

По вопросам продаж и поддержки обращайтесь:

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Единый адрес: [smg@nt-rt.ru](mailto:smg@nt-rt.ru) | <http://www.sigma.nt-rt.ru>



*Sigma Refrigerated  
Floor Standing Centrifuge*

**8KS**

# Sigma 8KS

No. 10621 (3 x 400 V / 50 Hz) air cooled; No. 10622 (3 x 220 V / 60 Hz) air cooled;

No. 10623 (3 x 400 V / 50 Hz) water cooled, GMP; No. 10620 (3 x 400 V / 60 Hz) air cooled

- Compact refrigerated floor standing centrifuge for universal use in blood banks, clinical laboratories and research
- Capacity up to 6 l in angle rotor; 12 x 1 l, 6 x 1.5 l or 12 blood bags in swing-out rotor
- Solid construction, suitable for continuous use
- Maintenance-free drive, high imbalance tolerance up to approx. 80 g, imbalance switch
- Speed range 100 – 10,500 rpm
- Automatic rotor identification prevents overspeeding of rotors
- Efficient refrigerating machine; temperature adjustable between –20 °C and +40 °C, standstill cooling, refrigerant R404a
- Stainless steel bowl
- Lid hinged on the left
- Centrifuge lid opens easily via pneumatic springs
- Two motorized lid locks provide security
- Emergency lid release in case of a power failure
- Ergonomic loading height of only 88 cm
- User friendly control unit integrated in the front panel
- Window in the centrifuge lid for external speed control
- Centrifuge needs a door opening of only 82 cm
- Centrifuge stands on movable castors and adjustable feet to even out the floor
- Easily serviceable
- All international standards are met, e.g. EN 61010-2-020
- Guaranteed 4°C at max. speed with all rotors

## Options

- RS 232 No. 71003
- Connection for external signal No. 17701 DC 24V, max. 0,5A;  
Potential free contact for external signal No. 17702 max. 250V, 6A
- Inert gas injection with analysis of the oxygen content in the exhaust emission





12505



12510

<i>Rotor No.</i>	<i>Capacity</i>	<i>Hermetic lid No.</i>	<i>Tube No.</i>	<i>max. rpm</i>	<i>max. RCF</i>
12505	6 x <b>500 ml</b>	17891	13507, 15508	10.500	20.461
	<i>Adapter No.</i>		<i>Rotor capacity</i>		<i>Tube No.</i>
	14151 12 x <b>1.5 – 2.0 ml</b>		72		15008, 15040
	14144 8 x <b>10 ml</b>		48		15000, 15010, 15039
	14149 5 x <b>15 ml</b> culture		30		15115
	14146 3 x <b>30 ml</b>		18		15029, 15030, 15032
	14150 2 x <b>50 ml</b>		12		15051, 15052
	14148 2 x <b>50 ml</b> culture		12		15151
	14153 1 x <b>85 ml</b>		6		13085, 15076, 15080
	14157 1 x <b>250 ml</b> conical		6		15175, Nunc 376813, Nalge 3143-0175
	14155 1 x <b>250 ml</b>		6		13255, 15247, 15249

<i>Rotor No.</i>	<i>Capacity</i>	<i>Hermetic lid No.</i>	<i>Tube No.</i>	<i>max. rpm</i>	<i>max. RCF</i>
12510	6 x <b>1000 ml</b>	17892	13510, 15921	7.000	11.285
	<i>Adapter No.</i>		<i>Rotor capacity</i>		<i>Tube No.</i>
	14162 26 x <b>1.5 – 2.0 ml</b>		156		15008, 15040
	14164 19 x <b>10 ml</b>		114		15000, 15010, 15039
	14165 12 x <b>15 ml</b> culture		72		15115
	14167 8 x <b>30 ml</b>		48		15029, 15030, 15032
	14169 7 x <b>50 ml</b>		42		13055, 15051, 15052
	14171 5 x <b>50 ml</b> culture		30		15151
	14174 3 x <b>85 ml</b>		18		13085, 15076, 15080
	14177 1 x <b>200 ml</b> conical		6		15175
	14178 1 x <b>250 ml</b>		6		13255, 15247, 15249
	14180 1 x <b>500 ml</b>		6		13507, 15508
	14182 1 x <b>500 ml</b> conical		6		Corning No. 432123

<i>Rotor No.</i>	<i>max. rpm</i>	<i>max. RCF</i>
11805 + 3 x 13850; 6 Adapter	5.100	8.578
11806 + 3 x 13850; 6 Adapter	3.700	4.515
11806 + 3 x 13855; 12 Adapter	3.300	3.579

13850 Round bucket 1500 ml, sealable with cap No. 17175, internal Ø 115 mm  
 13855 Double bucket 2 x 1000 ml, internal Ø inside 100 mm

**Inserts for internal Ø 115 mm**

<i>No.</i>	<i>Adapter</i>	<i>Tube No.</i>
17775	19 x <b>15 ml</b> culture	15115
17777	8 x <b>50 ml</b> culture	15151
-	1 x <b>1.300 ml</b>	13840
-	1 x <b>1.500 ml</b>	15931

**Reducing bush internal Ø 115 mm to 100 mm No. 13851  
 Adapter for internal Ø inside 100 mm**

<i>No.</i>	<i>Adapter</i>	<i>Tube No.</i>
17653	26 x <b>1.5 – 2.0 ml</b>	15008, 15040
17651	20 x <b>4 – 7 ml</b>	Monovettes
17652	36 x <b>5 ml</b>	15060 RIA, hemolysis
17656	22 x <b>5 – 6 ml</b>	15060 RIA, Vacutainer, hemolysis
17654	23 x <b>7 ml</b>	15007, 15027
17655	20 x <b>10 – 12 ml</b>	15000, 15010, 15039
17658	19 x <b>9 – 15 ml</b>	15015, 15020, 15022 Monovettes
17659	12 x <b>15 ml</b> culture	15015 cap max. Ø 23 mm
17660	15 x <b>15 ml</b> culture	15015 cap max. Ø 22 mm
17670	8 x <b>25 – 30 ml</b>	15025, 15026, 15030, 15032
17676	7 x <b>40 – 50 ml</b>	13055, 15051, 15052, 15054
17675	4 x <b>50 ml</b>	15049, 15050, 15056
17677	5 x <b>50 ml</b> culture	15151
17678	5 x <b>50 ml</b> culture <sup>1</sup>	
17685	3 x <b>78 – 85 ml</b>	13085, 15075, 15080
17690	2 x <b>100 ml</b>	15100, 15102, 15103, 15106
17692	1 x <b>125 ml</b>	15125
17695	1 x <b>175 – 250 ml</b>	15201, 15206, 15250, 15251
17694	1 x <b>200 – 250 ml</b> <sup>2</sup>	Corning No. 430776
17696	1 x <b>200 ml</b>	15202
17698	1 x <b>250 ml</b>	13255, 15247, 15249
17682	1 x <b>500 ml</b> <sup>2</sup>	Corning No. 432123
13851	1 x <b>1.000 ml</b> stainless steel	13510

**Reducing bush internal Ø 115 mm to 98 mm: No. 13851 + 13511  
 Reducing bush internal Ø 100 mm to 98 mm: No. 13511**

1 x **1.000 ml** Plastic No. 15921

<i>Rotor No.</i>	<i>max. rpm</i>	<i>max. RCF</i>
11805 + 3 x 13845	5.100	7.270
11806 + 3 x 13845	3.700	3.826

13845 Bucket for microtiter, deepwell, filter plates, max. H = 110 mm incl. unloading tool No. 17981

<sup>1</sup> with rim  
<sup>2</sup> conical



# Blood bags



11806



11805

Wind shield rotor

1 set = 2 pcs.

**13860** Double bucket for blood bags  
incl. adapter 13865

Rotor No.	max. rpm	max. RCF
11805 + 3 x 13860	4.100	5.394
11806 + 3 x 13860	3.700	4.393

No.	Adapter	Tube No.
13866	2 x Blood bags 500 ml	
13865	2 x Blood bags 320 – 400 ml	
17750	Adapter for smaller bags or reduced filling	
17765	Substitute for blood bag in 13865	
17766	Substitute for blood bag in 13866	



13865

13866

17750

13860


# Spincontrol S



## Created during production. Centrifuge with one rotor

	<b>Sigma 8KS</b>
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

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	+
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	+, +
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 and brakeless from 1000 - 100 rpm selectable	+
Acoustic signal, switchable	+, +
Signal length preselectable	+
Optical display standstill	+
Counting cycles centrifuge, each rotor	+, +
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 reducible	+
Calculation for liquid density >1.2 g/cm <sup>3</sup>	+
Start delay	+
Control unit lockable	+
Code protection	+
Run monitoring	+
Microprocessor controlled	+



*Delivery without micro centrifuge*

<b>Technical data</b>	
Power consumption [kW]	6.5
Max. capacity [l]	12
Max. speed [rpm]	10,500
Min. speed [rpm]	100
Interference suppression	EN 61326
Dimensions: Height x Width x Depth [mm]	980 x 810 x 910
Height with open lid [mm]	1690
Weight without rotor [kg]	420
Kinetic energy max. [K Nm]	279
Noise level at max. speed (approx.)	
Rotor 11805 [dB (A)]	69
Rotor 12505 [dB (A)]	73
Max. acceleration Rotor 11805 [sec]	81
Rotor 12505 [sec]	80
Max deceleration Rotor 11805 [sec]	59
Rotor 12505 [sec]	75
Temperature setting range	-20°C – +40°C
Min. rotor temperatur *) [°C]	< 4

\* at 23 °C ambient temperature

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