



Refrigerated Centrifuge **3-30KS**

SIGMA 3-30KS

No. 10375 (220 - 240 V, 50 Hz), No. 10376 (220 - 240 V, 60 Hz), No. 10377 (208 V, 60 Hz), No. 10378 (200 V, 50/60 Hz)

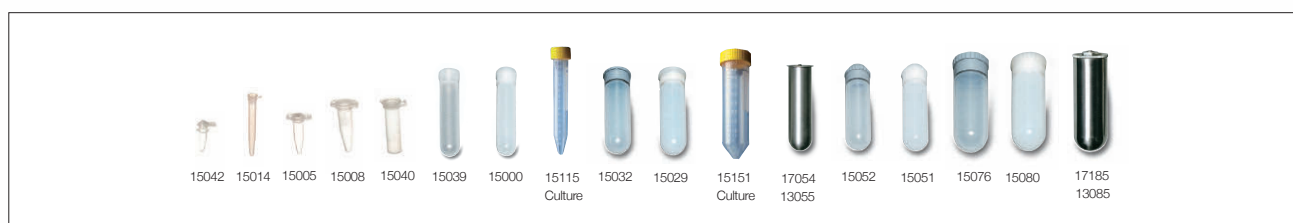
- *High speed refrigerated bench top centrifuge for max. speed 30.000 rpm, gravitational fields up to more than 65.000 x g*
- *Spincontrol S*
- *Only 57 cm wide*
- *Brushless drive practically maintenance free*
- *Reliable drive system*
- *A microcontroller controls time, temperature, speed or g-force*
- *Illuminated symbol keys start, stop, lid open*
- *Window in the centrifuge lid for external speed control*
- *Very low noise level*
- *Possibility of precooling rotors during standstill, refrigerant R404a, (CFC-free)*
- *Lid can easily be opened due pneumatic spring support*
- *Two motorized lid locks*
- *Magnetic rotor identification prevents the rotor from overspeeding*
- *Stainless steel bowl*
- *Imbalance switch*
- *Needless to open the casing for emergency lid lock release*
- *Produced according to national and international safety regulations (e.g. EN 61010-2-020)*

SIGMA 3-30KHS

Spincontrol Comfort No. 10379 (230 V, 50 Hz)

- *Heated version of 3-30KS*
- *Max. rotor temperature +40°C up to +60°C, depending on rotor and speed*
- *All other technical data like 3-30KS*





3-30KS					Adapter		
Rotor No.	Capacity	Tube No.	max. rpm	max. RCF	No.	Adapter	Tube No.
12115	12 x 8 x 0.2 ml PCR	15042	16.400	29.468			
12110	12 x 1.5 – 2.0 ml	15008, 15040	30.000	65.403	13021	0.25 – 0.4 ml	15042
12154	24 x 1.5 – 2.0 ml	15008, 15040	26.000	61.973	13000	0.4 ml	15014
12131	30 x 1.5 – 2.0 ml	15008, 15040	20.000	44.720	13002	0.5 – 0.75 ml PCR	15005
12349	48 x 1.5 – 2.0 ml	15008, 15040	15.000	25.155	13003	1.5 ml > 20.000 x g	15008
12111	10 x 10 ml	15000, 15039	26.000	57.438			
12157	20 x 10 ml	15000, 15039	16.000	28.048			
12171	12 x 15 ml Culture	15115	13.500	20.172			
12158	6 x 30 ml	15032, 15029	26.200	60.628	13059	10 ml	15000, 15039
19776	6 x 50 ml Culture	15151	14.000	20.379	13060	15 ml Culture	15115
					13079	50 ml	15051, 15052
12150	6 x 50 ml	13055, 15051, 15052	21.000	41.415	16018	15 ml Glass	15085
12156	8 x 50 ml	13055, 15051, 15052	16.500	29.220	16030	30 ml Glass	15086
12155	4 x 85 ml	13085, 15076, 15080	20.000	40.695	13084	10 ml	15000, 15039)
					16019	15 ml Glass	15085
12159	6 x 85 ml	13085, 15076, 15080	15.500	26.323	13081	15 ml Culture	15115
					13083	30 ml	15029, 15032
					16031	30 ml Glass	15086
					13080	50 ml Culture	15151
					13082	50 ml	15051, 15052

All rotors with hermetic aluminium lid

Swing-out rotor No. 11390

3-30KS

Rotor No.		max. rpm	max. RCF
11390 + 2 x 13009		5.000	3.158

Bucket No.		Tube No.
13009	5 x 5 ml, Hemolyse	15060

3-30KS

Rotor No.		max. rpm	max. RCF
11390 + 2 x 13012		5.000	3.745

Bucket No.		Tube No.
13012	4 x 15 ml, Monovette	15020

Adapter No.	Adapter	Tube No.
13070	1 x 5 ml, Vacutainer	
13071	1 x 5 ml, Hemolyse	
13072	1 x 4 - 7 ml	15007

3-30KS

Rotor No.		max. rpm	max. RCF
11390 + 2 x 13042		5.000	3.717

Bucket No.		Tube No.
13042	6 x 15 ml, Monovette	15020

Adapter No.	Adapter	Tube No.
13070	1 x 5 ml, Vacutainer	
13071	1 x 5 ml, Hemolyse	
13072	1 x 4 - 7 ml	15007

3-30KS

Rotor No.		max. rpm	max. RCF
11390 + 2 x 13152		5.000	3.997

Bucket No.		Tube No.
13152	2 x 15 ml, Culture	15115

3-30KS

Rotor No.		max. rpm	max. RCF
11390 + 2 x 13150		5.000	4.025

incl. cap No. 17151

Bucket No.		Tube No.
13150	1 x 50 ml, Culture	15151

Adapter No.	Adapter	Tube No.
13060	1 x 15 ml, Culture	15115

3-30KS

Rotor No.		max. rpm	max. RCF
11390 + 2 x 13097		5.000	3.773

Bucket No.		Tube No.
13097	1 x 100 ml	15100



13012



13042



11390



13152



13150



13097



17130



13041



14032



14031



14034

14033



11391



11392

3-30KS

Bucket No.	max. rpm	max. RCF
11390 + 2 x 13041	5.000	3.913

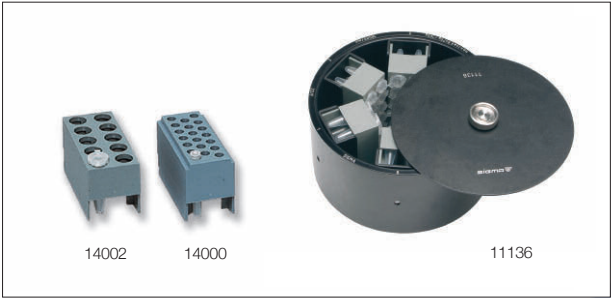
Adapter for bucket No. 13041, sealable with cap No. 17130
1 set = 2 pcs

No.	Adapter	Tube No.
14036	4 x Microtainer	
14028	4 x 1.5 - 2 ml	15008, 15040
14029	5 x 5 - 7 ml, Hemolyse	15007
14033	4 x 5 - 7 ml, Vacutainer	15060
14030	4 x 10 - 15 ml	15000
14034	3 x 15 ml, Monovette	15015
14035	1 x 30 ml, Sterilin	
14031	1 x 25 - 30 ml	15025
14032	1 x 50 ml	15050

Swing-out rotor 4 x 100 ml No. 11391
(11390 + 2 x 13097 + 4 x 15100)

Swing-out rotor 16 x 15 ml No. 11392
(11390 + 2 x 13012 + 16 x 15023)

MTP Swing-out rotor		
3-30KS		
Rotor	max.	max.
No.	rpm	RCF
11222	3.000	1.218
max. H. = 56 mm		
0.2 – 2.0 ml Drumrotor		
3-30KS		
Rotor	max.	max.
No.	rpm	RCF
11136	16.000	20.035
Capacity: 3 x Adapterset		
No.	Adapter	Tube No.
14021	8 x 4 x 0.2 ml PCR, strips	15042
14020	10 x 0.2 – 0.5 ml PCR	15005
14000	20 x 0.25 – 0.4 ml Reaction vials	15014
14002	10 x 1.5 – 2.0 ml Reaction vials	15008, 15040



Created during production. Centrifuge with one rotor	
	Sigma 3-30KS
Calibration certificate for speed and time	No. 17714
Calibration certificate for temperature speed and time	No. 17715
IQOQ	No. 17711
For a further rotor	No. 17712

Spincontrol S



Spincontrol S

Display	TFT
Plain text pop up windows	+
Permanent display preselected, actual values	+
Display shows dimensions	+
Languages	     
Timer	10 sec - 99 h 59 min
Timing after set speed has been reached, switchable	+
Time increments [sec]	60;1
Short run	+
Continuous run	+
Speed increments [rpm]	10;1
Display speed and g-force	+
g-force increments [xg]	10;1
Temperature increments [°C]	1
Switchable °C, °F	+
Standstill cooling, switchable	+, +
Standstill heating, switchable ¹	+, +
Rapid cooling program: Rapid_temp	+
Start refused with exceeded temperature tolerance, tolerance preselectable	+
Programs	60
User defined program name	+
Program list shows all parameters	+, +
Linear acceleration curves	10
Quadratic acceleration curves	10
User defined acceleration curves	10
Linear deceleration curves	10
Quadratic deceleration curves	10
User defined deceleration curves	10
Brakeless	+
Combination deceleration a. brakeless from 1000 - 150 rpm selectable	+
Auto lid open, switchable	+, +
Acoustic signal, switchable	+, +
Signal length preselectable	+
Optical display standstill	+
Monitoring of rotor cycles	+, +
Pop up window end of rotor life time	+
Automatic lid opening at the end of the run, switchable	+, +
All rotors preprogrammed speed, g-force, radius	+
Max. radius decreasable	+
Calculation for liquid density >1.2 g/cm ³	+
Start delay	+
Control unit lockable	+
Code protection	+
Run monitoring	+
Microprocessor controlled	+

¹ only 3-30KHS



17923 Trolley
(w x d x h) (570 x 616 x 481 mm)

Technical data	3-30KS
Power consumption [W]	1260
Max. capacity [ml]	6 x 85
Max. speed [rpm]	30.000
Min. speed [rpm]	100
Interference suppression	EN 61326
Height x Width x Depth [mm]	464 x 570 x 643
Height with open lid [mm]	890
Weight without rotor [kg]	100
Kinetic energy max. [Nm]	43.753
Noise level at max. speed (approx.)	
Rotor 11390 at 5.000 rpm	59 dB (A)
Rotor 12158 at 26.200 rpm	63 dB (A)
Max. acceleration rotor 12110 [sec]	37
rotor 12158 [sec]	54
Max deceleration rotor 12110 [sec]	57
rotor 12158 [sec]	57
Temperature setting range	-20°C – +40°C
Min. rotor temperature *)	
Rotor 11190 5.000 rpm *) [°C]	< 0
Rotor 12158 22.000 rpm *) [°C]	< 4

* at 23 °C ambient temperature



MADE IN GERMANY



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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