SUPPLYLAB

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SOLUTIONS YOU CAN TRUST



Dependable -80°C storage with energy-savings and sustainability features

- Low peak variation helps ensure sample protection throughout entire cabinet
- Fast door opening recovery in as little as 13 minutes
- **0.93°C steady-state temperature** variation over time
- Long warm-up time from -80°C to -50°C in 5 hours
- Four capacities: 300, 400, 500 and 600 2-inch (5cm) box



Designed to keep your samples safe

- Worry-free storage. With low peak variation, samples are protected throughout the entire cabinet.
- Records temperature and events

Limit environmental impact and lower HVAC costs

- Uses as low as 9.4 kWh/day, depending on size
- Less heat emission lowers HVAC costs
- Natural refrigerants compliant with EU F-Gas regulation: R170 and R290
- Environmentally-friendly, water-blown foam insulation
- Manufactured in an award-winning, zero-waste to landfill facility

User-friendly and quiet

- Completely new freezer and user interface.
- Quiet enough to reside directly in the laboratory. At just 50 dBA, the sound is comparable to a home refrigerator.²



Typical freezer data based on internal testing with freezer setpoint at -80°C and ambient temperature at 20°C. Performance data varies across freezer size and electrical specifications.

User friendly touch-screen interface and cabinet

Easy-to-use set-up wizard, event log, temperature mapping and data downloads

Capacitive touch even when using latex gloves

Touch-screen datalogging and temperature mapping eliminates the need for a separate chart recorder

Built-in USB port for exporting data

Advanced security features: alarm settings, password-protected controller, padlock-compatible doors and optional access card entry

Ergonomic design: comfortable door handle, eye-level touch-screen and shelf-level placement that do not require floor-level loading of racks

Five inner doors minimize ambient temperature during sample retrieval



Specifications & Ordering Information

Upright I	reeze	rs (-50°	C to -86°C)					
	Сар	acity			Max. Shelf			Shipping
Model Number	liters	5cm (2") cryobox	Electrical	Amps / Breaker (Plug)	Weight kg	Interior Dimensions H x W x D cm	Exterior Dimensions H x W* x D cm	Weight kg
HLE30086V	422	300	230V / 50Hz	5.9/10 (European)	57	130.1 x 45.2 x 71.9	198.1 x 58.4 x 95.5	323
HLE30086D	422	300	208-230V / 60Hz	5.6/15 (NEMA 6-15)	57	130.1 X 45.2 X 7 1.9	190.1 X 56.4 X 95.5	323
HLE40086V	549	400	230V / 50Hz	5.3/10 (European)	75	130.1 x 58.8 x 71.9	198.1 x 71.9 x 95.5	312
HLE40086D	549	400	208-230V / 60Hz	5.9/15 (NEMA 6-15)	75	130.1 X 30.0 X 7 1.9	196.1 x 71.9 x 95.5	312
HLE50086V	682	500	230V / 50Hz	5.9/10 (European)	93	130.1 x 73.0 x 71.9	100 1 4 06 4 4 05 5**	200
HLE50086D	082	500	208-230V / 60Hz	5.0/15 (NEMA 6-15)	93	130.1 x 73.0 x 71.9	198.1 x 86.4 x 95.5**	333
HLE60086V	010	000	230V / 50Hz	6.1/10 (European)	444	100 1 07 0 71 0	100 1 100 0 05 5**	070
HLE60086D	816	600	208-230V / 60Hz	6.2/15 (NEMA 6-15)	1 111	111 130.1 x 87.3 x 71.9 198.1 x 100.6 x 95		372

^{*} Allowance for handle and hinge, add 10.7 cm to cabinet width

^{**} Doorway width clearance is 87.6 cm for HLE50086 and HLE60086



Perform	Performance Data									
Model Number	Energy Consumption (kW-hr/day)* Standard Mode	Peak Variation from -80°C setpoint (°C)**	Door Opening Recovery (minutes)	Warm Up Time (-80°C to -50°C) (minutes)***	Noise Level (dBA)					
HLE30086	9.4	+8.5 / -2.4	13	254	52					
HLE40086	9.8	+8.7 / -1.2	15	262	52					
HLE50086	10.8	+6.6 / -1.0	21	258	50					
HLE60086	11.5	+6.5 / -0.8	26	300	50					

^{*} Energy Calculation: Typical freezer data based on internal testing with freezer setpoint at -80°C and ambient temperature at 20°C

^{***} Warm Up Time: Typical freezer data based on internal testing with freezer setpoint at -80°C and ambient temperature at 20°C





^{**} Peak Variation From Setpoint: Typical freezer data based on internal testing with freezer setpoint at -80°C and ambient temperature at 20°C

Thermo Scientific™ HERAfreeze™ HLE Series Ultra-Low Freezers

Options and Accessories (Field Installed must be installed by a qualified professional)

Options	Installation	HLE30086	HLE40086	HLE50086	HLE60086
LN2 Backup System	Factory Installed	N/A	LN4567	LN4567	LN4567
Maintains temperature down to -80°C with liquid nitrogen. Models for HLE300 are stand alone.	Field Installed	FLN300V* FLN300W**	FLN4567LE	FLN4567LE	FLN4567LE
CO2 Backup System	Factory Installed	N/A	CO4567	CO4567	CO4567
Maintains temperature down to -67°C with CO2. Models for HLE300 are stand alone.	Field Installed	FCO300V* FCO300W**	FCO4567LE	FCO4567LE	FCO4567LE
Chart Recorder (Inkless)	Factory Installed	N/A	CR4567	CR4567	CR4567
6" (15.2 cm), seven day inkless recorder, -115° to +50°C, +5°C resolution	Field Installed	N/A	FCR400LE	FCR500LE	FCR600LE
Chart Recorder (Ink)	Factory Installed	N/A	CRP4567	CRP4567	CRP4567
6" (15.2 cm), seven day inkless recorder, -115° to +50°C, +5°C resolution	Field Installed	6383-6V* 6383-6W**	FCRP400LE	FCRP500LE	FCRP600LE
Access Key Option Card	Factory Installed	RAC34567	RAC34567	RAC34567	RAC34567
Access control. Includes five key cards. Supports ISO15693 and ISO14443 protocols.	Field Installed	FAC34567LE	FAC34567LE	FAC34567LE	FAC34567LE
Stainless Steel Freezer Interior	Factory Installed	SS34567	SS34567	SS34567	SS34567
Twist Lock Plug	Factory Installed	US230V15ATL	US230V15ATL	US230V15ATL	US230V15ATL
NEMA L6-15P for 208-230V / 60Hz	Field Installed	TL230V15A	TL230V15A	TL230V15A	TL230V15A
Twist Lock Plug	Factory Installed	US230V20ATL	US230V20ATL	US230V20ATL	US230V20ATL
NEMA L6-20P for 208-230V / 60Hz	Field Installed	TL230V20A	TL230V20A	TL230V20A	TL230V20A

Accessories	HLE30086	HLE40086	HLE50086	HLE60086
Access Key Pack: Includes five key cards.	ACE34567	ACE34567	ACE34567	ACE34567
Shelf Kit: Includes one shelf and shelf support clips	SK300	SK400	SK500	SK600
Chart Paper Ink (Pack of 50)	17020	17020	17020	17020
Chart Paper Inkless (Pack of 50)	N/A	6185	6185	6185
Replacement Air Filter	AF34567LE	AF34567LE	AF34567LE	AF34567LE
Replacement Back-Up Battery	400159	400159	400159	400159
Alarm Delay Module: Eliminates nuisance alarms due to intermittent or transitory conditions. Adjustable delaly requires alarm condition to exist for user defined period before signal is released to monitoring system.	6903	6903	6903	6903
Cryo Gloves Medium	4425	4425	4425	4425
Cryo Gloves Large	4426	4426	4426	4426
Seismic Restraint Kit	TF-ULT300	TF-ULT400	TF-ULT500	TF-ULT600

^{*}V = 230V/50Hz (European plug)

^{**}W = 230V/50Hz (UK plug)





Thermo Scientific™ HERAfreeze™ HLE Series Ultra-Low Freezers

Racks for Boxes and Microplates

Racks for 2" (5.	Racks for 2" (5.08 cm) Boxes										
Model No.	Description	Dimensions H x W x D cm	Storage	HLE300	HLE400	HLE500	HLE600				
			Boxes Per Rack	20	20	20	20				
000000	Sliding Drawer Rack	24 x 14 x 68.3	Racks Per Shelf	3	4	5	6				
398329			Racks Per Freezer	15	20	25	30				
			Boxes Per Freezer	300	400	500	600				
			Boxes Per Rack	20	20	20	20				
1050510	Adjustable Side	00.010.707.0	Racks Per Shelf	3	4	5	6				
1950518	Access Rack	23.9 x 13.7 x 67.9	Racks Per Freezer	15	20	25	30				
			Boxes Per Freezer	300	400	500	600				

Racks for 3" (7.6	Racks for 3" (7.62 cm) Boxes										
		Dimensions H x W x D cm	Storage	HLE300	HLE400	HLE500	HLE600				
	Sliding Drawer Rack	24 x 14 x 68.3	Boxes Per Rack	15	15	15	15				
000000			Racks Per Shelf	3	4	5	6				
398328			Racks Per Freezer	15	20	25	30				
			Boxes Per Freezer	225	300	375	450				

Racking Shelf Kits										
Description	Storage	HLE300	HLE400	HLE500	HLE600					
	Model No.	RSK300SD5	RSK400SD5	RSK500SD5	RSK600SD5					
Sliding Drawer Racks and 2" Boxes with 100 Count Cell Dividers (fits one shelf)	Racks Included	3	4	5	6					
	Boxes Included	60	80	100	120					

Racks for Micro	Racks for Microplates										
Model No.	Description	Dimensions H x W x D cm	Storage	HLE300	HLE400	HLE500	HLE600				
	Side Access Rack with Locking Rod for Standard or Deepwell		Plates Per Rack	98	98	98	98				
398322		23.9 x 14 x 65.3	Racks Per Shelf	3	4	5	6				
390322			Racks Per Freezer	15	20	25	30				
			Plates Per Freezer	1470	1960	2450	2940				



Thermo Scientific™ HERAfreeze™ HLE Series Ultra-Low Freezers

Boxes and Dividers

Model No.	Description	# of Dividers	Quantity	Color
5026-0909	Thermo Scientific™ Nalgene™ polycarbonate 2" (5.08 cm) box for 1.2-2.0 mL vials	81	24	white
5954	2" (5.08 cm) fiberboard box	0	12	white
820002	2" (5.08 cm) fiberboard box	81	1	white
820109	2" (5.08 cm) fiberboard box	100	1	white
5956	3" (7.62 cm) fiberboard box	0	12	white
820003	3" (7.62 cm) fiberboard box	81	1	white
1950878	2" (5.08 cm) fiberboard box	0	12	multiple
1950879	2" (5.08 cm) fiberboard box	0	12	pink
1950880	2" (5.08 cm) fiberboard box	0	12	red
1950881	2" (5.08 cm) fiberboard box	0	12	yellow
1950882	2" (5.08 cm) fiberboard box	0	12	green
1950883	2" (5.08 cm) fiberboard box	0	12	blue
1950884	2" (5.08 cm) fiberboard box	0	12	black

Fiberboard Dividers

Model No.	Description	Quantity/Case
5958	Grid dividers for 100 12mm vials	12
6212	Grid dividers for 81 13mm vials	12
5960	Grid dividers for 64 14mm vials	12
5959	Grid dividers for 49 16mm vials	12

Vials and Tubes

Model No.	Description	Quantity/Case
377267	Thermo Scientific™ Nunc™ 1.8mL screw-top round-bottom vials with internal threading	1,800

Visit thermofisher.com for additional vials, tubes and sample storage consumables



Thermo Scientific™ HERAfreeze™ HLE Series Ultra-Low Freezers

Sliding Drawer Racks for Matrix and Cryobank Tubes

		Freezer Model	HLE300	HLE400	HLE500	HLE600
200 μL Cap	pacity Tubes					
		Rack Model No	1950786	1950786	1950786	1950786
	Thermo Scientific™ Matrix™ 200 µL 2D	Freezer Rack Dimensions W x H x D	14 x 24 x 68.5 cm			
3747, 3748,	Internally-threaded	Tubes per Box	96	96	96	96
4988	Universal Tubes Box Dimension:	Boxes Per Rack	42	42	42	42
	8.5 x 12.8 x 2.75 cm	Racks Per Shelf	3	4	5	6
		Racks Per Freezer	15	20	25	30
		Tubes Per Freezer	60,480	80,640	100,800	120,960
500 μL Cap	pacity Tubes					
	Thermo Scientific	Rack Model No	1950786	1950786	1950786	1950786
3734, 3735, 4898	Matrix 500 µL 2D Open Top Tubes Box Dimension: 8.5 x 12.8 x 2.6 cm	Freezer Rack Dimensions W x H x D	14 x 24 x 68.5 cm			
	Thermo Scientific™ Matrix™ 200 µL 2D with Duraseals Installed Internally-threaded Universal Tubes	Tubes per Box	96	96	96	96
3736,		Boxes Per Rack	42	42	42	42
3737, 4899		Racks Per Shelf	3	4	5	6
4699	Box Dimension:	Racks Per Freezer	15	20	25	30
	8.5 x 12.8 x 2.75 cm	Tubes Per Freezer	60,480	80,640	100,800	120,960
		Rack Model No	1950786	1950786	1950786	1950786
374086, 374087 (including color options)	Thermo Scientific Nunc™ Cryobank™ 500 µl Internally Threaded Tubes Box Dimension: 8.5 x 12.8 x 3.5 cm	Freezer Rack Dimensions W x H x D	14 x 24 x 68.5 cm			
		Tubes per Box	96	96	96	96
3743, 3744,	Thermo Scientific Matrix 500 µL 2D	Boxes Per Rack	42	42	42	42
3745 (including	Internally Threaded ScrewTop Tubes	Racks Per Shelf	3	4	5	6
color options)	Box Dimension: 8.5 x 12.8 x 4.4 cm	Racks Per Freezer	15	20	25	30
		Tubes Per Freezer	60,480	80,640	100,800	120,960





Thermo Scientific™ HERAfreeze™ HLE Series Ultra-Low Freezers

Sliding Drawer Racks for Matrix and Cryobank Tubes

		Freezer Model	HLE300	HLE400	HLE500	HLE600				
750 μL Capacity Tubes										
3731, 3732, 4896	Thermo Scientific Matrix 750 µL 2D Open Top Tubes Box Dimension: 8.5 x 12.8 x 3.9 cm	Rack Model No	1950639	1950639	1950639	1950639				
		Freezer Rack Dimensions W x H x D	14 x 24 x 68.5 cm							
3729, 4896	Thermo Scientific Matrix 750 µL 2D Tubes with Duraseals Installed Box Dimension: 8.5 x 12.8 x 3.9 cm	Tubes per Box	96	96	96	96				
		Boxes Per Rack	28	28	28	28				
		Racks Per Shelf	3	4	5	6				
		Racks Per Freezer	15	20	25	30				
		Tubes Per Freezer	40,320	53,760	67,200	80,640				
1.0 mL Ca	pacity Tubes									
	Thermo Scientific Nunc Cryobank 1.0 mL Internally Threaded Tubes Box Dimension: 8.5 x 12.8 x 4.9 cm	Rack Model No	1950639	1950639	1950639	1950639				
374088, 374089 (including		Freezer Rack Dimensions W x H x D	14 x 24 x 68.5 cm							
		Tubes per Box	96	96	96	96				
color		Boxes Per Rack	28	28	28	28				
options)		Racks Per Shelf	3	4	5	6				
		Racks Per Freezer	15	20	25	30				
		Tubes Per Freezer	40,320	53,760	67,200	80,640				
3740, 3741, 3742 (including color options)	Thermo Scientific Matrix 1.0mL 2D Internally Threaded ScrewTop Tubes Box Dimension: 8.5 x 12.8 x 5.8 cm	Rack Model No	1950798	1950798	1950798	1950798				
		Freezer Rack Dimensions W x H x D	14 x 24 x 68.5 cm							
		Tubes per Box	96	96	96	96				
		Boxes Per Rack	21	21	21	21				
		Racks Per Shelf	3	4	5	6				
		Racks Per Freezer	15	20	25	30				
		Tubes Per Freezer	30,240	40,320	50,400	60,480				





Thermo Scientific™ HERAfreeze™ HLE Series Ultra-Low Freezers

Sliding Drawer Racks for Matrix and Cryobank Tubes

		Freezer Model	HLE300	HLE400	HLE500	HLE600				
1.4 mL Capacity Tubes										
3791, 3792, 4890	Thermo Scientific Matrix 1.4ml 2D Open Top Tubes Box Dimension: 8.5 x 12.8 x 4.9 cm	Rack Model No	1950639	1950639	1950639	1950639				
		Freezer Rack Dimensions W x H x D	14 x 24 x 68.5 cm							
3801, 4890	Thermo Scientific Matrix 1.4mL 2D Tubes with Duraseals Installed Box Dimension: 8.5 x 12.8 x 4.9 cm	Tubes per Box	96	96	96	96				
		Boxes Per Rack	28	28	28	28				
3711, 3112, 4890	Thermo Scientific Matrix 1.4ml Human Readable Open Top Tubes Installed Box Dimension: 8.5 x 12.8 x 4.9 cm	Racks Per Shelf	3	4	5	6				
		Racks Per Freezer	15	20	25	30				
		Tubes Per Freezer	40,320	53,760	67,200	80,640				
1.8 to 2.0 m	L Capacity Tubes									
	Thermo Scientific Nunc 1.8 mL Externally-threaded Universal Tubes Box Dimension: 8.5 x 12.8 x 5.5 cm	Rack Model No	1950639	1950639	1950639	1950639				
374500, 374501		Freezer Rack Dimensions W x H x D	14 x 24 x 68.5 cm							
374221, 374223	Thermo Scientific Nunc Cryobank 2.0 ml Internally Threaded Tubes Box Dimension: 8.5 x 12.8 x 5.5 cm	Tubes per Box	48	48	48	48				
		Boxes Per Rack	28	28	28	28				
		Racks Per Shelf	3	4	5	6				
01 4220		Racks Per Freezer	15	20	25	30				
		Tubes Per Freezer	20,160	26,880	33,600	40,320				
5.0 mL Cap	pacity Tubes									
374220, 374222	Thermo Scientific Nunc Cryobank 5.0 ml Internally Threaded Tubes Box Dimension: 8.5 x 12.8 x 9.6 cm	Rack Model No	1950818	1950818	1950818	1950818				
		Freezer Rack Dimensions W x H x D	14 x 24 x 68.5 cm							
		Tubes per Box	48	48	48	48				
		Boxes Per Rack	14	14	14	14				
		Racks Per Shelf	3	4	5	6				
		Racks Per Freezer	15	20	25	30				
		Tubes Per Freezer	10,080	13,440	16,800	20,160				
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