

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 inexpensive probes.
- Painted glavenel 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 CO_2 or LN_2 safety back-up systems for additional sample protection in the event of a power or mechanical failure.

Energy-efficient, double door option:

Available within our 900 Series is a unique double door option. Store frequently used samples in the top chamber while long-term storage remain undisturbed in the bottom.



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.*

*Pictured with optional chart recorder

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 No.	Capacity		Electrical	Amps/Breaker	Max. Shelf Weight	Interior Dimensions	Exterior Dimensions	Shipping Weight
	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	13.0 (368)	240	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)	711 (323)
909			208-230V / 60 Hz	12/16 (NEMA 6-15)				
902			230V / 50 Hz	12/16 (European)				
904	17.3 (490)	320	115V / 60 Hz	16/20 (NEMA 5-20)	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)
910			208-230V / 60 Hz	12/16 (NEMA 6-15)				
905			230V / 50 Hz	12/16 (European)				
956	23.0 (651)	400	115V / 60 Hz	16/20 (NEMA 5-20)	125 (57)	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)	879 (399)
957			208-230V / 60 Hz	12/16 (NEMA 6-15)				
906			230V / 50 Hz	12/16 (European)				
908	28.0 (793)	600	208-230V / 60 Hz	16/20 (NEMA 6-15)	125 (57)	51.5 x 36.6 x 27.0 (130.8 x 93.0 x 68.6)	77.9 x 46.8 x 38.9 (197.9 x 118.9 x 98.9)	1090 (494)
907			230V / 50 Hz	12/16 (European)				

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

Model No.	Capacity		Electrical	Amps/Breaker	Max. Shelf Weight	Interior Dimensions	Exterior Dimensions	Shipping Weight
	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	13.0 (368)	216	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)	711 (323)
986			208-230V / 60 Hz	12/16 (NEMA 6-15)				
991			230V / 50 Hz	12/16 (European)				
993	17.3 (490)	288	115V / 60 Hz	16/20 (NEMA 5-20)	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)
988			208-230V / 60 Hz	12/16 (NEMA 6-15)				
994			230V / 50 Hz	12/16 (European)				
990	23.0 (651)	360	115V / 60 Hz	16/20 (NEMA 5-20)	125 (57)	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)	940 (426)
989			208-230V / 60 Hz	12/16 (NEMA 6-15)				
995			230V / 50 Hz	12/16 (European)				

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

Model No.	Capacity		Electrical	Amps/Breaker	Max. Shelf Weight	Interior Dimensions	Exterior Dimensions	Shipping Weight
	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	13.0 (368)	240	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)	711 (323)
7240D			208-230V / 60 Hz	12/15 (NEMA 6-15)				
7240V			230V / 50 Hz	12/16 (European)				
7320A	17.3 (490)	320	115V / 60 Hz	16/20 (NEMA 5-20)	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)
7320D			208-230V / 60 Hz	12/15 (NEMA 6-15)				
7320V			230V / 50 Hz	12/16 (European)				
7400A	23.0 (651)	400	115V / 60 Hz	16/20 (NEMA 5-20)	125 (57)	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)	879 (399)
7400D			208-230V / 60 Hz	12/15 (NEMA 6-15)				
7400V			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.

RS-485 and 4-20 milliamp analog outputs

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 No.	Capacity		Electrical	Amps / Breaker (Plug)	Interior Dimensions H x W x D in. (cm)	Exterior Dimensions H x W x D in. (cm)	Shipping Weight lbs. (kg)
	cu. ft. (liters)	2" cryobox					
803CA	3.0 (84.9)	63	120V / 60 Hz	10.5/20 (NEMA 5-20)	16.5 x 18.5 x 18.5 (41.9 x 47.0 x 47.0)	43.8 x 28.5 x 29.9 (111.3 x 72.4 x 75.9)	432 (196)
803CV			230V / 50 Hz	5.4/15 (European)			
813CA	12.7 (359.6)	252	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)	716 (325)
813CD			208-230V / 60 Hz	12/15 (NEMA 6-15)			
813CV			230V / 50 Hz	12/15 (European)			
817CA	17.0 (481.4)	348	115V / 60 Hz	16/20 (NEMA 5-20)	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)
817CD			208-230V / 60 Hz	12/15 (NEMA 6-15)			
817CV			230V / 50 Hz	12/15 (European)			
820CA	20.0 (566.3)	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 x 84.8)	833 (378)
820CD			208-230V / 60 Hz	12/15 (NEMA 6-15)			
820CV			230V / 50 Hz	12/15 (European)			

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

Model No.	Capacity		Electrical	Amps / Breaker (Plug)	Interior Dimensions H x W x D in. (cm)	Exterior Dimensions H x W x D in. (cm)	Shipping Weight lbs. (kg)
	cu. ft. (liters)	2" cryobox					
703CA	3.0 (84.9)	63	120V / 60 Hz	10.5/20 (NEMA 5-20)	16.5 x 18.5 x 18.5 (41.9 x 47.0 x 47.0)	43.8 x 28.5 x 29.9 (111.3 x 72.4 x 75.9)	395 (179)
703CV			230V / 50 Hz	5.4/15 (European)			
713CA	12.7 (359.6)	252	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)	659 (299)
713CD			208-230V / 60 Hz	12/15 (NEMA 6-15)			
713CV			230V / 50 Hz	12/15 (European)			
717CA	17.0 (481.4)	348	115V / 60 Hz	16/20 (NEMA 5-20)	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)
717CD			208-230V / 60 Hz	12/15 (NEMA 6-15)			
717CV			230V / 50 Hz	12/15 (European)			
720CA	20.0 (566.3)	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 x 84.8)	776 (352)
720CD			208-230V / 60 Hz	12/15 (NEMA 6-15)			
720CV			230V / 50 Hz	12/15 (European)			

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

Description	For use with ▶	703C	713C	717C	720C
LN₂ Backup System Maintains temperature down to -80°C with liquid nitrogen.	Factory Installed		1950447		
	Field Installed		1950448		
CO₂ Backup System Maintains temperature down to -70°C with CO ₂	Factory Installed		1950445		
	Field Installed		1950446		
Chart Recorder 6" (150mm), seven day ink recorder, to -150°C includes 50 chart papers	Factory Installed		201241		
	Field Installed		201240		
Data Outputs (Factory Installed Only)	RS-232, (0-1V)		398213		
	RS-485, (0-1V)		398214		
	RS-485, (0-5V)		398215		
Water-Cooled Condenser Option (See page 19 for details)	Factory Installed	N/A	195967		