WaveVortex 10

Specification

Compatible Electrode Tips		
Rotating Disk Electrodes (RDE)	 E5TQ ChangeDisk, PEEK E5TQ ChangeDisk, PTFE E5 Fixed-Disk, PEEK E5 Fixed-Disk, PTFE 	
Rotating Ring-Disk Electrodes (RRDE)	 E6R1 ChangeDisk, PEEK E6R1 ChangeDisk, PTFE E6R2 Fixed-Disk, PEEK E7R8 ThinGap, PTFE E7R9 ThinGap, PTFE 	
Rotation Rate		
Rate Accuracy	- 100 to 200 RPM: accurate to within \pm 2 counts of display reading - 200 to 8000 RPM: accurate to within \pm 1% of display reading	
Rate Display	4 digit display indicates rotation rate (RPM)	
Rate Control (front panel)	10-turn rotation rate control knob	
Rotation Start/Stop (front panel)	push button toggle with LED indicators for "Pause" and "Run"	
Rate Control (external)	allows optional rate control via a signal input (located on external I/O connector) available control ratios: 1 RPM/mV (default), 2 RPM/mV, 4 RPM/mV (jumper selectable)	
Rotation Start/Stop (external)	optional digital (TTL) motor stop input signal (located on external I/O connector) front panel LED indicates when external motor stop is active	
Enclosure Interlock	interlock prevents rotation when enclosure window is in raised position front panel LED indicates when enclosure window is in raised position	
Rate Output	allows optional external rotation rate monitoring via a signal output (located on external I/O connector) output signal ratio: 2 RPM/mV	
Motor		
Motor Power	11 W	
Control Method	closed loop servo-system (PWM) temperature-compensated tachometer mounted on motor shaft	
Motor Type	permanent magnet	
Maximum Continuous Torque	18.7 milliNewton-meters	
Motor Protection	motor current is electronically limited	
Electrical		
Power Requirements	- AC Mains: 100 - 240 VAC, ±10%; 50/60 Hz; 1 A - DC Supply: 24 VDC; 1.5 A	

Electrode Connections	electrode connections are located on the motor unit - disk electrode: red banana jack - ring electrode: blue banana jack
Chassis Terminal	metal banana jack located on the motor unit (a second connection is also provided on external I/O connector)
DC Common	DC Common (analog ground) connection provided on external I/O connector
Physical	
Shipping Information	- shipping weight: 24 pounds (11 kg) - shipping dimensions: 16.0 x 16.0 x 16.0 in (41 x 41 x 41 cm)
Instrument Weight	7.3 kg
Instrument Dimensions	 - width: 15 in (38 cm); depth: 11 in (28 cm) - height with enclosure window in lower position: 15 in (38 cm) - clearance required to raise window to upper position: 24 in (61 cm)
Materials	 enclosure base and sides: black high-density polyethylene enclosure window: clear polycarbonate electronics cabinet: black powder-coated aluminum
Operating Temperature	10°C to 40°C