Product Specifications

The Thermo Scientific CL2 general purpose benchtop centrifuge incorporates an impressive array of features that ensure safe, convenient operation and consistent results for your low-speed applications.

Thermo Scientific CL2 Centrifuge

General purpose benchtop centrifuge

Compact, Versatile and Convenient

- Broad library of swinging bucket and fixed angle rotors and adapters
- Impressive range of speeds – up to 4,770 x g
- Small footprint requires minimal bench space
- Lightweight and easy to transport
- Sealed Thermo Scientific Aerocarrier inserts ensure biocontainment
- High capacity spins up to 28 x 5 mL (13 mm) blood tubes and 8 x 50 mL conicals
- User-friendly controls allow rapid time and speed adjustments
- Microprocessor-based controls ensure consistent, accurate results

Sealed Aerocarrier inserts ensure safe, secure sample handling.

Flexibility for General Purpose Applications

With its broad library of swinging-bucket and Fixed Angle rotors and adapters and speeds up to 4,770 x g, the Thermo Scientific CL2 centrifuge gives you the separating power for a wide range of application needs.

Powerful, Intuitive Interface

- The user interface is simple to learn. Time and speed are easily adjusted with up and down keys.
- Microprocessor-based controls ensure accurate results.
- The Thermo Scientific At-Speed timer begins timing the run when the rotor reaches its maximum speed, ensuring consistent results from run-to-run, regardless of differences in rotor loading.

Convenient Size

- The small footprint (27 x 34 cm/ 13 x 16 in) requires considerably less bench space than comparable centrifuges.
- Weighing just 13 kg (29 lbs), the CL2 is easy to move within the lab or out in the field.

Safety and Productivity

- Convenient, lightweight Aerocarrier adapters allow samples to be safely handled inside a biosafety cabinet.
- Screw-tight lids can be easily manipulated with gloved hands.
- Adapters can be autoclaved and cleaned with disinfectants without risk of corrosion.
- Supporting up to 28 x 5/ 7 mL blood tubes and 8 x 50 mL conicals, the CL2 accommodates larger batch sizes without compromising bench space.

Thermo Scientific CL2 Rotors and Accessories

236 Aerocarrier Rotor

Cat. No.	Description	Container Volume (mL)	Capacity (rotor)	Max Speed (rpm)	Max RCF (x g)
002360F	Aerocarrier™ Rotor, includes 4 fixed trunnion rings			3900	1950
523670F	**Cell Culture Package (4 x 50 mL conicals and 8 x 15 mL conicals):**			3400	1950
	Includes 002360F rotor,				
	2 pair 1 x 50 mL conical	50	4		
	and 2 pair 2 x 15 mL conical Aerocarrier inserts	15	8		
523680F	**Blood Tube Package:**			4000	3150
	Includes 002360F rotor,				
	2 pair 02094SF Aerocarrier inserts for 7 x 5 mL blood tubes	5	28		
	and 2 pair 02093SF Aerocarrier inserts for 4 x 7/ 10 mL blood tubes	7/ 10	16		

Aerocarrier Inserts for 236 Aerocarrier Rotor

Cat. No.	Description	Tube Dimension (mm)	No. of Tubes per Rotor	Order Quantity
02091SF	Aerocarrier for 1 x 50 mL Falcon®/ Corning® conical	29 x 115	4	2 pair
02092SF	Aerocarrier for 2 x 15 mL Falcon/ Corning conical	17 x 120	8	2
02092SF	Aerocarrier for 2 x 12 mL urine tube	17 x 103	8	2
02093SF	Aerocarrier for 4 x 7/ 10 mL blood tube	13/ 16 x 100	16	2
02094SF	Aerocarrier for 7 x 5/ 7 mL blood tube	13/ 16 x 75	28	2
02096SF	Aerocarrier for 10 x 1.5 mL microtube	11 x 44	40	2
02097SF	Aerocarrier for 1 x 25 mL universal flat vial	29 x 95	4	2
442750R	Replacement o-ring for Aerocarrier adapters			1 each
020980R	Replacement cap for Aerocarrier adapters			1

221 Economy Swinging-Bucket Rotor

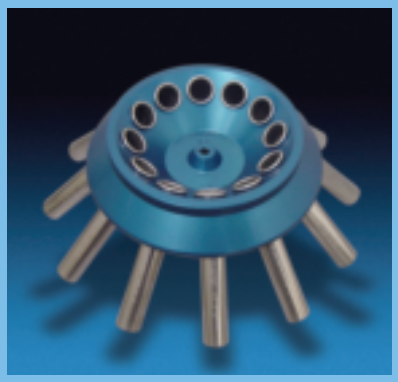
Cat. No.	Description	Container Volume (mL)	Capacity (rotor)	Max Speed (rpm)	Max RCF (x g)
002210F	6 x 15 mL Economy Swinging-Bucket Rotor			3500	1890
522120F	**6 x 15 mL Economy Swinging-Bucket Rotor Package:** Includes 002210F rotor, 003030F buckets and 006680F cushions	15	6	3100	1625
509680F S	Tapered shaft quick release adapter				

Fixed Angle Rotors

Cat. No.	Description	Container Volume (mL)	Capacity (rotor)	Max Speed (rpm)	Max RCF (x g)
008010F	6 x 50 mL Fixed Angle Rotor*	50	6	3900	2050
580120F	**6 x 50 mL Fixed Angle Rotor Package:** Includes 008010F rotor, 003050F buckets and 003150R cushions	50	6	3900	2050
008090F	12 Place Fixed Angle Rotor	15	12	3800	2150
580920F	**12 x 15 mL Fixed Angle Rotor Package:** Includes 008090F rotor, 003020F buckets and 006680R cushions	15	12	3800	2150
008410F	12 x 1.5/ 2.0 mL Fixed Angle Rotor	1.5/ 2.0	12	8500	4675
00804SF	**4 x 50 mL Angle Rotor Package:** for 50 mL and 15 mL* conical tubes	50	4	4200	2270

* Order 3 pair of 011060F adapters and 1 pk/ 12 006680F cushions for 15 mL conical tubes.

002360F Aerocarrier Rotor with optional Aerocarrier inserts pictured



580920F Fixed Angle Rotor

00804SF Rotor

Thermo Scientific CL2 Rotors and Accessories

215 Economy Swinging-Bucket Rotor

Cat. No.	Description	Container Volume (mL)	Capacity (rotor)	Max Speed (rpm)	Max RCF (x g)
002150F	4 x 50 mL Economy Swinging-Bucket Rotor	50	4	Varies per adapter	
521510F	**4 x 50 mL Rotor Package:** Includes 003250F trunnion ring, 003200F buckets and 003150R cushions	50	4	3350	1750
521520F	**8 x 50 mL Rotor Package:** Includes 003260F trunnion ring, 003200F buckets and 003150R cushions	50	8	3100	1510
521530F	**4 x 50 mL Sealed Rotor Package:** Includes 003500F trunnion ring, 003230F buckets and 005710F cushions	50	4	3175	1750

Thermo Scientific Ultrac Adapters

Cat. No.	Description	Tube Dimension (mm)	Order Quantity*
072560F	1 x 7 mL	13 x 100	2 or 4 pair
072460F	1 x 5 mL	12 x 75	2 or 4 pair

* If ordering 521510F or 521530F packages, Ultrac™ Adapter quantity would be 2 pair. If ordering 521520F package, Ultrac Adapter quantity would be 4 pair.

Accessories for 215 Economy Swinging-Bucket Rotor (order each item separately)

Cat. No. Trunnion Ring*	Cat. No. Bucket* or Carrier†	Capacity	Tube	Max Size (mm)	Max Speed (rpm)	Max Force (rcf x g)	Radius
003660F	003690F	20 x 5 mL	10/ 12 x 75 mm	12.6 x 83	5200	3350	11.1
003660F	010180F	16 x 7 mL	13 x 75/ 100 mm	14.2 x 103	4700	3150	12.8
003660F	010130F	12 x 10 mL	16 x 75/ 100 mm	16.5 x 107	4600	3025	12.8
003260F	003200F	8 x 50 mL	Falcon/ Corning conical (also order 4 each 003150F)	30 x 116	4100	2675	14.2
003250F	003200F	4 x 50 mL	Falcon/ Corning conical (also order 4 each 003150F)	30 x 116	4600	3300	14.0
003500F	003230F	4 x 50 mL	Falcon/ Corning conical	29.4 x 120	4300	3200	15.4
003500F	003230F	4 x 15 mL	Falcon/ Corning conical (also order 2 pr 011060F and 1 pk/ 12 005710F)	17.5 x 128	4300	3200	15.4

† Order both Trunnion Rings and Buckets or Carriers of equal capacity.

The 002150F Economy Swinging Bucket Rotor offers a variety of accessories to meet your specific application requirements.

Thermo Scientific CL2 Centrifuge

Specifications	CL2
Max Capacity	
Swinging-Bucket	400 mL (8 x 50 mL)
Fixed Angle	300 mL (6 x 50 mL)
Max Speed	
Swinging-Bucket	3900 rpm
Fixed Angle	8500 rpm
Max RCF	
Swinging-Bucket	2200 x g
Fixed Angle	4675 x g
Speed Set/ Display	1000 to 8500 rpm in 100 rpm increments
Time Set/ Display	5 sec to 1 min in 5 sec increments
	1 to 5 min in 15 sec increments
	5 to 30 min in 1 min increments
	Hold to 99 min 99 sec
Timer Features	Hold, At-Speed, regular timed mode
Display	4 character LCD display
Heat Output	175 Watts (600 BTU / hr)
Noise	65 dBA
Standards	ISO 9001, IEC 1010-2-020
Product Dimensions	
Height [cm/ in]	27.5/ 10.75
Height (cover open) [cm/ in]	61/ 24
Width [cm/ in]	34/ 13.25
Depth [cm/ in]	40/ 15.75
Weight unpacked [kg/ lbs]	11/ 24

Ordering Information

Catalog Number	Description
004260F	CL2, 120V 60 Hz
004270F	CL2, 230V 50 Hz
Packing Dimensions	
Height [cm/ in]	46/ 18
Width [cm/ in]	46/ 18
Depth [cm/ in]	41/ 16
Weight packed [kg/ lbs]	13/ 29

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