

Store and Serve

AUTOMATED SAMPLE AND LABWARE STORAGE

ABSOLUTELY
PROTECTIVE



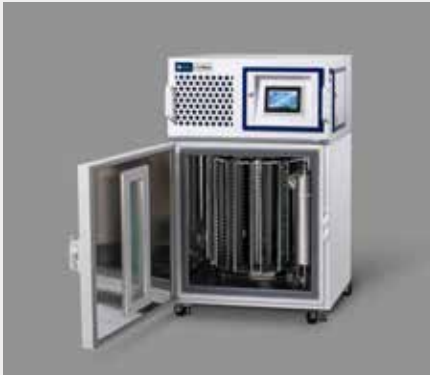
HighRes[®]
biosolutions

Delivering Consistency



When it comes to precise environmental sample control and detailed labware management, HighRes equipment delivers consistency.

Each device performs at the top of its category and delivers striking performance continuity whether it's integrated within a Nucleus® automation infrastructure or other robotic system, or used as a stand-alone device in concert with the Prime® automated liquid handler or third-party liquid handler.



SteriStore™ Self-Sterilizing
Automated Incubator



AmbiStore™ Random Access
Sample Storage Carousel



TundraStore™ Automated
Low Temperature Freezer



MicroServe™ High-Density Serial
Access Labware Handler



NanoServe™ Serial Access
Labware Handler



PicoServe™ Benchtop
Labware Handler

Contact sales@highresbio.com

or your local HighRes Biosolutions automation specialist
for more information or to schedule a first-class demonstration.

SteriStore™

self-sterilizing automated incubator



Exclusive Access to Lifelong Disinfection

With the industry's only verified self-sterilization procedure to eradicate even extremophiles and prions, SteriStore is ideal for cell and tissue culture applications. Dry heat sterilization at 150°C over 3 hours exceeds the most stringent sterilization protocols. A highly refined interior wall construction helps to repel the risk of unwanted pathogens and contaminants.



Immerse Samples in Gentle Care

SteriStore offers an expansive temperature range of 4 to 80°C and may be further upgraded up to 100°C for specialized applications. Environmental control extends to HEPA filters and gas control. Extraordinarily low-density aerogel and dual sets of automated doors protect your precious sample arsenal from temperature fluctuations. Temperature and gas levels are fully monitored and logged while email alerts harbor peace of mind.



Leading Class in Curated Flexibility

Two SteriStore models offer sleek minimalist design and powerful maximalist functionality. Each is compatible with a large array of consumables and, with rapid inventory control and plate presentation speeds, delivers the utmost in efficiency. Up to six separate, configurable transfer nests and a dedicated spatula power rapid delivery of your invaluable cargo. Integrated barcode scanning enables inventory tracking while auto-identification of barcoded plate stackers prevents errors.



A Sophisticated Touch

Users of any skill level can quickly command, load, and monitor SteriStore through the streamlined and intuitive interface with point and click control. A simple ethernet connection plugs SteriStore into your larger universe.



Key SteriStore Features to Match Your Needs

- Two models of different capacity available
- Temperature range of 4 to 80°C, optional upgrade to 100°C
- Humidity control
- CO₂ control standard, N₂, O₂ control optional
- Accepts configurable plate stackers, 96-/384-/1536-well plates, deep-well plates
- Cart and Dock compatible for Nucleus automation infrastructure integration
- Integrates with Cellario™ software and third party schedulers
- Portrait or landscape plate presentation
- White Glove QC inspection prior to shipment



CELL/TISSUE
CULTURE AND MORE



WIDE TEMPERATURE
RANGE



ADAPTABLE
AND ROBUST



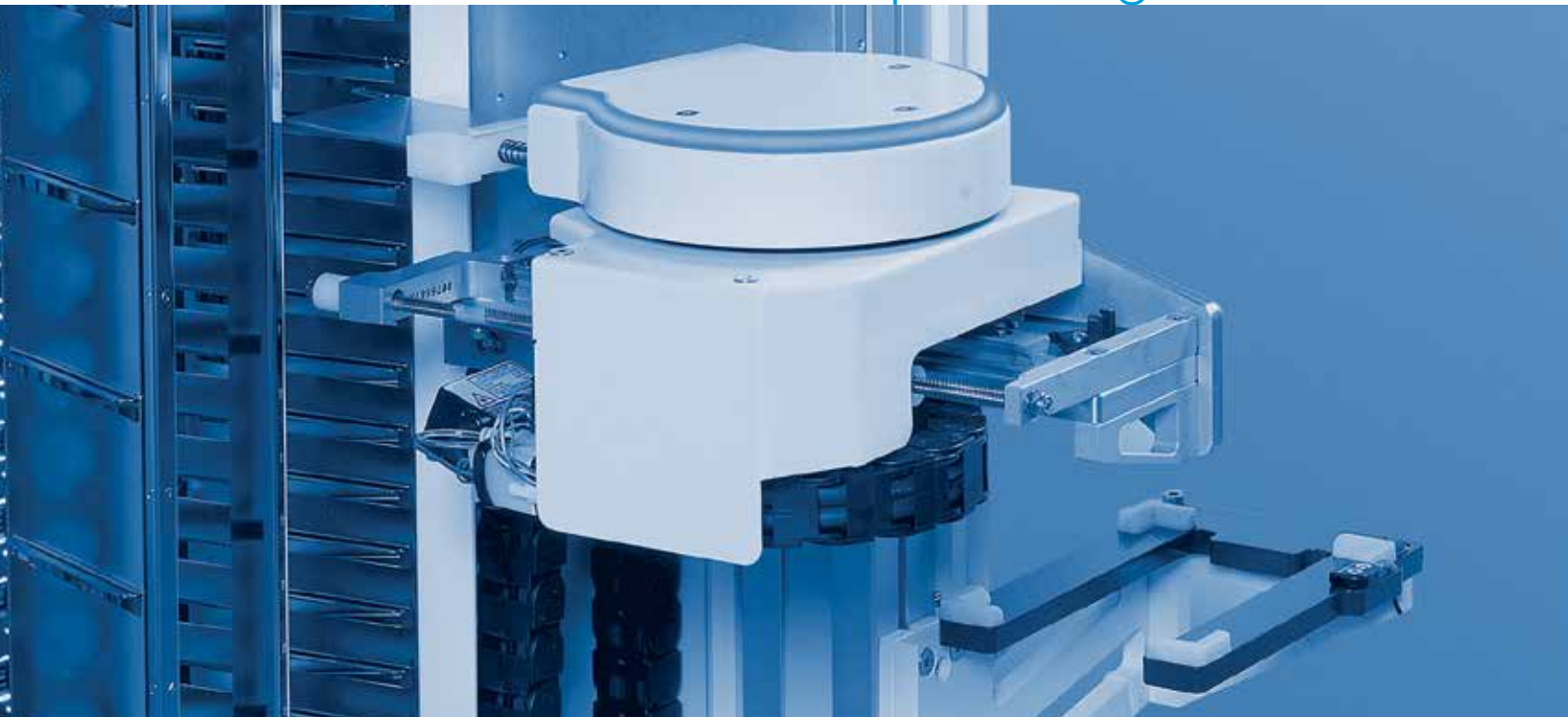
SIMPLE
TO USE

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AmbiStore™

random access ambient sample storage carousel



Discover Exceptional Speed

Put an immediate end to time-consuming delays by integrating AmbiStore with your workflow devices. This sleek and diminutive powerhouse scans and delivers or stores labware in as few as 12 seconds to intensify your efficiency and throughput.



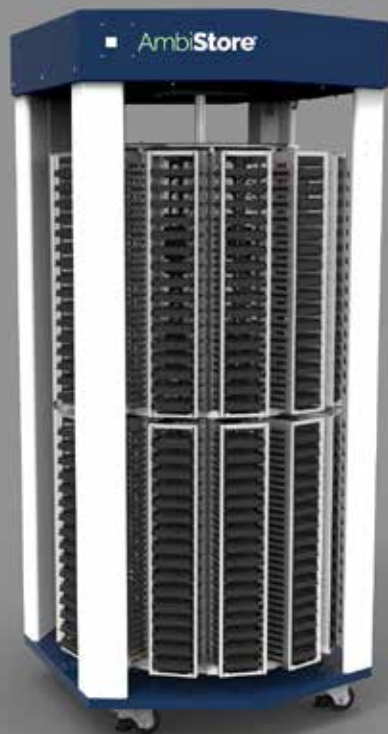
Attuned to Your Dynamic Needs

Two compact AmbiStore models rapidly answer your call for storage and random access of a large array of plate stackers, microplates, deep-well plates, pipette tip boxes, and tube racks. Up to six separate, configurable transfer nests and a dedicated spatula power rapid delivery of your critical consumables. Integrated barcode scanning enables inventory tracking while auto-identification of barcoded plate stackers prevents errors.



Built So You Can Walk Away

Users of any skill level can quickly command, load, and monitor AmbiStore through the streamlined and intuitive interface with point and click control. A simple ethernet connection plugs AmbiStore into your larger universe.



Key AmbiStore Features to Match Your Needs

- Two models of different capacity available
- Open to room environment
- Accepts configurable plate stackers, 96-/384-/1536-well plates, deep-well plates, tip boxes, and tube racks
- Cart and Dock compatible for Nucleus automation infrastructure integration
- Easy integration with Prime automated liquid handler or third-party liquid handlers
- Integrates with Cellario software and third party schedulers
- Portrait or landscape presentation
- Optional guarding for user protection; may be tinted for light protection
- White Glove QC inspection prior to shipment



ULTRA-RAPID



ADAPTABLE TO YOUR NEEDS



SIMPLE TO USE

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TundraStore™

automated low temperature freezer



Tuck Samples Away with Stone-Cold Certainty

TundraStore accommodates a meticulous temperature range of -20 to 4°C using liquid nitrogen or dry air. Extraordinarily low-density aerogel and dual sets of automated doors protect your precious sample arsenal from temperature fluctuations. Temperature and gas levels are fully monitored and logged while email alerts harbor peace of mind.



A Treasury of More at Your Disposal

Rapidly scan, deposit, and manage a large array of plate stackers, microplates, deep-well plates, tubes, and tip boxes with the utmost in steadfast efficiency. Up to six separate, configurable transfer nests and a dedicated spatula power rapid delivery of your invaluable cargo. Integrated barcode scanning enables inventory tracking while auto-identification of barcoded plate stackers prevents errors.



Deftly Master with Ease

Users of any skill level can quickly command, load, and monitor TundraStore through the streamlined and intuitive interface with point and click control. A simple ethernet connection plugs TundraStore into your larger universe.



Key TundraStore Features to Match Your Needs

- Two models of different capacity available
- Temperature range of -20 to 4 °C
- N₂ and dry air
- Accepts configurable plate stackers, 96-/384-/1536-well plates, deep-well plates, 0.5/1.4 mL tubes in SBS-formatted racks, tip boxes
- Cart and Dock compatible for Nucleus automation infrastructure integration
- Integrates with Cellario software and third party schedulers
- Portrait or landscape presentation
- White Glove QC inspection prior to shipment



CONSISTENT TEMPERATURE



ADAPTABLE TO YOUR NEEDS



SIMPLE TO USE

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MicroServe™

High-Density Serial Access Labware Handler





Luxuriously Expansive

MicroServe is our highest-density automated sequential microplate and tip box delivery system. In under nine square feet of lab space, MicroServe stores and rapidly delivers up to a whopping 770 microplates or 154 tip boxes. This capacity and its high delivery speed makes MicroServe the best in its class, and a must-have for ultra-high throughput labs.



Bonus Barcode Scanning

Save even more precious time by incorporating rapid, automated barcode scanning of plate inventory.



Facile Loading

Up to fourteen bulk stackers may be easily loaded and removed from the MicroServe. For added convenience, the stackers are interchangeable with those used on the NanoServe.



Communications are a Cinch

The MicroServe graphical interface offers point-and-click convenience for users of any skill level. Setup, teaching, and operation follow intuitive logic, and networking with Nucleus and Cellario intensifies the beneficial and reliable experience.

Key MicroServe Features to Match Your Needs

- Configurable for up to 770 plates or 154 tip boxes in fourteen bulk stackers
- Rapid barcode scanning of inventory
- Works with most ANSI/SLAS-compliant labware
- MicroCart and MicroDock compatible for Nucleus automation infrastructure compatible
- Ready for liquid handler integration
- May be integrated into robotic systems or used as a stand-alone device
- Convenient Ethernet communications
- Integrates with Cellario software
- Portrait or landscape presentation
- White Glove QC inspection prior to shipment

NanoServe™

Serial Access Labware Handler





Sleek Spaciousness

NanoServe is an automated and sequential microplate and tip box delivery system. As it stores and rapidly delivers hundreds of microplates and dozens of tip boxes in just over two feet of lab space, NanoServe is perfectly tailored to medium daily sample throughput processing needs.



Effortless Loading

Up to four bulk stackers may be easily loaded and removed from the NanoServe. For added convenience, the stackers are interchangeable with those used on the MicroServe.



Impressive Interface

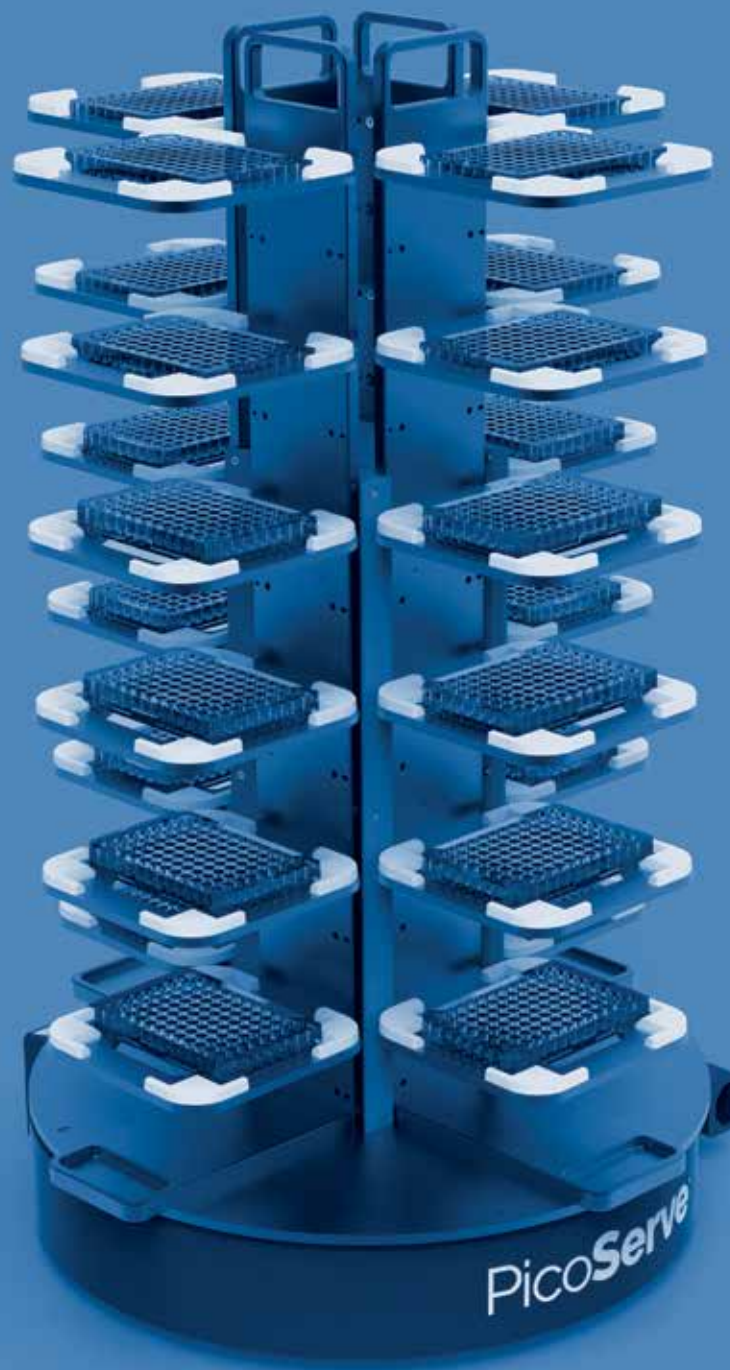
The NanoServe graphical interface offers point-and-click convenience for users of any skill level. Setup, teaching, and operation follow intuitive logic, and networking with Nucleus and Cellario intensifies the beneficial and reliable experience.

Key NanoServe Features to Match Your Needs

- Configurable for up to 320 plates or 44 tip boxes in four bulk stackers
- Works with most ANSI/SLAS-compliant labware
- Compatible with the complete range of Nucleus automation infrastructural components, including FlexCart
- May be integrated into robotic systems or used as a stand-alone device
- Convenient Ethernet communications
- Integrates with Cellario software and third-party schedulers
- Portrait or landscape presentation
- White Glove QC inspection prior to shipment

PicoServe™

Benchtop Labware Handler





Compact Yet Agile

PicoServe is our smallest automated microplate and tip box delivery system. As an ideal accompaniment for small daily sample throughput processing ranges, PicoServe fits comfortably onto a benchtop or Nucleus work surface.



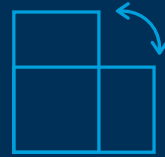
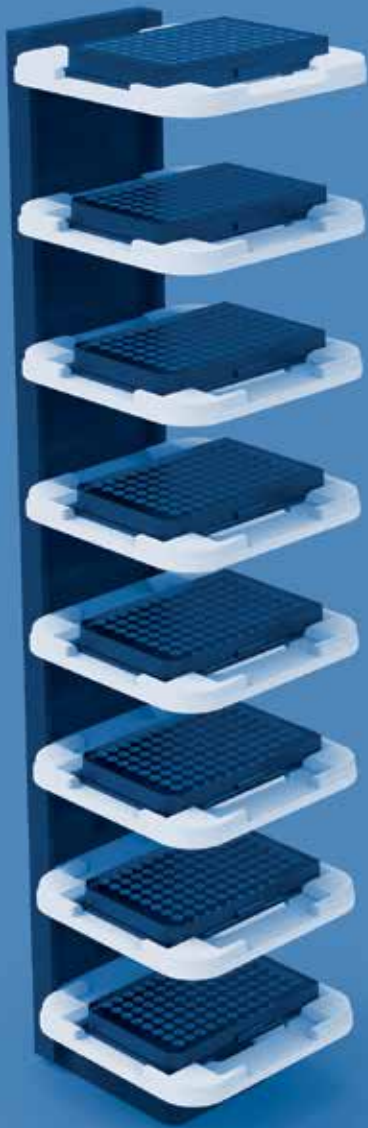
Simple Loading

Any combination of up to four random-access hotels may be easily loaded and removed from the PicoServe.

Key PicoServe Features to Match Your Needs

- Configurable for up to 48 plates in four random-access hotels
- Works with most ANSI/SLAS-compliant labware
- Compatible with the complete range of Nucleus automation infrastructural components, including FlexCart™
- May be integrated into robotic systems or used as a stand-alone device
- Convenient Ethernet communications
- Integrates with Cellario™ software and third-party schedulers
- Portrait or landscape presentation
- White Glove QC inspection prior to shipment

Stationary Plate Hotels



Landscape and Portrait Flexibility

Uniquely square plate nests enable a choice of landscape or portrait orientation so the robot can simply grab-and-go. This saves time, reduces workflow bottlenecks, and improves overall laboratory efficiency.



Park Position Convenience

Add HighRes Plate Hotels as a convenient intermediary random-access hold position between active process tools. This prevents time-consuming errors and deadlock in devices that are in use.



Rapid Labware Transfers

Avoid manual transfers and errors that consume precious time. HighRes Plate Hotels facilitate plate transfers in a smooth and timely manner.

Plate Hotel Features

- Portrait or landscape orientation
- Standard pitch offers 8 nest positions with a maximum plate height of 57 mm (6-pitch and 12-pitch models are also available)
- Low density pitch offers 4 nest positions with a maximum plate height of 114 mm
- Works with most ANSI/SLAS-compliant labware
- White Glove QC inspection prior to shipment

Our People Help You Grow



Professional Services

The all-encompassing Nucleus experience extends beyond hardware and software. HighRes specialists around the world provide services so splendid and detail-focused that they rival that of the concierge service in the finest establishments.



Peak Performance

Push past your competition! After the one-year warranty, continue to perform at the top of your game through results-driven service contracts.



One Call For All

With complete integration of HighRes devices to Cellario, you don't have to manage multiple contracts. Instead, one phone call to our support engineers is all you need.

Specifications and Configurations

	SteriStore		AmbiStore		TundraStore	
Model	SteriStore D	SteriStore M	AmbiStore D	AmbiStore M	TundraStore D	TundraStore M
Labware Capacity						
Hotels	14	28	14	28	14	28
1536-well plates	462	924	462	924	462	924
96-/384-well plates	336	672	336	672	336	672
Deepwell plates	140	280	140	280	140	280
0.5 mL tubes	25,500	51,000	25,500	51,000	25,500	51,000
1.4 mL tubes	13,400	26,800	13,400	26,800	13,400	26,800
Pipette tip boxes	126	252	126	252	126	252
Performance Specifications						
Temperature range	4 to 80°C, optional upgrade to 100°C		n/a		-20 to 4°C	
Temperature variability	±0.5°C		n/a		±0.5°C	
Sterilization cycle	Over 150°C for 3 hours		n/a		n/a	
Gas control	CO ₂ injection, standard N ₂ injection, optional O ₂ injection, optional		n/a		N ₂ Dry air	
General Specifications						
Dimensions (H x W x L)	1397 x 864 x 914 mm (55 x 34 x 36 in)	1930 x 864 x 914 mm (76 x 34 x 36 in)	1041 x 737 x 838 mm (41 x 29 x 33 in)	1626 x 737 x 838 mm (64 x 29 x 33 in)	1397 x 864 x 914 mm (55 x 34 x 36 in)	1930 x 864 x 914 mm (76 x 34 x 36 in)
Weight (empty)	436 kg (962 lb)	601 kg (1324 lb)	147 kg (325 lb)	176 kg (387 lb)	436 kg (962 lb)	601 kg (1324 lb)
Maximum carousel weight	136 kg (300 lb)		n/a		n/a	
Power	120/240VAC 50/60 Hz		120/240VAC 50/60 Hz		120/240VAC 50/60 Hz	
Compressed air	552 kPa 80 psi		552 kPa 80 psi		552 kPa 80 psi	
Communications	Ethernet		Ethernet		Ethernet	
Humidity range	RH up to 98%		n/a		n/a	
Inventory tracking	Barcode scanner		Barcode scanner		Barcode scanner	

	PicoServe	NanoServe	MicroServe
Labware Capacity			
Hotels/Stackers	4 slots	4 slots	14 slots
1536-well plates	Random access hotels: 48	320	1120
96-/384-well plates	Random access hotels: 48	220	770
Deepwell plates/ tip boxes	Random access hotels: 24	44	154
General Specifications			
Dimensions (H x W x L)	787 x 495 x 495 mm (31 x 20 x 20 in)	914 x 635 x 533 mm (36 x 25 x 21 in)	889 x 787 x 889 mm (35 x 31 x 35 in)
Weight (empty)	17 kg (38 lb)	46 kg (101 lb)	61 kg (135 lb)
Power	100/240VAC 50/60 Hz	100/240VAC 50/60 Hz	120/240VAC 50/60 Hz
Communications	Ethernet	Ethernet	Ethernet

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