

-86° C Freezer
Accessories



More choices

Choose from a wide selection of racks, monitoring systems and other
New Brunswick freezer accessories

A wide range of accessories

The perfect complement for your New Brunswick Ultra-Low Temperature Freezer

New Brunswick's wide range of freezer accessories are designed to ensure sample security, enable data monitoring, and maximize storage capacity. Our accessories and options are manufactured to the highest standards and use only the best materials and components for exceptional durability and performance.

Like our freezers, New Brunswick accessories set new standards for quality and innovation. Take, for example, the new TCA-3 Independent Temperature Monitoring System that streamlines temperature monitoring and recording with web-based data storage that you can view, anywhere, anytime. No other freezer monitoring system provides the same combination of security and convenience—another example of New Brunswick innovation. **New Benchmark. New Brunswick.**



Advanced security for peace of mind

TCA-3 Independent Temperature Monitoring System

The new all-in-one TCA-3 Temperature Monitoring System is an independent temperature monitor with alarm, electronic chart recorder, and an autodialer — all incorporated in a compact communication pod. There is no software to install or maintain; and it sets up in under five minutes.

The TCA-3 transmits data to professionally-managed centralized data servers where redundant systems store and record chamber and ambient temperature and alarms. Access real-time data via a web portal from anywhere in the world. The intuitive data graphing and tracking functions provide a complete record of freezer performance.

- > Standard Ethernet connection
- > Power-over-Ethernet (PoE) capable
- > Secure, encrypted data transmission
- > Firewall compatible
- > Chamber and ambient temperature probes included
- > Alarm notifications by phone and e-mail are sent to multiple users until an acknowledgement is received
- > Alarm acknowledgements and resolutions are tracked for regulatory control
- > Historic data recording and report generation
- > Non-alterable data meets regulatory requirements
- > Data enables corrective action plans
- > Compatible with any freezer



Compact communication pod

Attaches to the side of your freezer. Includes chamber and ambient temperature probe.

Technical specifications

Dimensions	125 x 65 x 30 mm 4.9 x 2.6 x 1.2 in
Weight	227 g (8 oz)
Sampling rate	User-selected, 30 sec. to 24 hr.
Emergency data storage	256 data points
Operating environment	-40° C to 70° C, 5 to 95 % rh

Ordering information

Description	Electrical service	Order No.
Pod and probe with wall plug power connection	60 Hz	P0625-1630
Pod and probe with wall plug power connection	50 Hz	P0625-2050

Performance specifications

In-Chamber Temperature Sensor

Temperature range	-200° C to +200° C
Typical accuracy	±1° C
Measurement resolution	0.1° C
Sensor type	1 x RTD

Ambient Temperature Sensor

Temperature range	-40° C to +70° C
Typical accuracy at 25° C	±1.4° C
Typical accuracy over full range	±2.1 %
Measurement resolution	0.21° C

Sample safety at its best

CO₂ and LN₂ Back-up Systems

Loss of power is no problem with New Brunswick back-up systems, which are designed to maintain the contents of your freezer at a preset temperature should a power outage arise.

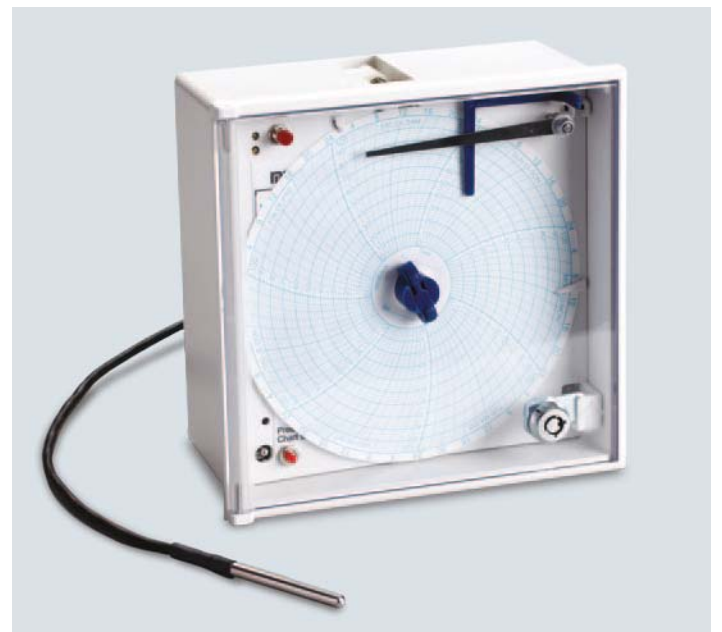
- > Using the CO₂ back-up system, temperature can be maintained between -50° C and -70° C, subject to environmental conditions. The CO₂ is pulsed to ensure a uniform distribution of the cooling effect and avoid excessive consumption of coolant. With the continuously-fed LN₂ system, temperatures down to -85° C can be maintained
- > Equipped with battery back-up to temporarily protect freezer contents during a power failure

Chart Recorder

Continuously monitor and record freezer temperature for up to seven days. The recorder covers a temperature range of -90° C to +20° C, with ±2 % accuracy. It is front-mounted to your freezer for easy access and can be fitted to all freezer models.

More accessories to keep your samples secure

- > Voltage Stabilizers modulate incoming line voltage and are available for freezer models that do not include an internal stabilizer
- > **Auto-dialers** call a set of programmed phone numbers to alert you to an alarm condition; connects to the freezer's remote alarm port
- > **Padlock Adapter Kit** allows a user-supplied padlock to be added to the freezer's outer door handle for extra security
- > **IQ and OQ Validation Packages** are available to satisfy regulatory requirements



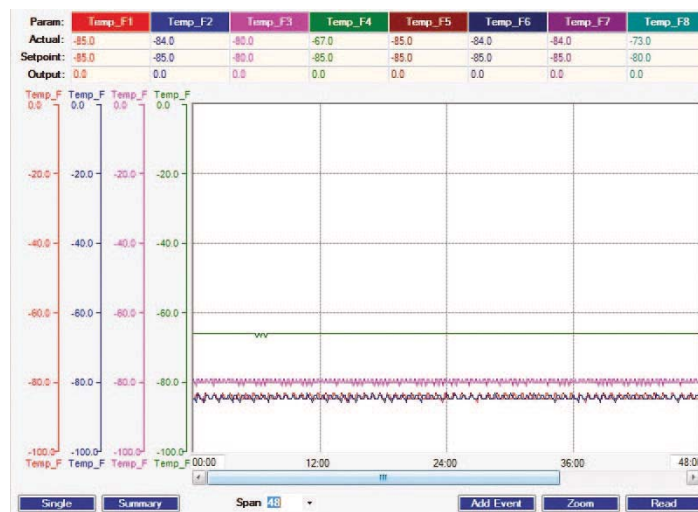
CO₂/LN₂ Back-up System (left) and Chart Recorder (right) can be factory installed

Data tracking made easy

BioCommand® SFI Software

BioCommand SFI software is an easy-to-use PC-based software that monitors and records the key operating parameters from ULT freezers, multiple shakers, CO₂ incubators, and other OPC-compliant lab equipment—all from a single PC. Now you can simultaneously trend and archive critical data for up to 32 units, including temperature and alarms.

- > Automatic data logging and remote monitoring
- > Rapid setup through intuitive programming
- > Tracks your choice of operational parameters and gives you the option to design and save templates
- > Provides text alarm notifications
- > Customize trend screens and monitor eight critical parameters of your choosing, per window
- > User-defined "add event" feature allows alarms to be annotated for complete traceability
- > Compatible with Windows® 7, Windows Vista® and Windows XP operating systems



Ordering information

Description	Order no.
Back-up systems*	
Innova® CO ₂ back-up, 120–230 V, 50/60 Hz	U9043-0002
Premium/HEF CO ₂ back-up, 120–230 V, 50/60 Hz	U9043-0006
Innova LN ₂ back-up, 120–230 V, 50/60 Hz	U9044-0002
Premium/HEF LN ₂ back-up, 120–230 V, 50/60 Hz	U9044-0006
Chart recorders*	
Chart recorder and temperature sensor, includes thermocouple, keys, pens and 100 charts	K0440-0355
Chart recorder paper for K0440-0355, pkg of 100 charts	K0540-0025
Chart recorder pens, 3, for K0440-0355	K0660-0051
Voltage stabilizers	
Internal slide-in voltage stabilizer for 60 Hz Innova U360	P0625-1090
External voltage stabilizer 120 V, 60 Hz	M1322-0000
External voltage stabilizer 230/208 V, 50/60 Hz	M1322-0002

*Factory installation recommended

Ordering information

Description	Order no.
BioCommand SFI Packages**	
ULT Freezer Package	M1291-1002
To connect additional units**	
ULT Freezer Cable Set, 45 ft./15 m	M1291-5001
Other accessories	
U101 stacking kit	P0625-0020
Padlock adapter kit for upright models	P0625-1170
Auto dialer	Inquire

** Includes software, RS-485 board and cable to connect one freezer to your PC. One additional cable is required for each additional freezer you monitor/log. Computer requires an RS-232 or USB port. Freezer requires RS-232 or RS-485 port. For information on SFI packages for shakers, CO₂ incubators or other lab products, speak with your local sales representative.

Maximize storage space

New Brunswick Inventory Racking

New Brunswick inventory racking systems are lightweight for easy transport, yet extremely durable. They are designed exclusively for New Brunswick freezers to maximize storage space. We offer a wide selection of standard racks for both upright and chest freezers, and can manufacture custom racks to meet your specifications. For rack capacities and ordering information see page 8.

- > Constructed of strong, non-corrosive anodized aluminum for long-term use
- > Standard racking is offered for 50 mm, 75 mm and 100 mm boxes
- > A variety of special racks are available for 15 and 50 mL conical, micro and deepwell plates
- > Maximize every inch of storage space (below right)



Handle samples with care

New Brunswick Cardboard Boxes and Dividers

New Brunswick offers water-resistant cardboard boxes and dividers for organizing and safely storing your samples.

Water-resistant cardboard boxes with wax-coated cardboard dividers provide a low-cost alternative to injection-molded boxes. We offer boxes for 50 mm, 75 mm and 100 mm tall sample vials/tubes.

Dividers are available in several configurations, 7 x 7 to 10 x 10, depending on your tube diameter, and are compatible with our boxes.

Boxes and dividers sold separately.



Racks for upright freezers feature trays that pull forward for easy access to your samples

Ordering information

Description	Size (mm) W x D x H	Capacity	Order no.
Boxes			
50 mm tall	133 x 133 x 50	Varies, dependent on divider used	B50-SQ
75 mm tall	133 x 133 x 75	Varies, dependent on divider used	B75-SQ
100 mm tall	133 x 133 x 100	Varies, dependent on divider used	B95-SQ
Dividers			
7 x 7 compartments	17.4 mm max. tube diameter	49 tubes	D49
8 x 8 compartments	15 mm max. tube diameter	64 tubes	D64
9 x 9 compartments	13 mm max. tube diameter	81 tubes	D81
10 x 10 compartments	11.8 mm max. tube diameter	100 tubes	D100

New Brunswick Freezer Racks

Ordering information

Style	Model	Order no.	Box size	Total racks per freezer	Boxes per rack	Total number of boxes per freezer	
Upright	Innova U101	K0641-3003	50 mm	6	10	60	
		K0641-3004	75 mm		6	36	
		K0641-3005	100 mm		4	24	
	Innova U360	K0641-3000	50 mm	9 / 12 / 18	28	252 / 336 / 504	
		Innova U535	K0641-3001		75 mm	20	180 / 240 / 360
	Innova U725	Innova U725-G	K0641-3002	100 mm	15 / 25 / 30	12	108 / 144 / 216
			Premium U410	K0641-1900		50 mm	16
	HEF U410	K0641-1890	75 mm	12	180 / 300 / 360		
	Premium U570	K0641-1880	100 mm	8	120 / 200 / 240		
	Chest	Premium U700					
Premium C340		K0641-1690	50 mm	20 / 32 / 40 / 44	13	260 / 416 / 520 / 572	
Innova C585		K0641-1700	75 mm		9	180 / 288 / 360 / 396	
Premium C660		K0641-1750	100 mm		6	120 / 192 / 240 / 264	
HEF C660							
Innova C760							

Racks per freezer / Freezer rack dimensions

Style	Model	External dimensions of freezer racks (Depth x Width x Height)		Max. shelves per freezer	Max. racks per shelf	Max. racks per freezer
Upright	Innova U101	308 x 141 x 292.5 mm	12.13 x 5.55 x 11.52 in	2	3	6
	Innova U360	565 x 141 x 410.5 mm	22.24 x 5.55 x 16.16 in	3	3	9
	Innova U535			3	4	12
	Innova U725			3	6	18
	Innova U725-G			3	6	18
	HEF U410	565 x 141 x 235 mm	22.24 x 5.55 x 9.25 in	5	3	15
	HEF U570			5	5	25
	Premium U410			5	3	15
	Premium U570			5	5	25
	Premium U700			5	6	30
Chest	Innova C585	136 x 139 x 752 mm	5.35 x 5.47 x 29.61 in	—	—	32
	Innova C760			—	—	44
	HEF C660			—	—	40
	Premium C340			—	—	20
	Premium C660			—	—	40

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