



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)

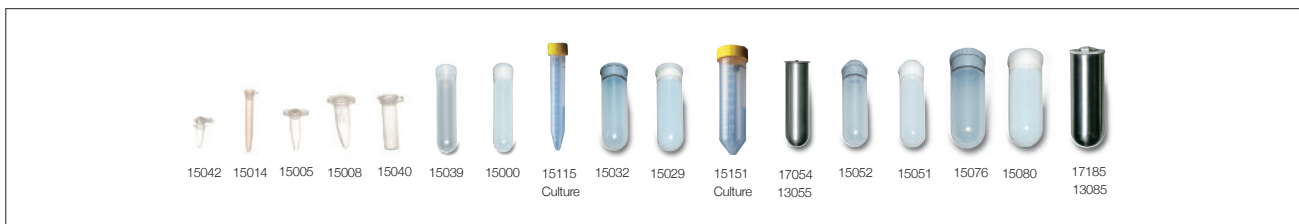
- High speed refrigerated bench top centrifuge for max. speed 30,000 rpm, gravitational fields up to more than 65,000 x g
- Spincontrol S
- Only 57 cm wide
- Brushless drive practically maintenance free
- Reliable drive system
- A microcontroller controls time, temperature, speed or g-force
- Illuminated 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.	max. rpm	max. RCF	Adapter		
					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			
<i>Rotor No.</i>		<i>max. rpm</i>	<i>max. RCF</i>
11390 + 2 x 13009		5,000	3,158
<i>Bucket No.</i>		<i>Tube No.</i>	
13009	5 x 5 ml , Hemolyse	15060	
<i>Rotor No.</i>		<i>max. rpm</i>	<i>max. RCF</i>
11390 + 2 x 13012		5,000	3,745
<i>Bucket No.</i>		<i>Tube No.</i>	
13012	4 x 15 ml , Monovette	15020	
<i>Adapter No.</i>	<i>Adapter</i>	<i>Tube No.</i>	
13070	1 x 5 ml , Vacutainer		
13071	1 x 5 ml , Hemolyse		
13072	1 x 4 - 7 ml	15007	
<i>Rotor No.</i>		<i>max. rpm</i>	<i>max. RCF</i>
11390 + 2 x 13042		5,000	3,717
<i>Bucket No.</i>		<i>Tube No.</i>	
13042	6 x 15 ml , Monovette	15020	
<i>Adapter No.</i>	<i>Adapter</i>	<i>Tube No.</i>	
13070	1 x 5 ml , Vacutainer		
13071	1 x 5 ml , Hemolyse		
13072	1 x 4 - 7 ml	15007	
<i>Rotor No.</i>		<i>max. rpm</i>	<i>max. RCF</i>
11390 + 2 x 13152		5,000	3,997
<i>Bucket No.</i>		<i>Tube No.</i>	
13152	2 x 15 ml , Culture	15115	
<i>Rotor No.</i>		<i>max. rpm</i>	<i>max. RCF</i>
11390 + 2 x 13150		5,000	4,025
incl. cap No. 17151			
<i>Bucket No.</i>		<i>Tube No.</i>	
13150	1 x 50 ml , Culture	15151	
<i>Adapter No.</i>	<i>Adapter</i>	<i>Tube No.</i>	
13060	1 x 15 ml , Culture	15115	
<i>Rotor No.</i>		<i>max. rpm</i>	<i>max. RCF</i>
11390 + 2 x 13097		5,000	3,773
<i>Bucket No.</i>		<i>Tube No.</i>	
13097	1 x 100 ml	15100	



<i>Bucket No.</i>		<i>max. rpm</i>	<i>max. RCF</i>
11390 + 2 x 13041		5,000	3,913
Adapter for bucket No. 13041, sealable with cap No. 17130 1 set = 2 pcs			
<i>No.</i>	<i>Adapter</i>	<i>Tube No.</i>	
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

Rotor No.	max. rpm	max. RCF
11222	3,000	1,218

max. H. = 56 mm

0.2 – 2.0 ml Drumrotor

Rotor No.	max. rpm	max. RCF
11136	16,000	20,035

Capacity: 3 x Adapterset

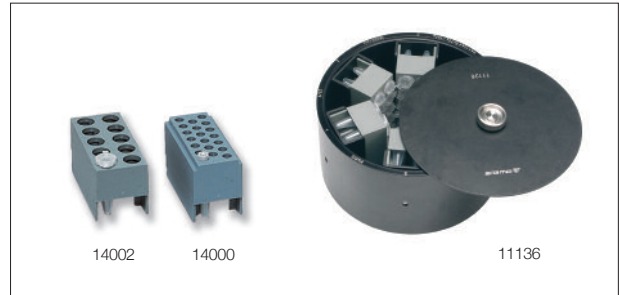
Rotor No.	Adapter	Tube No.
14021	8 x 4 x 0.2 ml PCR, strips	15042
14020	10 x 0.2 – 0.5 ml PCR	15005
14000	20 x 0.25 – 0.4 ml Reaction vials	15014
14002	10 x 1.5 – 2.0 ml Reaction vials	15008, 15040

4 x 10 ml Swing-out rotor

Rotor No.	max. rpm	max. RCF	Tube No.
11134	10,000	10,956	15000, 15039



11222



14002

14000

11136



11134

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
IQQQ	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 - 100 rpm selectable	+
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	+
Centrifugation 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]	1,350
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]	43,750
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 11390 5.000 rpm *) [°C]	< 0
Rotor 12158 22.000 rpm *) [°C]	< 4

* at 23 °C ambient temperature

MADE IN GERMANY



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