



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)

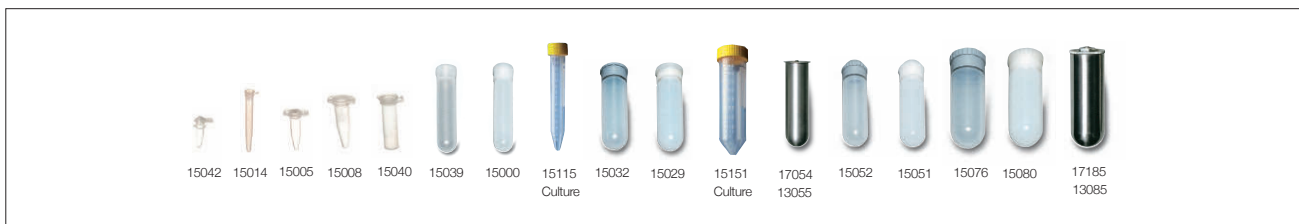
- *High speed refrigerated bench top centrifuge for max. speed 30.000 rpm, gravitational fields up to more than 65.000 x g*
- *Spincontrol S*
- *Only 57 cm wide*
- *Brushless drive practically maintenance free*
- *Reliable drive system*
- *A microcontroller controls time, temperature, speed or g-force*
- *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*





Rotor No.	Capacity	Tube No.	3-30KS		Adapter		
			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
					13081	15 ml Culture	15115
12159	6 x 85 ml	13085, 15076, 15080	15.500	26.323	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	15060

3-30KS

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

Bucket No.	Tube No.
13012	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	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	15115

3-30KS

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

Bucket No.	Tube No.
13150	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	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

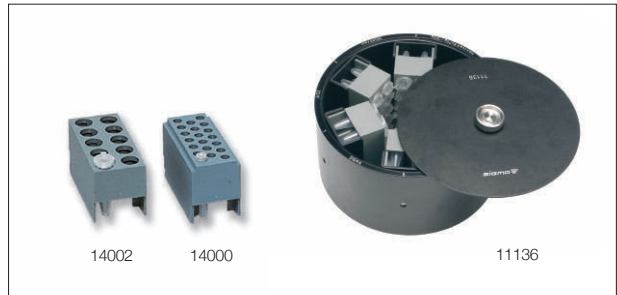
Adapter for bucket No. 13041, sealable with cap No. 17130
1 set = 2 pcs

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		
<i>Rotor</i>	<i>max.</i>	<i>max.</i>
<i>No.</i>	<i>rpm</i>	<i>RCF</i>
11222	3.000	1.218
max. H. = 56 mm		
0.2 – 2.0 ml Drumrotor		
3-30KS		
<i>Rotor</i>	<i>max.</i>	<i>max.</i>
<i>No.</i>	<i>rpm</i>	<i>RCF</i>
11136	16.000	20.035
Capacity: 3 x Adapterset		
<i>No.</i>	<i>Adapter</i>	<i>Tube No.</i>
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
<i>Calibration certificate for speed and time</i>	No. 17714
<i>Calibration certificate for temperature speed and time</i>	No. 17715
<i>IQOQ</i>	No. 17711
<i>For a further rotor</i>	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



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