

Specifications

Model	430	416	420
Speed Accuracy	25-525 RPM*	25-525 RPM*	25-525 RPM*
Accuracy	±1 RPM	±1 RPM	±1 RPM
Orbital Motion	1.0 (in) 25 (mm)	1.0 (in) 25 (mm)	1.0 (in) 25 (mm)
Indicator	LCD, readable in 1 RPM increments		
Time Range	Continuous operation (hold) or timed operation from 5 min up to 200 hours		
Time Indicator	LCD, readable in 5 minute increments, counts up for continuous operation (hold) or counts down for timed operation		
Temperature	Optional Temperature Monitoring kit allows flask or ambient temperature to be read on shaker's LCD readout in 0.1°C increments		5°C above ambient to 80°C
Control	±0.1°		
Uniformity	±0.3°C at 37°C (in flask), ±0.6°C at 60°C (in flask), ±1.0°C at 80°C (in flask)		
Indicator	LCD, readable in 0.1°C increments		
Platform Dimensions mm (in) (H x W x D)	749 x 457 mm (29.5 x 18.0) or 914 x 610 mm (36.0 x 24.0)**	457 x 457 mm (18 x 18) or 610 x 457 mm (24 x 18)	457 x 457 mm (18.0 x 18.0)
Exterior Dimensions mm (in) (H x W x D)	198 x 775 x 660 (mm)*** 7.8 x 30.5 x 26.0 (in)*** with 749 x 457 (mm) platform 29.5 x 18 (in)	198 x 617 x 660 (mm)*** 7.8 x 24.3 x 26.0 (in)*** with 457 x 457 (mm) platform 18 x 18 (in)	531 x 617 x 737 (mm) 20.9 x 24.3 x 29.0 (in) 907 (mm) 35.7 (in) high with the lid open 12.6 x 21.4 x 21.2 (in) 320 x 544 x 538 (mm)
Internal Dimensions (H x W x D)	12.6 x 21.4 x 21.2 (in)		
Net Weight kg (lbs)	62.7 (138)	62.7 (138)	83.9 (185)
Power Requirements	115V, 50/60 Hz. 1.0 FLA (Operating range 90 - 125V)	230V, 50/60 Hz. 0.5 FLA (Operating range 180 - 253V)	6.5 FLA (Operating range 90 - 126V) 3.2 FLA (Operating range 207 -253V)
Recommended Amb. Temp	4°C to 40°C (39°F to 104°F)		10°C to 40°C (50°F to 104°F)
Relative Humidity	80% RH at or below 31°C (87.8°F) decreasing linearly to 50% at 40°C (104°F)		

Specifications are based on nominal voltages of 115V/230V in ambients of 22°C to 25°C

Continuing research and improvements may result in specification changes at any time. Performance is plus or minus the least significant digit unless otherwise specified.

* Maximum 400 RPM for 24.0 x 18.0 (in) 610 x 457 (mm) and 36.0 x 24.0 (in) 914 x 610 (mm) platforms

** Must purchase counterbalance assembly number 194012 for first time installation

*** Exterior dimensions are for Model 416 with the 18 x 18 (in) 457 x 457 (mm) platform and Model 430 with the 29.5 x 18 (in) 749 x 457 (mm) platform

Ordering Information

Cat No.	Description
430	Tabletop Orbital Shaker
416	Tabletop Orbital Shaker
420	Tabletop Incubator Shaker

Dual Stack Tabletop Shaker Kit

Product Features

- Combines the tabletop shaker stand and kneewell mount for tabletop shakers in one convenient easy-to-order package (also available separately)
- Stacks two tabletop shakers, saving valuable space
- Gives the user console capacity in a tabletop-sized footprint
- Can accommodate any Forma 400 series tabletop shaker

The "Dual Stack" Tabletop Shaker Kit has a recommended operating limit of 450 RPM. Model 430 shaker cannot be used in the lower position due to stand width limitations. Shakers are not included with the kit and must be ordered separately.



Ordering Information

Cat No.	Description
452000	Dual Stack Tabletop Shaker Kit, includes kneewell slide mount and orbital shaker stand
452002	Kneewell Slide Mount
452001	Heavy duty orbital shaker stand