

## Manual Tablet Disintegration Testing - Type PTZ S



The **PTZ S** is a manual tablet disintegration tester, manufactured according to the recent USP<701/2040>, EP<2.9.1/2.9.1.2>, JP and other pharmacopoeias.

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

- LCD Display informing of running time, temperature, instrument version and serial number
- pre-programmable maximum disintegration time with auto-stop function
- Totally silent operation
- Vibration free movement, stroke height set to 55 mm at 30 strokes/min.
- Disintegration Baskets always stops at highest point
- 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 <2040> and EP <2.9.1.2>

A silent 24V DC motor drive smoothly moves the disintegration basket up and down over a distance of 55 mm (each way), 30 times per minute. Every two seconds the stroke rate is automatically re-adjusted; the stroke height is pre-set by the eccentric drive mechanism. The disintegration basket which holds the glass tubes and discs, is placed into a stainless steel

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holder. After start it is smoothly moved 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 after he saw all samples to be disintegrated. The basket always stops at its highest mechanical position.

The digital LED Display shows the elapsed testing time and bath temperature as well as the instrument version and its serial number.

A built-in thermostatically controlled heater warms the water within the Plexiglas (Perspex) bath up to 37°C. A powerful pump is used to circulate the water within the bath. 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 outside the limit. A thermo fuse and a thermo switch, fixed to the heater, provide additional safety features to protect the system from overheating.

The bath temperature can be steplessly adjusted. Using a control thermometer the temperature of the test medium can be checked at any time. The standard disintegration basket is supplied with 6 glass tubes and 6 plastic discs. Optionally, the 3 tube basket according to apparatus "B" of the EP <2.9.1.2> and USP <2040>, can be used without any further modifications.

### **Technical Data**

Display:	LED Display
Keyboard:	6 function keys
LED:	operation control LED (green = operating / red = in-active)
Stroke Frequency:	30 strokes/minute
Accuracy:	± 1
Stroke Height:	55 mm
Accuracy:	± 1
Thermostat:	built-in 1000W heating tube and circulation pump, 2 digital sensors, overheating protection, adjustable with 30° to 40° C
Bath Temp. Accuracy:	± 0.3° C

### **Dimensions and Weights**

Net weight:	approx. 13 kg
Gross weight:	approx. 19 kg
Packaging:	approx. 70 x 50 x 50 cm

"B" Basket, (Test "B" EP <2.9.1.2> and USP <2040>) 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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