

Your Partner in Laboratory

MSE

Hawk R

Small capacity bench top centrifuge



BETATEK INC.
Instrumentation Superbly Supported
L'instrumentation à son meilleur

654 Petrolia Road,
Toronto, ON M3J 2W3

Tel: (416) 736-6166
Toll-Free: (800) 387 3570
Fax: (416) 736-9346



4 x 100ml



18 000 RPM



24 270 x g



MSE
Rue du Vieux Bourg
49340 Nuailly
FRANCE



+33 (0) 24164 7341



info@mse-sas.fr



DECADES OF CENTRIFUGE
INTELLIGENCE

FEATURES

- Space-saving and modern design**
- Centrifuges designed according to specific needs of clinics, laboratories, hospitals and other industries
- Quick and accurate separation of mixtures and biological samples, up to 18 000 RPM
- Lid locking during rotor running
- Viewing port in the lid
- Digital display and easy to clean buttons**
- Simplified and exhaustive display** (pre set and current values)
- Emergency lid lock release
- IVD-conform according to directive 98/79/EC**
- Brushless drive
- Stainless steel chamber
- Precooling functions
- Start working at aimed temperature
- 10 languages** (FR,EN, ES, IT, PT, DE, RU, SE, CZ, PL)
- PULSE and HOLD mode
- 99 programs**
- Selected functions blocking password protection
- Manual centrifugal radius adjustment (with automatic RCF correction)
- Changing of parameters during run
- Wide range of rotors with auto identification**
- Time calculation from reaching preselected speed**



BUCKETS

MSE reference	Description	Dimension
MSE3131	Bucket with rubber cushion for tubes 15/10ml (flat-bottom)	Φ 17 x 100/120 mm
MSE3132	Bucket with rubber cushion for tubes 10/6ml	Φ 17 x 70/85 mm
MSE3164	Hanger for blood collection 12 x 1,6÷4ml tubes	12 x Φ 13.1 mm
MSE3251	Bucket 100 ml Φ 58.4 x 81.5 mm	Φ 58.4 x 81.5 mm
MSE3252C/A	Bucket 100 ml Φ 58.4 x 87 mm with lid MSE7253	Φ 58.4 x 87 mm
MSE3252C/B	Bucket 100 ml Φ 58.4 x 87 mm with lid MSE7254	Φ 58.4 x 87 mm
MSE3266	Hanger for 2 x 15 ml Flacon tube	2 x Φ 17.7 mm
MSE3327	Bucket for 8 x 50 ml Flacon tube	-
MSE3329	Bucket for 8 x 50 ml Flacon tube with lid MSE7202	-
MSE3380	Bucket for 12 x 30/25 ml Nalgene tube	-
MSE3770	Bucket for 4 x 100 ml	-
MSE7202	Lid for bucket MSE3329	-

					ADAPTORS CAPACITY																						
MSE reference	Description	Max. RPM	Max. RCF	Max. Capacity	MSE4075	MSE4086	MSE4087	MSE4094	MSE4122	MSE4124	MSE4133	MSE4135	MSE4140	MSE4177	MSE4184	MSE4239	MSE4247	MSE4275	MSE4277	MSE4299	MSE4306	MSE4307	MSE4240C	MSE4241C	MSE4243C	MSE4919C/A	MSE4919C/B
	Hematocrite rotor for 24 capillaries	13000	16816	24 x 75 mm																							
	Angle rotor for PCR strips with Hermetically Sealed Lid (angle 45°)	15000	17609	4 x 8 x 0.2 ml																							
	Angle rotor 24 x 2/1.5ml with Hermetically Sealed Lid (angle 45°)	15000	20879	24 x 2/1.5 ml									x		x	x											
	Angle rotor 36 x 2/1.5ml with Hermetically Sealed Lid (angle 45°)	14000	18188	36 x 2/1.5 ml								x			x	x											
	Angle rotor 12 x 5 ml Eppendorf tubes with Hermetically Sealed Lid (angle 45°)	15000	21382	12 x 5 ml																							
	Angle rotor 12 x 5 ml with Hermetically Sealed Lid (angle 45°)	14000	19064	12 x 5 ml																							
	Angle rotor 10 x 10 ml with Hermetically Sealed Lid (angle 30°)	14000	15558	10 x 10 ml																							
	Angle rotor 8 x 15/10ml (angle 30°) (with bucket MSE3131)	6000	4226	8 x 15/10 ml								x															
	Angle rotor 8 x 10 ml (angle 30°) (with bucket MSE3132)	6000	3783	8 x 10 ml								x															
	Angle rotor 10 x 15/10ml (angle 30°) (with bucket MSE3131)	6000	4226	10 x 15/10 ml							x																
	Angle rotor 10 x 10 ml (angle 30°) (with bucket MSE3132)	6000	4226	10 x 10 ml							x																
	Angle rotor 12 x 15/10ml (angle 30°) (with bucket MSE3131)	5500	3686	12 x 15/10 ml							x																
	Angle rotor 12 x 10 ml (angle 30°) (with bucket MSE3132)	5500	3686	12 x 10 ml							x																
	Angle rotor 24 x 15/10ml (angle 30°)(with bucket MSE3131)	5000	3354	24 x 15/10 ml							x																
	Angle rotor 24 x 10 ml (angle 30°) (with bucket MSE3132)	5000	3130	24 x 10 ml							x																
	Angle rotor 30 x 15/10ml (angle 30°) (with bucket MSE3131)	4500	3011	30 x 15/10 ml							x																
	Angle rotor 30 x 10 ml (angle 30°) (with bucket MSE3132)	4500	2875	30 x 10 ml								x															
	Angle rotor 12 x 30/25ml (angle 30°) (with bucket MSE3380)	5500	4058	12 x 30/25 ml																		x	x				
	Angle rotor 6 x 50 ml (angle 30°) (with bucket MSE3327)	6000	4427	6 x 50 ml			x	x	x	x			x														
	Angle rotor 8 x 50 ml for Falcon tubes (angle 30°) (with bucket MSE3329)	5500	4227	8 x 50 ml		x	x	x	x	x			x								x					x	x
	Angle rotor 8 x 50 ml for Falcon tubes (angle 30°) (with bucket MSE3327)	5500	4227	8 x 50 ml		x	x	x	x	x		x									x					x	x
	Angle rotor 10 x 50 ml (angle 30°) (with bucket MSE3327)	4500	2830	10 x 50 ml			x	x	x	x			x													x	x
	Angle rotor 4 x 100 ml (angle 30°) (with bucket MSE3770)	6300	5014	4 x 100 ml	x												x	x	x	x						x	x

SWING-OUT ROTOR

MSE Reference	Description	Max. RPM	Max. RCF	Max. Capacity	Dimension	Buckets compatibility	ADAPTORS CAPACITY												
							MSE4064	MSE4067	MSE4071	MSE4072	MSE4074	MSE4077	MSE4077C	MSE4078	MSE4079	MSE4080	MSE4133	MSE4151C/A	MSE4151C/B
MSE2251	Swing-out rotor 4 x 100 ml	4000	2504	4 x 100	Φ 83 x 120 mm	MSE3164													
						MSE3251	x	x	x	x	x	x	x	x	x		x	x	
						MSE3252C/A	x	x	x	x	x		x		x	x		x	x
						MSE3252C/B				x		x	x	x			x	x	
						MSE3266											x		

ADAPTATORS

MSE reference	Description	Dimension
MSE4064	Round Adaptor for blood collection 8 x 1,6÷7ml tubes	8 x Φ 13.1 mm
MSE4067	Round Adaptor for blood collection 7 x 7÷11ml tubes	7 x Φ 16.5 mm
MSE4071	Round Adaptor for round-bottom 5 x 10 ml Nalgene and 5 x 13/14ml Sarstedt tubes	5 x Φ 17 mm
MSE4072	Round Adaptor for round-bottom 10 x 1,5/2ml Eppendorf tubes	10 x Φ 11 mm
MSE4074	Round Adaptor for round-bottom 30 ml Nalgene tube	1 x Φ 25.8 mm
MSE4075	Round Adaptor for 15 ml Falcon tube	1 x Φ 16.9 mm
MSE4077	Round Adaptor without bottom for skirted, conical-bottom 50 ml Greiner tube	1 x Φ 30 mm
MSE4077C	Round Adaptor for 50 ml Falcon® tube and 50 ml Nalgene tube (MSE3251 bucket) or for 50ml Nalgene tube (MSE3252C bucket) with rubber pad MSE4239	1 x Φ 30 mm
MSE4078	Round carrier (1 x 17mm) for 15ml Falcon® tube	
MSE4079	Round Adaptor for round-bottom glass 50 ml tube	1 x Φ 35.5 mm
MSE4080	Round Adaptor for round-bottom 7 ml tubes	12 x Φ 58 mm
MSE4086	Round Adaptor for round-bottom 15 ml Nalgene tube	1 x Φ 17 mm
MSE4087	Round Adaptor for round-bottom 5 ml tube	1 x Φ 14 mm
MSE4094	Round Adaptor for round-bottom 5 ml tube	1 x Φ 13 mm
MSE4124	Round Adaptor for round-bottom 10 ml and S-Monovette 7.5 ml tube	1 x Φ 17 x 86 mm
MSE4133	Round Adaptor without bottom	1 x Φ 13.3 mm
MSE4135	Round Adaptor without bottom for 0.5 ml tube	1 x Φ 8 mm
MSE4151C/A	Round Adaptor for round-bottom glass 100 ml tube with rubber pad MSE4239	1 x Φ 45 mm
MSE4151C/B	Round Adaptor for round-bottom PP 100 ml tube with rubber pad 14196	1 x Φ 45 mm
MSE4177	Round Adaptor for conical-bottom 0.4 ml tube	1 x Φ 5.8 mm
MSE4184	Round Adaptor for round-bottom 0.2 ml tube	1 x Φ 6.2 mm
MSE4239	Rubber pad under 100/50/30/25ml glass tube	-
MSE4247	PP pad under 100 ml PP tube	-
MSE4275	Round Adaptor for round-bottom or skirted, conical-bottom 30 ml Sterilin tube	1 x Φ 25.8 mm
MSE4277	Round Adaptor for skirted, conical-bottom 50 ml Greiner tube	1 x Φ 30 mm
MSE4299	Round Adaptor without bottom for 28 ml Nalgene tube	1 x Φ 25.6 mm
MSE4306	Round Adaptor without bottom for 15 ml Nalgene tube	1 x Φ 13 mm
MSE4307	Round Adaptor without bottom for 15 ml Nalgene tube	1 x Φ 17 mm
MSE4240C	Round Adaptor for 50 ml Falcon tube or Nalgene tube with rubber pad MSE4239	1 x Φ 30 mm
MSE4241C	Round Adaptor for conical-bottom 30/25ml tube with rubber pad MSE4239	1 x Φ 25.5 mm
MSE4243C	Round Adaptor for round-bottom or conical-bottom 50 ml tube with rubber pad MSE4239	1 x Φ 35.5 mm
MSE6215	Hematocrit reader -round	-

OUR RANGE OF MICRO & SMALL CENTRIFUGES



KESTREL

The Kestrel is a small compact non-refrigerated benchtop centrifuge capable of spinning 6 blood tubes at over 3000 x g. Reliable, compact and easy to use, the Kestrel centrifuge is the perfect addition to any medical environment where a small number of blood tubes need to be processed quickly and efficiently.



MICRO CENTAUR

Small centrifuge, ventilated, table laboratory centrifuge, intended for basic applications and sample preparation. With minimal dimensions it provides the ease of use, allowing for quick and accurate separation of various liquid. It was designed specifically for the needs of small medical laboratories and veterinary clinics or cabinets, in which you can often centrifuge from one to several tubes at the same time. Only dedicated for 1.5/2ml and capillaries tubes and pcr strips.



MICRO CENTAUR R

One of the smallest microcentrifuges with the cooling option on the market. Ease of use, functionality and wide possibilities of centrifuge control ensure its rich spectrum of application possibilities, as well as versatility of use in many industries. The possibility to set the temperature of +4°C in less than 6 minutes works, among others, during requiring clinical examinations in medical, scientific, biochemical or veterinary laboratories.



HAWK

The Hawk is designed to be used in a wide variety of life science applications, especially biochemical and genetic research, with maximum g forces of up to 23,140 and **maximum capacity of 4 x 100ml**.

More than 80 years in the centrifuge industry

WARRANTY : 24 months of warranty +extended warranty

CUSTOMER ORIENTED: Immediate assistance to any inquiries and claims

QUALITY : MSE products comply with all applicable safety regulations and are compliant with IVD. MSE manufactures according to the best quality management systems, including ISO 9001 and ISO 13485



Technical Data

Height (mm)	315 mm
Width (mm)	365 mm
Depth (mm)	660 mm
Weight (kg) 230V/120V	52 kg
Maximum capacity	500 ml
Maximum speed	18 000 RPM
Maximum RCF	24 270 xg
Timer	1 second to 99 hours 99 minutes 59 seconds, 1s step, or continuous
Noise output	≤60 dB
Number of acceleration rates	10
Number of brake rates	10
Number of programs	99
Min. acceleration time	7 s
Min. braking time	8 s
Display	Digital Led
Motor	Brushless induction drive
Safety features	Automatic lid lock, motor over-heat and over speed protection, rotor recognition, imbalance cut out, keypad lock, etc.
Temperature control range	-20°C to +40°C
Power	600 W
Power supply	230V, 10A, single phase, 50/60Hz 110V, 10A, single phase, 60Hz
Catalogue number	230V, 50/60Hz MSB050.CR3.5 110V, 60Hz MSB050.CR3.1

All MSE centrifuges comply with the latest European safety and environmental standards.
Our centrifuges are also fully RoHS compliant.

