



DATA SHEET

100 Automated Disintegration Apparatus

The Agilent 100 automates up to three basket disintegration tests according to USP guidelines in an integrated, programmable apparatus.



Key Benefits

- ▶ **Efficient.** Quickly conduct sequential or simultaneous disintegration tests. The three-basket system allows for multiple independent operations, even while the system is left unattended.
- ▶ **Integrated.** Eliminate the need for separate auxiliary components. The Agilent 100 integrates the drive system, water bath and heater/circulator within a single platform.
- ▶ **Compact.** Designed to save valuable laboratory bench space.
- ▶ **Compliant.** Be confident knowing your Agilent 100 disintegration baskets, disks and vessels meet current USP specifications for disintegration testing.



Quick-disconnect fittings for easy water bath draining and cleaning.



Standard 6-tube basket for automated unit.

The Agilent 100 Automated Disintegration Apparatus is a programmable system for testing disintegration of dosage forms.

Programmable Capabilities

The user directs independent control of up to three separate test baskets for either simultaneous or sequential operation through an easy-to-use keypad. Baskets can be programmed to automatically lift out of the beakers upon completion of a test.

Temperature Control

The water bath temperature is controlled from the keypad and is continuously displayed on the front-facing LED panel. The programmed temperature can be reached in minutes and is maintained throughout the duration of the test. Once the vessels reach the desired temperature, the operator may program the drive units to lower the baskets for the test.

Additional System Features

- Quick-disconnect fittings for easy water bath draining and cleaning.
- Optional printer for hard-copy printouts to assist in reporting.

Agilent Verified Components

All standard components, such as the basket rack assemblies, can be ordered with individual certificates that verify conformance of critical dimensions. The certificates contain individual measurements of each dimension, which are verified to meet USP specifications and tolerances. Measurements are obtained with NIST-traceable devices.

Agilent 100 Specifications

Altitude	0 - 2000 m (0 - 6562 ft.)
Temperature	5 to 40 °C
Humidity (non-condensing)	Not more than 80% RH
Voltage requirements	115 V / 60 Hz 230 V / 50 Hz
Current requirements	115 V—15 Amp 230 V—8 Amp
Fuse requirements	Internal circuit breaker, 15 Amp Internal circuit breaker, 8 Amp
Dip speed	30 ± 1 DPM
Stroke length	5.5 ± 0.1 cm
Water bath temperature range	Ambient + 5 to 55 °C
Water bath temperature accuracy	± 0.2 °C
Beaker volume	1000 mL
Disintegration beaker	Inner diameter: 97-115 mm Height: 138-160 mm
Test duration display format	hh:mm:ss programmable up to 99:59:59 (each basket is independently programmable)
Keypad	Sealed switch-type with numeric menu keys
Printer (optional)	Impact
Dimensions	Height: 74.93 cm (29.5 in.) Width: 55.88 cm (22 in.) Depth: 52.07 cm (20.5 in.)
Equipment weight	29.7 kg (65.5 lb), dry with 3 baskets

Ordering Information

Product Description	Part Number
100 Disintegration Apparatus, 3-basket, with three 6-tube, 10-mesh USP disintegration basket	G7962A

Disintegration Options

Product Description	Part Number
6-tube, 10-mesh, 1905 µm, USP, verified	G7962 #110
6-tube, 20-mesh, 864 µm	G7962 #111
6-tube, 10-mesh, 1905 µm, nylon, stainless screen	G7962 #112
3-tube, 10-mesh, 1905 µm, 38 mm OD	G7962 #113
3-tube, 10-mesh, 1905 µm, 38 mm OD, verified	G7962 #114
1-tube, 10-mesh, 1905 µm, 44 mm OD	G7962 #115
6-tube, 40-mesh, 381 µm, screened cover	G7962 #116
Add printer	G7962 #880

Accessory Ordering Information

Product Description	Number of Glass Tubes/Length (mm)/ OD (mm)	Mesh Size of Type 316 Stainless Steel Screen	Application	Part Number
Basket	6/80/25	10	–	37-3001
Verified Basket	6/80/25	10	–	37-3001V
Basket	6/80/25	20	–	37-3010
Nylon Basket	6/80/25	10	–	37-3020
Basket	3/80/38	10	For bolus and large tablets	37-3030
Basket	1/92/44	10	For bolus and large tablets	37-3040

The Agilent 100 includes components required for performing the standard USP disintegration test: 6-tube basket assembly(ies) with 80 mm tube length, 10-mesh/1905 µm stainless steel screens, disintegration beaker(s) and fluted disk(s). The 10-mesh basket conforms to USP requirements with an aperture of 1.8-2.2 mm and a wire diameter of 0.57-0.66 mm. Additional disintegration basket configurations and accessories are also available for bolus formulations.

To learn more about Dissolution Testing,
visit us at www.agilent.com/lifesciences/dissolution

