

## MODEL 1077 CENTRIFUGE SYSTEM

### STANDARD SPECIFICATIONS

**G-Range:** 0 to 83 G's at 20 inch (508 mm) radius

**Payload Capacity:** 15 inch (381 mm) cube, 25 lbs. (11.3 Kg) per end of arm

**Maximum G-lbs.:** 2450 G-lbs

**Rate Range:** 0 to 383 RPM

**Testing Radius:** UUT location is adjustable within mounting platform, 8.5-23.5 inches (216-597 mm)

**Stability:**  $\pm 0.02\%$  of operating rate above 38.3 rpm (1 G at 24 inch Radius). Zero Drift.

**Acceleration:** 0 to 383 rpm in 60 seconds

**Speed Setting Resolution:** 0.02 RPM

**Speed Indication Resolution:** XXX.XX RPM

**Speed Indication Accuracy:**  $\pm 0.01\%$  of operating rate  $\pm 0.02$  RPM

**Vibration Isolation:** Less than 0.1 G from DC to 100 Hz

**Slip Rings:** standard package is 54 lines at 2A per line, 6 lines at 3A.

**Mounting Platform:** 15 x 15 inch (381 x 381mm) specimen mounting platform at each end of symmetrical arm

**Drive System:** 10 ft-lb. peak torque direct drive motor. Feedback signal furnished by optical encoder affixed to the main shaft.

**Control:** Digital, closed loop controller with keypad and RS-232 interface.

**Power:** 230 VAC, single phase, 50/60 Hz, 30A

**Dimensions:** 56 wide x 58 depth x 69 inches Height (1423x1473x1753 mm)

**Weight:** 1000 lbs. (454 Kg)

**Other Standard Features:** 6000 pulse per revolution encoder; Unbalance Sensor provides automatic machine shut down in event of unbalanced loads; Electrical Door Interlocks prevent enclosure from being opened while machine is in motion; leveling kit; Dynamic Braking System; Over-Under Speed Indicator.



### MODEL 1077 OPTIONS

- Additional slip ring lines
- IEEE-488 Communication Interface Converter
- Wireless camera viewing system
- Fluid transfer joint
- Coaxial rotary joint
- Positionable platforms

This Centrifuge System was formerly manufactured by Trio Tech International and Genisco Technology Corporation  
Specifications subject to change without notice

For special requirements or custom specifications, contact Ideal Aerosmith

Please call for pricing information

Revision D