



### **Manual, three station Tablet Disintegration tester, DIST 3**

**The DIST 3** is essentially a three station version of the PTZ S. This instrument offers the attractive combination of low cost and high sample throughput. All three standard disintegration baskets are suspended from a common drive arm which is attached to a single drive motor. All three baskets are in operation at any one time. The orientation of the baskets, which are all USP and EP compliant, is from front to back.

The DIST 3 is used for the manual testing of disintegration times of tablets, capsules and other solid dosage forms. The three basket DIST 3 version offers the following features:

- totally silent operation
- vibration free movement, stroke height set to 55 mm at 30 strokes/min.
- user adjustable number of strokes
- digital display of elapsed testing time and auto stop at the end of a run
- Total testing time (pre-selectable) between 1 second to 24 hours
- small footprint
- exchangeable baskets for apparatus "B" (30mm tube size) as described in the USP and EP

A 24V DC motor drive smoothly moves the baskets up and down over a distance of 55 mm (each way), 30 times per minute. Every two seconds the stroke rate is self adjusted; the stroke height is pre-set by the eccentric drive mechanism. The basket which holds the glass tubes and discs, is placed into a stainless steel holder and moves smoothly into the testing medium. Depending on the operating procedure, the test is either automatically stopped if the pre-set time has expired or if the operator aborts the test. The basket always stops at its highest mechanical position.

The digital LED display shows the elapsed testing time; using the "Recall" key on the keyboard, any pre-set time can be displayed.

A built-in thermostatically controlled heater warms the water within the plexiglass (perspex) bath up to 37°C. A powerful pump is used to circulate the water within the bath at a rate of about 1.4 l/min. The pre-selected temperature is automatically adjusted by a built-in control sensor. A second sensor is used as a safety device which switches off the heater should the temperature rise above 55°C. An over-temperature fuse and switch, fixed to the heater, provide additional safety features to protect the system from overheating.

The bath temperature can be adjusted within the range of 30°- 40°C. Using a thermometer the temperature of the test medium can be checked at any time. The standard basket is supplied with 6 glass tubes and 6 plastic discs. Optionally, the 3 tube basket according to apparatus "B" of the USP can be used without any further modifications.

### **Technical Data**

Display:	LED Display
Keyboard:	function keys
Work stations:	3 all at the same stroke arm
Stroke Frequency:	30 strokes/minute
Accuracy:	± 1 stroke
Stroke Height:	55 mm
Accuracy:	± 1 mm
Thermostat:	built-in 1000 W heating tube and circulation pump, 2 digital sensors, overheating protection, adjustable with 30° to 40° C
Accuracy:	± 0.3° C

### **Dimensions and Weights**

Net weight:	approx. 15 kg
Gross weight:	approx. 21 kg
Packaging:	approx. 70 x 50 x 50 cm



"B" Basket, (Test "B" 2.9.1.2 EP) 33 mm diam., used to test bigger samples order no. 105-2014 incl. glass tubes and disks

We reserve the right to make technical changes without any prior notice

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