New Brunswick™ Premium Freezers

Quality. Reliability. Value.

Over 30 years of innovation have gone into the design of New Brunswick Premium Freezers—the original benchmark for top quality ultra-low temperature freezers.

Premium Freezers are known for their worry-free, long-term reliability, sample preservation, and energy efficiency. They provide many of the same features as our Innova models, but are conventionally-insulated for a cost-effective alternative. Polyurethane insulation combined with a highly efficient cooling system achieve and maintain ultra-low temperatures of -86° C.

Like all New Brunswick freezers from Eppendorf, these models provide significant energy savings—up to 40 % less energy consumption compared to competitor models.

Five models are offered to meet your application requirements, including a new 700-liter large capacity upright.

Premium Freezers offer the advantage of five interior compartments to limit cold air loss during sample access

Premium Upright Model U410
410 Liters
Holds up to 24,000 samples
External dimensions (H x W x D):
191.5 x 80 x 85.2 cm

Premium Upright Model U570
570 Liters
Holds up to 40,000 samples
External dimensions (H x W x D):
192.5 x 102.5 x 85.2 cm

Premium Upright Model U700
700 Liters
Holds up to 48,000 samples
External dimensions (H x W x D):
195.9 x 112.1 x 87 cm

Premium Chest Model C340
340 Liters
Holds up to 26,000 samples
External dimensions (H x W x D):
107.5 x 134 x 84 cm

Premium Chest Model C660
660 Liters
Holds up to 52,000 samples
External dimensions (H x W x D):
107.5 x 205 x 84 cm

To allow for handles and hinges, add 80 mm to width of upright freezers and 110 mm to depth of chest freezers. Open doors on upright freezers add up to 150 mm.

See pages 14-15 for ordering information, detailed technical specifications and performance data.

Ordering information, technical specifications and performance data

Line			HEF® High Efficiency and Green Freezers			
Style			**Upright**	**Upright**	**Upright**	**Chest**
Model No.			**U725-G**	**HEF U410**	**HEF U570**	**HEF C660**
Catalog No.	**120V, 60 Hz**		**—**	**U9260-0007**	**U9270-0007**	**—**
	208 - 230V, 60 Hz		**—**	**—**	**—**	**U9250-0009**
	230V, 50 Hz		**U9440-0005 (Air-Cooled)** **U9440-0004 (Water-Cooled)**	**U9260-0008**	**U9270-0008**	**U9250-0008**
Power	**Electric/Mains (A)**	120V, 60 Hz	—	16.5	16.5	—
		208 - 230V, 60 Hz	—	—	—	8
		230V, 50 Hz	9.5	5	6	6
	kWh per day[1]	120V, 60 Hz	—	8.6	12.2	—
		208 - 230V, 60 Hz	—	—	—	11.5
		230V, 50 Hz	12.2 (Air-Cooled)	8.4	8.9	11.4
Capacity	**Overall**		725 L	410 L	570 L	660 L
	Compartments		3	5	5	—
	Racks per shelf		6	3	5	—
	Racks per freezer		18	15	25	40
	Box capacity per rack	2 in (50 mm) box (H)	28	16	16	13
		3 in (75 mm) box (H)	20	12	12	9
		4 in (100 mm) box (H)	12	8	8	6
	Box capacity per freezer	2 in (50 mm) box (H)	504	240	400	520
		3 in (75 mm) box (H)	360	180	300	360
		4 in (100 mm) box (H)	216	120	200	240
	Sample capacity per freezer	2 in (50 mm) box (H)	50,400	24,000	40,000	52,000
		3 in (75 mm) box (H)	36,000	18,000	30,000	36,000
		4 in (100 mm) box (H)	21,600	12,000	20,000	24,000
Performance	**Pull down to -85° C (Hours)**[2]	120V, 60 Hz	—	5.8	6	—
		208 - 230V, 60 Hz	—	—	—	6
		230V, 50 Hz	4.8 (Air-Cooled)	4.7	4.7	5
	Noise level (dB)	120V, 60 Hz	—	57	58.5	—
		208 - 230V, 60 Hz	—	—	—	61
		230V, 50 Hz	59	53	58	58.5
	Heat output (Watts)	120V, 60 Hz	—	525	630	—
		208 - 230V, 60 Hz	—	—	—	580
		230V, 50 Hz	730 (Air-Cooled)	505	520	580
Refrigerant	**60 Hz models**		—	404A/508B	404A/508B	404A/508B
	50 Hz models		R290/R170	R290/R170	R290/R170	R290/R170
Dimensions[3]	**External**	Height (cm)	195	191.5	192.5	107.5
		Width (cm)	102.5	80	102.5	205
		Depth (cm)	86.7	85.2	85.2	84
	Internal	Height (cm)	136.5	126.5	126.5	76
		Width (cm)	86.5	55	76.5	147
		Depth (cm)	61.5	57.5	57.5	59
Weight	**Net weight (Kg)**		315	262	296	304
	Shipping weight (Kg)		365	310	327	352

[1] Empty freezer with shelves fitted (upright freezers only), set point -80° C, 22 - 26° C ambient conditions.
[2] Empty freezer with shelves fitted (upright freezers only), pull down from 22 - 26° C ambient conditions.
[3] Optional CO_2/LN_2 back-up systems add 8.65 cm (3.4 in) to height.

Innova® Freezers						Premium Freezers				
Upright	**Upright**	**Upright**	**Upright**	**Chest**	**Chest**	**Upright**	**Upright**	**Upright**	**Chest**	**Chest**
U101	**U360**	**U535**	**U725**	**C585**	**C760**	**U410**	**U570**	**U700**	**C340**	**C660**
U9420-0000	**U9425-0000**	**U9430-0000**	**—**	**U9400-0000**	**—**	**U9260-0000**	**U9270-0000**	**U9280-0000**	**U9230-0000**	**—**
—	**—**	**U9430-0002**	**U9440-0002**	**U9400-002**	**U9410-0002**	**U9260-0002**	**U9270-0002**	**U9280-0002**	**—**	**U9250-0002**
U9420-0001	**U9425-0001**	**U9430-0001**	**U9440-0001**	**U9400-0001**	**U9410-0001**	**U9260-0001**	**U9270-0001**	**U9280-0003**	**U9230-0001**	**U9250-0001**
13	16.5	16.5	—	16.5	—	16.5	16.5	13	16.5	—
—	—	9	10	9	10	8	9	8	—	8
5	6.5	5	9.5	5.5	9.5	5	6	7	4.5	6
6.4	11.7	13.2	—	13.9	—	13	14.2	15.9	10.3	—
—	—	13.2	16.4	13.9	16.8	13	14.2	15.9	—	15
8.8	10.7	13.2	15.8	13.6	16	10.8	11.8	15.9	8.8	14.3
101 L	360 L	535 L	725 L	585 L	760 L	410 L	570 L	700 L	340 L	660 L
2	3	3	3	—	—	5	5	5	—	—
3	3	4	6	—	—	3	5	6	—	—
6	9	12	18	32	44	15	25	30	20	40
10	28	28	28	13	13	16	16	16	13	13
6	20	20	20	9	9	12	12	12	9	9
4	12	12	12	6	6	8	8	8	6	6
60	252	336	504	416	572	240	400	480	260	520
36	180	240	360	288	396	180	300	360	180	360
24	108	144	216	192	264	120	200	240	120	240
6,000	25,200	33,600	50,400	41,600	57,200	24,000	40,000	48,000	26,000	52,000
3,600	18,000	24,000	36,000	28,800	39,600	18,000	30,000	36,000	18,000	36,000
2,400	10,800	14,400	21,600	19,200	26,400	12,000	20,000	24,000	12,000	24,000
3.5	5	5.3	—	4.3	—	4.1	5.3	5.9	3.4	—
—	—	5.3	5.2	4.3	5.8	4.1	5.3	4.8	—	6
3.7	5.6	5.3	5.6	4.5	5.8	5.3	5.2	6	3.8	5.8
54	54	56	—	56	—	57	58.5	61	58	—
—	—	56	59	56	58	57	58.5	61	—	58
54	54	56	59	56	58	55	56	59	56	57
344	623	720	—	700	—	600	700	755	580	—
—	—	720	750	700	750	600	700	755	—	650
440	590	720	750	700	750	650	700	755	580	650
404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B
404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B	404A/508B
83	195	195	195	109.2	109.2	191.5	192.5	195.9	107.5	107.5
90	67	80	102.5	169	205	80	102.5	112.1	134	205
56.6	86.7	86.7	86.7	78.5	78.5	85.2	85.2	87	84	84
64	136.5	136.5	136.5	78	78	126.5	126.5	131.6	76	76
48	44	64	86.5	120	156	55	76.5	86.7	76	147
33	61.5	61.5	61.5	62.5	62.5	57.5	57.5	61.3	59	59
116	230	250	315	240	285	235	265	279	205	280
141	240	298	363	298	333	283	313	372	248	328

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