

PTZ-S

Single Basket Tablet Disintegration Tester

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

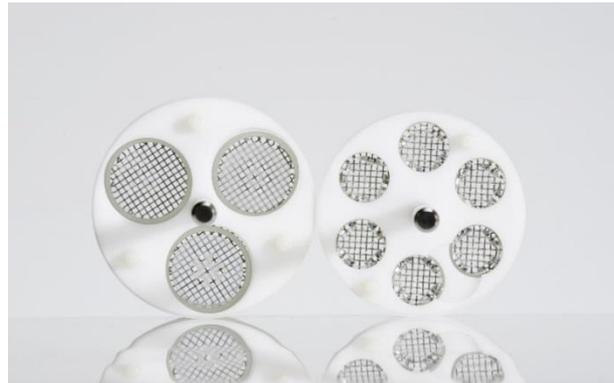


The PTZ-S is used for the manual testing of disintegration times of tablets, capsules and other solid dosage forms. The single basket PTZ-S version offers the following features:

The illuminated digital LED display shows the elapsed testing time and the firmware version. 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 holder. After start it is smoothly moved into the testing medium.

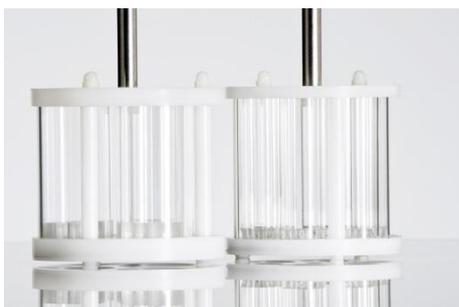
Depending on the operating procedure, the test is either automatically stopped if the pre-set time has expired or if the operator aborts the test after he saw all samples to be disintegrated. The basket always stops at its highest mechanical position.

The 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.



A built-in thermostatically controlled heating system 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 an external control thermometer the temperature of the test medium can be checked at any time.



Advantages

Some of the highlights the PTZ-S instruments offer are:

- » LED display informing of running time and firmware version
- » Totally silent operation of the stroke mechanism
- » Pre-programmable maximum disintegration time with Auto-Stop function
- » Vibration free movement, stroke height set to 55 mm at 30 strokes/min
- » Disintegration basket always stops at highest point
- » Built-in heating system includes overheating protection
- » Small footprint: approx. 42 x 26 x 42cm (width x depth x height)

Features

The main features of the PTZ-S instruments are:

- » Fully USP <701/2040> and EP <2.9.1/2.9.2> compliant
- » Temperature adjustable within about 30 to 45°C
- » Digital LED display of elapsed testing time and auto stop at the end of a run
- » Single and triple station (DIST-3) instruments available
- » Exchangeable baskets for apparatus "B" (30mm tube size) as described in the USP <2040> and EP <2.9.1.2>]
- » GMP compliant stainless steel housing

Standard Scope of Supply

The PTZ-S instruments come ready to use with the following standard scope of supply:

- » One six position "A type" disintegration baskets for each testing station
- » One set of six glass tubes for each disintegration basket
- » One set of six disintegration disks for each disintegration basket
- » One 1 liter glass beaker
- » One bottle of ALGEX water preservative
- » Comprehensive documentation folder including:
 - > User manual
 - > DQ/QC instrument compliance test certificate
 - > IQ documentation
 - > OQ documentation
 - > Instrument logbook
 - > Compliance certificates for vessels and stirring tools

Options

In addition to the standard scope of supply Pharma Test offers a broad range of accessories and options including:

- » Alternative three position "B type" disintegration baskets for larger samples

Technical Data

Parameter	Specification
Display	LED, illuminated
Data Entry	Functional Keys
Testing Positions	1 basket for 6 samples (alternative basket for 3 larger samples available)
Timer	1 sec. up to 9 hrs. 59 min. 59 sec.
Stroke Height	Fixed at 55mm
Stroke Frequency	30 strokes / minute
Temperature Adjustment	By potentiometer within approx. 30° to 45°C
Instrument Housing	Stainless steel, powder coated surface for better material protection
Calibration	Built-in calibration procedures for speed, temperature control, OQ/PQ interval programmable including alarm
Instrument Dimensions (consider 10cm clearance in addition on each side)	Approx. 42 x 26 x 42cm (width x depth x height)
Packaging Dimensions	Approx. 60 x 48 x 62cm (width x depth x height)
Net / Gross Weight	12 / 18kg
Certification	All components certified to USP / EP requirements
CE / EMC Certification	All CE / EMC Certification provided
Validation	All IQ & OQ documents included

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