daily dependability

Thermo Scientific Forma 900 and Forma 7000 Series

Our Forma 900 and Forma 7000 Series upright freezers

are designed for daily sample protection and dependability. Choose our 900 Series for applications requiring -50°C to -86°C or our 7000 Series when your storage requirements call for -10°C to -40°C.

Rugged construction for everyday use

- · Heavy gauge, cold-rolled steel cabinets with a powder coat paint finish for a uniform exterior that resists chipping and rust.
- 5" (12.7cm) foamed-in-place, polyurethane insulation.
- State-of-the-art, refrigeration system improves temperature control, increases reserve capacity, for more stable temperature sample.
- Two 1" (2.5cm) access ports enable use of inexpedient probes.
- Painted glaveneel interiors with sturdy stainless steel shelving.
- · Vacuum relief port permits easy access after door openings.
- Easy-to-remove washable filter provides protection from dust on the condenser. increasing refrigeration performance.
- Single-hand operation with an easy-to-use, padlock-compatible, ergonomic door handle with integrated key lock.
- Simplified installation with our new easy-roll 2" (5cm) locking casters.

Secure inner doors

• Four inner doors reduce cold air loss and improve temperature recovery after door openings.

Centralized information center

- Microprocessor control and monitoring system ensure that all controls and displays are easy to reach and read.
- · Power management system with low voltage surge protection and buck/boost.
- Optional choice of CO₂ or LN₂ safety back-up systems for additional sample protection in the event of a power or mechanical failure.



Forma 900 Series

-86°C freezer



Forma 900 Series -86°C freezers

Available in four sizes: 13, 17, 23 and 28 cu. ft. (368, 490, 651, 793L) to accommodate your specific lab space and capacity requirements.

Centralized information system ensures that all controls and displays are easy to reach and read.*

Forma 7000 Series

-40°C freezer



Forma 7000 Series -40°C freezers

Available in three sizes 13, 17 and 23 cu. ft. (368, 490, 651L) to accommodate your specific lab space requirements. Features eye level, easy-to-use microprocessor control panel.

Thermo Scientific Forma 900 and Forma 7000 Series

specifications and ordering information

Thermo Scientific Forma 900 Series Upright Freezers (Temperature Range: -50°C to -86°C)

Model	Capacity		Electrical	Amps/Breaker	Max. Shelf Weight	Interior Dimensions	Exterior Dimensions	Shipping Weight
No.	cu. ft. (liters)	2 in. cryobox	Electrical	(Plug)	lbs. (kg)	H x W x D in. (cm)	H x W x D in. (cm)	lbs. (kg)
903			115V / 60 Hz	16/20 (NEMA 5-20)		51.5 00 0 10 0		
909	13.0 (368)	240	208-230V / 60 Hz	12/16 (NEMA 6-15)	125 (57)	51.5 x 23.0 x 19.3 (130.8 x 58.4 x 49.0)	77.9 x 33.3 x 32.9 (197.9 x 84.6 x 83.6)	711 (323)
902	(000)		230V / 50 Hz	12/16 (European)		(100.0 x 00.1 x 10.0)	(101.0 x 0 1.0 x 00.0)	
904			115V / 60 Hz	16/20 (NEMA 5-20)		515 000 050		
910	17.3 (490)	320	208-230V / 60 Hz	12/16 (NEMA 6-15)	125 (57)	51.5 x 23.0 x 25.3 (130.8 x 58.4 x 64.3)	77.9 x 33.3 x 38.9 (197.9 x 84.6 x 98.9)	830 (376)
905	(100)		230V / 50 Hz	12/16 (European)				
956			115V / 60 Hz	16/20 (NEMA 5-20)		51.5 x 30.6 x 25.3 (130.8 x 77.7 x 64.3)	77.9 x 40.8 x 38.9 (197.9 x 103.6 x 98.9)	
957	23.0 (651)	400	208-230V / 60 Hz	12/16 (NEMA 6-15)	125 (57)			879 (399)
906	(001)		230V / 50 Hz	12/16 (European)			(107.0 × 100.0 × 90.9)	
908	28.0	000	208-230V / 60 Hz	16/20 (NEMA 6-15)	105 (57)	51.5 x 36.6 x 27.0	77.9 x 46.8 x 38.9	1000 (404)
907	(793)	600	230V / 50 Hz	12/16 (European)	125 (57)	(130.8 x 93.0 x 68.6)	(197.9 x 118.9 x 98.9)	1090 (494)

Thermo Scientific Forma 900 Series Double-Door Upright Freezers (Temperature Range: -50°C to -86°C)

Model	Capacity		Electrical	Amps/Breaker	Max. Shelf Weight	Interior Dimensions	Exterior Dimensions	Shipping Weight
No.	cu. ft. (liters)	2 in. cryobox	Electrical	(Plug)	lbs. (kg)	H x W x D in. (cm)	H x W x D in. (cm)	lbs. (kg)
992			115V / 60 Hz	16/20 (NEMA 5-20)		51.5 x 23.0 x 19.3 (130.8 x 58.4 x 49.0)	77.9 x 33.3 x 32.9 (197.9 x 84.6 x 83.6)	
986	13.0 (368)	216	208-230V / 60 Hz	12/16 (NEMA 6-15)	125 (57)			711 (323)
991			230V / 50 Hz	12/16 (European)		(100.0 x 00.1 x 10.0)	(101.0 x 0 1.0 x 00.0)	
993			115V / 60 Hz	16/20 (NEMA 5-20)			77.9 x 33.3 x 38.9 (197.9 x 84.6 x 98.9)	830 (376)
988	17.3 (490)	288	208-230V / 60 Hz	12/16 (NEMA 6-15)	125 (57)	51.5 x 23.0 x 25.3 (130.8 x 58.4 x 64.3)		
994			230V / 50 Hz	12/16 (European)		(100.0 x 00.1 x 0 1.0)	(101.0 x 0 1.0 x 00.0)	
990			115V / 60 Hz	16/20 (NEMA 5-20)		51.5 x 30.6 x 25.3 (130.8 x 77.7 x 64.3)	77.9 x 40.8 x 38.9 (197.9 x 103.6 x 98.9)	
989	23.0 (651)	360	208-230V / 60 Hz	12/16 (NEMA 6-15)	125 (57)			940 (426)
995			230V / 50 Hz	12/16 (European)		(100.0 % 11.1 % 04.0)	(101.0 % 100.0 % 00.0)	

Thermo Scientific Forma 7000 Series Upright Freezers (Temperature Range: -10°C to -40°C)

Model	Сара	acity	Electrical	Amps/Breaker	Max. Shelf Weight	Interior Dimensions	Exterior Dimensions	Shipping Weight
No.	cu. ft. (liters)	2 in. cryobox	Electrical	(Plug)	lbs. (kg)	H x W x D in. (cm)	H x W x D in. (cm)	lbs. (kg)
7240A			115V / 60 Hz	16/20 (NEMA 5-20)	125 (57)	51.5 x 23.0 x 19.3 (130.8 x 58.4 x 49.0)	77.9 x 33.3 x 32.9 (197.9 x 84.6 x 83.6)	
7240D	13.0 (368)	240	208-230V / 60 Hz	12/15 (NEMA 6-15)				711 (323)
7240V	(000)		230V / 50 Hz	12/16 (European)				
7320A	47.0		115V / 60 Hz	16/20 (NEMA 5-20)				
7320D	17.3 (490)	320	208-230V / 60 Hz	12/15 (NEMA 6-15)	125 (57)	51.5 x 23.0 x 25.3 (130.8 x 58.4 x 64.3)	77.9 x 33.3 x 38.9 (197.9 x 84.6 x 98.9)	830 (376)
7320V	(400)		230V / 50 Hz	12/16 (European)		(100.0 x 00.4 x 04.0)	(107.0 × 04.0 × 00.0)	
7400A			115V / 60 Hz	16/20 (NEMA 5-20)		51.5 x 30.6 x 25.3 (130.8 x 77.7 x 64.3)	77.9 x 40.8 x 38.9 (197.9 x 103.6 x 98.9)	
7400D	23.0 (651)	400	208-230V / 60 Hz	12/15 (NEMA 6-15)	125 (57)			879 (399)
7400V	(001)		230V / 50 Hz	12/16 (European)				

versatile and reliable

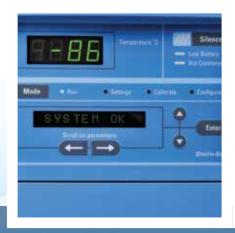
Thermo Scientific Forma 8600 Series

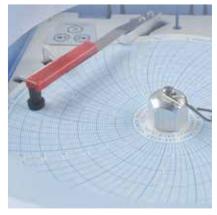
Our Forma 8600 Series chest freezers feature all the sample protection features of our 900 and 7000 Series upright freezers. Choose a -86°C or -40°C cabinet in four convenient sizes as well as a full range of racking solutions.

Rugged construction for everyday use

- Heavy gauge, cold-rolled steel cabinets with a powder coat paint finish for a uniform exterior that resists chipping and rust.
- 5" (12.7cm) foamed-in-place, polyurethane **insulation** reduces power consumption, maintains temperature setpoint and combined with triple-point door gasket, provides longer holding time in the event of a power failure.
- State-of-the-art, refrigeration system improves temperature control and increases reserve capacity, resulting in a more stable temperature sample.
- 1" (2.5cm) access ports allow for the use of independent probes or instrumentation.
- Stainless steel interior









Microprocessor control

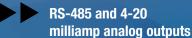
Easy-to-read centralized information center features microprocessor control and monitoring system with a 12-character, alphanumeric LED display showing setpoints and other messages. Knee level on the 3 cu. ft. (85L) models.

Optional chart recorder

Optional built-in chart recorder can be installed at waist level; knee level on our 3 cu. ft. (85L) models.

Easy-to-remove washable filter

Provides protection from dust on the condenser, increasing refrigeration performance and decrease risk to samples.



For independent monitoring.

Polystyrene interior sub-lids

Reduce cold air loss and improve temperature recovery after door openings.

Single-hand operation

Easy-to-use, ergonomic door handle.

Simplified installation

With our new easy-roll 2" (5.1cm) locking casters.

Thermo Scientific Forma 8600 Series

specifications and ordering information

Thermo Scientific Forma 8600 Series Chest Freezers

Model	Capacity		Electrical	Amps / Breaker	Interior Dimensions	Exterior Dimensions	Shipping Weight
No.	cu. ft. (liters)	2" cryobox		(Plug)	H x W x D in. (cm)	H x W x D in. (cm)	lbs. (kg)
803CA	3.0	63	120V / 60 Hz	10.5/20 (NEMA 5-20)	16.5 x 18.5 x 18.5	43.8 x 28.5 x 29.9	422 (106)
803CV	(84.9)	63	230V / 50 Hz	5.4/15 (European)	(41.9 x 47.0 x 47.0)	(111.3 x 72.4 x 75.9)	432 (196)
813CA			115V / 60 Hz	16/20 (NEMA 5-20)	28.0 x 42.5 x 18.5 (71.1 x 108.0 x 47.0)	40.5 x 72.0 x 33.4 (102.9 x 182.9 x 84.8)	
813CD	12.7 (359.6)	252	208-230V / 60 Hz	12/15 (NEMA 6-15)			716 (325)
813CV			230V / 50 Hz	12/15 (European)			
817CA			115V / 60 Hz	16/20 (NEMA 5-20)			
817CD	17.0 (481.4)	348	208-230V / 60 Hz	12/15 (NEMA 6-15)	28.0 x 58.8 x 18.5 (71.1 x 149.4 x 47.0)	40.5 x 87.6 x 33.8 (102.9 x 222.5 x 85.9)	821 (372)
817CV			230V / 50 Hz	12/15 (European)	(71.1 X 149.4 X 47.0)		
820CA			115V / 60 Hz	16/20 (NEMA 5-20)	28.0 x 66.5 x 18.5 (71.1 x 168.9 x 47.0)	40.5 x 96.0 x 33.4 (102.9 x 243.8 x 84.8)	
820CD	20.0 (566.3)		208-230V / 60 Hz	12/15 (NEMA 6-15)			833 (378)
820CV			230V / 50 Hz	12/15 (European)	(11.1 × 100.3 × 41.0)	(102.0 x 240.0 x 04.0)	

Thermo Scientific Forma 8600 Series Chest Freezers (Temperature Range: -10°C to -40°C)

Model	Capacity		Electrical	Amps / Breaker	Interior Dimensions	Exterior Dimensions	Shipping Weight
No.	cu. ft. (liters)	2" cryobox		(Plug)	H x W x D in. (cm)	H x W x D in. (cm)	lbs. (kg)
703CA	3.0	63	120V / 60 Hz	10.5/20 (NEMA 5-20)	16.5 x 18.5 x 18.5	43.8 x 28.5 x 29.9	395 (179)
703CV	(84.9)	03	230V / 50 Hz	5.4/15 (European)	(41.9 x 47.0 x 47.0)	(111.3 x 72.4 x 75.9)	393 (179)
713CA			115V / 60 Hz	16/20 (NEMA 5-20)	28.0 x 42.5 x 18.5 (71.1 x 108.0 x 47.0)	40.5 x 72.0 x 33.4 (102.9 x 182.9 x 84.8)	
713CD	12.7 (359.6)	252	208-230V / 60 Hz	12/15 (NEMA 6-15)			659 (299)
713CV			230V / 50 Hz	12/15 (European)			
717CA			115V / 60 Hz	16/20 (NEMA 5-20)		40.5.070.000	
717CD	17.0 (481.4)	348	208-230V / 60 Hz	12/15 (NEMA 6-15)	28.0 x 58.8 x 18.5 (71.1 x 149.4 x 47.0)	40.5 x 87.6 x 33.8 (102.9 x 222.5 x 85.9)	764 (347)
717CV			230V / 50 Hz	12/15 (European)	(11.1 × 140.4 × 41.0)	(102.0 x 222.0 x 00.0)	
720CA		396	115V / 60 Hz	16/20 (NEMA 5-20)	28.0 x 66.5 x 18.5 (71.1 x 168.9 x 47.0)	40.5 x 96.0 x 33.4 (102.9 x 243.8 x84.8)	
720CD	20.0 (566.3)		208-230V / 60 Hz	12/15 (NEMA 6-15)			776 (352)
720CV			230V / 50 Hz	12/15 (European)	(11.1 × 100.9 × 41.0)	(102.0 / 240.0 /04.0)	

Options (Field-installed must be installed by a qualified professional)

Description	For use with	703C	713C	717C	720C	
LN₂ Backup System Maintains temperature	Factory Installed	1950447				
down to -80°C with liquid nitrogen.	Field Installed	1950448				
CO ₂ Backup System Maintains temperature	Factory Installed	1950445				
down to -70°C with CO ₂	Field Installed	1950446				
Chart Recorder 6" (150mm), seven day ink	Factory Installed	201241				
recorder, to -150°C includes 50 chart papers	Field Installed	201240				
	RS-232, (0-1V)	398213				
Data Outputs (Factory Installed Only)	RS-485, (0-1V)	398214				
	RS-485, (0-5V)	3		215		
Water-Cooled Condenser Option (See page 19 for details)	Factory Installed	N/A		195967		