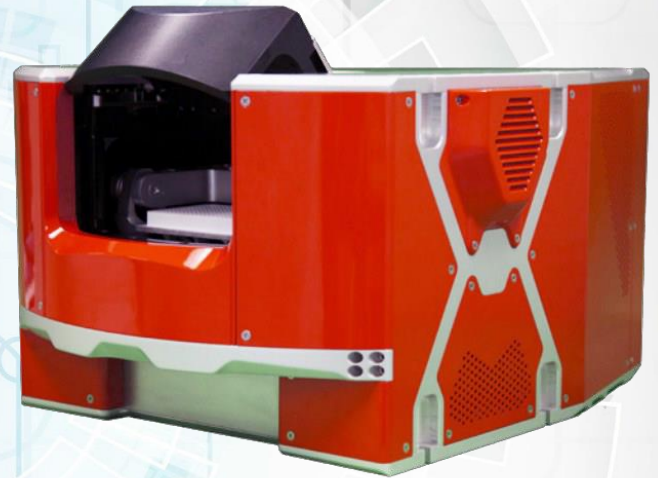


HiG™ AUTOMATED CENTRIFUGE

BioNex
Solutions Inc.

- *High centrifugal force*
- *Imbalance tolerant*
- *Better pelletizing*
- *Cleaner supernatants*
- *Faster filtration*

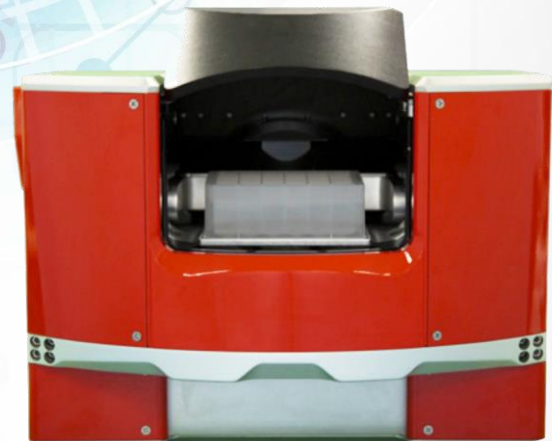


HiG Automated Centrifuge

The BioNex HiG centrifuge line (U.S. Patent 9,446,417) delivers the highest speed of any robot accessible centrifuge on the market today. Capable of rapid acceleration, the HiG line provides better pelletizing, cleaner supernatants, and faster filtration. In addition, the HiG 4 incorporates Peltier cooling to keep samples at or close to ambient temperature operating at maximum RCF and duty cycle.

The dual position rotor design accepts payloads up to 350 grams per bucket, allowing most microplate configurations to be processed easily, including deep well blocks and filter plate assemblies. The balance intolerance is more forgiving of payload weight differences, promoting continual, uninterrupted operation, and provides vibrational stability for other instruments operating on the same platform. The large door opening allows buckets to be accessed directly by a wide range of laboratory robots without an intermediate plate loader, reducing the number of steps required and overall cycle time.

The small footprint of the HiG centrifuges easily integrates with laboratory automation, and two units can be stacked to increase throughput. The HiG is completely powered by standard electrical service, eliminating the need for compressed air or other utilities.



Imbalance Tolerant while maintaining Vibrational Stability

Key Features and Benefits

- High centrifugal force
- Imbalance tolerant
- The HiG 4 is equipped with Peltier cooling to keep samples at ambient
- Low vibration, even during imbalance maximum, does not interfere with nearby instruments
- Fast acceleration and deceleration, 20 seconds
- User programmable: Create spin profiles to optimize any application
- Compact: Small footprint, stackable
- Self-monitoring: Internal measurements validate instrument conditions

Applications

- Pelletizing cells and cellular debris
- Sample preparation
- PCR assays
- DNA purification and sequencing
- Filtration assays
- Dispense bubble removal

General Specifications

	HiG 3	HiG 4
RCF Maximum	5,000 g	4,000 g
Imbalance Tolerance	100 grams	50 grams
Sample Temperature	Depends on RCF, Spin Time, Duty Cycle	<5 °C above ambient
Evaporation (Unsealed Labware)	Depends on RCF, Spin Time, Duty Cycle	Minimal
Payload per Bucket	350 grams	350 grams
Maximum Labware Height	61 mm	61 mm
Maximum Gripper Opening	169 mm	169 mm
Height	292.1 mm [11.5 in]	317.5 mm [12.5 in]
Width	401.3 mm [15.8 in]	401.3 mm [15.8 in]
Depth	551.2 mm [21.7 in]	551.2 mm [21.7 in]
Weight	77.1 kg [170 lbs]	73.5 kg [162 lbs]
Communication	USB 2.0	USB 2.0
Electrical	100-240 VAC, 50/60 Hz, 15 A	100-240 VAC, 50/60 Hz, 15 A
Active Cooling	Fans only	Peltier + fans
Enhanced Device Temp Monitoring	No	Multiple Temp. Sensors on Chamber
Speed Verification Window	No	Yes