

NUAIRE

MULTI-APPLICATION CENTRIFUGE

Smaller in size,
but **BIG** on Capacity.



Multi-Application Centrifuge



NU-C200V VENTILATED MULTI-APPLICATION CENTRIFUGE



NU-C200R REFRIGERATED MULTI-APPLICATION CENTRIFUGE



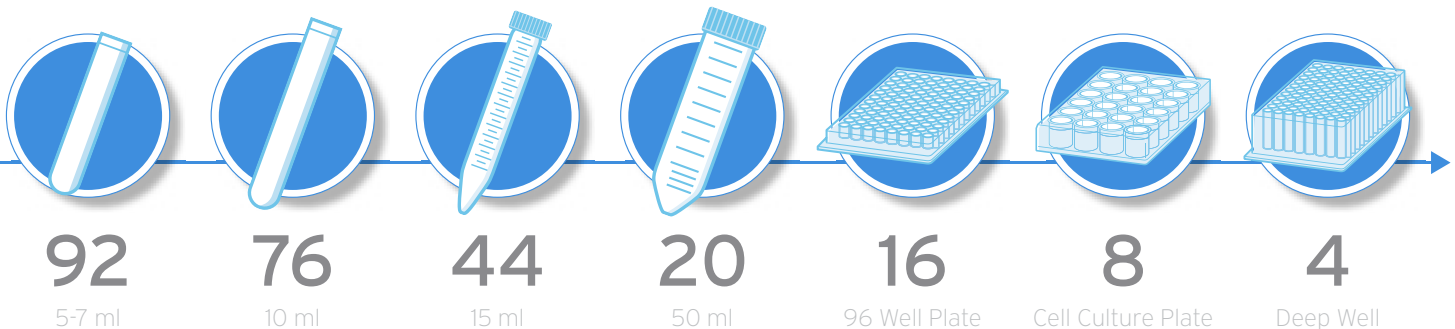
Smaller in Size, but **BIG** on Capacity

The NuWind centrifuge offers the largest capacity available relative to its footprint.

Using a 1/2 inch (13 mm) thick steel shell NuWind minimizes its exterior footprint saving you more bench space while improving safety.

This construction technique allows NuWind to focus on adding more capacity with more speed.

Capacities to Maximize your Work-flow



CLiCK SPIN

Click-Spin patented technology will allow you to exchange rotors in the simplest and fastest way possible; no tools are needed! Align the rotor with the motor shaft and it will sit and lock itself perfectly. Once installed, an audible “CLICK” will ensure you the rotor is properly installed.

When switching rotors per application, grasp the red dial of the rotor and twist counter-clockwise while anchoring the body of the rotor. An audible “CLICK” will sound and your rotor will then be unlocked from the motor shaft. You can now easily remove it and install your new rotor.

Click-Spin technology is available as a standard option on all our rotors.



● **New Bio-Lid Design**

The unique design of our lids allows you to open and close the buckets with a single hand, and they can also be installed and removed with the buckets on the rotor.



● **Routine Cleaning Made Easy**

Contamination can hide in the tightest of places. The ability to remove a rotor within seconds makes the routine cleaning of the centrifuge bowl easy.



● **Application Flexibility**

The simple action of a twist allows the rotor to be removed within seconds. Start a new application by placing a new rotor over the shaft. An audible “CLICK” notifies a user the rotor has been securely locked.



● **Security**

The automatic locking feature allows a rotor to be securely installed without the worry of damage to the centrifuge.





● Rotor Recognition
Safely run the centrifuge knowing a rotor can not achieve speeds over its intended use.



● Touchscreen Controls
Touch makes everyone an expert. The ease of use improves user adoption. Increase the speed of your tasks. Help eliminate errors eliminate errors with clearly defined menus



● Power Factor Control
The centrifuge runs constant and uniform voltage and amperage supplied to the motor; allowing 100% repeatability in the quality of the centrifugation. This feature brings you constant quality and high reliability in the results.



● End of Run Notification
In addition to an audible alarm, the InSight Control Center features an end of cycle light that illuminates when centrifugation ceases operations providing a visual indication it is safe to remove your work.

InSight Electronic Control Center

Because simplicity and user-friendliness are key words when it comes to laboratory equipment, we have redefined these concepts.

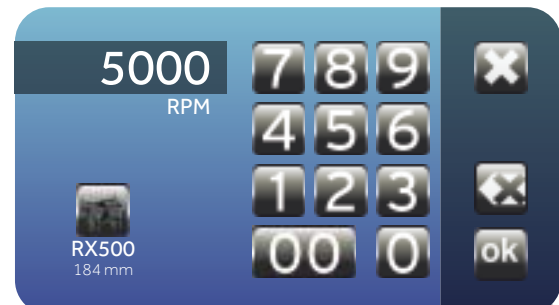
NuWind Centrifuges feature the InSight Electronic Control Center (ECC). InSight ECC is a plug and play control center housing the brains of the machine. The ECC is designed with a touchscreen to simply centrifuge controls for high user adoption.

Special Features

- End of cycle light visually informs when centrifugation cycle is complete.
- Up to 100 Programs with Title description
- Imbalance calibration utilizes software to learn
- Service reminders notifies user when its time to grease centrifuge, extending product life
- A microprocessor maintains a logbook record of accessories. Notifications will inform user when to check or renew accessory.
- Service friendly, InSight be exchanged within minutes and can easily transfer programs to a new ECC minimizes downtime.



Main Screen



Entry Screen



The Safer Experience

Whether its laboratory safety, product benefits, or service, NuAire is the safer choice.

Imbalance Detection

The Centrifuge automatically detects and stops if the rotor is not evenly loaded. You have the option to manually set tolerance levels.



Robust Barrier Wall

Safe and durable. A 1/2 inch (13 mm) steel wall makes up the body of the centrifuge maximizing safety and laboratory footprint.



Safety Lid Lock

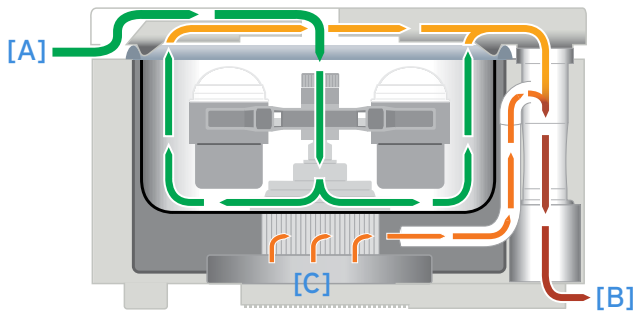
Gently open and lock the centrifuge lid with an automatic locking mechanism to keep your laboratory safe during operation.



Proper Temperature

Maintaining the proper temperature of a centrifuge chamber is a must when spinning cells, plasma, blood, and more.

Nothing Over 37°C



■ Ambient Temperature Air ■ Warm Exhausted Air

The NuWind ventilation system's unique first air design pulls laboratory air from the front of the unit [A]. The vortex created within the chamber propels air through the exhaust system depositing heated air on the bottom back of the unit [B]. The separation of ambient temperature laboratory air and heated exhausted air helps to maintain chamber temperature under 37°C. The warm air from the motor [C] is pulled by the Venturi effect in the flex tube and exhaled from the bottom.

Any Speed, Any Accessory at 4°C



The NuWind powerful refrigeration system surrounds the centrifuge bowl providing the ability to maintain temperature of 4°C with any accessory at any speed.



Safety Features

- Automatic lid lock - securely locks lid and CANNOT be opened during centrifugation run.
- Rotor imbalance detector - centrifugation cycle shuts down if vibrations are too strong
- Rotor Recognition - Each NuWind rotor is recognized and CANNOT spin over the rotor's maximum speed.

Performance Features

- The NuWind Ventilated model does not recirculate air. First air that enters the bowl to help maintain ambient temperature exhausts at a separate location not allowing for any recirculation and heat build up.
- Power Factor Control (PFC) - constant uniform voltage and amperage supplied to the motor ensure the perfect centrifugation cycle.



Description	Model NU-C200V
Maximum capacity	4x625 ml x kg / bucket, 4 x buckets
Supply Voltage (Depending on the Model)	115 V ± 10% 60 Hz 230 V ± 10% 50Hz
Model Type	Ventilated
Catalogue Numbers 115V / 60 Hz 230V / 50 Hz	NU-C200V NU-C200V-E
Maximum Speed (rpm)	15,300 rpm
Maximum Relative Centrifugal Force (g)	22,380 xg
Total Power Consumed	900 Watt
Dissipated Heat (Btuh) (1 Btuh = 0.29307 W)	3071 Btuh
Fluid Coolant / Charge	Not applicable
Maintaining temperature at +4 ° C	No
Dimensions on bench (W x D x H)	18.1 x 22 x 13.7 inches 457 x 556 x 347 mm
Overall dimensions (W x D x H)	18.1 x 23.9 x 13.7 inches 457 x 604 x 347 mm
Packaging (W x D x H)	23.8 x 31.7 x 19.8 inches 600 x 800 x 500 mm
Net weight (excluding rotor)	156 lbs / 71 kg
Gross Weight (excluding rotor)	169 lbs / 77 kg
Maximum sound level	≤ 60 dB(A)





First Air Intake

Automatic secure lid lock

Air exhaust through bottom of unit

InSight Electronic
Touchscreen Control System

Lid unlock button

Keyhole for manual lid
unlock in case of power outage

RS232 Connection to Transfer Data

Power Switch

Description	Model NU-C200R
Maximum capacity	4x625 ml x kg / bucket, 4 x buckets
Supply Voltage (Depending on the Model)	115 V ± 10% 60 Hz 230 V ± 10% 50Hz
Model Type	Refrigerated
Catalogue Numbers 115V / 60 Hz 230V / 50 Hz	NU-C200R NU-C200R-E
Maximum Speed (rpm)	18,000 rpm
Maximum Relative Centrifugal Force (g)	30,980 xg
Total Power Consumed	2000 Watt
Dissipated Heat (Btuh) (1 Btuh = 0.29307 W)	6824 Btuh
Fluid Coolant / Charge	R404A / 0.35 kg
Maintaining temperature at +4 ° C	Yes
Dimensions on bench (W x D x H)	26.7 x 23 x 12.7 inches 322 x 675 x 582 x 322 mm
Overall dimensions (W x D x H)	26.7 x 25 x 12.7 inches 675 x 630 x 322 mm
Packaging (W x D x H)	31.7 x 31.7 x 19.8 inches 800 x 800 x 500 mm
Net weight (excluding rotor)	242 lbs / 110 kg
Gross Weight (excluding rotor)	255 lbs / 116 kg
Maximum sound level	≤ 55 dB(A)



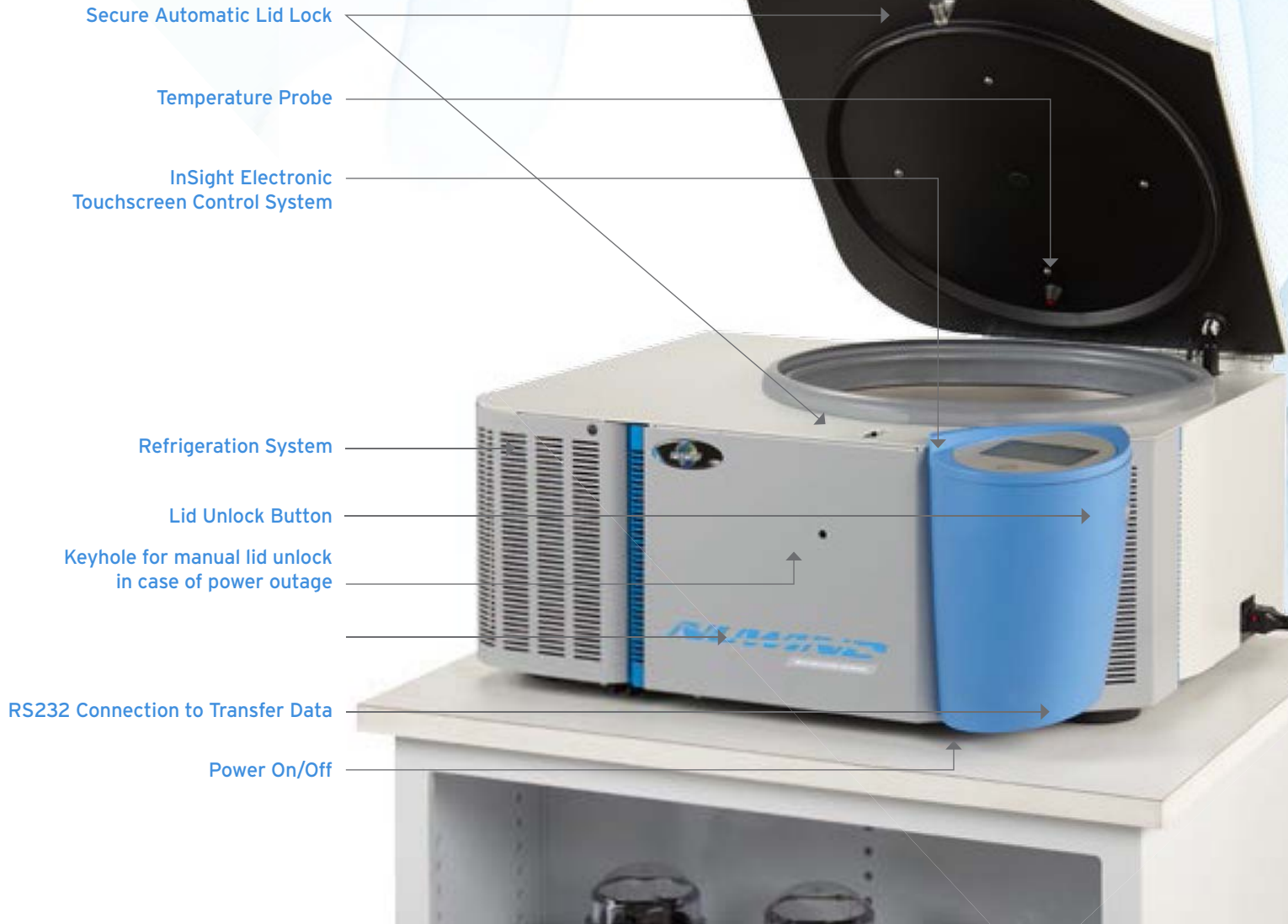
Safety Features

- Automatic lid lock - securely locks lid and CANNOT be opened during centrifugation run.
- Rotor imbalance detector - centrifugation cycle shuts down if vibrations are too strong
- Rotor Recognition - Each NuWind rotor is recognized and CANNOT spin over the rotor's maximum speed.

Performance Features

- The NuWind Refrigerated model can maintain 4°C temperature control with any accessory at any speed.
- Power Factor Control (PFC) - constant uniform voltage and amperage supplied to the motor ensure the perfect centrifugation cycle.





Secure Automatic Lid Lock

Temperature Probe

InSight Electronic
Touchscreen Control System

Refrigeration System

Lid Unlock Button

Keyhole for manual lid unlock
in case of power outage

RS232 Connection to Transfer Data

Power On/Off

Accessories



Rotor
NU-RX500
4x500ml



Buckets
NU-B500
4x500ml



Bio-Lids
NU-L500



Buckets
NU-BX-DW



Rotor
NU-RX250
4x250ml



Bucket
NU-B250
4x250ml






Bio-Lids
NU-L250


Rotor	Type of Tube	Part #	Description	Qty	Model: NU-C200V	Model: NU-C200R	
NU-RX500	Collection Tubes (5-7ml)	NU-2T5	Insert 23 x 5ml blood collection tube (Set of 4)	92	4500 RPM 4188xg	5100 RPM 5350xg	
	Collection Tubes (10-15ml)	NU-2T10	Insert 19 x 10ml blood collection tube (Set of 4)	76			
	Conical Tubes (15ml)	NU-2T15C	Insert 11 x 15ml conical tube (Set of 4)	44			
	Conical Tubes (50ml)	Lids	NU-2T50CL	Insert 4 x 50ml conical tube (Set of 4)			16
			NU-2T50SL	Insert 4 x 50ml self-stand tube (Set of 4)			16
		No Lids	NU-2T50C*	Insert 5 x 50ml conical tube (Set of 4)			20
			NU-2T50S*	Insert 5 x 50ml self-stand tube (Set of 4)			20
	Round Bottom Bottles Set of 4	100ml	NU-2T100	Insert 1 x 100ml round bottom bottle (Set of 4)			4
		200ml	NU-2T200	Insert 1 x 200ml round bottom bottle (Set of 4)			4
		400ml	NU-4T100	Insert 1 x 400ml round bottom bottle (Set of 4)			4
	96 Well Plate	NU-BX-DW	Microplate Carrier (Set of 4)	16			
	Cell Culture Plate			16			
Deep Well	4						

*Inserts cannot be used with bio-containment lids

	Type of Tube	Part #	Description	Qty	Model: NU-C200V	Model: NU-C200R	
NU-RX250	Collection Tubes (5-7ml) Set of 4	NU-1T5	Insert 15 x 5ml blood collection tube (Set of 4)	60	4500 RPM 4080 xg	4800 RPM 4650 xg	
	Collection Tubes (10-15ml) Set of 4	NU-1T10	Insert 12 x 10ml blood collection tube (Set of 4)	48			
	Conical Tubes (15ml) Set of 4	NU-1T15C	Insert 7 x 15ml conical tube (Set of 4)	28			
	Conical Tubes (50ml) Set of 4	Lids	NU-1T50CL	Insert 3 x 50ml conical tube (Set of 4)			12
			NU-1T50SL	Insert 3 x 50ml self-stand tube (Set of 4)			12
		No Lids	NU-1T50C*	Insert 4 x 50ml conical tube (Set of 4)			16
			NU-1T50S*	Insert 4 x 50ml self-stand tube (Set of 4)			16
	Round Bottom Bottles Set of 4	100ml	NU-1T100	Insert 1 x 100ml round bottom bottle (Set of 4)			12
		200ml	NU-1T200	Insert 1 x 400ml round bottom bottle (Set of 4)			4

*Inserts cannot be used with bio-containment lids

Angle Rotor	Type of Tube	Part #	Description	Qty	Model: NU-C200V	Model: NU-C200R
	Microtubes (1.5/2ml)	NU-RA24-2	Angular Rotor 24 x 1.5/2ml 45°	24	15300 RPM 22380 xg	18000 RPM 30980 xg
		NU-RA-30-2	Angular Rotor 30 x 1.5/2ml 45°	30	16000 RPM 27720 xg	
		NU-RA-48-2	Angular Rotor 48 x 1.5/2ml 45°	48	14000 RPM 21720 xg	15500 RPM 26620 xg
	Microtubes (5ml)	NU-RA-16-5	Angular Rotor 16 x 5ml 45°	16	13200 RPM 21000 xg	
	Conical Tubes (15ml)	NU-RA30-15	Angular Rotor 30 x 15 37°	30	3500 RPM 3162 xg	5100 RPM 4061 xg
	Conical Tubes (50ml)	NU-RA-8-50	Angular Rotor 8 x 50ml 25°	8	10700 RPM 13000 xg	12100 RPM 16660 xg

Angle rotor	Type of tube	Description	Qty	Model: NU-C200V	Model: NU-C200R
 Rotor NU-RHDW Buckets NU-BH-DW Bio-Lid NU-LH	96 Well Plate	Microplate Rotor	8	4500 RPM 3531 xg	5100 RPM 4537 xg
	Cell Culture Plate		8		
	Deep Well		2		

Part #	Description	Package Includes
NU-P2VL	Package 2.0L Ventilated Large Volume	1 x NU-C200V: Ventilated Centrifuge 1 x NU-RX500: 4x500ml Swing-out rotor 1 x NU-B500: Set of 4 round buckets for NU-RX500 1 x Set of any inserts NU-2TXXX for buckets NU-B500
NU-P2RL	Package 2.0L Refrigerated Large Volume	1 x NU-C200R: Refrigerated Centrifuge 1 x NU-RX500: 4x500ml Swing-out rotor 1 x NU-B500: Set of 4 round buckets for NU-RX500 1 x Set of any inserts NU-2TXXX for buckets NU-B500
NU-P2VS	Package 2.0L Ventilated Small Volume	1 x NU-C200V: Ventilated Centrifuge 1 x NU-RX250: 4x250ml Swing-out rotor 1 x NU-B250: Set of 4 round buckets for NU-RX250 1 x Set of any inserts NU-1TXXX for buckets NU-B250
NU-P2RS	Package 2.0L Refrigerated Small Volume	1 x NU-C200V: Refrigerated Centrifuge 1 x NU-RX250: 4x250ml Swing-out rotor 1 x NU-B250: Set of 4 round buckets for NU-RX250 1 x Set of any inserts NU-1TXXX for buckets NU-B250

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ISO 9001:2008 Certificate
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