abrasion drum with lamellas
- 10° stand to test large samples
- Internal thermal printer
- Certified calibration tools (Digital Vernier, Angle Measuring Tool ,Stop Watch)



## SAMPLE TEST REPORT COMPANY NAME

Date:02/02/2019	Instrument ID:AD/QC1/001	Sr. no.:1902001
Time:12:04:00		Model:Qfw-2
Product Name: Sample test		Lot
No.:AB/QC/T-102		
Batch No. :A-123		
Drum:Friability		No.of Drums: 2
Mode:timer	Set rpm :25	
Set Time : 00:04:00(hh:mm:ss)		
Initial weight of tablets in Drum 1:160.0mg		
Initial weight of tablets in Drum 2:180.0mg		
Final weight of tablets in Drum 1:157.0mg		
Final weight of tablets in Drum 2:179.0mg		
<b>Result:</b>		
Weight loss of tablets in Drum1= 1.875%		
Weight loss of tablets in Drum2= 0.555%		
Remarks: _____		
Test: Complete		
Tested by: _____		Approved by: _____

# QUALITY LAB SOLUTIONS