



280-DS Specifications

Specification Sheet



Redefining Mechanical Qualification, the 280-DS Mechanical Qualification System provides quantitative values for all physical parameters of the dissolution apparatus. It is designed to take quick, accurate measurements at the proper locations as prescribed by current industry regulations.

Vessel Module

Parameter	Range	Display Resolution	Tolerance
Vessel Diameter	98-106 mm	0.1 mm	+/- 0.1 mm
Paddle/Basket Height	23-28 mm	0.1 mm	+/- 0.2 mm
Vessel/Shaft Centering	0-2 mm	0.1 mm	+/- 0.2 mm
Vessel Verticality	+/- 1.5°	0.1°	+/- 0.1°
Shaft Verticality	+/- 1.5°	0.1°	+/- 0.1°
Basket/Shaft Wobble	1.5 mm	0.1 mm	+/- 0.1 mm
Shaft Rotational Speed	20-250 RPM	0.1 RPM	+/- 0.2 RPM

Instrument Module

Parameter	Range	Display Resolution	Tolerance
Temperature	30-45°C	0.1°C	+/- 0.1°C
Vibration	Frequency	0-250 Hz	0.1Hz
	Amplitude	10 - 50 mG	1 mG
	Amplitude	>50 - 100 mG	1 mG
Plate Level	+/- 1.5°	0.1°	+/- 0.1°

System

Parameter	Details	Measurement
Ambient Temperature		10 - 35°C
Humidity (non-condensing)		< 75%
Electrical Requirements	Voltage	5V
	Current	500 mA

Dimensions and Weight	Instrument Module	Value
	Height	5 cm
	Width	7.5 cm
	Depth	5 cm
	Weight	0.4 kg
Vessel Module		Value
	Max Height	20 cm
	Width	8 cm
	Depth	13 cm
	Weight	0.6 kg

Parameter	Details	Specification
PC Requirements	Microsoft® Windows®	7 (32-bit or 64-bit) or 8 (32-bit or 64-bit)
Processor	1.5 GHz or faster	Intel® Pentium® 4 or equivalent
USB Port	2.0	1 (minimum)
PC Memory (RAM)		1 GB (minimum)
Optical Drive		16x CD-ROM
Hard Drive Space		10 GB (minimum)
Screen Resolution		1280 x 960 at 16M colors (minimum)



Agilent Technologies

For more information

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