### thermo scientific





# Thermo Scientific<sup>™</sup> 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.
- Secure freezer settings with sample security
- Get Connected with DeviceLink™ Hub (Coming Soon)
- 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, waterblown 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.<sup>2</sup>

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.

<sup>2.</sup> All data based on internal data unless otherwise noted. Data on file.

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 padlockcompatible doors
- that do not require floor-level loading of racks

## · Egonomic design: single-hand door operation, eye-level display, and shelf-level placement • Four inner doors minimize ambient temperature during sample retrieval

### Specifications & Ordering Information







Upright Freezers (-50°C to -86°C)

General				Amps / Breaker	Max Shelf	Interior Dimensions	Exterior Dimensions	Shipping
Purpose Model	cu. ft. (L)	Cryoboxes (2 in.)	Electrical	(Plug type)	Weight Ibs. (kg)	H x W x D in. (cm)	H x W* x D in. (cm)	Weight lbs. (kg)
TDE30086FA	14.9	000	115V/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
TDE30086FD	(422)	300	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)
TDE40086FA	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
TDE40086FD	(549)	400	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)
TDE50086FA	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
TDE50086FD	(682)	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 97.7)	(333)
TDE60086FA	28.8	000	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
TDE60086FD	(816)	600	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)

<sup>\*</sup>Allowance for handle and hinge, add 4.2 in (10.7 cm) to cabinet width

<sup>\*\*</sup>Doorway width clearance is 34.5 in (87.6 cm) 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

<sup>\*</sup>Energy Consumption: Typical data - internal testing with freezer setpoint at -80°C and 20°C ambient temperature

<sup>\*\*</sup>Peak Variation from Setpoint: Typical data - internal testing with freezer setpoint at -80°C and 20°C ambient temperature

<sup>\*\*\*</sup>Warm Up Time: Typical freezer data based on 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)

		For Model Series					
Description	Installation	TDE30086	TDE40086	TDE50086	TDE60086		
LN <sub>2</sub> Backup System	Factory	N/A	LN4567	LN4567	LN4567		
Maintains temperature down to -80°C with liquid nitrogen. Models for TDE30086 are stand alone.	Field	FLN300A* FLN300D**	FLN456LEA* FLN456LED**	FLN456LEA* FLN456LED**	FLN456LEA* FLN456LED**		
CO <sub>2</sub> Backup System	Factory	N/A	CO4567	CO4567	CO4567		
Maintains temperature down to -67°C with $\rm CO_2$ . Models for TDE30086 are stand alone.	Field	FCO300A* FCO300D**	FCO456LEA* FCO456LED**	FCO456LEA* FCO456LED**	FCO456LEA* FCO456LED**		
Chart Recorder (Inkless) Seven-day inkless recorder	Factory	N/A	N/A	CR4567	CR4567		
Range: -115° to +50°C (+5°C resolution) Dia.: 6 in. (15.2cm)	Field	N/A	N/A	FCR500LE	FCR600LE		
Chart Recorder (Ink) Seven-day ink recorder	Factory	N/A	N/A	CRP4567	CRP4567		
Range: -100° to +38°C (+2°C resolution) Dia.: 6 in. (15.2cm) Models for TDE30086 and TDE40086 are stand alone.	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		
TWIST LOCK Flug NEWA ES-20F 10F 115V/00F12	Field	TL125V20A	TL125V20A	TL125V20A	TL125V20A		
Twist Lock Plug NEMA L6-15P for 208-230V/60Hz	Factory	US230V15ATL	US230V15ATL	US230V15ATL	US230V15ATL		
1 WISE EGGN 1 Mg 14E1917 LG 101 101 200-2007/00112	Field	TL230V15A	TL230V15A	TL230V15A	TL230V15A		
Turist Lock Phys NEMA LC 200 for 200 220V/COLL	Factory	US230V20ATL	US230V20ATL	US230V20ATL	US230V20ATL		
Twist Lock Plug NEMA L6-20P for 208-230V/60Hz	Field	TL230V20A	TL230V20A	TL230V20A	TL230V20A		

<sup>\*</sup>A = 115V/60Hz (NEMA 5-20 plug)

#### Accessories

		For Mod	el Series	
Description	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

<sup>\*\*</sup>D = 208-230V/60Hz (NEMA 6-15 plug)

### Freezer Packages with Factory-Installed Options

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

Model	Capacity		Electrical.	# of	
Model	cu. ft. (L)	Cryoboxes*	60Hz	Racks Included	Cryoboxes* Included
TDE30086FARK	14.9 (422)	300	115V	6	150
TDE30086FDRK	14.9 (422)	300	208-230V	6	150
TDE40086FARK	19.4 (549)	400	115V	8	200
TDE40086FDRK	19.4 (549)	400	208-230V	8	200
TDE50086FARK	24.1 (682)	500	115V	10	250
TDE50086FDRK	24.1 (682)	500	208-230V	10	250
TDE60086FARK	28.8 (816)	600	115V	12	300
TDE60086FDRK	28.8 (816)	600	208-230V	12	300

<sup>\*</sup>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 LN<sub>2</sub> Backup System, Two Shelves of Sliding Drawer Racks Plus Boxes

Model	Capacity		Electrical,	# of	Course avent Included	
Model	cu. ft. (L)	Cryoboxes*	60Hz	Racks Included	Cryoboxes* Included	
TDE40086FARLN	19.4 (549)	400	115V	8	200	
TDE40086FDRLN	19.4 (549)	400	208-230V	8	200	
TDE50086FARLN	24.1 (682)	500	115V	10	250	
TDE50086FDRLN	24.1 (682)	500	208-230V	10	250	
TDE60086FARLN	28.8 (816)	600	115V	12	300	
TDE60086FDRLN	28.8 (816)	600	208-230V	12	300	

<sup>\*</sup>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 CO<sub>2</sub> Backup System, Two Shelves of Sliding Drawer Racks Plus Boxes

Market State	Cap	pacity	Electrical.	# of	
Model	cu. ft. (L)	Cryoboxes*	60Hz	Racks Included	Cryoboxes* Included
TDE40086FARCO	19.4 (549)	400	115V	8	200
TDE40086FDRCO	19.4 (549)	400	208-230V	8	200
TDE50086FARCO	24.1 (682)	500	115V	10	250
TDE50086FDRCO	24.1 (682)	500	208-230V	10	250
TDE60086FARCO	28.8 (816)	600	115V	12	300
TDE60086FDRCO	28.8 (816)	600	208-230V	12	300

<sup>\*</sup>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

Martal	Cap	pacity	Electrical.	# of	Cryoboxes*	
Model	cu. ft. (L)	Cryoboxes*	60Hz	Racks Included	Included	
TDE50086FARCR	24.1 (682)	500	115V	10	250	
TDE50086FDRCR	24.1 (682)	500	208-230V	10	250	
TDE60086FARCR	28.8 (816)	600	115V	12	300	
TDE60086FDRCR	28.8 (816)	600	208-230V	12	300	

<sup>\*</sup>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

October No.	Barrier Control	Dimensions		For Model Series			
Catalog No.	Description	H x W x D in. (cm)	Storage Capacities	TDE30086	TDE40086	TDE50086	TDE60086
			Boxes/Rack	25	25	25	25
000000	920090 Sliding Drawer Rack  1950520 Adjustable Side	11.9 x 5.5 x 26.9 (30.2 x 14 x 68.3)	Racks/Shelf	3	4	5	6
920090			Racks/Freezer	12	16	20	24
			Boxes/Freezer	300	400	500	600
			Boxes/Rack	25	25	25	25
1050500	Adjustable Side	distance side	4	5	6		
1950520	Access Rack		Racks/Freezer	12	16	20	24
And the second			Boxes/Freezer	300	400	500	600

### Racks for 3 in. (7.62 cm) Boxes

October No.	Description	Dimensions H x W x D in. (cm)	0	For Model Series			
Catalog No.			Storage Capacities	TDE30086	TDE40086	TDE50086	TDE60086
920091			Boxes/Rack	15	15	15	15
	Sliding Drawer Rack	11.9 x 5.5 x 26.9	Racks/Shelf	3	4	5	6
920091		(30.2 x 14 x 68.3)	Racks/Freezer	12	16	20	24
			Boxes/Freezer	180	240	<b>TDE50086</b> 15 5	360
			Boxes/Rack	15	15	15	15
1050504	Adjustable Side	11.6 x 5.4 x 26.75	Racks/Shelf	3	4	5	6
1950521	Access Rack for 3 in. boxes	(29.5 x 13.7 x 67.9)	Racks/Freezer	12	16	20	24
			Boxes/Freezer	180	240	300	360

### **Racking Shelf Kits**

	Storage Capacities	For Model Series					
Description	Otorage Gapaonics	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	Racks Included	3	4	5	6		
with 100-Count Cell Dividers)	Boxes Included	75	100	125	150		

### **Racks for Standard or Deepwell Microplates**

Ostala v Na	Descri		Dimensions H x W x D in. (cm)	Character Communication	For Model Series			
Catalog No.	Desc	cription		Storage Capacities	TDE30086	TDE40086	TDE50086	TDE60086
				Plates/Rack	147	147	147	147
1950		Rack with Locking Rod (30.2 x 14 x 65.3)  Racks/F Plates/F	11.9 x 5.5 x 25.7	Racks/Shelf	3	4	5	6
195			(30.2 x 14 x 65.3)	Racks/Freezer	12	16	20	24
			Plates/Freezer	1,764	2,352	2,940	3,528	
		Side Access Microplate Rack		Plates/Rack	105	105	105	105
1050	Side A		11.9 x 5.5 x 25.7	Racks/Shelf	3	4	5	6
1950	Micropl Micropl		(30.2 x 14 x 65.3)	Racks/Freezer	12	16	20	24
The same of the sa				Plates/Freezer	1,260	1,680	147 5 20 2,940 105 5 20 2,100 35 5 20	2,520
				Plates/Rack	35	35	35	35
- ES	Sliding	Sliding Drawer	11.9 x 5.5 x 26.9	Racks/Shelf	3	4	5	6
1950		late Rack	(30.2 x 14 x 68.3)	Racks/Freezer	12 16 20	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  $^{\!^{\bowtie}}$  Matrix  $^{\!^{\bowtie}}$  and Nunc  $^{\!^{\bowtie}}$  Cryobank Tubes

		For Model Series	TDE30086	TDE40086	TDE50086	TDE60086	
200 μL Capacity Tubes							
3747, 3748,	Matrix 200 µL 2D Internally Threaded	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)	
	Universal Tubes	Tubes/Box	96	96	96	96	
4988	Box Dimensions: 3.365 x 5.03 x 1.082 in.	Boxes/Rack	56	56	56	56	
	(8.5 x 12.8 x 2.75 cm)	Racks/Shelf	3	4	5	6	
		Racks/Freezer	12	16	20	24	
		Tubes/Freezer	64,512	86,016	107,520	129,024	
500 μL Cap	pacity Tubes						
	Matrix 500 µL 2D	Rack Model No.	1950787	1950787	1950787	1950787	
3734, 3735, 4898	Open Top Tubes  Box Dimensions: 3.365 x 5.03 x 1.022 in. (8.5 x 12.8 x 2.6 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)	
	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	
3736,		Boxes/Rack	56	56	56	56	
3737, 4899		Racks/Shelf	3	4	5	6	
4099		Racks/Freezer	12	16	20	24	
		Tubes/Freezer	64,512	86,016	107,520	129,024	
		Rack Model No.	1950791	1950791	1950791	1950791	
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)	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	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	
color options)		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 Cap	pacity 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)
		Tubes/Box	96	96	96	96
	Matrix 750 µL 2D Tubes with Installed	Boxes/Rack	42	42	42	42
3729, 4896	DuraSeal Seal Box Dimensions:	Racks/Shelf	3	4	5	6
	3.365 x 5.03 x 1.55 in. (8.5 x 12.8 x 3.9 cm)	Racks/Freezer	12	16	20	24
		Tubes/Freezer	48,384	64,512	80,640	96,768
1 mL Capa	acity Tubes					
		Rack Model No.	1950642	1950642	1950642	1950642
374088,	Nunc Cryobank 1 mL Internally	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)
374089 (including	Threaded Tubes	Tubes/Box	96	96	96	96
color	Box Dimensions: 3.365 x 5.03 x 1.92 in.	Boxes/Rack	35	35	35	35
options)	(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
		Rack Model No.	1950799	1950799	1950799	1950799
3740, 3741, 3742 (including color	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)	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
options)		Racks/Shelf	3	4	5	6
		Racks/Freezer	12	16	20	24
		Tubes/Freezer	32,256	43,008	53,760	64,512

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### **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						
	Matrix 1.4 mL 2D	Rack Model No.	1950642	1950642	1950642	1950642
3791, 3792, 4890	Open Top Tubes 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
	Thermo Scientific Matrix 1.4 mL	Racks/Shelf	3	4	5	6
3711, 3112, 4890	Human Readable Open Top Tubes Box Dimensions:	Racks/Freezer	12	16	20	24
	3.365 x 5.03 x 1.92 in. (8.5 x 12.8 x 4.9 cm)	Tubes/Freezer	40,320	53,760	67,200	80,640
1.8 to 2 mL	. Capacity Tubes					
	Nunc 1.8 mL	Rack Model No.	1950642	1950642	1950642	1950642
374500, 374501	Externally Threaded Universal Tubes Box Dimensions: 3.365 x 5.03 x 2.15 in. (8.5 x 12.8 x 5.5 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)
	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
374221, 374223		Racks/Shelf	3	4	5	6
00		Racks/Freezer	12	16	20	24
		Tubes/Freezer	20,160	26,880	33,600	40,320
5 mL Capa	acity Tubes					
		Rack Model No.	1950819	1950819	1950819	1950819
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)	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

