

# NEW SORVALL® Legend® Mach 1.6® Tabletop Centrifuges

- Non-refrigerated (Mach 1.6) and refrigerated (Mach 1.6 R) centrifuges
- 1.6 liter capacity for high volume processing
- EASYset™ soft-touch keypad or QUIKset™ rotary knob control
- Wide choice of biocontainment approved rotors, with adapters for all popular tubes
- SMARTspin® Imbalance Detection System
- Automatic rotor recognition
- User-defined programs with EASYset models
- Ergonomic low profile and space-saving design
- Soft-Touch lid closure mechanism
- Quiet, maintenance-free brushless drive
- Accessory carts allow operation away from, or under the bench



Refrigerated and non-refrigerated models, plus choice of quick-setting QUIKset™ rotary knobs or easy-to-clean EASYset™ soft-touch keypad control.

## Ordering Information

Product	Control	Fisher catalog no. 120 V (60 Hz)
SORVALL Legend Mach 1.6	EASYset	75004317
SORVALL Legend Mach 1.6 R	EASYset	75004337
SORVALL Legend Mach 1.6	QUIKset	75004316
SORVALL Legend Mach 1.6 R	QUIKset	75004336
Accessory carts	Dimensions, H x W x D, inch (mm)	Fisher catalog no.
Benchtop (Mach 1.6)	24 x 22 x 26 (600 x 550 x 665)	76000077
Benchtop (Mach 1.6 R)	24 x 30 x 26 (600 x 750 x 665)	75000075
Underbench (Mach 1.6)	11 x 22 x 26 (290 x 550 x 665)	76000078
Underbench (Mach 1.6 R)	11 x 30 x 26 (290 x 750 x 665)	76000076

## Product Specifications

Legend Mach 1.6 and Mach 1.6 R		
Drive		Brushless induction
Control		Microprocessor via EASYset (Soft-Touch Keypad) or QUIKset (Rotary Knob Control)
Speed range	rpm	300 – 15,000 adjustable in 10 rpm increments
Max. RCF	x g	24,652
Max. capacity	ml	4 x 400 (or 2 x 4 microplates)
Decel/accel profiles		9/9 (EASYset) or brake on/off and soft brake (QUIKset)
Programmability		4 user programs (EASYset only)
Pre-cooling function		1 pre-temp program (EASYset only)
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)
Weight	lb (kg)	Legend Mach 1.6: 203 (92) Legend Mach 1.6 R: 259 (118)
Maximum noise level	dB (A)	<54 (Mach 1.6R), <64 (Mach 1.6)
Run time	hr/min	0 – 9 hrs 59 mins, 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)

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.



Swinging bucket rotor body.

## Rotors and accessories

### Buckets for TTH-400 Swinging Bucket Rotor



Rotor body Fisher catalog no. 75002000

Bucket Type		Round Bucket	Rectangular Bucket	Multiple Bucket	Multiple Bucket
Fisher catalog no.		75002002	75002001	75002027	75002028
Biocontainment lids (pair)	Fisher catalog no.	75002004	75002003	n/a	n/a
Max. bucket capacity	ml	1 x 400	1 x 150	14 x 15	5 x 50
Max. rotor capacity	ml	4 x 400	4 x 150	56 x 15	20 x 50
Max. speed (1.6/1.6R)	rpm	4,700/4,700	4,500/4,500	4,500/4,600	4,500/4,600
Max. RCF (1.6/1.6R)	x g	4,618/4,618	4,234/4,234	4,256/4,447	4,210/4,400
Max. radius	mm	187	187	188	186
Min. temp at max. speed (Mach 1.6 R only)	°C	4	12	7	7
Adapters	type	E	A and A Plus	For 15 ml conical tubes no adapter required.	For 50 ml conical tubes no adapter required.
Max. carrier height or tube length/diameter	mm	see adapter table	see adapter table	120/17	120/29.5
O-ring replacement		75002009	75002008	n/a	n/a

### Specifications for Windshielded, Fixed-Angle, Microplate and Microliter Rotors



Rotor		BIOshield® 600	FA 12.94 Highconic® <sup>1</sup>	MP 3300 Microplate	Microliter
Fisher catalog no.		75002005	75002006	75002010	75003348
Max. rotor capacity	ml	4 x 150	6 x 94 12/18 x 16	2 x 4 microplates 2 x 1 deepwell plates	48 x 1.5/2
Max. RCF (1.6/1.6 R)	x g	6,175/6,842	14,513/15,090	3,355/3,355	24,652/24,652
Max. radius	mm	170	126	155	98
Min. temp at max. speed (Mach 1.6 R only)	°C	8	6	< 0	4
Adapters (Centri-Lab®)	type	A	n/a	n/a	n/a
O-ring/gasket replacement		75002007	75003058	75002012	75002012
Metal plate handles (optional)		n/a	n/a	75002013	n/a
Biocontainment		yes	yes	yes	yes

<sup>1</sup> Quantity 6, 75003103 included with rotor.

With optional lid 75002011 (part number is for pair of lids).