

1.6 Liters at
a Legendary
Performance!



SORVALL®



NEW!



DJB Labcare - The UK's Leading Centrifuge Specialist
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01908 612598

Introducing the SORVALL® Legend™ Mach 1.6 Tabletop Centrifuge



Available with quick-setting rotary knobs or soft-touch keypad control, the 1.6 liter capacity Legend Mach 1.6 is the latest model in the acclaimed Legend Series of tabletop centrifuges from SORVALL.

Refrigerated and non-refrigerated Legend Mach 1.6 centrifuges offer the *processing versatility*, *sample capacity* and *sheer value* that today's busy laboratories demand. They spin more tubes, at higher RCF's, more rapidly than competitive instruments – and with five interchangeable biocontainment rotors available for a host of applications, Mach 1.6 centrifuges are equally at home in clinical testing, microbiology, biotechnology, pharmaceutical and general laboratory environments.

- Maximized versatility
- Higher capacity and throughput
- Simplified, reliable operation
- Enhanced user safety
- Reduced maintenance



Optional carts allow operation away from, or under the bench.

User-defined programmability

Bright, easy digital display

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or more information
SORVALL Sales Rep





Large 1.6 liter capacity
for high volume processing

Fast separations at speeds to
15,000 rpm (24,652 x g)

Unprecedented applications versatility:
microliter, microplate, Highconic® fixed-angle,
swinging bucket and windshielded swinging
bucket rotors

Wide range of adapters
for all popular tubes and bottles

Biocontainment: all rotors and bucket
assemblies independently certified
(CAMR, Porton Down, UK)

Automatic rotor recognition detects incorrect
parameter settings and ensures reproducible runs

**Patented SMARTspin™ imbalance
detection** provides optimum run
stability for all rotors at all speeds

Sample balancing by eye alone saves time



Ergonomic low profile (working height 12.4"/316 mm)
for ease of sample loading and unloading

Whisper-quiet brushless induction drive system

Easy-to-read
displays

**Automatic Soft-Touch
Lid Lock System**
ensures safe operation
with an easy-open/close
mechanism



Refrigerated and non-refrigerated models, plus choice of quick-setting
QUICKset® rotor adapters and easy-to-clean EASYset® soft-touch keypad control.

For more information, contact your local
representative today!

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Rotor and Adapters

Rotor Specifications



Rotor Type	TTH-400 with Round Buckets	TTH-400 with Rectangular Buckets	MP 3300 Microplate	BIOshield® 600	FA 12.94 Highconic®	Microliter	
Catalog no.	75002000 ¹	75002000 ¹	75002010	75002005	75002006	75003448	
Max. speed	rpm	4,700	4,700 ²	4,400	6,000 (Mach 1.6 R) 5,700 (Mach 1.6)	10,350 (Mach 1.6 R) 10,150 (Mach 1.6)	15,000
Max. RCF	x g	4,618	4,618 ³	3,355	6,842 (Mach 1.6 R) 6,175 (Mach 1.6)	15,090 (Mach 1.6 R) 14,513 (Mach 1.6)	24,652
Max. capacity		4 x 400 ml	4 x 150 ml	2 x 4 microplates 2 x 1 deepwell plates	4 x 150 ml	6 x 94 ml	48 x 1.5/2.0 ml
Biocontainment certified	Yes	Yes	Yes	Yes	Yes	Yes	

¹ Rotor body only. 400 ml round bucket Catalog no. 75002002, biocontainment lids (pair) Catalog no. 75002004.
150 ml rectangular bucket Catalog no. 75002001, biocontainment lids (pair) Catalog no. 75002003.

² Top speed in refrigerated 120 V instrument 4,600 rpm. ³ Max. RCF in refrigerated 120 V instrument 4,424 x g.



Adapters for Fixed Angle Rotors

Description	Catalog no.
Microliter Rotor (without adapters)	75003448
O-ring replacement set	75002012
24 reducer sleeves for 0.6/0.5 ml microliter tubes (set)	76003758
24 reducer sleeves for 0.4/0.25 ml microliter tubes (set)	76003759
24 reducer sleeves for 0.2 ml PCR tubes (set)	76003750
FA 12.94 Highconic Rotor (6 x 94 ml and 12 x 16 ml)	75002006
O-ring replacement	75003058
Reducer insert for 1 x 15 ml conical tissue culture tubes	75003095
Reducer insert for 1 x 50 ml conical tissue culture tubes	75003103
Reducer insert, from 94 ml to 4 x 1.5 ml	76002905
Reducer insert, from 94 ml to 4 x 3.5 ml	75003091
Reducer insert, from 94 ml to 2 x 6.5 ml	75003092
Reducer insert, from 94 ml to 2 x 12 ml	75003093
Reducer insert, from 94 ml to 1 x 16 ml	76002906
Reducer insert, from 94 ml to 1 x 38 ml	75003094
Reducer insert, from 94 ml to 1 x 50 ml	75003102
Adapters for 7 ml Vacutainer (1 Vacutainer per 94 ml cavity, total capacity 18 per run)	75002906 and 76003225
FA 12.94 Highconic Rotor (adapters for 16 ml cavities)	75002006
Reducer insert for 10 ml Vacutainer (16 x 100 mm, set of 12)	75003757
Reducer insert for 7 ml Vacutainer (13 x 100 mm, set of 12)	76003225
Reducer insert for 5 ml Vacutainer (13 x 75 mm, set of 12)	76003222

Cyto Accessories

Description	Catalog no.
100 microtubes (0.75 ml with 0.5 mm opening in bottom)	75001153
100 microtubes (1.5 ml with 0.5 mm opening in bottom)	75001152
Lid (for working without microtubes)	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)	75003416
100 filter cards (for cyto container 75003415)	76003424
100 filter cards (for cyto container 75003416)	76003425
Clip carrier (for holding a cyto container and a slide)	75003414
Support insert (for using cyto accessories with buckets 75002001)	76006466

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Swinging Bucket Rotor Adapters



Adapters for TTH-400 Rotor with Rectangular Buckets

Tube Volume	ml	7	15	15	1.5	7	15	25
Tubes per adapter		14	12	8	40	20	12	4
Tubes per rotor		56	48	32	160	80	48	16
Tube type ¹		blood	blood	conical	ML	DIN	DIN	universal
Max. tube length ²	mm	117	117	120	45	115	115	100
Max. tube diameter	mm	13	17	17	11	13	17	22.5
Max. cap diameter	mm	16.5	19.5	22	–	13	18.3	31
Adapter color		grey	white	brown	black	yellow	red	green
Adapter shape ³		F	F	C	C	F/R	F/R	F/R
Adapter cat. no.	(7500xxxx)	2022	2021	2020	5335	5321	5322	5391

Tube Volume	ml	25	50	50	50	100	150
Tubes per adapter		5	2	2	1	1	1
Tubes per rotor		20	8	8	4	4	4
Tube type ¹		DIN	DIN	conical	Oil test	DIN	DIN
Max. tube length ²	mm	115	120	120	–	120	110
Max. tube diameter	mm	25	34	29.5	–	44	50
Max. cap diameter	mm	25.9	35.6	37.5	–	48.1	–
Adapter color		orange	green	green/yellow	nature	blue	dark grey
Adapter shape ³		F/R	F/R	F/C	S	R	R
Adapter cat. no.	(7500xxxx)	5323	5324	5386	5339	5325	5326

¹ Tube type: ML = microliter; DIN = Borosilicate glass with DIN dimensions; Blood = Blood collection; FL = Flange tube; Oil test = Oil test; Conical = conical tissue culture; Universal = Universal container. ² Max. tube length when aerosol-tight lid is used. ³ F = Flat; C = Conical; R = Round; S = ?????????



Adapters for TTH-400 Rotor with Round Buckets

Tube Volume	ml	1.5/2	7	7	15	15	25	25
Tubes per adapter		34	18	10	10	8	5	5
Tubes per rotor		136	72	40	40	32	20	20
Tube type ¹		ML	DIN	blood	DIN	conical	US	DIN
Max. tube length ²	mm	46	123	123	122	127	123	121
Max. tube diameter	mm	10.5	13	13	17.2	17	16.5	25.5
Max. cap diameter	mm	14	14	18.4	18.4	23	27.5	29
Adapter color		black	yellow	grey	red	brown	orange/red	orange
Adapter shape ³		F/C	F/R	F/R	F/R	C	C	F/R
Adapter cat. no.	(7500xxxx)	7578	7571	7579	7572	7621	7581	7583

Tube Volume	ml	50	50	50	100	250	400
Tubes per adapter		3	3	3	1	1	1
Tubes per rotor		12	12	12	4	4	4
Tube type ¹		universal	conical	DIN	DIN	B	B
Max. tube length ²	mm	120	119	120	134	135	134
Max. tube diameter	mm	25	29	34.5	45	62	80
Max. cap diameter	mm	32	37.5	36	59	–	–
Adapter color		green/yellow	green/yellow	green	blue	nature	–
Adapter shape ³		F/C	F/C	F/R	F/R	F	F
Adapter cat. no.	(7500xxxx)	7580	7577	7574	7575	7522	no adapter required

¹ Tube type: ML = microliter; DIN = Borosilicate glass with DIN dimensions; Blood = Blood collection; Conical = conical tissue culture; Universal = Universal container; US = Urine; B = Bottle. ² Max. tube length when aerosol-tight lid is used. ³ F = Flat; C = Conical; R = Round.

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Instrument Specifications

SORVALL® Legend™ Mach 1.6 and Refrigerated Mach 1.6 R Tabletop Centrifuges		
Drive		Brushless induction
Control		Microprocessor control via EASYset® soft-touch keypad or QUIKset® rotary knobs
Speed range	rpm	300 – 15,000 adjustable in 10 rpm increments
Maximum RCF	x g	24,652
Maximum capacity		4 x 400 ml with swinging bucket rotor and round buckets 6 x 94 ml with Highconic® fixed-angle rotor
Decel./Accel. profiles		9/9 (with EASYset control), brake on/off + soft brake (with QUIKset control)
Programmability		4 + 1 pre-temp program (with EASYset soft-touch keypad control)
Functions		RCF pre-selection, quick run, automatic rotor recognition and imbalance detection
Dimensions (H x W x D)	inch (mm)	Legend Mach 1.6: 14.3 x 19.6 x 24.2 (365 x 500 x 615) Legend Mach 1.6 R: 14.3 x 27.0 x 26.2 (365 x 686 x 665) 12.4 (316) working height
Weight	lb (kg)	Legend Mach 1.6: 203 (92) Legend Mach 1.6 R: 259 (118)
Run time	hr/min	0 – 9 hours 59 minutes, continuous operation
Temperature range (Mach 1.6 R)	°C	-9 to +40, CFC-free refrigerant
Design		Steel chassis with armored chamber
Safety		Lid lock and lid interlock (1 automatic lid lock)
Test standards		Designed and tested in accordance with IEC 61010-1/-2-20; cCSAus-mark resp. CE-mark
Electrical	V (Hz)	120 (60) or 230 (50/60)

Catalog Numbers

Instrument	Legend Mach 1.6		Refrigerated Legend Mach 1.6 R	
	Rotary knob	Soft-touch keypad	Rotary knob	Soft-touch keypad
Electrical configuration				
120 V (60 Hz)	75004316	75004317	75004336	75004337
230 V (50/60 Hz)	75004312	75004313	75004332	75004333

Optional Carts		Legend Mach 1.6		Refrigerated Legend Mach 1.6 R	
		Underbench	Ergonomic	Underbench	Ergonomic
Catalog no.		76000078	76000077	76000076	76000075
Dimensions (H x W x D)	inch (mm)	11.4 x 21.7 x 26.2 (290 x 550 x 665)	23.6 x 21.7 x 26.2 (600 x 550 x 665)	11.4 x 29.5 x 26.2 (290 x 735 x 665)	23.6 x 29.5 x 26.2 (600 x 735 x 665)



Kendro Laboratory Products manufactures a wide range of **SORVALL®** and **Heracore®** brand equipment, including floor model and tabletop centrifuges, safety cabinets, animated incubators and bioprocessing systems. For more information, contact your local Sales Representative.

For Ordering or Technical Information

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