



**LABORATORY HIGH SPEED REFRIGERATED
CENTRIFUGE BCBHR-310**

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BCBHR-310

FLOOR STANDING HIGH SPEED LARGE CAPACITY REFRIGERATED CENTRIFUGE



SPECIFICATIONS

Model	BCBHR-310
Swing-Bucket Rotors	
--Max. Capacity	4 x 750 ml
--Max. Speed	4 500 rpm with 4 x 250 ml rotor
--Max. RCF	3 720 Xg with 4 x 250 ml rotor
Fixed-Angle Rotors	
Control System	Microprocessor via user-intuitive touchscreen interface control
Refrigeration System	CFC-Free
Drive System	Direct, induction motor drive (Inverter Control)
Display	Full color touchscreen interface
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion
Programmability	via easy access touchscreen menu
Program Storage	1 000 user-defined
Running Time	1s - 99h:59min:59s, Short
Timer	Count up or down
Speed Accuracy	± 10 r/min
Accel/Decel Profiles	40/40
Temp. Control Range	-20 °C to +40 °C
Temp. Accuracy	± 1 °C
Noise Level	≤ 60 dB(A)
Power Supply	AC 200-240 V, 50/60 Hz or AC 100-127 V, 50/60 Hz
Max. Power Consumption	1.8 KW
Safety Device	Rotor identification system with overspeed protection, imbalance protection, overcurrent protection, lid interlock system, lid open/close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guard ring, steel lid, etc.
Dimension (W x D x H)	26.8 x 24.4 x 33 in / 68 x 62 x 84 cm
Weight w/o Rotor	353 lb / 160 kg
Alt Name	Floor Standing High Speed Large Capacity Refrigerated Centrifuge

ACCESSORIES FOR PURCHASE

No	Name	Rotor Capacity (places x volume, ml)	Tube Size (Φ x L in mm)	Max Speed (rpm)	Max RCF (g)
1	No. 1 Fixed-Angle Rotor	12 x 1.5/2.0 ml (with adapters for 0.2/0.5 ml tube)	Φ11 x 42	22 000 rpm	33 820 Xg
2	No. 2 Fixed-Angle Rotor	12 x 5 ml	Φ14 x 54	17 000 rpm	23 460 Xg
3	No. 3-1 Fixed-Angle Rotor	24 x 1.5/2.0 ml	Φ11 x 42	16 500 rpm	26 360 Xg
4	No. 3-2 Fixed-Angle Rotor	24 x 1.5/2.0 ml (with adapters for 0.2/0.5 ml tube)	Φ11 x 42	18 000 rpm	31 370 Xg
5	No. 4-1 Fixed-Angle Rotor	12 x 10 ml	Φ16 x 86	15 000 rpm	20 800 Xg
6	No. 4-2 Fixed-Angle Rotor	36 x 1.5/2.0 ml (with adapters for 0.2/0.5 ml tube)	Φ11 x 42	15 000 rpm	20 800 Xg
7	No. 4-3 Fixed-Angle Rotor	8 x 15 ml	Φ17 x 121	15 000 rpm	20 800 Xg
8	No. 5-1 Fixed-Angle Rotor	6 x 50 ml (conical) a)	Φ29 x 116	13 000 rpm	18 420 Xg
9	No. 5-2 Fixed-Angle Rotor	48 x 1.5/2.0 ml (with adapters for 0.2/0.5 ml tube)	Φ11 x 42	13 000 rpm	18 420 Xg
10	No. 5-3 Fixed-Angle Rotor	6 x 50 ml (round) a)	Φ29 x 111	13 000 rpm	18 420 Xg
11	No. 6-1 Fixed-Angle Rotor	4 x 100 ml a)	Φ38 x 123	11 000 rpm	13 350 Xg
12	No. 6-2 Fixed-Angle Rotor	8 x 50 ml (conical) a)	Φ29 x 116	11 000 rpm	13 350 Xg
13	No. 6-3 Fixed-Angle Rotor	12 x 15 ml	Φ17 x 121	13 000 rpm	18 650 Xg
14	No. 6-4 Fixed-Angle Rotor	8 x 50 ml (round) a)	Φ29 x 111	14 000 rpm	20 820 Xg
15	No. 6-5 Fixed-Angle Rotor	24 x 10 ml a)	Φ16 x 86	11 000 rpm	13 350 Xg
16	No. 7 Swing-Bucket Rotor	2 x 3 pcs microplates (96 wells) or 2 x 3 pcs microtiter plates or 2 x 2 pcs cell culture plates or 2 x 1 pc deep well plates	Load dimensions (WxDxH) up to 128x87x60 mm	4 000 rpm	1 970 Xg
17	Rotor Cross	Order buckets, adapters separately	-	-	-
18	No. 8 Swing-Bucket Rotor 250 ml Round Buckets (set of 4)	4 x 250 ml	Φ63 x 111	4 500 rpm	3 720 Xg
19		4 x 100 ml	Φ38 x 114		
20		4 x 50 ml	Φ29 x 111-116		
21		8 x 50 ml (conical)	Φ29 x 116		
22		8 x 50 ml (round)	Φ29 x 111		
23		8 x 30 ml	Φ25.5 x 100		
24		20 x 15 ml	Φ17 x 121		
25		36 x 10 ml	Φ16.5 x 86-110		
26		20 x 5 ml (conical)	Φ17 x 60		
27		32 x 1.5/2.0 ml	Φ11 x 42		
28		32 x 2.0 ml	Φ10.8 x 44		
29		40 x 0.5 ml	Φ8 x 30		

30		20 x 10 ml virus sampling tube	Φ16 x 97-101		
31		28 x 4-10 ml blood collection/urine tube	Φ16 x 75-100/Φ15 x 75-102		
32		40 x 1.6-7 ml blood collection/urine tube	Φ13 x 75-100		
33	Conical Buckets (set of 4)	4 x 175/225 ml Falcon conical bottle	Φ61 x 118/137	4 000 rpm	3 100 Xg
34	Buckets (set of 4)	36 x 4-10 ml blood collection/urine tube	Φ16 x 75-100/Φ15 x 75-102		
35	Buckets (set of 4)	48 x 1.6-7 ml blood collection/urine tube	Φ13 x 75-100		
36	Buckets (set of 4)	64 x 1.6-7 ml blood collection/urine tube	Φ13 x 75-100		
37	Rotor Cross	Order buckets, adapters separately	-	-	-
38	No. 9-1 Swing-Bucket Rotor 500 ml Round Buckets (set of 4)	4 x 500 ml	Φ80 x 137	4 200 rpm	3 550 Xg
39	Adapters for 500 ml Round Buckets (sets of 4 for each)	4 x 250 ml	Φ63 x 111		
40		4 x 175/225 ml Falcon conical bottle	Φ61 x 118/137		
41		4 x 100 ml	Φ38 x 114		
42		16 x 50 ml (conical)	Φ29 x 116		
43		16 x 50 ml (round)	Φ29 x 111		
44		16 x 30 ml	Φ25.5 x 100		
45		36 x 15 ml	Φ17 x 121		
46		56 x 10 ml	Φ16.5 x 86-110		
47		36 x 5 ml (conical)	Φ17 x 60		
48		80 x 1.5/2.0 ml	Φ11 x 42		
49		100 x 2.0 ml	Φ10.8 x 44		
50		96 x 0.5 ml	Φ8 x 30		
51		20 x 10 ml virus sampling tube	Φ16 x 97-101		
52		56 x 4-10 ml blood collection/urine tube	Φ16 x 75-100/Φ15 x 75-102		
53		72 x 1.6-7 ml blood collection/urine tube	Φ13 x 75-100		
54	Rectangular Buckets (set of 4)	20 x 50 ml (conical)	Φ29 x 116		
55		20 x 50 ml (round)	Φ29 x 111		
56		20 x 30 ml	Φ25.5 x 100		
57		40 x 15 ml	Φ17 x 121		
58		40 x 5 ml (conical)	Φ17 x 60		
59		100 x 1.5/2.0 ml	Φ11 x 42		
60		100 x 2.0 ml	Φ10.8 x 44		
61		80 x 4-10 ml blood collection/urine tube	Φ16 x 75-100/Φ15 x 75-102		
62		112 x 1.6-7 ml blood collection/urine tube	Φ13 x 75-100		
63	Round Buckets (set of 4)	148 x 5 ml Radio-immunity tube	Φ13 x 75-100		
64	Round Buckets (set of 4)	96 x 1.6-7 ml blood collection/urine tube	Φ13 x 75-100		
65	Plate Buckets (set of 4)	4 x 2 pcs microplates (96 wells) or 4 x 2 pcs microtiter plates or 4 x 2 pcs cell culture plates or 4 x 1 pc deep well plates	Load dimensions (WxDxH) up to 128x87x60 mm		
66	No. 9-2 Swing-Bucket Rotor	4 x 250 ml Corning conical bottle or 4 x 200 ml Nunc, bottle	Φ60 x 164		

67	No. 10-1 Swing-Bucket Rotor	4 x 500 ml	Φ80 x 137	4 000 rpm	3 500 Xg
68	Adapters for 4 x 750 ml Rotor (sets of 4 for each)	4 x 250 ml	Φ63 x 111		
69		4 x 175/225 ml Falcon conical bottle	Φ61 x 118/137		
70		12 x 100 ml	Φ38 x 114		
71		28 x 50 ml (conical)	Φ29 x 116		
72		28 x 50 ml (round)	Φ29 x 111		
73		28 x 30 ml	Φ25.5 x 100		
74		28 x 25 ml (conical)	Φ29 x 78.5		
75		56 x 15 ml	Φ17 x 121		
76		72 x 10 ml	Φ16.5 x 86-110		
77		56 x 5 ml (conical)	Φ17 x 60		
78		96 x 1.5/2.0 ml	Φ11 x 42		
79		88 x 2.0 ml	Φ10.8 x 44		
80		96 x 0.5 ml	Φ8 x 30		
81		76 x 4-10 ml blood collection/urine tube	Φ16 x 75-100/Φ15 x 75-102		
82		96 x 1.6-7 ml blood collection/urine tube	Φ13 x 75-100		
83		148 x 5 ml Radio-immunity tube	Φ13 x 75-100		
84		4 x 30/50 ml Falcon, Cell Culture Flasks or 4 x 30/50 ml Corning Cell Culture Flasks	-		
85		8 x 40 ml Nunc, Cell Culture Flasks (T-25 cm ² Cell Culture Flasks)	-		
86		4 x 160 ml Nunc, Cell Culture Flasks (T-75 cm ² Cell Culture Flasks)	-		
87		4 x 200 ml Falcon, Cell Culture Flasks or 4 x 200 ml Greiner Cell Culture Flasks or 4 x 200 ml Nunc, Cell Culture Flasks	-		
88	No. 10-2 Swing-Bucket Rotor	4 x 500 ml Corning conical bottle	Φ96 x 147		
89	No. 11 Fixed-Angle Rotor	12 x 50 ml (conical) a)	Φ29 x 116	10 000 rpm	14 310 Xg



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