



Thermo Scientific TDE Series Ultra-Low Temperature Freezers

Medical Device

Thermo Scientific™ TDE Series Ultra-Low Temperature Freezers

- **H-drive hydrocarbon refrigeration system** provides sustainable performance with reliability you can count on
- **Low peak variation** helps ensure sample temperature protection throughout entire cabinet
- **Fast door opening recovery** in as little as 11 minutes
- **Long warm-up time** from -80°C to -50°C in up to 5 hours
- **Four capacities:** 300, 400, 500 and 600 2-inch boxes
- **Decrease storage footprint** up to 25%
- **5-year** standard warranty



Designed to keep your samples safe

- Worry-free storage; with low peak variation, samples are protected throughout the entire cabinet.¹
- Secure freezer settings with sample security
- FDA Class II Medical Device for Storage of Blood, Plasma, Tissue, Skin, and Bone³
- Backed by our Global Service and Support Team

Limit environmental impact and lower HVAC costs

- Uses as low as 10.7 kWh/day, depending on size
- Less heat emission lowers HVAC costs
- SNAP compliant, natural hydrocarbon refrigerants
- Environmentally-friendly, water-blown foam insulation is compliant with SNAP
- Manufactured in an award-winning, zero-waste-to-landfill facility

User-friendly and quiet

- New HIC touch screen user interface
- Quiet enough to reside directly in the laboratory; at just 50 dBA, the sound is comparable to a home refrigerator.²

1. 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.

2. All data based on internal data unless otherwise noted. Data on file.

3. FDA Class II Models are listed under product code KSE, regulation number 864.9700. This unit is not intended for use in classified hazardous locations, nor to be used for the storage of flammable inventory. Reference: AABB - Technical Manual 17th Ed., page 273,274, STANDARDS FOR TISSUE BANKING 14th Ed., Section E, E3.300, E3.310, Table E3.331.

Note for clarity: The 'Bone' is the Osteoarticular Graft, a weight bearing allograft with intact articular surfaces, consisting of a joint with associated soft tissue and bone. STANDARDS FOR TISSUE BANKING 14th Ed., Section page 8.

Dependable storage with operational savings and sustainability

User-friendly HIC interface and cabinet

- Easy to use: plug in and go; no setup required
- H-drive Information Center (HIC) combines easy-to-read temperature with simple capacitive touch buttons
- Advanced security features: alarm settings, setpoint security passcode, and padlock-compatible doors
- Ergonomic design: single-hand door operation, eye-level display, and shelf-level placement that do not require floor-level loading of racks
- Four inner doors minimize ambient temperature during sample retrieval



Specifications & Ordering Information



Upright Freezers (-50°C to -86°C)

General Purpose Model	Capacity		Electrical	Amps / Breaker (Plug type)	Max Shelf Weight lbs. (kg)	Interior Dimensions H x W x D in. (cm)	Exterior Dimensions H x W* x D in. (cm)	Shipping Weight lbs. (kg)
	cu. ft. (L)	Cryoboxes (2 in.)						
TDE30086LA	14.9	300	115 V/60Hz	12.6/20 (NEMA 5-20)	125	51.2 x 17.8 x 28.3	78.0 x 23.0 x 38.5	712
TDE30086LD	(422)		208-230V/60Hz	5.6/15 (NEMA 6-15)	(57)	(130.1 x 45.2 x 71.9)	(198.1 x 58.4 x 97.7)	(323)
TDE40086LA	19.4	400	115V/60Hz	13.0/20 (NEMA 5-20)	165	51.2 x 23.1 x 28.3	78.0 x 28.3 x 38.5	687
TDE40086LD	(549)		208-230V/60Hz	5.9/15 (NEMA 6-15)	(75)	(130.1 x 58.8 x 71.9)	(198.1 x 71.9 x 97.7)	(312)
TDE50086LA	24.1	500	115V/60Hz	12.5/20 (NEMA 5-20)	205	51.2 x 28.8 x 28.3	78.0 x 34.0 x 38.5**	734
TDE50086LD	(682)		208-230V/60Hz	5.0/15 (NEMA 6-15)	(93)	(130.1 x 73.0 x 71.9)	(198.1 x 86.4 x 97.7)	(333)
TDE60086LA	28.8	600	115V/60Hz	12.7/20 (NEMA 5-20)	245	51.2 x 34.4 x 28.3	78.0 x 39.6 x 38.5**	820
TDE60086LD	(816)		208-230V/60Hz	6.2/15 (NEMA 6-15)	(111)	(130.1 x 87.3 x 71.9)	(198.1 x 100.6 x 97.7)	(372)

*Allowance for handle and hinge, add 4.2 in (10.7cm) to cabinet width
**Doorway width clearance is 34.5 in (87.6cm) for TDE50086 and TDE60086



Performance Data

Model Series	Energy Consumption* (kW-hr/day)	Peak Variation from -80°C Setpoint (°C)**	60 Second Door Opening Recovery Time (minutes)	Warm-Up Time (-80°C to -50°C) (minutes)***	Noise Level (dBA)
TDE30086	10.7	+6.9/-3.4	11	248	52
TDE40086	12.5	+5.2/-3.7	16	257	51
TDE50086	12.9	+4.0/-2.9	20	260	50
TDE60086	13.8	+3.9/-3.1	24	297	50

*Energy Consumption: Typical data - internal testing with freezer setpoint at -80°C and 20°C ambient temperature
**Peak Variation from Setpoint: Typical data - internal testing with freezer setpoint at -80°C and 20°C ambient temperature
***Warm Up Time: Typical data - internal testing with empty freezer setpoint at -80°C and ambient temperature at 20°C

Options (Field installations must be performed by a qualified professional)

Description	Installation	For Model Series			
		TDE30086	TDE40086	TDE50086	TDE60086
LN₂ Backup System Maintains temperature down to -80°C with liquid nitrogen. <i>Models for TDE30086 are stand alone.</i>	Factory	N/A	LN4567	LN4567	LN4567
	Field	FLN300A* FLN300D**	FLN456LEA* FLN456LED**	FLN456LEA* FLN456LED**	FLN456LEA* FLN456LED**
CO₂ Backup System Maintains temperature down to -67°C with CO ₂ . <i>Models for TDE30086 are stand alone.</i>	Factory	N/A	CO4567	CO4567	CO4567
	Field	FCO300A* FCO300D**	FCO456LEA* FCO456LED**	FCO456LEA* FCO456LED**	FCO456LEA* FCO456LED**
Chart Recorder (Inkless) Seven-day inkless recorder Range: -115° to +50°C (+5°C resolution) Dia.: 6 in. (15.2cm)	Factory	N/A	N/A	CR4567	CR4567
	Field	N/A	N/A	FCR500LE	FCR600LE
Chart Recorder (Ink) Seven-day ink recorder Range: -100° to +38°C (+2°C resolution) Dia.: 6 in. (15.2cm) <i>Models for TDE30086 and TDE40086 are stand alone.</i>	Factory	N/A	N/A	CRP4567	CRP4567
	Field	6383-6A* 6383-6D**	6383-6A* 6383-6D**	FCRP500LE	FCRP600LE
Stainless Steel Freezer Interior	Factory	SS34567	SS34567	SS34567	SS34567
Twist Lock Plug NEMA L5-20P for 115V/60Hz	Factory	US125V20ATL	US125V20ATL	US125V20ATL	US125V20ATL
	Field	TL125V20A	TL125V20A	TL125V20A	TL125V20A
Twist Lock Plug NEMA L6-15P for 208-230V/60Hz	Factory	US230V15ATL	US230V15ATL	US230V15ATL	US230V15ATL
	Field	TL230V15A	TL230V15A	TL230V15A	TL230V15A
Twist Lock Plug NEMA L6-20P for 208-230V/60Hz	Factory	US230V20ATL	US230V20ATL	US230V20ATL	US230V20ATL
	Field	TL230V20A	TL230V20A	TL230V20A	TL230V20A

*A = 115V/60Hz (NEMA 5-20 plug)
**D = 208-230V/60Hz (NEMA 6-15 plug)

Accessories

Description	For Model Series			
	TDE30086	TDE40086	TDE50086	TDE60086
Air Filter (Replacement)	AF34567LE	AF34567LE	AF34567LE	AF34567LE
Alarm Delay Module Eliminates nuisance alarms due to intermittent or transitory conditions. (The alarm conditions must exist for a user-defined period before the signal is broadcast.)	6903	6903	6903	6903
Battery Backup (Replacement)	400159	400159	400159	400159
Chart Paper, for Inkless Recorder, 50/Pack	N/A	N/A	6185	6185
Chart Paper, for Ink Recorder, 50/Pack	17020	17020	17020	17020
Cryo Gloves, Medium	4425	4425	4425	4425
Cryo Gloves, Large	4426	4426	4426	4426
Seismic Restraint Kits	TF-ULT300	TF-ULT400	TF-ULT500	TF-ULT600
Shelf Kits: Include One Shelf and Clips	SK300	SK400	SK500	SK600

Freezer Packages with Factory-Installed Options

Thermo Scientific TDE Ultra-Low Freezer with Two Shelves of Sliding Drawer Racks Plus Boxes

Model	Capacity		Electrical, 60Hz	# of Racks Included	Cryoboxes* Included
	cu. ft. (L)	Cryoboxes*			
TDE30086LARK	14.9 (422)	300	115V	6	150
TDE30086LDRK	14.9 (422)	300	208-230V	6	150
TDE40086LARK	19.4 (549)	400	115V	8	200
TDE40086LDRK	19.4 (549)	400	208-230V	8	200
TDE50086LARK	24.1 (682)	500	115V	10	250
TDE50086LDRK	24.1 (682)	500	208-230V	10	250
TDE60086LARK	28.8 (816)	600	115V	12	300
TDE60086LDRK	28.8 (816)	600	208-230V	12	300

*For cryoboxes that measure 5 x 5 x 2 in (12.7 x 12.7 x 5 cm) (W x D x H)

Thermo Scientific TDE Ultra-Low Freezer with LN₂ Backup System, Two Shelves of Sliding Drawer Racks Plus Boxes

Model	Capacity		Electrical, 60Hz	# of Racks Included	Cryoboxes* Included
	cu. ft. (L)	Cryoboxes*			
TDE40086LARLN	19.4 (549)	400	115V	8	200
TDE40086LDRLN	19.4 (549)	400	208-230V	8	200
TDE50086LARLN	24.1 (682)	500	115V	10	250
TDE50086LDRLN	24.1 (682)	500	208-230V	10	250
TDE60086LARLN	28.8 (816)	600	115V	12	300
TDE60086LDRLN	28.8 (816)	600	208-230V	12	300

*For cryoboxes that measure 5 x 5 x 2 in (12.7 x 12.7 x 5 cm) (W x D x H)

Thermo Scientific TDE Ultra-Low Freezer with CO₂ Backup System, Two Shelves of Sliding Drawer Racks Plus Boxes

Model	Capacity		Electrical, 60Hz	# of Racks Included	Cryoboxes* Included
	cu. ft. (L)	Cryoboxes*			
TDE40086LARCO	19.4 (549)	400	115V	8	200
TDE40086LDRCO	19.4 (549)	400	208-230V	8	200
TDE50086LARCO	24.1 (682)	500	115V	10	250
TDE50086LDRCO	24.1 (682)	500	208-230V	10	250
TDE60086LARCO	28.8 (816)	600	115V	12	300
TDE60086LDRCO	28.8 (816)	600	208-230V	12	300

*For cryoboxes that measure 5 x 5 x 2 in (12.7 x 12.7 x 5 cm) (W x D x H)



Freezer Packages with Factory-Installed Options



Thermo Scientific TDE Ultra-Low Freezer with Chart Recorder, Two Shelves of Sliding Drawer Racks Plus Boxes

Model	Capacity		Electrical, 60Hz	# of Racks Included	Cryoboxes* Included
	cu. ft. (L)	Cryoboxes*			
TDE50086LARCR	24.1 (682)	500	115V	10	250
TDE50086LDRCR	24.1 (682)	500	208-230V	10	250
TDE60086LARCR	28.8 (816)	600	115V	12	300
TDE60086LDRCR	28.8 (816)	600	208-230V	12	300



*For cryoboxes that measure 5 x 5 x 2 in. (W x D x H)

Racks for Boxes and Microplates

Racks for 2 in. (5 cm) Boxes

Catalog No.	Description	Dimensions H x W x D in. (cm)	Storage Capacities	For Model Series			
				TDE30086	TDE40086	TDE50086	TDE60086
 920090	Sliding Drawer Rack	11.9 x 5.5 x 26.9 (30.2 x 14 x 68.3)	Boxes/Rack	25	25	25	25
			Racks/Shelf	3	4	5	6
			Racks/Freezer	12	16	20	24
			Boxes/Freezer	300	400	500	600
 1950520	Adjustable Side Access Rack	11.6 x 5.4 x 26.75 (29.5 x 13.7 x 67.9)	Boxes/Rack	25	25	25	25
			Racks/Shelf	3	4	5	6
			Racks/Freezer	12	16	20	24
			Boxes/Freezer	300	400	500	600


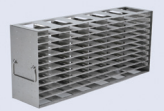

Racks for 3 in. (7.62 cm) Boxes

Catalog No.	Description	Dimensions H x W x D in. (cm)	Storage Capacities	For Model Series			
				TDE30086	TDE40086	TDE50086	TDE60086
 920091	Sliding Drawer Rack	11.9 x 5.5 x 26.9 (30.2 x 14 x 68.3)	Boxes/Rack	15	15	15	15
			Racks/Shelf	3	4	5	6
			Racks/Freezer	12	16	20	24
			Boxes/Freezer	180	240	300	360
 1950521	Adjustable Side Access Rack for 3 in. boxes	11.6 x 5.4 x 26.75 (29.5 x 13.7 x 67.9)	Boxes/Rack	15	15	15	15
			Racks/Shelf	3	4	5	6
			Racks/Freezer	12	16	20	24
			Boxes/Freezer	180	240	300	360

Racking Shelf Kits

Description	Storage Capacities	For Model Series			
		TDE30086	TDE40086	TDE50086	TDE60086
	Catalog No.	RSK300SD4	RSK400SD4	RSK500SD4	RSK600SD4
Sliding Drawer Racks with Boxes for One Shelf (5 x 5 x 2 in. Boxes with 100-Count Cell Dividers)	Racks Included	3	4	5	6
	Boxes Included	75	100	125	150

Racks for Standard or Deepwell Microplates

Catalog No.	Description	Dimensions H x W x D in. (cm)	Storage Capacities	For Model Series			
				TDE30086	TDE40086	TDE50086	TDE60086
 1950592	Side Access Rack with Locking Rod	11.9 x 5.5 x 25.7 (30.2 x 14 x 65.3)	Plates/Rack	147	147	147	147
			Racks/Shelf	3	4	5	6
			Racks/Freezer	12	16	20	24
			Plates/Freezer	1,764	2,352	2,940	3,528
 1950523	Side Access Microplate Rack	11.9 x 5.5 x 25.7 (30.2 x 14 x 65.3)	Plates/Rack	105	105	105	105
			Racks/Shelf	3	4	5	6
			Racks/Freezer	12	16	20	24
			Plates/Freezer	1,260	1,680	2,100	2,520
 1950642	Sliding Drawer Microplate Rack	11.9 x 5.5 x 26.9 (30.2 x 14 x 68.3)	Plates/Rack	35	35	35	35
			Racks/Shelf	3	4	5	6
			Racks/Freezer	12	16	20	24
			Plates/Freezer	420	560	700	840

Boxes and Dividers

Catalog No.	Description	# of Dividers	Quantity	Color
5026-0909	Thermo Scientific™ Nalgene™ polycarbonate 2 in. (5.08cm) box for 1.2 to 2mL vials	81	24/Case	White
5954	2 in. (5.08 cm) Fiberboard Box	0	12/Pack	White
820002	2 in. (5.08 cm) Fiberboard Box	81	1	White
820109	2 in. (5.08 cm) Fiberboard Box	100	1	White
5956	3 in. (7.62 cm) Fiberboard Box	0	12/Pack	White
820003	3 in. (7.62 cm) Fiberboard Box	81	1	White
1950878	2 in. (5.08 cm) Fiberboard Box	0	12/Pack	Multiple
1950879	2 in. (5.08 cm) Fiberboard Box	0	12/Pack	Pink
1950880	2 in. (5.08 cm) Fiberboard Box	0	12/Pack	Red
1950881	2 in. (5.08 cm) Fiberboard Box	0	12/Pack	Yellow
1950882	2 in. (5.08 cm) Fiberboard Box	0	12/Pack	Green
1950883	2 in. (5.08 cm) Fiberboard Box	0	12/Pack	Blue
1950884	2 in. (5.08 cm) Fiberboard Box	0	12/Pack	Black

Fiberboard Dividers

Catalog No.	Description	Quantity/Pack
5958	Grid Dividers, Hold 100 x 12 mm Tubes/Vials	12
6212	Grid Dividers, Hold 81 x 13 mm Tubes/Vials	12
5960	Grid Dividers, Hold 64 x 14 mm Tubes/Vials	12
5959	Grid Dividers, Hold 49 x 16 mm Tubes/Vials	12

Vials and Tubes

Catalog No.	Description	Quantity
377267	Thermo Scientific™ Nunc™ 1.8mL Screw-Top Round-Bottom Vials with Internal Threading	1,800/Case

Sliding Drawer Racks for Matrix and Cryobank Tubes

Racks work with all Thermo Scientific™ Matrix™ and Nunc™ Cryobank Tubes

		For Model Series	TDE30086	TDE40086	TDE50086	TDE60086
200 µL Capacity Tubes						
3747, 3748, 4988	Matrix 200 µL 2D Internally Threaded Universal Tubes Box Dimensions: 3.365 x 5.03 x 1.082 in. (8.5 x 12.8 x 2.75 cm)	Rack Model No.	1950787	1950787	1950787	1950787
		Freezer Rack Dimensions W x H x D	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)
		Tubes/Box	96	96	96	96
		Boxes/Rack	56	56	56	56
		Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	64,512	86,016	107,520	129,024
500 µL Capacity Tubes						
3734, 3735, 4898	Matrix 500 µL 2D Open Top Tubes Box Dimensions: 3.365 x 5.03 x 1.022 in. (8.5 x 12.8 x 2.6 cm)	Rack Model No.	1950787	1950787	1950787	1950787
		Freezer Rack Dimensions W x H x D	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)
3736, 3737, 4899	Matrix 200 µL 2D Internally Threaded Universal Tubes with Installed DuraSeal™ Seal Box Dimensions: 3.365 x 5.03 x 1.082 in. (8.5 x 12.8 x 2.75 cm)	Tubes/Box	96	96	96	96
		Boxes/Rack	56	56	56	56
		Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	64,512	86,016	107,520	129,024
374086, 374087 (including color options)	Nunc Cryobank 500 µL Internally Threaded Tubes Box Dimensions: 3.365 x 5.03 x 1.394 in. (8.5 x 12.8 x 3.5 cm)	Rack Model No.	1950791	1950791	1950791	1950791
		Freezer Rack Dimensions W x H x D	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)
3743, 3744, 3745 (including color options)	Matrix 500 µL 2D Internally Threaded ScrewTop Tubes Box Dimensions: 3.365 x 5.03 x 1.745 in. (8.5 x 12.8 x 4.4 cm)	Tubes/Box	96	96	96	96
		Boxes/Rack	42	42	42	42
		Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	48,384	64,512	80,640	96,768

Sliding Drawer Racks for Matrix and Cryobank Tubes

Racks work with all Thermo Scientific™ Matrix™ and Nunc™ Cryobank Tubes

		For Model Series	TDE30086	TDE40086	TDE50086	TDE60086
750 µL Capacity Tubes						
3731, 3732, 4896	Matrix 750 µL 2D Open Top Tubes Box Dimensions: 3.365 x 5.03 x 1.55 in. (8.5 x 12.8 x 3.9 cm)	Rack Model No.	1950791	1950791	1950791	1950791
		Freezer Rack Dimensions W x H x D	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)
3729, 4896	Matrix 750 µL 2D Tubes with Installed DuraSeal Seal Box Dimensions: 3.365 x 5.03 x 1.55 in. (8.5 x 12.8 x 3.9 cm)	Tubes/Box	96	96	96	96
		Boxes/Rack	42	42	42	42
		Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	48,384	64,512	80,640	96,768
1 mL Capacity Tubes						
374088, 374089 (including color options)	Nunc Cryobank 1 mL Internally Threaded Tubes Box Dimensions: 3.365 x 5.03 x 1.92 in. (8.5 x 12.8 x 4.9 cm)	Rack Model No.	1950642	1950642	1950642	1950642
		Freezer Rack Dimensions W x H x D	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)
		Tubes/Box	96	96	96	96
		Boxes/Rack	35	35	35	35
		Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	40,320	53,760	67,200	80,640
3740, 3741, 3742 (including color options)	Matrix 1 mL 2D Internally Threaded Screw Top Tubes Box Dimensions: 3.365 x 5.03 x 2.3 in. (8.5 x 12.8 x 5.8 cm)	Rack Model No.	1950799	1950799	1950799	1950799
		Freezer Rack Dimensions W x H x D	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)
		Tubes/Box	96	96	96	96
		Boxes/Rack	28	28	28	28
		Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	32,256	43,008	53,760	64,512

Sliding Drawer Racks for Matrix and Cryobank Tubes

Racks work with all Thermo Scientific™ Matrix™ and Nunc™ Cryobank Tubes

		For Model Series	TDE30086	TDE40086	TDE50086	TDE60086
1.4 mL Capacity Tubes						
3791, 3792, 4890	Matrix 1.4 mL 2D Open Top Tubes	Rack Model No.	1950642	1950642	1950642	1950642
	Box Dimensions: 3.365 x 5.03 x 1.92 in. (8.5 x 12.8 x 4.9 cm)	Freezer Rack Dimensions W x H x D	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)
3801, 4890	Matrix 1.4 mL 2D Tubes with Installed DuraSeal Seal	Tubes/Box	96	96	96	96
	Box Dimensions: 3.365 x 5.03 x 1.92 in. (8.5 x 12.8 x 4.9 cm)	Boxes/Rack	35	35	35	35
3711, 3112, 4890	Matrix 1.4 mL Human Readable Open Top Tubes Box Dimensions: 3.365 x 5.03 x 1.92 in. (8.5 x 12.8 x 4.9 cm)	Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	40,320	53,760	67,200	80,640
1.8 to 2 mL Capacity Tubes						
374500, 374501	Nunc 1.8 mL Externally Threaded Universal Tubes Box Dimensions: 3.365 x 5.03 x 2.15 in. (8.5 x 12.8 x 5.5 cm)	Rack Model No.	1950642	1950642	1950642	1950642
		Freezer Rack Dimensions W x H x D	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)
374221, 374223	Nunc Cryobank 2 mL Internally Threaded Tubes Box Dimension: 3.365 x 5.03 x 2.15 in. (8.5 x 12.8 x 5.5 cm)	Tubes/Box	48	48	48	48
		Boxes/Rack	35	35	35	35
		Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	20,160	26,880	33,600	40,320
5 mL Capacity Tubes						
374220, 374222	Nunc Cryobank 5 mL Internally Threaded Tubes Box Dimensions: 3.365 x 5.03 x 3.78 in. (8.5 x 12.8 x 9.6 cm)	Rack Model No.	1950819	1950819	1950819	1950819
		Freezer Rack Dimensions W x H x D	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)	5.5 x 11.9 x 26.96 in. (14 x 30.3 x 68.5 cm)
		Tubes/Box	48	48	48	48
		Boxes/Rack	21	21	21	21
		Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	12,096	16,128	20,160	24,192

Find out more at thermofisher.com/cold