



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.

| Specification | Details | Measurement |
|---------------------------|--------------------|------------------|
| Ambient Temperature | | 10 - 35°C |
| Humidity (non-condensing) | | < 75% |
| Electrical Requirements | USB 2.0 port | |
| | Voltage | 5V |
| | Current | 500 mA |
| Temperature Probe | Range | 30 - 45°C |
| | Accuracy | ±0.1°C |
| Vibration | Frequency Range | 0 - 250 Hz |
| | Frequency Accuracy | ±1.0 Hz |
| | Amplitude Range | 10 - 100 mG |
| | Amplitude Accuracy | ±4 mG |
| Plate Level | Range | ±1.5° |
| | Accuracy | ±0.125° |
| Vessel Diameter | Range | 98 - 106 mm |
| | Accuracy | ±0.1 mm |
| Paddle/Basket Height | Range | 23 - 28 mm |
| | Accuracy | ±0.2 mm |
| Shaft Centering | Range 1 | ±1.5 mm |
| | Accuracy 1 | ±0.1 mm |
| | Range 2 | > ±1.5 to 2.0 mm |
| | Accuracy 2 | ±0.2 mm |

| Specification | Details | Measurement |
|------------------------|-------------------|----------------|
| Vessel Verticality | Range | ±1.5° |
| | Accuracy | ±0.125 mm |
| Shaft Verticality | Range | ±1.5° |
| | Accuracy | ±0.125° |
| Shaft Wobble | Range | 1.5 mm |
| | Accuracy | ±0.1 mm |
| Basket Wobble | Range | 1.5 mm |
| | Accuracy | ±0.1 mm |
| Shaft Rotational Speed | Range 1 | 20 - 50 RPM |
| | Accuracy 1 | ±0.2 RPM |
| | Range 2 | > 50 - 250 RPM |
| | Accuracy 2 | ±0.5 RPM |
| Dimensions | Instrument Module | |
| | Height | 5 cm |
| | Width | 7.5 cm |
| | Depth | 5 cm |
| | Vessel Module | |
| | Max Height | 20 cm |
| | Width | 8 cm |
| Depth | 13 cm | |
| Weight | Instrument Module | 0.4 kg |
| | Vessel Module | 0.6 kg |



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For more information

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