




## New Brunswick freezers guide

NEW!

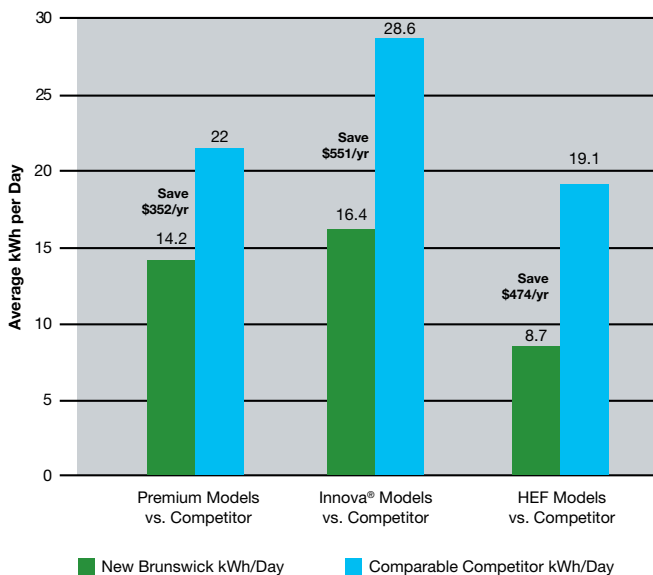
Freezers	HEF®		
	Upright		Chest
(Images not to scale)			
<b>Model</b>	<b>HEF U410</b>	<b>HEF U570</b>	<b>HEF C660</b>
<b>Page</b>	<b>237</b>	<b>238</b>	<b>239</b>
<b>Technical specifications</b>			
Capacity (ft <sup>3</sup> )	14.5	20	23.3
External dimensions (H x W x D) in <sup>1</sup>	76.8 x 26.4 x 34.1	76.8 x 31.5 x 34.1	43 x 66.5 x 30.9
Floor weight (lb)	518	584	617
Voltage (V)	120 V, 60 Hz	120 V, 60 Hz	220 V, 60 Hz
Plug provided	NEMA 5–20P	NEMA 5–20P	NEMA 6–15P
Full load amp draw	16	16	8
<b>Performance data</b>			
Power consumption kWh/day	8.7	12.2	11.6
Watts	362	508	483
Pull down time (hrs) <sup>2</sup>	4.1	5.3	6
Voltage stabilizer	Optional	Optional	Optional
Caster wheels	Standard	Standard	Standard
<b>Capacity</b>			
<b>Freezer racks</b>			
Max racks per shelf	3	5	N/A
Number of shelves	5	5	N/A
Max racks per freezer	15	25	40
Rack dimensions (H x W x D) in	9.3 x 5.5 x 22.2		29.6 x 5.5 x 5.5
<b>Box capacity per rack</b>			
2" box	28		13
3" box	20		9
4" box	12		6
<b>Box capacity per freezer</b>			
2" box	240	400	520
3" box	180	300	360
4" box	120	200	240
<b>Sample capacity</b>			
2" box	24,000	40,000	52,000
3" box	18,000	30,000	36,000
4" box	12,000	20,000	24,000

<sup>1</sup> To allow for handles and hinges, add 80 mm to width of upright freezers and 110 mm to the depth of chest freezers. Door open adds up to 15 cm.

<sup>2</sup> To -86°C, empty freezer, from 20–25°C ambient conditions

## HEF® high-efficiency freezer features

### Comparison of Energy Usage



<sup>1</sup> Based on the national average of 0.12 cents per kWh.



**HEF C660** is a large-capacity chest freezer, with 660 L of storage space



**HEF U410** offers 410 L of storage capacity in an upright design



**HEF U570** is the largest HEF upright with 570 L of storage capacity







### Product features

- The HEF models are identical in all respects to the same-sized Premium freezer models, but use a 130 mm thick combination of super-insulating Vacuum Insulation Panels and traditional foam, instead of urethane alone, and a more efficient fan to achieve exceptional energy efficiency
- HEF models are offered in three capacities, 410 and 570 L uprights, as well as a 660 L chest
- HEF U570 is our largest high-efficiency upright freezer at 570 L
- Quick pull down and recovery times with reliable heavy-duty compressors
- Inner doors are insulated minimizing cold air loss while accessing your samples in one of 5 compartments
- 5 compartments, each accepts New Brunswick racks and other brands without shelf adjustment
- Stainless steel interior is easily cleaned and eliminates the possibility of oxidation and cross contamination
- Unique heated air vent with plunger to clear ice buildup and to relieve vacuum formation to gain immediate access to the freezer
- Password protection of alarm and temperature setpoints to prevent unauthorized users from altering settings
- 2-year warranty on labor, 5-year warranty on all parts including compressors. 1-year on accessories, 12-years on Vacuum Insulation Panels

### Description

Energy-saving HEF Freezers are among the most energy-efficient ULT freezers in the industry. They reduce energy consumption by up to 56% compared to competitive units of similar size. If your goal is to safely store your samples while saving operating expense and being good to the environment, these are the models to choose.

## New Brunswick freezers guide

Freezers	Innova®					
	Upright				Chest	
(Images not to scale)						
<b>Model</b>	<b>U101</b>	<b>U360</b>	<b>U535</b>	<b>U725</b>	<b>C585</b>	<b>C760</b>
<b>Page</b>	<b>240</b>	<b>241</b>	<b>242</b>	<b>243</b>	<b>244</b>	<b>244</b>
<b>Technical specifications</b>						
Capacity (ft <sup>3</sup> )	3.6	12.7	18.9	25.6	20.7	26.9
External dimensions (H x W x D) in	32.7 x 35.4 x 22.3	76.8 x 26.4 x 34.1	76.8 x 31.5 x 34.1	76.8 x 40.4 x 34.1	43 x 66.5 x 30.9	43 x 80.7 x 30.7
Floor weight (lb)	256	595	551	694	529	628
Voltage (V)	120	120	120/220	220	120/220	220
Plug provided	5-15P	5-20P	5-20P/6-15P	6-15P	5-20P/6-15P	6-15P
Full load amp draw	13	16.5	16.5/9	10	16.5/9	10
<b>Performance data</b>						
Power consumption kWh/day	6.3	11.6	13.2	16.4	13.9	16.7
Watts	265	487	550	685	580	698
Pull down time (hrs)	3.5	5	5.3	5.2	4.3	5.8
Voltage stabilizer	Optional	Optional	Standard	Standard	Standard	Standard
Caster wheels	Standard	Standard	Standard	Standard	Standard	Standard
<b>Capacity</b>						
<b>Freezer racks</b>						
Max racks per shelf	3	3	4	6	N/A	N/A
Number of shelves	2		3		N/A	N/A
Max racks per freezer	6	9	12	18	32	44
Rack dimensions (H x W x D) in	12.1 x 5.5 x 11.5	16.2 x 5.5 x 22.2	16.2 x 5.5 x 22.2	16.2 x 5.5 x 22.2	29.6 x 5.5 x 5.5	29.6 x 5.5 x 5.5
<b>Box capacity per rack</b>						
2" box	10		28		13	
3" box	6		20		9	
4" box	4		12		6	
<b>Box capacity per freezer</b>						
2" box	60	252	336	504	416	572
3" box	36	180	240	360	288	396
4" box	24	108	144	216	192	264
<b>Sample capacity</b>						
2" box	6,000	25,200	33,600	50,400	41,600	57,200
3" box	3,600	18,000	24,000	36,000	28,800	39,600
4" box	2,400	10,800	14,400	21,600	19,200	26,400

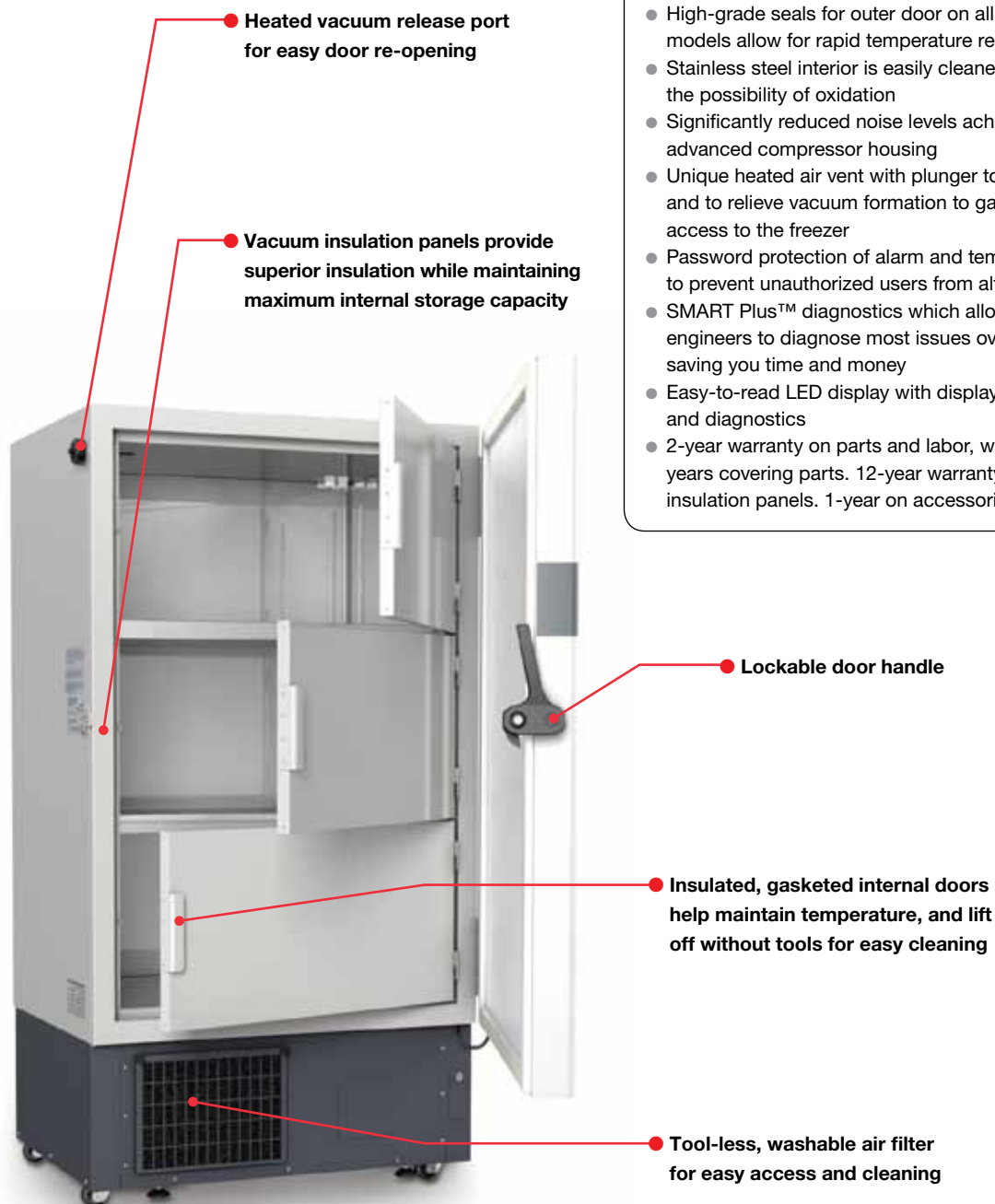
## Innova® features

### Description






Space-saving Innova freezers utilize vacuum insulation panel technology to reduce wall thickness resulting in up to 39% more internal capacity than freezers of equal size. 6 models are offered, U101, U360, U535, U725, C585 and C760.

### Product features

- Vacuum insulation paneling reduces wall thickness providing up to 30% more storage capacity in a similar footprint
- Inner doors in upright models are gasketed and insulated creating 3 separate compartments minimizing cold air loss while accessing your samples (2 in U101)
- Adjustable height shelves for storage flexibility. Each rack is adjustable in 1/2" increments for odd size rack setup.
- High-grade seals for outer door on all upright and chest models allow for rapid temperature recovery
- Stainless steel interior is easily cleaned and eliminates the possibility of oxidation
- Significantly reduced noise levels achieved through advanced compressor housing
- Unique heated air vent with plunger to clear ice buildup and to relieve vacuum formation to gain immediate access to the freezer
- Password protection of alarm and temperature setpoints to prevent unauthorized users from altering settings
- SMART Plus™ diagnostics which allows system engineers to diagnose most issues over the phone, saving you time and money
- Easy-to-read LED display with display of system alarms and diagnostics
- 2-year warranty on parts and labor, with 3 additional years covering parts. 12-year warranty on vacuum insulation panels. 1-year on accessories.



## New Brunswick freezers guide

Freezers	Premium				
	Upright			Chest	
(Images not to scale)					
<b>Model</b>	<b>U410</b>	<b>U570</b>	<b>U700</b>	<b>C340</b>	<b>C660</b>
<b>Page</b>	<b>246</b>	<b>247</b>	<b>248</b>	<b>249</b>	<b>249</b>
<b>Technical specifications</b>					
Capacity (ft <sup>3</sup> )	14.5	20.0	25.0	12.0	23.3
External dimensions (H x W x D) in	75.4 x 31.5 x 33.5	75.8 x 40.4 x 33.5	77.1 x 44.1 x 34.3	42.3 x 52.8 x 33.1	42.3 x 80.7 x 33.1
Floor weight (lb)	518	584	615	441	617
Voltage (V)	120/220	120/220	120/220	120	220
Plug provided	5-20P/6-15P	5-20P/6-15P	5-20P/6-15P	5-20P	6-15P
Full load amp draw	16.5/8	16.5/9	16.5/9	16.5	8
<b>Performance data</b>					
Power consumption kWh/day	13.0	14.2	16.6	10.3	15
Watts	541	592	692	430	625
Pull down time (hrs)	4.1	5.3	5.8	3.4	6
Voltage stabilizer	Optional	Optional	Optional	Optional	Optional
Caster wheels	Standard	Standard	Standard	Standard	Standard
<b>Capacity</b>					
<b>Freezer racks</b>					
Max racks per shelf	3	5	6	N/A	N/A
Number of shelves		5		N/A	N/A
Max racks per freezer	15	25	30	20	40
Rack dimensions (H x W x D) in	9.3 x 5.5 x 22.2	9.3 x 5.5 x 22.2	9.3 x 5.5 x 22.2	29.6 x 5.5 x 5.5	29.6 x 5.5 x 5.5
<b>Box capacity per rack</b>					
2" box		16		13	
3" box		12		9	
4" box		8		6	
<b>Box capacity per freezer</b>					
2" box	240	400	480	260	520
3" box	180	300	360	180	360
4" box	120	200	240	120	240
<b>Sample capacity</b>					
2" box	24,000	40,000	48,000	26,000	52,000
3" box	18,000	30,000	36,000	18,000	36,000
4" box	12,000	20,000	24,000	12,000	24,000

## Premium features

### Description

Economical Premium freezers are conventionally-insulated providing a cost effective alternative, with many of the same features and quality as the Innova models. Five models are available U410, U570, U700, C340 and C660.

- 3 large-capacity uprights—for easy access to samples, choose the U410, U570 or larger U700, each with 5 compartments and 4 adjustable-height shelves
- 2 chests—if a chest style is preferred, choose C340 or C660 with insulated sub-lids that provide added sample protection
- CO<sub>2</sub> and LN<sub>2</sub> back-up systems, racking and more are available



**Premium U410**, the smallest Premium upright at 14.5 ft<sup>3</sup> of storage space, available in 120 or 220 V



**Premium U570**, combines both storage capacity and energy efficiency, 120 or 220 V



**Premium U700**, the largest Premium upright at 25 ft<sup>3</sup> of storage space, available in 120 or 220 V



**Premium C340**, the smallest chest freezer at 12 ft<sup>3</sup>, available in 120 V only



**Premium C660**, the largest Premium chest freezer at 23.3 ft<sup>3</sup>, available in 208–220 V only

### Product features

- Polyurethane foam insulation provides efficient insulation protection
- Quick pull down and recovery times with reliable heavy-duty compressors
- Inner doors are insulated minimizing cold air loss while accessing your samples in one of 5 compartments
- 5 compartments, each accepts New Brunswick racks and other brands without shelf adjustment
- Adjustable height shelves for storage flexibility. Each rack is adjustable in 1/2" increments for odd size rack setup.
- Low temperature outer door seals allow gaskets to remain flexible at -86 °C temperatures
- Stainless steel interior is easily cleaned and eliminates the possibility of oxidation and cross contamination
- Significantly reduced noise levels achieved through advanced compressor housing with noise-reducing insulation enabling placement of the freezer directly in your work area
- Unique heated air vent with plunger to clear ice buildup and to relieve vacuum formation to gain immediate access to the freezer
- Password protection of alarm and temperature setpoints to prevent unauthorized users from altering settings
- SMART Plus™ diagnostics which allows system engineers to diagnose most issues over the phone, saving you time and money
- Each freezer slides effortlessly through a standard doorway simplifying installation
- 2-year warranty on parts and labor, with 3 additional years covering parts. 1-year on accessories.



## HEF® high-efficiency freezers

NEW!



For over 50 years, New Brunswick lab products have set new standards for design innovation. The New Brunswick name is synonymous with exceptional quality and reliable performance that stand the test of time. Together with New Brunswick, Eppendorf® continues this tradition by introducing the all new HEF High Efficiency Freezers for the first time in North America.

Ultra-Low freezers are traditionally high energy consumers because they work hard to maintain extremely low temperatures 24 hours a day, 7 days a week. Up until recently, there has never been a greater focus to go green in the lab environment. In response to this Green Initiative, we brought the popular HEF Freezers to North America. New Brunswick HEF freezers are among the most energy-efficient and eco-friendly ULT freezers available in North America. They reduce energy consumption by more than 59% in comparison to competitive units of similar size and are 98% recyclable by weight<sup>1</sup>.

<sup>1</sup>Based on competitive information and internal tests performed as of September 1, 2011.

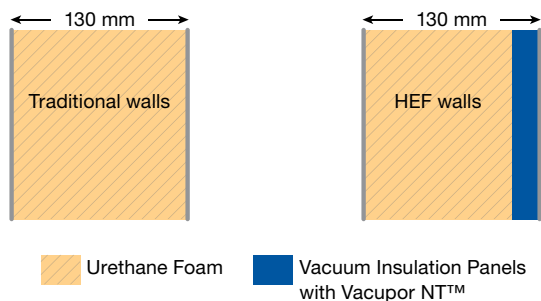
### How do we do it?

- We improved and optimized the circulation and compressor systems, ensuring you years of uninterrupted operation and further reducing energy consumption
- We combined multiple insulation techniques such as traditional insulation with superior performing Vacuum Insulation Panels complemented with Vacupor NT technology to provide the best thermal insulation available compared to any single insulation technique.
- We added a highly energy efficient fan

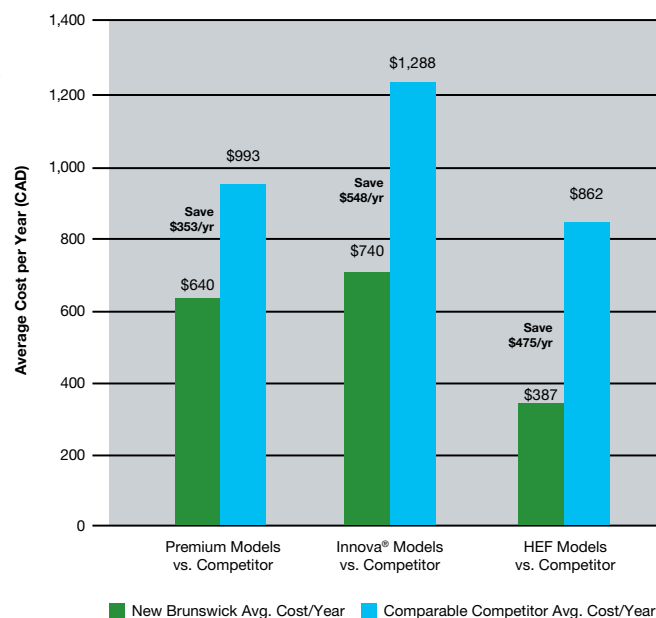
### What does this mean to you?

- Savings of thousands of dollars in operating costs over the lifetime of the freezer
- Significantly lowering your carbon footprint for a healthier environment
- Increased temperature stability over time for enhanced sample protection

HEF freezers improve energy efficiency by adding vacuum insulation panels to traditional foam in a 130 mm space



### Yearly Operation Costs



<sup>1</sup>Based on the national average of 0.12 cents per kWh.

Order from your laboratory supply dealer.  
 Product appearance, specifications, and/or prices are subject to change without notice.

## HEF® U410 High Efficiency Upright Freezer



## Product features

- Capacity: 410 L, up to 240 boxes or 24,000 samples
- Achieves energy savings through use of a 130 mm-thick layer of insulation, composed of traditional insulation, Vacuum Insulation Panels and Vacupor NT™ technology
- Efficient compressor control system reduces cycle times to lower energy consumption and increases freezer longevity
- Identical construction, quality and features as the standard model Premium U410, including five compartments, four adjustable shelves, heated-air vent with ice-clearing plunger, advanced security and more

## Description

New Brunswick's HEF freezers are among the most environmentally friendly, energy efficient ULT freezers on the market. The most compact model in the HEF line, upright HEF U410 is identical to the Premium U410, except that it further reduces energy consumption by approximately 33%.

## Technical specifications

Description	HEF U410
Insulation type	Vacuum insulation panels and polyurethane foam
Electrical	120 V, 60 Hz
Ambient to -86°C pull down	5.8 hrs
Power consumption	8.7 kWh/day 362 Watts
No. of inner doors	5
No. of cascading compressors	2
Capacity	410 L
Racks per freezer	15
2" box capacity	240
3" box capacity	180
4" box capacity	120
External dimensions (H x W x D)	75.4 x 31.5 x 33.5 in
Internal dimensions (H x W x D)	49.8 x 21.7 x 22.6 in
Shipping weight	623 lb

## Ordering information

Description	Catalog No.
<b>HEF U410 upright, 410 L internal capacity</b>	
120 V, 60 Hz	U9260-0007
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0006
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0006
<b>HEF U410 racks</b>	
2" box height, 16 boxes per rack	K0641-1900
3" box height, 12 boxes per rack	K0641-1890
4" box height, 8 boxes per rack	K0641-1880
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-HEF
Preventive Maintenance	PM-HEF
Advantage OS	ADVHEF-ULT
Premium Service	PREMHEF-ULT

\* Factory installed at no extra charge if purchased with the freezer at the same time.



## HEF® U570 High Efficiency Upright Freezer



## Product features

- Capacity: 570 L, up to 400 boxes or 40,000 samples
- Achieves energy savings through use of a 130 mm-thick layer of insulation, composed of Vacuum Insulation Panels and traditional urethane foam
- Efficient compressor control system reduces cycle times to lower energy consumption and increases freezer longevity
- Identical construction, quality and features as the Premium U570, including five compartments, four adjustable shelves, heated-air vent with ice-clearing plunger, advanced security and more

## Description

Like all New Brunswick HEF high efficiency freezers, the HEF U570 is one of the most environmentally friendly, energy efficient  $-86^{\circ}\text{C}$  freezers on the market. The HEF U570 is identical to New Brunswick's Premium U570 upright freezer, except that it further reduces energy consumption by approximately 15%.

## Technical specifications

Description	HEF U570
Insulation type	Vacuum insulation panels and polyurethane foam
Electrical	120 V, 60 Hz
Ambient to $-86^{\circ}\text{C}$ pull down	6.0 hrs
Power consumption	12.2 kWh/day 508 Watts
No. of inner doors	5
No. of cascading compressors	2
Capacity	570 L
Racks per freezer	25
2" box capacity	400
3" box capacity	300
4" box capacity	200
External dimensions (H x W x D)	75.8 x 40.3 x 33.5 in
Internal dimensions (H x W x D)	49.8 x 30.1 x 22.6 in
Shipping weight	689 lb

## Ordering information

Description	Catalog No.
<b>HEF U570 upright, 570 L internal capacity</b>	
120 V, 60 Hz	U9270-0007
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0006
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0006
<b>HEF U570 racks</b>	
2" box height, 16 boxes per rack	K0641-1900
3" box height, 12 boxes per rack	K0641-1890
4" box height, 8 boxes per rack	K0641-1880
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-HEF
Preventive Maintenance	PM-HEF
Advantage OS	ADVHEF-ULT
Premium Service	PREMHEF-ULT

\* Factory installed at no extra charge if purchased with the freezer at the same time.

Order from your laboratory supply dealer.  
Product appearance, specifications, and/or prices are subject to change without notice.

## HEF® C660 High Efficiency Chest Freezer



## Product features

- Capacity: 660 L, up to 520 boxes or 52,000 samples
- Achieves energy savings through use of a 130 mm-thick layer of insulation, composed of Vacuum Insulation Panels and traditional urethane foam
- Efficient compressor control system reduces cycle times to lower energy consumption and increases freezer longevity
- Identical construction, quality and features as the standard model Premium C660, including three insulated sublids made of 10 mm thick panels with stainless steel edge, large bright LED, battery backup, heated-air vent with ice-clearing plunger, advanced security and more

## Technical specifications

Description	HEF C660
Insulation type	Vacuum insulation panels and polyurethane foam
Electrical	208–220 V, 60 Hz
Ambient to –86 °C pull down	6.0 hrs
Power consumption	11.6 kWh/day 483 Watts
No. of cascading compressors	2
Capacity	660 L
Racks per freezer	40
2" box capacity	520
3" box capacity	360
4" box capacity	240
External dimensions (H x W x D)	42.3 x 80.7 x 33.1 in
Internal dimensions (H x W x D)	30.0 x 57.9 x 23.2 in
Shipping weight	722 lb

## Description

The large-capacity HEF C660 is one of the most energy efficient, eco-friendly chest freezers available on the market today. It is identical to New Brunswick's Premium C660, except that it further reduces energy consumption by approximately 25%.

## Ordering information

Description	Catalog No.
<b>HEF C660 chest, 660 L internal capacity</b>	
208–220 V, 60 Hz	U9250-0009
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0006
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0006
<b>HEF C660 racks</b>	
2" box height, 13 boxes per rack	K0641-1690
3" box height, 9 boxes per rack	K0641-1700
4" box height, 6 boxes per rack	K0641-1750
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-HEF
Preventive Maintenance	PM-HEF
Advantage OS	ADVHEF-ULT
Premium Service	PREMHEF-ULT

\* Factory installed at no extra charge if purchased with the freezer at the same time.

## Innova® U101 upright freezers



### Description

Keep your samples safe, secure and easily accessible with the space saving Innova U101. This unique, personal sized upright freezer packs in all the features of our full uprights into one small package. The U101 fits easily on or under your lab bench or can be stacked 2 high.

### Product features

**General product features of the Innova family are listed on page 233. Specific features for Innova U101 include:**

- Capacity: 3.6 ft<sup>3</sup>, 101 L, up to 60 boxes or 6,000 samples
- Under the counter design for immediate access to personal samples and for labs tight on floor space, occupying only 5.4 ft<sup>2</sup>
- For added storage space, an additional U101 can be stacked on top of one another doubling the capacity while utilizing the same floor space
- Engineered with optimal air flow in mind allowing the unit to be placed flush up against the wall



**Model U101 is a unique, personal-size upright freezer that fits on or under your lab bench, or stacked 2 high.**

### Technical specifications

Description	Innova U101
Insulation type	Vacuum insulation panels
Electrical	120 V/60 Hz
Ambient to -80 °C pull down	3.5 hrs
Power consumption	6.4 kWh/day 265 Watts
No. of inner doors	2
No. of cascading compressors	2
Capacity	3.6 ft <sup>3</sup> 101 L
Racks per freezer	6
2" box capacity	60
3" box capacity	36
4" box capacity	24
External dimensions (H x W x D)	32.7 x 35.4 x 22.3 in
Internal dimensions (H x W x D)	25.2 x 18.9 x 13 in
Shipping weight	310 lb

### Ordering information

Description	Catalog No.
<b>U101 under the counter upright, 3.6 ft<sup>3</sup> internal capacity</b>	
120 V	U9420-0000
<b>Back-up systems</b>	
LN <sub>2</sub> * 120 V, 60 Hz	U9044-0002
CO <sub>2</sub> * 120 V, 60 Hz	U9043-0002
<b>U101 racks</b>	
2" box height, 10 boxes per rack	K0641-3003
3" box height, 6 boxes per rack	K0641-3004
4" box height, 4 boxes per rack	K0641-3005
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-101
Preventive Maintenance	PM-101
Advantage OS	ADVU101-ULT
Premium Service	PREMU101-ULT

\* Factory installed at no extra charge if purchased with the freezer at the same time.

Order from your laboratory supply dealer.  
Product appearance, specifications, and/or prices are subject to change without notice.

## Innova® U360 upright freezers



## Product features

**General product features of the Innova family are listed on page 233. Specific features for Innova U360 include:**

- Capacity: 12.7 ft<sup>3</sup>, 360 L, up to 252 boxes or 25,200 samples
- Ultra-slim design for labs tight on floor space, occupying only 5.8 ft<sup>2</sup>
- Bright, eye level backlit LCD display (4.75" x 2.7") provides immediate review of important parameters "at a glance" from a distance
- On-screen system messaging: displays setpoints, details of alarms, door openings and operating conditions with time-date stamp
- Automated data logging: temperature, alarms and door opening data are stored for up to 30 days, for on-screen graphing
- Flexible alarm programming helps avoid false temperature alarms and allows greater user flexibility in alarm control

## Description

Model U360 provides advanced design and sophisticated controls for labs tight on space. Ultra-slimmer at 26.4" wide, the U360 is the first of the Innova line to feature our advanced new controller with extra-large display and graphing capability. The U360 offers all the quality construction and system advantages as our original Innova models plus much more.

## Technical specifications

Description	Innova U360
Insulation type	Vacuum insulation panels
Electrical	120 V/60 Hz
Ambient to -80°C pull down	5 hrs
Power consumption	11.7 kWh/day 487 Watts
No. of inner doors	3
No. of cascading compressors	2
Capacity	12.7 ft <sup>3</sup> 360 L
Racks per freezer	9
2" box capacity	252
3" box capacity	180
4" box capacity	108
External dimensions (H x W x D)	76.8 x 26.4 x 34.1 in
Internal dimensions (H x W x D)	53.7 x 17.3 x 24.2 in
Shipping weight	528 lb

## Ordering information

Description	Catalog No.
<b>U360 ultra-slim upright, 12.7 ft<sup>3</sup> internal capacity</b>	
120 V	U9425-0000
<b>Back-up systems</b>	
LN <sub>2</sub> * 120 V, 60 Hz	U9044-0002
CO <sub>2</sub> * 120 V, 60 Hz	U9043-0002
<b>U360 racks</b>	
2" box height, 28 boxes per rack	K0641-3000
3" box height, 20 boxes per rack	K0641-3001
4" box height, 12 boxes per rack	K0641-3002
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-ULT
Preventive Maintenance	PM-ULT
Advantage OS	ADVSERV-ULT
Premium Service	PREMSERV-ULT

\* Factory installed at no extra charge if purchased with the freezer at the same time.

## Innova® U535 upright freezers



## Product features

General product features of the Innova family are listed on page 233. Specific features for Innova U535 include:

- Capacity: 18.9 ft<sup>3</sup>, 535 L, up to 336 boxes or 33,600 samples
- Vacuum insulation integrated design with 18.9 ft<sup>3</sup> internal capacity. Occupies the same footprint as a traditional foamed 14 ft<sup>3</sup> ULT freezer.
- Bright, eye level, easy to read and reach front mounted LED control panel, provides temperature readout and fault codes
- Available in either 120 V or 208–220 V models
- Voltage Boost/Buck feature evens out high and low voltage fluctuations

## Description

The U535 is the most versatile Innova upright which offers the largest capacity in both 120 V and 220 V configurations. With a footprint occupying 7.4 ft<sup>2</sup> it can be placed almost anywhere and still hold a significant number of samples.

## Technical specifications

Description	Innova U535
Insulation type	Vacuum insulation panels
Electrical	120 V/60 Hz 208–220 V/60 Hz
Ambient to –80 °C pull down	5.3 hrs
Power consumption	13.2 kWh/day 550 Watts
No. of inner doors	3
No. of cascading compressors	2
Capacity	18.9 ft <sup>3</sup> 535 L
Racks per freezer	12
2" box capacity	336
3" box capacity	240
4" box capacity	114
External dimensions (H x W x D)	76.8 x 31.5 x 34.1 in
Internal dimensions (H x W x D)	53.7 x 25.2 x 24.2 in
Shipping weight	656 lb

## Ordering information

Description	Catalog No.
<b>U535 upright, 18.9 ft<sup>3</sup> internal capacity</b>	
120 V	U9430-0000
208–220 V	U9430-0002
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0002
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0002
<b>U535 racks</b>	
2" box height, 28 boxes per rack	K0641-3000
3" box height, 20 boxes per rack	K0641-3001
4" box height, 12 boxes per rack	K0641-3002
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-ULT
Preventive Maintenance	PM-ULT
Advantage OS	ADVSERV-ULT
Premium Service	PREMSERV-ULT

\* Factory installed at no extra charge if purchased with the freezer at the same time.

Order from your laboratory supply dealer.  
Product appearance, specifications, and/or prices are subject to change without notice.

## Innova® U725 upright freezers



### Product features

General product features of the Innova family are listed on page 233. Specific features for Innova U725 include:

- Capacity: 25.6 ft<sup>3</sup>, 725 L, up to 504 boxes or 50,400 samples
- Vacuum insulation integrated design with 25.6 ft<sup>3</sup> internal capacity. Occupies approximately the same footprint as a traditional foamed 20 ft<sup>3</sup> ULT freezer.
- Bright, eye level, easy to read and reach front mounted LED control panel, provides temperature readout and fault codes
- Voltage Boost/Buck feature evens out high and low voltage fluctuations

### Description

The most popular upright freezer in our lineup is the U725, the perfect balance of power and efficiency. The U725 offers fast pull-down and recovery between door openings while consuming only 16.4 kWh/day.

### Technical specifications

Description	Innova U725
Insulation type	Vacuum insulation panels
Electrical	208–220 V/60 Hz
Ambient to –80 °C pull down	5.2 hrs
Power consumption	16.4 kWh/day 685 Watts
No. of inner doors	3
No. of cascading compressors	2
Capacity	25.6 ft <sup>3</sup> 725 L
Racks per freezer	18
2" box capacity	504
3" box capacity	360
4" box capacity	216
External dimensions (H x W x D)	76.8 x 40.4 x 34.1 in
Internal dimensions (H x W x D)	53.7 x 34.1 x 24.2 in
Shipping weight	799 lb

### Ordering information

Description	Catalog No.
<b>U725 upright, 25.6 ft<sup>3</sup> internal capacity</b>	
208–220 V	U9440-0002
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0002
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0002
<b>U725 racks</b>	
2" box height, 28 boxes per rack	K0641-3000
3" box height, 20 boxes per rack	K0641-3001
4" box height, 12 boxes per rack	K0641-3002
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-ULT
Preventive Maintenance	PM-ULT
Advantage OS	ADVSERV-ULT
Premium Service	PREMSERV-ULT

\* Factory installed at no extra charge if purchased with the freezer at the same time.

## Innova® C585 and Innova C760 chest freezers



### Description

New Brunswick chest freezers combine the high efficiency and superior capacity with ergonomic operation while maintaining their reputation of long-term durability and quality construction. The Innova line of chest freezers includes the efficient C585 and large-capacity C760.

### Technical specifications

Description	Innova C585	Innova C760
Insulation type	Vacuum insulation panels	
Electrical	120 V/60 Hz 208–220 V/60 Hz	208–220 V/60 Hz
Ambient to –80 °C pull down	4.3 hrs	5.8 hrs
Power consumption	13.9 kWh/day 580 Watts	16.7 kWh/day 698 Watts
No. of cascading compressors	2	2
Capacity	20.7 ft <sup>3</sup> 585 L	26.9 ft <sup>3</sup> 760 L
Racks per freezer	32	44
2" box capacity	416	572
3" box capacity	288	396
4" box capacity	192	264
External dimensions (H x W x D)	43 x 66.5 x 30.9 in	43 x 80.7 x 30.9 in
Internal dimensions (H x W x D)	30.7 x 47.2 x 24.6 in	30.7 x 61.4 x 24.6 in
Shipping weight	656 lb	732 lb

### Product features

General product features of the Innova family are listed on page 233. Specific features for Innova C585 and C760 include:

- The C760 has the largest capacity in its class: 26.9 ft<sup>3</sup>, 760 L, up to 572 boxes or 57,200 samples
- The C585 is offered in both 120 and 208–220 V configurations and consumes only 13.9 kWh/day, reducing your facility's carbon footprint
- Bright, easy to read and reach front mounted LED control panel, provides temperature readout and fault codes
- Voltage Boost/Buck feature evens out high and low voltage fluctuations
- 30 mm thick inner lids, constructed from molded insulation

### Ordering information

Description	Catalog No.
<b>C585 chest, 20.7 ft<sup>3</sup> internal capacity</b>	
120 V	U9400-0000
208–220 V	U9400-0002
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V	U9044-0002
CO <sub>2</sub> * 120/220 V	U9043-0002
<b>C585 racks</b>	
2" box height, 13 boxes per rack	K0641-1690
3" box height, 9 boxes per rack	K0641-1700
4" box height, 6 boxes per rack	K0641-1750
<b>C760 chest, 26.9 ft<sup>3</sup> internal capacity</b>	
208–220 V	U9410-0002
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0002
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0002
<b>C760 racks</b>	
2" box height, 13 boxes per rack	K0641-1690
3" box height, 9 boxes per rack	K0641-1700
4" box height, 6 boxes per rack	K0641-1750
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-ULT
Preventive Maintenance	PM-ULT
Advantage OS	ADVSERV-ULT
Premium Service	PREMSERV-ULT

\* Factory installed at no extra charge if purchased with the freezer at the same time.

Order from your laboratory supply dealer.  
Product appearance, specifications, and/or prices are subject to change without notice.

## Racks for Innova® freezers



**U101 rack for 2" tall boxes with trays, 6 per freezer.**  
Each rack holds 10 boxes.  
Catalog No. K0641-3003



**U101 rack for 3" tall boxes with trays, 6 per freezer.**  
Each rack holds 6 boxes.  
Catalog No. K0641-3004



**U101 rack for 4" tall boxes with trays, 6 per freezer.**  
Each rack holds 4 boxes.  
Catalog No. K0641-3005



**Innova upright rack for 2" tall boxes.** Fits U360, U535 and U725 and holds 9/12/18 racks per freezer, respectively.  
Each rack holds 28 boxes.  
Catalog No. K0641-3000



**Innova upright rack for 3" tall boxes.** Fits U360, U535 and U725 and holds 9/12/18 racks per freezer, respectively.  
Each rack holds 20 boxes.  
Catalog No. K0641-3001



**Innova upright rack for 4" tall boxes.** Fits U360, U535 and U725 and holds 9/12/18 racks per freezer, respectively.  
Each rack holds 12 boxes.  
Catalog No. K0641-3002



Boxes and additional accessories begin on page 251.

**Innova chest rack for 2" tall boxes.**  
Fits C585 and C760. Each rack holds 13 boxes. Catalog No. K0641-1690

**Innova chest rack for 3" tall boxes.**  
Fits C585 and C760. Each rack holds 9 boxes. Catalog No. K0641-1700

**Innova chest rack for 4" tall boxes.**  
Fits C585 and C760. Each rack holds 6 boxes. Catalog No. K0641-1750



## Premium U410 upright freezers



## Product features

General product features of the Premium family are listed on page 235. Specific features for Premium U410 include:

- Capacity: 14.5 ft<sup>3</sup>, 410 L, up to 240 boxes or 24,000 samples
- 5 compartments each with insulated inner doors. Accepts New Brunswick and other brand racks without shelf adjustment.
- Bright, eye level, easy to read and reach front-mounted LED control panel, provides temperature readout and fault codes
- Available in either 120 V or 208–220 V models

## Description

The U410 is the smallest Premium upright freezer providing excellent performance. Pull down time from ambient to  $-80^{\circ}\text{C}$  is 4.1 hours while consuming only 12.9 kWh/day. The U410 will provide years of maintenance-free, reliable operation with minimal energy consumption compared to competitive models.

## Technical specifications

Description	Premium U410
Insulation type	Polyurethane foam
Electrical	120 V/60 Hz 208–220 V/60 Hz
Ambient to $-80^{\circ}\text{C}$ pull down	4.1 hrs
Power consumption	13.0 kWh/day
No. of inner doors	5
No. of cascading compressors	2
Capacity	14.5 ft <sup>3</sup> 410 L
Racks per freezer	15
2" box capacity	240
3" box capacity	180
4" box capacity	120
External dimensions (H x W x D)	75.4 x 31.5 x 33.5 in
Internal dimensions (H x W x D)	49.8 x 21.7 x 22.6 in
Shipping weight	623 lb

## Ordering information

Description	Catalog No.
<b>U410 upright, 14.5 ft<sup>3</sup> internal capacity</b>	
120 V	U9260-0000
208–220 V	U9260-0002
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0006
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0006
<b>U410 racks</b>	
2" box height, 16 boxes per rack	K0641-1900
3" box height, 12 boxes per rack	K0641-1890
4" box height, 8 boxes per rack	K0641-1880
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-PREM-ULT
Preventive Maintenance	PM-PREM-ULT
Advantage OS	ADVPRE-ULT
Premium Service	PREMSERV-PRE

\* Factory installed at no extra charge if purchased with the freezer at the same time.

Order from your laboratory supply dealer.  
Product appearance, specifications, and/or prices are subject to change without notice.

## Premium U570 upright freezers



## Product features

**General product features of the Premium family are listed on page 235. Specific features for Premium U570 include:**

- Capacity: 20.0 ft<sup>3</sup>, 570 L, up to 400 boxes or 40,000 samples
- 5 compartments each with insulated inner doors. Accepts New Brunswick and other brand racks without shelf adjustment.
- Bright, eye level, easy to read and reach front-mounted LED control panel, provides temperature readout and fault codes
- Available in either 120 V or 208–220 V models

## Description

The U570 is the second largest upright freezer in the Premium line. The U570 will provide years of maintenance-free, reliable operation with minimal energy consumption compared to competitive models.

## Technical specifications

Description	Premium U570
Insulation type	Polyurethane foam
Electrical	120 V/60 Hz 208–220 V/60 Hz
Ambient to –80°C pull down	5.3 hrs
Power consumption	14.2 kWh/day
No. of inner doors	5
No. of cascading compressors	2
Capacity	20.0 ft <sup>3</sup> 570 L
Racks per freezer	25
2" box capacity	400
3" box capacity	300
4" box capacity	200
External dimensions (H x W x D)	75.8 x 40.3 x 33.5 in
Internal dimensions (H x W x D)	49.8 x 30.1 x 22.6 in
Shipping weight	689 lb

## Ordering information

Description	Catalog No.
<b>U570 upright, 20 ft<sup>3</sup> internal capacity</b>	
120 V	U9270-0000
208–220 V	U9270-0002
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0006
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0006
<b>U570 racks</b>	
2" box height, 16 boxes per rack	K0641-1900
3" box height, 12 boxes per rack	K0641-1890
4" box height, 8 boxes per rack	K0641-1880
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-PREM-ULT
Preventive Maintenance	PM-PREM-ULT
Advantage OS	ADVPRE-ULT
Premium Service	PREMSERV-PRE

\* Factory installed at no extra charge if purchased with the freezer at the same time.

## Premium U700 upright freezers



## Product features

General product features of the Premium family are listed on page 235. Specific features for Premium U700 include:

- Capacity: 25.0 ft<sup>3</sup>, 700 L, up to 480 boxes or 48,000 samples
- 5 compartments each with insulated inner doors. Accepts New Brunswick and other brand racks without shelf adjustment.
- Bright, eye level, easy to read and reach front-mounted LED control panel, provides temperature readout and fault codes
- Available in either 120 V or 208–220 V models

## Description

The largest upright freezer in our Premium line is the U700 and the first Premium freezer to feature an upgraded door gasket and ergonomically placed pressure equalization port. The U700 will provide years of maintenance-free, reliable operation with minimal energy consumption compared to competitive models.

## Technical specifications

Description	Premium U700
Insulation type	Polyurethane foam
Electrical	120 V/60 Hz 208–220 V/60 Hz
Ambient to –80 °C pull down	5.3 hrs
Power consumption	16.6 kWh/day
No. of inner doors	5
No. of cascading compressors	2
Capacity	25.0 ft <sup>3</sup> 700 L
Racks per freezer	30
2" box capacity	480
3" box capacity	360
4" box capacity	240
External dimensions (H x W x D)	77.1 x 44.1 x 34.3 in
Internal dimensions (H x W x D)	51.8 x 34.1 x 24.1 in
Shipping weight	820 lb

## Ordering information

Description	Catalog No.
<b>U700 upright, 25 ft<sup>3</sup> internal capacity</b>	
120 V	U9280-0000
208–220 V	U9280-0002
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0006
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0006
<b>U700 racks</b>	
2" box height, 16 boxes per rack	K0641-1900
3" box height, 12 boxes per rack	K0641-1890
4" box height, 8 boxes per rack	K0641-1880
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-PREM-ULT
Preventive Maintenance	PM-PREM-ULT
Advantage OS	ADVPRE-ULT
Premium Service	PREMSERV-PRE

\* Factory installed at no extra charge if purchased with the freezer at the same time.

Order from your laboratory supply dealer.  
Product appearance, specifications, and/or prices are subject to change without notice.

## Premium C340 and Premium C660 chest freezers



### Product features

General product features of the Premium family are listed on page 235. Specific features for Premium C340 and C660 include:

- The C660, available in 208–220 V, offers 23.3 ft<sup>3</sup> internal capacity or 660 L, up to 520 boxes or 52,000 samples
- The C340, available in 120 V, offers 12.0 ft<sup>3</sup> internal capacity or 340 L, up to 260 boxes or 26,000 samples
- Bright, easy to read and reach front-mounted LED control panel, provides temperature readout and fault codes
- 10 mm thick inner lids, constructed from Foamex with stainless steel trimming

### Description

New Brunswick chest freezers combine the high efficiency and superior capacity with ergonomic operation while maintaining their reputation of long-term durability and quality construction. The Premium line of chest freezers offers a cost-saving alternative for those who need a reliable freezer but do not require the space-saving advantages of the Innova line.

### Technical specifications

Description	Premium C340	Premium C660
Insulation type	Polyurethane foam	
Electrical	120 V/60 Hz	208–220 V/60 Hz
Ambient to –80 °C pull down	3.4 hrs	6.0 hrs
Power consumption	10.3 kWh/day 430 Watts	15.0 kWh/day 625 Watts
No. of cascading compressors	2	2
Capacity	12.0 ft <sup>3</sup> 340 L	23.3 ft <sup>3</sup> 660 L
Racks per freezer	20	40
2" box capacity	260	520
3" box capacity	180	360
4" box capacity	120	240
External dimensions (H x W x D)	42.3 x 52.8 x 33.1 in	42.3 x 80.7 x 33.1 in
Internal dimensions (H x W x D)	30.0 x 30.0 x 23.2 in	30.0 x 57.9 x 23.2 in
Shipping weight	546 lb	722 lb

### Ordering information

Description	Catalog No.
<b>C340 chest, 12 ft<sup>3</sup> internal capacity</b>	
120 V	U9230-0000
<b>Back-up systems</b>	
LN <sub>2</sub> * 120 V	U9044-0006
CO <sub>2</sub> * 120 V	U9043-0006
<b>C340 racks</b>	
2" box height, 13 boxes per rack	K0641-1690
3" box height, 9 boxes per rack	K0641-1700
4" box height, 6 boxes per rack	K0641-1750
<b>C660 chest, 23.3 ft<sup>3</sup> internal capacity</b>	
208–220 V	U9250-0002
<b>Back-up systems</b>	
LN <sub>2</sub> * 120/220 V, 60 Hz	U9044-0006
CO <sub>2</sub> * 120/220 V, 60 Hz	U9043-0006
<b>C660 racks</b>	
2" box height, 13 boxes per rack	K0641-1690
3" box height, 9 boxes per rack	K0641-1700
4" box height, 6 boxes per rack	K0641-1750
<b>Service</b>	
Warranty Complete, warranty upgrade to 5-years parts and labor	LABOR3-ULT
Extended Warranty	EXTW-PREM-ULT
Preventive Maintenance	PM-PREM-ULT
Advantage OS	ADVPRE-ULT
Premium Service	PREMSERV-PRE

\* Factory installed at no extra charge if purchased with the freezer at the same time.

## Racks for HEF® and Premium freezers



**Premium upright rack for 2" tall boxes.** Fits U410, U570 and U700. Each rack holds 16 boxes. Catalog No. K0641-1900



**Premium upright rack for 3" tall boxes.** Fits U410, U570 and U700. Each rack holds 12 boxes. Catalog No. K0641-1890



**Premium upright rack for 4" tall boxes.** Fits U410, U570 and U700. Each rack holds 8 boxes. Catalog No. K0641-1880



**Premium chest rack for 2" tall boxes.** Fits C340 and C660 and holds 20 or 40 racks/freezer, respectively. Each rack holds 13 boxes. Catalog No. K0641-1690

**Premium chest rack for 3" tall boxes.** Fits C340 and C660 and holds 20 or 40 racks/freezer, respectively. Each rack holds 9 boxes. Catalog No. K0641-1700

**Premium chest rack for 4" tall boxes.** Fits C340 and C660 and holds 20 or 40 racks/freezer, respectively. Each rack holds 6 boxes. Catalog No. K0641-1750

## Freezer accessories

**Innova® cardboard boxes**

- White cardboard box with water resistant coating, designed to withstand ultra-low temperatures
- Available in 2", 3" and 4" tall boxes
- Compatible with box dividers 7 x 7 to 10 x 10 (dividers sold separately)

**Freezer box dividers**

- Available in 7 x 7, 8 x 8, 9 x 9 and 10 x 10 configurations
- Compatible with Innova cardboard boxes (boxes sold separately)

**Ordering information**

Description	Catalog No.
<b>Accessories</b>	
2" tall white cardboard storage boxes	B50-SQ
3" tall white cardboard storage boxes	B75-SQ
4" tall white cardboard storage boxes	B95-SQ
Divider 7 x 7, 0.69" max. tube diameter, holds 49 tubes	D49
Divider 8 x 8, 0.59" max. tube diameter, holds 64 tubes	D64
Divider 9 x 9, 0.51" max. tube diameter, holds 81 tubes	D81
Divider 10 x 10, 0.46" max. tube diameter, holds 100 tubes	D100

## Freezer accessories

**Freezer back-up systems**

- Equipped with a battery back-up to temporarily protect the contents of your freezer in case of power failure.
- Available in either liquid CO<sub>2</sub> and LN<sub>2</sub>. Liquid CO<sub>2</sub> can maintain down to -86 °C

**Chart recorder**

- Includes chart recorder, thermocouple, keys, 100 x chart recorder paper and chart recorder pens

**Ordering information**

Description	Catalog No.
<b>Accessories</b>	
Innova® CO <sub>2</sub> back-up, 120–230 V, 50/60 Hz	U9043-0002
Premium CO <sub>2</sub> back-up, 120–230 V, 50/60 Hz	U9043-0006
Innova LN <sub>2</sub> back-up, 120–230 V, 50/60 Hz	U9044-0002
Premium LN <sub>2</sub> back-up, 120–230 V, 50/60 Hz	U9044-0006
Chart recorder with reverse scale charts, temperature sensor	K0440-0355
Chart recorder paper, pack of 100 charts, for K0440-0355	K0540-0025
Chart recorder pens, 3, for K0440-0355	K0660-0051
<b>Options</b>	
U101 stacking kit	P0625-0020
Slide-in voltage stabilizer for U360	P0625-1090
External voltage stabilizer 120 V, 60 Hz for Premium freezers	M1322-0000
External voltage stabilizer 208/220 V, 60 Hz for Premium freezers	M1322-0002
Padlock adapter kit upright models	P0625-1170
A2 temperature monitoring system	P0625-1630

## Freezer spare parts

Ordering information<sup>1</sup>

Description	Catalog No.
<b>Accessories and replacement parts</b>	
Battery 6 V, 2.8 Ah, all models	K0480-0170
Air filter, U101	K0200-0506
Air filter, U360	P0625-1110
Air filter, upright models	K0200-0511
Air filter, chest models	K0200-0516
Air filter grill, U101	K0200-0505
Air filter grill, U360	P0625-1100
Air filter grill, upright models	K0200-0510
Air filter grill, chest models	K0200-0515
Inner lid, C585	K0160-0777
Inner lid, C760	K0160-0776
Inner lid, C340	K0280-1041
Inner lid, C660	K0280-1043
Inner shelf, U101	P0625-0180
Extra shelf, U360. Includes four mounting clips.	P0625-1180
Extra shelf, U535. Includes four mounting clips.	K0280-1034
Extra shelf, U725. Includes four mounting clips.	K0280-1036
Extra shelf, U410. Includes four mounting clips.	K0280-1031
Extra shelf, U570. Includes four mounting clips.	K0280-1030
Extra shelf, U700. Includes four mounting clips.	P0625-1185
Shelf clips only, stainless steel, pack of four, upright models	K0280-0550
Alarm connector plug, all models	K0380-0451
Key only, for power switch locking plate, all models	P0625-0111
Key only, for upright door handle	P0625-0640
Key only, for chest lid handle	P0625-0110
Power cord, 120 V, 60 Hz	P0625-0354
Power cord, 208–220 V, 60 Hz	P0625-0358

<sup>1</sup>For a complete parts list, refer to your user manual.



## Accsense A2 independent temperature monitor



### Product features

- Browser-based independent monitoring
- Real-time notification of alarms and freezer status from anywhere in the world
- Independent monitoring with integrated stand-alone hardware and software
- Plug and Play—pre-calibrated to monitor your Ultra-Low Temperature freezer
- Instant access to your data from any computer or PDA from any location around the world
- View collected data in graph form, or download them into a spreadsheet
- Receive alarm notification to your PDA via email, text message or voicemail
- Compatible with any freezer or refrigerator
- Lifetime CFR-compliant data logger/recorder

### Description

The Accsense A2 system is a truly independent temperature monitoring platform for your Ultra-Low Temperature freezer. There is absolutely no software to download and you can generate reports and review alarms within minutes. This is the only system that combines a chart recorder, auto-dialer, alarm system and power monitor into one small pod. In addition, all the data collected by your Accsense A2 system can be viewed from any web based computer, always keeping you informed.



### Technical specifications

Standard temperature probe	
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% full span
Measurement resolution	0.21 °C
Sampling rate	User-selected, 30 sec to 24 hrs
Emergency data storage	256 Samples
Operating environment	-40 °C to 70 °C, 5 to 95% rh
Dimensions	4.9 x 2.6 x 1.2 in
Weight	8 oz

### Ordering information

Description	Catalog No.
Pod and Probe with wall plug power connection, 60 Hz	P0625-1630

## BioCommand® SFI Track and Trend data logging software



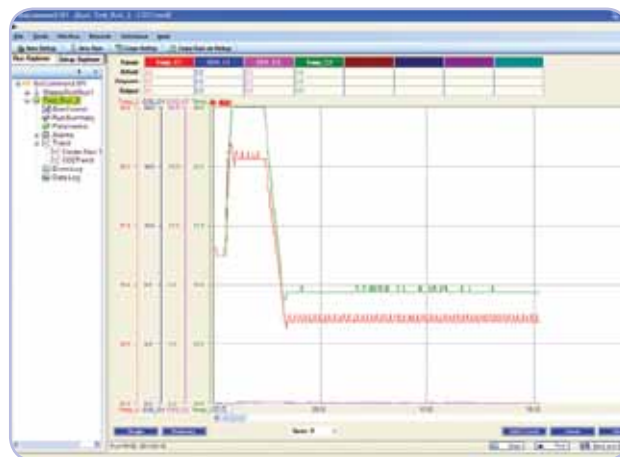
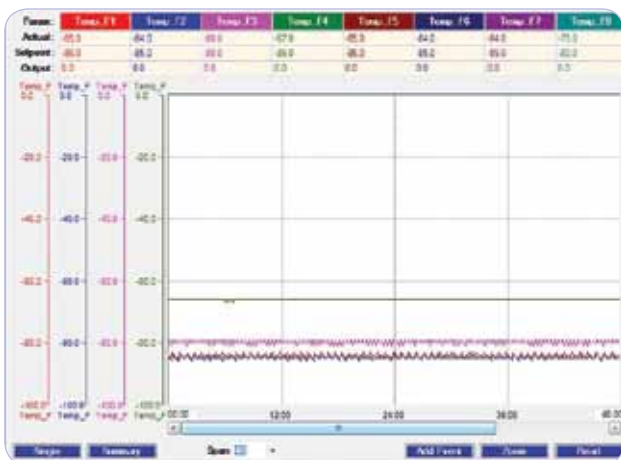
Graphical representation of the output

### Product features

- Track the operational parameters of your choice with the option to design and save templates
- Monitor multiple units from the same PC
- Trend and archive critical data including temperature, agitation speed and gas concentration for up to 32 units simultaneously
- Provides indications of alarm conditions identified by the product

### Description

BioCommand SFI Track and Trend Software: The BioCommand SFI software package is designed specifically for standard laboratory equipment including shakers, CO<sub>2</sub> incubators and ULT freezers<sup>1</sup>. The software package allows you to track key operational information such as time, temperature, shaking speed, CO<sub>2</sub> concentrations and humidity.



### Ordering information

Description	Catalog No.
<b>BioCommand SFI Track and Trend packages<sup>1</sup></b>	
Shaker package	M1291-1000
CO <sub>2</sub> incubator package	M1291-1001
ULT freezer package	M1291-1002
<b>To connect additional units<sup>2</sup></b>	
Shaker cable, 25 ft/7.6 m	M1291-8001
CO <sub>2</sub> incubator cable, 15 ft/4.5 m	P0620-7012
ULT freezer cable set, 45 ft/15 m	M1291-5001 <sup>3</sup>
4-port RS-232/485 to USB converter	P0460-7751
8-port RS-232/485 to USB converter	P0460-7750

<sup>1</sup> Includes software, and cable to connect one shaker, freezer or CO<sub>2</sub> incubator. Computer requires an RS-232 or USB port. Shaker/incubator/freezer requires RS-232 or RS-485 port.

<sup>2</sup> When connecting multiple shakers, CO<sub>2</sub> incubators or freezers, in addition to a single software package, one additional cable is required for each additional system you monitor/log.

Shakers and CO<sub>2</sub> incubators additionally require a 4- or 8-port converter.

<sup>3</sup> Includes RS-485 Board.

Green worksheet

**Description**

New Brunswick Ultra-Low Temperature freezers are the most energy-efficient in the industry, reducing energy consumption by thousands of kilowatt hours over our competition.



- New High Efficiency Freezers further reduce energy consumption by up to 59% compared to other models of similar size and are 98% recyclable by weight
- A 28 ton reduction of CO<sub>2</sub> emissions on average, over the life of each freezer
  - That’s equivalent to planting 138 earth-cooling, oxygen-replenishing adult trees

And, with models in 10 sizes, 3.6 to 26.9 ft<sup>3</sup>, you’ll never have to buy a freezer larger than you actually need, further reducing energy usage and CO<sub>2</sub> emissions.

**Green worksheet**

New Brunswick freezer model	Capacity (ft <sup>3</sup> )	kWh/Day New Brunswick freezers	kWh/Day competitor’s freezer	kWh/Day savings with New Brunswick freezer	National Average cost per kWh	Energy savings over 10 years	Energy Savings for every 25 units over 10 years	Reduction in CO <sub>2</sub> Emissions over 10 years <sup>1</sup>
HEF <sup>®</sup> U410	14.5	8.7	19.1	10.4	0.12	\$4,692	\$117,296	26.0 tons
HEF U570	20.0	12.2	24.0	11.8		5,323	133,086	29.5 tons
HEF C660	23.3	11.6	29.1	17.5		7,895	197,374	43.8 tons
U101	3.6	6.3	7.1	0.8		361	9,023	2.0 tons
U360	12.7	11.6	18.6	7.0		3,158	78,950	17.5 tons
U535	18.9	13.2	25.0	11.8		5,323	133,086	29.5 tons
U725	25.6	16.4	29.5	13.1		5,910	147,748	32.8 tons
C585	20.7	13.9	27.5	13.6		6,136	153,388	34.0 tons
C760	26.9	16.7	30.0	13.3		6,000	150,004	33.3 tons
U410	14.5	13.0	19.1	6.1		2,752	68,799	27.3 tons
U570	20	14.2	24.0	9.8		4,421	110,529	24.8 tons
U700	25	16.6	29.5	12.9		5,820	145,493	36.5 tons
C340	12	10.3	24.0	13.7		6,181	154,515	34.3 tons
C660	23.3	15.0	29.1	14.1		6,361	159,027	35.3 tons
<b>New Brunswick Average</b>	<b>18.6</b>	<b>12.8</b>	<b>24.0</b>	<b>11.1</b>			<b>5,024</b>	<b>125,594</b>

<sup>1</sup>Based on national average of 1.37 lbs CO<sub>2</sub>/kWh  
www.eia.doe.gov

Order from your laboratory supply dealer.  
Product appearance, specifications, and/or prices are subject to change without notice.

## Go green and save green with New Brunswick Ultra-Low Temperature freezers

### Go green and save operating costs and the environment with New Brunswick Ultra-Low Temperature freezers.

New Brunswick  $-86^{\circ}\text{C}$  freezers are among the most energy-efficient in the industry, reducing energy consumption by thousands of kilowatt hours over our competition. Additionally, New Brunswick Freezers are 95% recyclable by weight, so they can be disposed of in an environmentally friendly manner with very little impact to the environment.

And, with models in 10 sizes, 101–725 L, you'll never have to buy a freezer larger than you actually need, further reducing energy usage, operating costs, and the carbon footprint.

#### What is a carbon footprint?

One way to measure the amount of pollution produced is by calculating your carbon footprint—the amount of carbon dioxide ( $\text{CO}_2$ ) produced through burning fossil fuels for electricity. For simplicity,  $\text{CO}_2$  is expressed in tons emitted per year.

### Offset with New Brunswick freezers

The standard rule of thumb is you produce 1.37 pounds of carbon dioxide with each kilowatt hour of electricity you use. In other words, for every kilowatt hour of electricity you **DO NOT** use, you save 1.37 pounds of carbon dioxide from entering the atmosphere. On average, by selecting an New Brunswick freezer over a competitive unit, you can save up to 27.9 tons of  $\text{CO}_2$  from entering the atmosphere over the lifetime of the unit. In comparison, when you switch from halogen light bulbs to compact fluorescent bulbs, you save 100 pounds of  $\text{CO}_2$  per bulb per year. The average vehicle traveling 12,000 miles each year getting 22 miles per gallon emit more than 10,000 pounds of carbon dioxide per year! Not only are you helping save the environment but you are also reducing your operation costs on average by \$6,716 per freezer during its lifetime (See Green worksheet on page 256).

### Help us help the environment




Did you know all New Brunswick freezers are 95% recyclable by weight? Rest assured when the time comes to trade in your old New Brunswick freezer for a new one, it can be disposed of in an environmentally friendly manner with very little impact to the environment.



**Sources:**  
National Inventory Report 1990-2008: Greenhouse Gas Sources and Sinks in Canada



# Support and Services Directory

## Contact Information

	United States	Canada
	<b>Business Hours:</b> 8:30 a.m. to 8:00 p.m. EST	8:30 a.m. to 5:00 p.m. EST
	<b>Phone:</b> 800-645-3050 516-334-7500	800-263-8715 905-826-5525
	<b>Fax:</b> 516-334-7506	905-826-5424
	<b>Website:</b> <a href="http://www.eppendorfna.com">www.eppendorfna.com</a>	<a href="http://www.eppendorf.ca">www.eppendorf.ca</a>
	<b>Email:</b> <a href="mailto:info@eppendorf.com">info@eppendorf.com</a>	<a href="mailto:canada@eppendorf.com">canada@eppendorf.com</a>

	<b>Customer Support:</b> 800-645-3050 <a href="mailto:custserv@eppendorf.com">custserv@eppendorf.com</a>	800-263-8715 <a href="mailto:canadacustserv@eppendorf.com">canadacustserv@eppendorf.com</a>
	<b>Technical Service:</b> 800-645-3050 <a href="mailto:techserv@eppendorf.com">techserv@eppendorf.com</a>	800-645-3050 <a href="mailto:techserv@eppendorf.com">techserv@eppendorf.com</a>

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