



HS-4
 Aluminum Rotor
 4-Place, 250 ml
 Swinging-Bucket
 Maximum Speed: 7,500 rpm
 K Factor: 3912
 Rotor Mass: 10.8 kg

	RCF (g)	R (cm)
Max.	10,826	17.23
Min.	4,536	7.22

		RC-28S	RC-26 Plus	RC-24 ¹	RC-5C Plus RC-5C ¹	RC-5B Plus RC-5B ¹ RC-5 ¹	RC-2B ¹ RC-2 ¹	SS-3 ¹ SS-4 ¹	RC-3B ¹ RC-3B Plus RC-3C ¹ RC-3C Plus
HS-4	Max Speed (rpm)	7,000	7,500	7,500	7,000	7,000	7,000	n/a	6,000
	(1pl) Max RCF (g)	9,430	10,826	10,826	9,430	9,430	9,430	n/a	6,929
	(4pl) Max RCF (g)	9,644	11,071	11,071	9,644	9,644	9,644	n/a	7,085
	(3pl) Max RCF (g)	9,343	10,725	10,725	9,343	9,343	9,343	n/a	6,864
	(24pl) Max RCF (g)	8,057	9,249	9,249	8,057	8,057	8,057	n/a	5,919

Catalog No. 38018

Notes

Includes:
 HS-4 Rotor
 Rotor Cover Assembly **38011**
 Rotor Extractor **01047**
 Rotor Cleaning Kit **12259**
 Instruction Manual **38028**

Buckets and carriers for rotor must be ordered separately.
 See following tables.

250 ml Bucket

Catalog No. **00479** (4/pkg)
 1-Place Aluminum Bucket for 3 ml to
 250 ml Tubes (62 × 100 mm)



00479

TUBES, BOTTLES

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOMINAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
250	200	Polyallomer Oak Ridge Bottle	7,500	60 × 120	54477 (6)	54421 (1) Delrin® Screw Cap	—	—		
250	250	Polypropylene Oak Ridge Bottle	7,500	61 × 124	03937 (12)	03278 (12) Polypropylene Sealing	—	—	Nonsealing Cap 03927 (12/pkg).	
250	250	Polycarbonate Oak Ridge Bottle	7,500	61 × 124	03939 (12)	03278 (12) Polypropylene Sealing	—	—	Nonsealing Cap 03927 (12/pkg).	
125	150	Corex®	5,000	53 × 118	03231 (1)	Included w/Bottle Polypropylene, Nonsealing	00372 (1)	1	Tube no longer available	
30	32	Corex® Tube	7,500	24 × 105	03163 (10)	—	00449 (1)	3	Tube no longer available	
15	—	Tissue Culture Tube, Conical	—	17 × 120	—	—	00456 (1)	5		
14	16	Pyrex® Tube	5,000	18 × 120	03111 (50)	—	00456 (1)	5		

⁽¹⁾Instrument no longer available.

(continued on next page)

*Sealing Assembly replacement parts may be available. See section E for availability.

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TUBES, BOTTLES FOR HS-4 (continued)

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOM-INAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
12	12	Polypropylene Flanged Tube	7,500	16 × 100	03116 (50)	03266 (50)	Polypropylene, Snap-on	00389 (1)	7	
12	12	Polycarbonate Flanged Tube	7,500	16 × 100	03115 (50)	03266 (50)	Polypropylene, Snap-on	00389 (1)	7	
10	—	Pyrex® Tube	—	13 × 100	—	—	—	00388 (1)	12	
5	6	Pyrex® Tube	5,000	12 × 75	03102 (50)	—	—	00388 (1)	12	
5	—	Standard Glass Tube	5,000	12 × 75	—	—	—	00388 (1)	12	
4	4	Polypropylene Flanged Tube	7,500	11 × 75	03105 (50)	03264 (50)	Polypropylene, Snap-on	00388 (1)	12	
4	4	Polycarbonate Flanged Tube	7,500	11 × 75	03104 (50)	03264 (50)	Polypropylene, Snap-on	00388 (1)	12	
4	—	Standard Glass Tube	5,000	10 × 75	—	—	—	00388 (1)	12	
3	3	Pyrex® Tube	5,000	10 × 75	03100 (50)	—	—	00370 (1) 00456 (1)	1 5	Adapters 00370 and 00456 must be used together.

B-2

3-Place Carrier

Catalog No. **00481** (1/pkg)
Culture Tubes



00481

TUBES

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOM-INAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
50	—	Tissue Culture Tube, Conical	—	30 × 115	—	—	—	—	—	
35	—	Polyallomer Nalgene® Conical Oak Ridge Tube	—	29 × 105	—	—	—	—	—	
35	—	Polycarbonate Nalgene® Conical Oak Ridge Tube	—	29 × 105	—	—	—	—	—	
15	—	Tissue Culture Tube, Conical	—	17 × 120	—	—	—	11148 (1)	1	

*Sealing Assembly replacement parts may be available. See section E for availability.

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TUBES, BOTTLES FOR HS-4 (continued)

4-Place Carrier

Catalog No. **00480** (1/pkg)

4-Place Aluminum Carrier for 50 ml Tubes



00480

TUBES, BOTTLES

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOMINAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
50	46	Polypropylene Flanged Tube	7,500	29 × 102	03147 (25)	03268 (25)	Polypropylene, Snap-on	—	—	
50	48	Polycarbonate Flanged Tube	7,500	29 × 102	03146 (25)	03268 (25)	Polypropylene, Snap-on	—	—	
50	56	Polyallomer Thin-Walled Tube	7,500	28 × 104	03139 (25)	—	—	—	—	
50	41	Polypropylene Oak Ridge Bottle	7,500	28 × 103	03530 (25)	03535 (25)	Polypropylene, Sealing	—	—	Nonsealing Cap 03926 (25/pkg) available.
50	38	Polycarbonate Oak Ridge Bottle	7,500	28 × 103	03480 (25)	03535 (25)	Polypropylene, Sealing	—	—	Nonsealing Cap 03926 (25/pkg) available.
50	50	Stainless Steel Flanged Tube	7,500	28 × 101	00517 (1)	00518 (1)	Stainless Steel Sealing	—	—	Requires Wrench 01014 for tube sealing.
50	50	Stainless Steel Tube	7,500	28 × 101	00579 (1)	00518 (1)	Stainless Steel Sealing	—	—	Requires Wrench 01014 for tube sealing.
35	—	Polyallomer Nalgene® Conical Oak Ridge Tube	—	29 × 105	—	—	—	See Notes	1	Requires Nalgene® adapter 3147-0050 .
35	—	Polycarbonate Nalgene® Conical Oak Ridge Tube	—	29 × 105	—	—	—	See Notes	1	Requires Nalgene® adapter 3147-0050 .
30	28	Polycarbonate Oak Ridge Bottle	7,500	25 × 94	03719 (25)	03276 (25)	Polypropylene, Sealing	00419 (1)	1	Nonsealing Cap 03925 (25/pkg) available.
30	28	Polypropylene Oak Ridge Bottle	7,500	25 × 94	03718 (25)	03276 (25)	Polypropylene, Sealing	00419 (1)	1	Nonsealing Cap 03925 (25/pkg) available.
30	32	Corex® Tube	7,500	24 × 105	03163 (10)	—	—	00368 (1)	1	
16	16	Polypropylene Flanged Tube	7,500	18 × 100	03244 (50)	03299 (50)	Polypropylene, Snap-on	00382 (1)	1	
16	17	Polycarbonate Flanged Tube	7,500	18 × 100	03243 (50)	03269 (50)	Polypropylene, Snap-on	00382 (1)	1	
15	17	Corex® Tube	7,500	18 × 102	03286 (25)	—	—	00363 (1)	1	
15	—	Tissue Culture Tube, Conical	—	17 × 120	—	—	—	00363 (1)	1	
12	14	Pyrex® Tube	5,000	18 × 102	03109 (50)	—	—	00363 (1)	1	

*Sealing Assembly replacement parts may be available. See section E for availability.

(continued on next page)

TUBES, BOTTLES FOR HS-4 (continued)

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOMINAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
12	12	Polypropylene Flanged Tube	7,500	16 × 100	03116 (50)	03266 (50)	Polypropylene, Snap-on	00402 (1)	1	
12	12	Polycarbonate Flanged Tube	7,500	16 × 100	03115 (50)	03266 (50)	Polypropylene, Snap-on	00402 (1)	1	
10	—	Pyrex® Graduated Tube, Conical	—	18 × 100	—	—	—	00367 (1)	1	
10	9.1	Polypropylene Oak Ridge Bottle	7,500	16 × 83	03929 (50)	03279 (25)	Polypropylene, Sealing	00425 (1)	1	Nonsealing Cap 03924 (25/pkg) available.
10	9.7	Polycarbonate Oak Ridge Bottle	7,500	16 × 83	03020 (25)	03279 (25)	Polypropylene, Sealing	00425 (1)	1	Nonsealing Cap 03924 (25/pkg) available.
10	11	Polyallomer Thin-Walled Flanged Tube	7,500	13 × 100	03124 (50)	—	—	00473 (1)	1	
10	—	Pyrex® Tube	—	13 × 100	—	—	—	00363 (1)	1	
7	7	Polycarbonate Flanged Tube	7,500	13 × 100	03120 (50)	03265 (50)	Polypropylene, Snap-on	00473 (1)	1	
7	7	Polypropylene Flanged Tube	7,500	13 × 100	03121 (50)	03265 (50)	Polypropylene, Snap-on	00473 (1)	1	
4	4	Polypropylene Flanged Tube	7,500	11 × 75	03105 (50)	03264 (50)	Polypropylene, Snap-on	00381 (1)	2	
4	4	Polycarbonate Flanged Tube	7,500	11 × 75	03104 (50)	03264 (50)	Polypropylene, Snap-on	00381 (1)	2	
3	3	Pyrex® Tube	5,000	10 × 75	03100 (50)	—	—	00364 (1)	2	
2	2	Cellulose Acetate Butyrate Tube	7,500	7 × 75	03235 (50)	—	—	00410 (1)	4	
1.5	—	Microtube	—	—	—	—	—	00381 (1)	2	
1	1	Cellulose Acetate Butyrate Tube	7,500	7 × 50	03103 (50)	—	—	00408 (1)	4	

B-2

24-Place Carrier
 Catalog No. **00482** (1/pkg)
 24-Place Aluminum Carrier for 5 ml Tubes



00482

TUBES

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOMINAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
5	6	Pyrex® Tube	5,000	12 × 75	03102 (50)	—	—	—	—	
5	—	Standard Glass Tube	—	12 × 75	—	—	—	—	—	

*Sealing Assembly replacement parts may be available. See section E for availability.

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TO ORDER, CALL 1-800-522-SPIN (7746)