

Your Quality, Our Assurance



# Snaplock<sup>™</sup> Mechanism

 Two different cylinder holders with Snaplock<sup>™</sup> mechanism designed to hold the 100 mL and 250 mL cylinders



## USP Method 1 and USP Method 2

- The instrument has 2 methods:
  - USP Method 1
  - USP Method 2
- The test can be performed in 2 different modes in both test methods
  - USP mode test will run with set number of taps as per USP requirements
  - User mode test will run with set number of taps as per user requirements



# Simultaneous Rotating and Tapping Motion

 Minimizes any possible separation of the mass during tapping down



# Free Drop of the Cylinder

 Virtually friction-free bearings ensure a free drop of the cylinder from required height



### Quality by Design

- · Compliance with USP and ASTM specifications
- 24 x 2 alphanumeric LCD display
- Prompts on the LCD display during the test guides the user
- · Online menus and status indicators
- Online validation of drops per minute
- Retention of programmed values in the memory of the instrument
- Power failure detection allows remaining test completion on power resumption
- At the end of the test, results like Tapped Density, Compressibility Index and Hausner Ratio are calculated and displayed
- RS-232 serial port can be connected for printing the test report on serial printer and can be transferred to the computer via optional LAN connectivity device



# Report

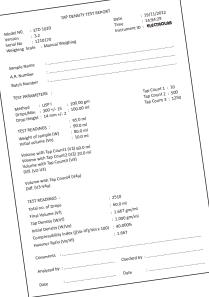
### Report includes:

- Test results like Tapped Density, Compressibility Index and Hausner Ratio
- Time and date on which the test was performed
- Serial number of the instrument
- Entry fields for user name and product details

# **Tap Density Tester**



ETD- 1020





User Friendly Operation



Results



LAN (optional)



Print

USP 1 (ETD-10) & USP 2 (ETD-20) also available

Test Report

# Standard Accessories



Measuring cylinder 100 mL class 'A' with certificate

Part no - 0301A00001



Measuring cylinder 250 mL class 'A' with certificate

Part no - 0301A00003



Cylinder holder for 100 mL Part no - 0301A00017

holder for 100 mL Cylinder ho



Cylinder holder for 250 mL Part no - 0301A00018

# Adapter for 10 mL Measuring cylinder Part no - 0301A00011 Acoustic cabinet Part no - 0301A00014 Reduces the sound level to 71 dB to meet laboratory standards

Part No.	Description
0301A00002	Measuring cylinder 100 mL 'B' without certificate
0301A00004	Measuring cylinder 250 mL 'B' without certificate
0301A00005	Measuring cylinder 50 mL 'A' with certificate
0301A00006	Measuring cylinder 50 mL 'B' without certificate
0301A00009	Measuring cylinder 25 mL 'A' with certificate
0301A00010	Measuring cylinder 25 mL 'B' without certificate
0301A00007	Measuring cylinder 10 mL 'A' with certificate
0301A00008	Measuring cylinder 10 mL 'B' without certificate

Specifications			
Model	ETD-1020		
	230 Volts	110 Volts	
Product code	M.S.: 0320300 S.S.: 0340300	M.S.: 0330300 S.S.: 0310300	
Test methods	USP 1 and USP 2, ASTM (optional)		
No. of station	2		
Tap height	USP 1 : 14 mm ± 2 mm / 3 mm ± 0.2 mm, USP 2 : 3 mm ± 0.2 mm		
Taps / minute	USP 1 : 300 ± 15 / 250 ± 15 , USP 2 : 250 ± 15		
No. of tap counts	10, 500, 1250		
No. of taps (user mode)	1 to 9999		
Display	24 x 2 alphanumeric LCD		
Type of drive	Direct drive with stepper motor		
Printer interface	Serial port		
PC connectivity	Standard : Serial Optional : External LAN		
Electrical power	220/230 V AC ± 10%, 50/60 Hz, 44 VA 110 V AC ± 10%, 50/60 Hz, 44 VA		
Dimensions (W x H x D)	36 cm x 20 cm x 32 cm		
Weight	17 Kgs		

# X

# **Cares & Maintenance**

• It is advised to lock the cylinder holder properly before starting the test. Not doing so could lead to accidents & breakage of glasswares.

Please ask Electrolab's Service Engineer / Sales Person, to confirm whether your existing Tap Density is compliant to current USP Criteria

# **Our Products**

• Complete range of Dissolution Testers • Dissolution Media Preparator • Disintegration Testers • Friability Testers • Tablet Hardness Testers • Electromagnetic Sieve Shakers • Bulk Density Tester • Powder Flow Tester • Leak Testers • Peristaltic Pumps

The information contained in this document is believed to be correct but **ELECTROLAB** accepts no liability for any errors and reserves the right to alter specifications without notice

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