



Putting Higher Capacity on the Fast Track.

Legend™ General Purpose Tabletop Centrifuges

SORVALL®



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Express delivery of MORE samples

Kendro Laboratory Products' SORVALL® Legend™ T and RT general purpose tabletops move high capacity centrifugation onto the fast track. They spin more tubes, at higher RCFs, more rapidly than competitive instruments and can process three litres of sample in a single run. Add to that sophisticated microplate processing capabilities - plus the versatility to meet your future needs - and you can be confident that a Legend will keep your research, as well as your productivity, on the fast track too!



SORVALL Legend T and Refrigerated Legend RT

- Highest capacity and throughput up to 6,960 x g
- New Highplate® rotor accepts deepwell and DNA/RNA filter plates
- Microlitre rotor offers speeds to 15,000 rpm (21,890 x g)
- Swinging bucket rotor accommodates 16 standard microplates
- Wide choice of biocontainment approved rotors, with adapters for tubes from 1.5 - 750 ml
- Choice of quick-rotary switch control or an easy-to-clean soft-touch keypad
- Optimum run stability with SMARTspin™ Imbalance Detection System
- Outstanding RCFs with new BIOshield™ windshilded rotor
- Whisper-quiet, maintenance-free brushless motor
- Optional carts allow operation away from the bench or under the bench

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Legend T and Legend RT

MORE processing power,
MORE versatility

Fast Track Sample Throughput

A Legend™ will process more samples in less time than competitive models, as this example demonstrates:

Processing of 50 ml Conical Tissue Culture Tubes

	Max. RCF (x g)	Time*	Tubes per run	Tubes processed per hour
Competitive general purpose centrifuge	3,200	20 min.	12	36
High throughput Legend with swinging bucket rotor	4,570	14 min.	20	80
High throughput Legend with BIOshield™ rotor	6,960	10 min.	16	96

*Centrifugation run, including braking time

Modular, Ergonomic Equipment Design

Legend centrifuges feature LED display panels that can be read easily, even at a distance. Choose the soft-touch keypad or quick-rotary switch control.

EASYset™ Soft-Touch Keypad



- 4 program memory for standard runs
- RCF programming
- 'Pretemp' function for fast pre-cooling
- 9 braking and acceleration profiles
- Easy to clean

QUIKset™ Rotary Switch Control



- Fast parameter setting via ergonomic rotary controls
- RCF programming
- 'Soft' brake on and brake off

Ergonomic Height

The low height of the Legend at just 316 mm/12.4 in. makes rotor loading and unloading easier than ever, saving time and increasing sample throughput.

Safe Operation for You and Your Sample

The SMARTspin™ Imbalance Detection System provides optimum run stability for all rotors at all speeds and allows for eye balancing of sample tubes. The imbalance detection system will brake the centrifuge automatically when excessive imbalance exists. Acceptable imbalance caused, for example, by accidentally bumping the centrifuge *does not* result in a shut down. Excessive sample loss as the result of a tube breakage will be detected by the SMARTspin system.

Automatic Rotor Recognition offers reliable protection against incorrect parameter settings, and ensures reproducible run conditions.

The Soft-Touch Lid Lock ensures safe operation with an easy-open/close mechanism. The lid can be opened and closed effortlessly with just one hand.

Save Space in the Laboratory

Legend centrifuges are smaller than competitive models with similar capacities, which saves valuable bench space. What's more, they can be used away from, or even under the bench, thanks to optional accessory carts.



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Wide range of rotors for every application

Versatility for Changing Needs

Rotors for every application - including microlitre, microplate, swinging bucket and fixed angle - make a Legend™ a flexible, fast track performer. Process 3 litres of sample in the 4 x 750 ml rotor's round buckets - then change to rectangular buckets which accommodate twice as many tubes as previous models. Legend rotors offer outstanding capacity and high RCFs for tissue culture, virological tests, DNA/protein precipitation, and more!

6 x 94 ml fixed
angle rotor



Microlitre rotor

- Highspeed microtube processing up to 22,000 x g

Highconic® rotor

- Tissue culture tube processing up to 10,000 x g
- Optimum sedimentation with unique tube angle



4 x 750 ml
swinging bucket rotor



BIOshield™ windshielded rotor

- Highest speed in the industry
- Processes more tubes per hour than competitive rotors
- Safe with one twist of the lid
- Fully autoclavable



**Multiple carrier for blood
collection tubes**

- Highest capacity for blood collection tubes

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High Throughput Microplate Processing without Compromise

Legend™ centrifuges optimize microplate processing. Spin *any brand*, standard microplate - up to 16 - in the swinging bucket rotor or use the unique, biocontainment approved Highplate rotor to spin filtration units in a microplate format. The Highplate rotor

offers a maximum RCF of 5,220 x g, the highest in the industry!

And experience easy loading of 4 deepwell or 10 standard microplates.



Microplate carrier

- Large 4 x 4 standard plate capacity
- Highest RCF in the industry for higher throughput
- Easy loading with unique handle



Highplate rotor

- Accommodates *all brands* of microplates and filter plates
- Accommodates 2 filter or 4 deepwell plates up to 90 mm plate height
- Safe with one twist of the lid



Swinging bucket rotor with tissue culture buckets

- Accommodates a wide variety of tissue culture tubes up to 250 ml volume/170 mm (6.7 in.) length
- Supports large volume conical tubes without adapters

Your best
microplate processing
solution ... from K
Laboratory Pr

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Rotors and accessories

Specifications, buckets and carriers for swinging bucket rotor



Rotor body Catalog no. 75006445 ¹		Round Bucket	Rectangular Bucket	Microplate Carrier	250 ml Tissue Culture Bucket	Multiple Bucket	Multiple Bucket
Catalog no.		75006441	75006446	75006449	75006497	75006470	75006471
Biocontainment lids (pair)	Catalog no.	75006442	75006448	n/a	n/a	n/a	n/a
Max. bucket capacity	ml	1 x 750	1 x 250	4 plates	1 x 250 (conical)	25 x 5/7	20 x 10/15
Max. rotor capacity	ml	4 x 750	4 x 250	4 x 4 plates	4 x 250 (conical)	100 x 5/7	80 x 10/15
Max. speed (T/RT)	rpm	4,350/4,600	4,350/4,600	4,350/4,600	4,350/4,600	4,350/4,600	4,350/4,600
Max. RCF (T/RT)	x g	4,080/4,570	4,020/4,490	3,360/3,760	4,510/5,040	3,790/4,240	4,060/4,540
Min. temp at max. speed (RT only)	°C	4	6	2	2	2	5
Max. radius	mm	192	190	159	213	179	192
Adapters (Centri-Lab®)	type	C	D	n/a	For conical tissue culture tubes only. No adapters required.	For high capacity Blood Collection tubes (Vacutainer tubes). No adapters required.	
Max. carrier height or diameter x tube length	mm	n/a	n/a	85 x 60/127	61 x 180	14 x 120	17 x 140

¹ Catalog no. 75006434: tool-less rotor body.

Specifications for windshielded rotors



Rotor		BIOshield™	Highplate®
Catalog no.		75006435	75006444
Biocontainment lids (pair)		included	included
Max. rotor capacity	ml	4 x 250	2 x 1 filter plates or 2 x 5 microplates
Max. speed (T/RT)	rpm	5,350/5,350	5,350/5,350
Max. RCF (T/RT)	x g	5,820/5,820	5,220/5,220
Min. temp at max. speed (RT only)	°C	4	4
Max. radius	mm	182	163
Adapters (Centri-Lab)	type	D	n/a

Adapters for swinging bucket rotor with round buckets (Type C)



Volume (ml)	1.5/2	7	5/7	14/15	15	15	10/15	25	45/50	50	50	100	150/180	175/200 /225	250	500 ¹	750	custom
Tubes per adapter	48	35	19	12	12	17	19	7	7	5	4	2	1	1	1	1	1	n/a
Tubes per rotor	192	140	76	48	48	68	76	28	28	20	16	8	4	4	4	4	4	n/a
Tube type ²	ML	DIN	BL	FL	CON	DIN	BL	DIN	PYR	CON	DIN	DIN	DIN/Misc.	CON	Misc.	Misc.	Bottle	Misc.
Max. length of tube (mm) ³	50	125	125	125	123	125	125	125	125	125	125	125	132	140	140	136	136	136
Max. tube dia. (mm)	11	12.8	13.5	18.3	16.5	17	17	25	29.5	29.5	34.5	45	56.5	62	62	100	100	85
Max. cap dia. (mm)	13	14	18.5	21.5	23.5	20	18.5	31	31	35.5	39	47.5	56.5	75	75	100	100	100
Adapter color ⁴	BL	Y	LGY	BR	OB	W	R	OR	UB	LG	G	B	GR	W	W	n/a	n/a	W
Order no. standard tubes from Multifuge® 3 brochure, page 12.																		
Adapter catalog no.																		
(7500xxxx)	8132	8133	8134	6494	8137	8136	8135	8138	6493	6495	8140	8142	6498	8144 ¹	8144	n/a	n/a	1560
Adapter shape ⁵	F/C	F/R	F/R	F/R	F/C	F/R	F/R	F/R	F/R	F/C	F/C	F/C	F/C	F	F	F	F	n/a

¹ If conical tubes are used, an additional conical adapter pad should be purchased from the tube manufacturer.

² ML = microlitre tube; DIN = borosilicate glass with DIN dimensions; BL = blood collection tube; FL = flanged tube; CON = conical tissue culture tube; PYR = round bottom polypropylene tubes.

³ Max. tube length when biocontainment lid is used.

⁴ BL = black; Y = yellow; LGY = light gray; BR = brown; OB = olive brown; W = white; R = red; OR = orange; UB = ultramarine blue; LG = light green; G = green; B = blue; GR = gray.

⁵ F = flat; C = conical; R = round.

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Adapters for swinging bucket rotor with rectangular buckets and BIOshield™ rotor (Type D)

Volume (ml)	1.5/2	7	5/7	14/15	15	10/15	25	25/50	45/50	50	50	100	155/180	250
Tubes per adapter	56	28	20	9	9	16	6	4	4	4	3	1	1	1
Tubes per rotor	224	112	80	36	36	64	24	16	16	16	12	4	4	4
Type of tube ¹	ML	DIN	BL	FL	CON	DIN/BL	DIN	UNI	PYR	CON	DIN	DIN	DIN/Misc.	Bottle
Max. length of tube (mm) ²	50	117	117	117	120	117	117	117	117	117	117	120	125	125
Max. tube dia. (mm)	11	12.8	14	18.3	16.5	17	25	25.5	29.5	29.5	34.5	45	56.5	62
Max. cap dia. (mm)	13	14	17.5	25	24	19	28	32	35	35.5	38	66	66	63
Adapter color ³	BL	Y	LG	BR	OB	R	OR	BG	UB	LG	G	B	GB	BL
Adapter catalog no. (7500xxxx)	6452	6453	6454	6492	6456	6455	6457	6459	6491	6461	6460	6462	6463	6465
Adapter shape ⁴	F/C	F/R	F/R	F/R	F/C	F/R	F/R	F/R	F/R	F/C	F/R	F/R	F/R	F

¹ ML = microlitre tube; DIN = borosilicate glass with DIN dimensions; BL = blood collection tube; FL = flanged tube; CON = conical tissue culture tube; PYR = round bottom Pyrex glass; UNI = universal container.

² Max. tube length when biocontainment lid is used.

³ BL = black; Y = yellow; LGY = light gray; BR = brown; OB = olive brown; W = white; R = red; OR = orange; UB = ultramarine blue; LG = light green; G = green; B = blue; GR = gray; BG = blue-green; GB = grey-blue.

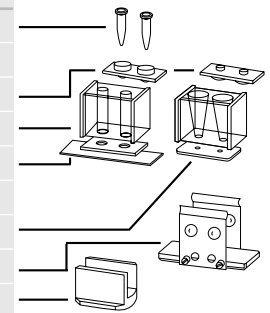
⁴ F = flat; C = conical; R = round.

Note: Adapter type D, catalog no. 76006467 is required to use Centri-Lab®-Adapter type A (from Megafuge line) in rectangular bucket 75006446 or BIOshield rotor (75006435).



Cyto-accessories for swinging bucket/BIOshield rotor with rectangular buckets

Type		Catalog no.
100 micro tubes	0.75 ml with 0.5 ml opening in bottom	75001153
100 micro tubes	1.5 ml with 0.5 ml opening in bottom	75001152
Lid	For working without micro tubes	76003422
Cyto-container	With 2 cylindrical bores for approx. 1.5 ml sample volumes	75003415
Cyto-container	With 2 conical bores for approx. 3.0 ml sample volumes	65003416
100 filter cards	For cyto-container 75003415	76003424
100 filter cards	For cyto-container 75003416	76003425
Clip carrier	For holding a cyto-container and slide	75003414
Support insert	For using cyto-accessories with bucket 75006446 or BIOshield rotor	76006466



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Fixed angle rotor specifications



Fixed angle rotor		24 x 1.5/2 ml microlitre rotor ¹	6 x 94 ml fixed angle rotor	Highconic® rotor
Catalog no.		75003332	75003334	75003046
Angle	°	45	26	45
Max. speed (T/RT)	rpm	15,000/15,000	10,500/12,000	8,500/8,500
Max. RCF (T/RT)	x g	21,890/21,890	12,450/16,260	10,020/10,020
Max. capacity	ml	24 x 1.5/2	6 x 94	6 x 50
Min. temp at max. speed	°C	< 0	< 0	< 0
Max/min. radius	mm	87/59	101/63	124/60
Weight	kg/lb	1.61/3.5	5.5/12.1	2.8/6.2
Special features		biocontainment approved, autoclavable	biocontainment approved	biocontainment approved, autoclavable

¹ Available for use in Legend™ RT only



Adapters for 6 x 94 ml fixed angle rotor and Highconic rotor

Tube Volume	Fixed angle rotor				Highconic rotor			
	Tubes per rotor	D (mm)	L (mm)	Catalog no. adapter	Tubes per rotor	D (mm)	L (mm)	Catalog no. adapter
4 x 1.5 ml	24	11	51	76002905	24	11	58	76002905
4 x 3.5 ml	24	11	91	75003091	24	11	103	75003091
2 x 6.5 ml	12	13	108	75003092	12	13	115	75003092
2 x 12 ml	12	16	89	75003093	12	16	96	75003093
1 x 16 ml	6	18	114	76002906	6	18	124	76002906
1 x 38 ml	6	25	104	75003094	6	25	112	75003094
1 x 50 ml	6	29	114	75003014	6	29	118	75003014
1 x 15 ml conical tissue culture	n/a	n/a	n/a	n/a	6	16.5	120	75003095
1 x 50 ml conical tissue culture	n/a	n/a	n/a	n/a	6	30	117	75003096 ¹
1 x 94 ml	1	38	114	w/o adapter	n/a	n/a	n/a	n/a
Pair of replacement sealing rings, including lubricant	n/a	n/a	n/a	n/a	n/a	n/a	n/a	75003423

¹ Included with rotor.



Adapter sets for microlitre rotor

Adapter	No. per package	Color	Catalog no.
For 0.5/0.6 ml microlitre tubes	24	turquoise	76003758
For 0.25/0.4 ml microlitre tubes	24	red	76003759
For 0.2 ml PCR tubes	24	gray	76003757

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Instrument Specifications

SORVALL® Legend™ T and RT		
Drive		brushless induction drive
Control		microprocessor controlled via EASYset™ (Soft Touch Keypad) or QUIKset™ (Rotary Switch Control)
Speed range	rpm	300 – 15,000 adjustable in 100 rpm increments (QUIKset) or 10 rpm increments (EASYset)
Max. RCF	x g	21,890
Max. capacity	ml	4 x 750 (or 4 x 4 microplates)
Decel./accel. profiles		9/9 (EASYset) or brake on/off and soft brake (QUIKset)
Program memory		4 plus 1 pretemp program (EASYset only)
Functions		RCF pre-selection, quick run, automatic rotor recognition and imbalance detection
Dimensions (H x W x D)	mm (inch)	Legend T: 362 x 551 x 666 (14.3 x 21.7 x 26.2) Working height: 316 (12.5) Legend RT: 362 x 733 x 666 (14.3 x 28.7 x 26.2) Working height: 316 (12.5)
Weight	kg (lb)	Legend T: 89 (196) Legend RT: 131 (288)
Run time		0 – 9 hrs 59 mins, continuous operation
Temperature range (Legend RT)	°C	–9 to +40, CFC-free refrigerant
Design		Galvanized steel chassis with armored chamber
Safety		Lid lock and lid interlock (2 automatic lid locks)
Test standards		61 010-1, 61 010-2-020, 50 081-1, 50 082-1. Manufactured and tested in accordance with IEC/EN61010; CAN/CSA – C22.2 NO. 1010-1; UL 3101-1

Instrument Catalog Numbers

Model	Control	Catalog no.
		230 V (50/60 Hz)
Legend T	EASYset	75004363
Legend RT	EASYset	75004373
Legend T	QUIKset	75004362
Legend RT	QUIKset	75004372
Accessory carts	Size	Catalog no.
Benchtop (T) (H x W x D)	mm (inch)	600 x 550 x 665 (24 x 22 x 26)
Benchtop (RT) (H x W x D)	mm (inch)	600 x 750 x 665 (24 x 30 x 26)
Under bench (T) (H x W x D)	mm (inch)	290 x 550 x 665 (11 x 22 x 26)
Under bench (RT) (H x W x D)	mm (inch)	290 x 750 x 665 (11 x 30 x 26)



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230 V

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