

Thermo Scientific Sorvall LYNX Superspeed Centrifuge Rotors

Thermo Scientific Rotor	Max. Speed (rpm)	Max. RCF (x g) ¹	K Factor ²	Capacity: Places x Volume (mL)	See Page
Swinging Bucket					
BIOFlex HC Rotor	5,500	7,068	5,522	4 x 1000	2
BIOFlex HS Rotor	7,000	10,025	4,889	4 x 400	5
TH13-6x50 Rotor	13,100	30,314	1,503	6 x 50	8
Fixed Angle					
Fiberlite F9-6x1000 LEX	9,000	17,568	3,415	6 x 1000	11
Fiberlite F10-4x1000 LEX	10,500	20,584	4,268	4 x 1000	14
Fiberlite F12-6x500 LEX	12,000	24,471	2,302	6 x 500	17
Fiberlite F14-6x250y	14,000	30,240	1,699	6 x 250	19
Fiberlite F14-14x50cy	14,000	33,746	798	14 x 50	21
Fiberlite F20-12x50 LEX	20,000	51,428	455	12 x 50	23
Fiberlite F21-8x50y	20,000	47,850	744	8 x 50	25
A21-24x15c	21,500	60,049 / 63,049 ³	379	24 x 15	27
A22-24x16	22,000	60,063 / 60,063 ³	377 / 547 ³	24 x 16	29
A23-6x100	23,500	62,976	503	6 x 100	31
Fiberlite F23-48x1.5	23,000	57,368	199	48 x 1.5	33
A27-6x50	27,000	79,057	485	6 x 50	34
A27-8x50	27,000	87,207	408	8 x 50	36
T29-8x50	29,000	100,605	354	8 x 50	38
Continuous Flow/Zonal					
TCF-20 Continuous Flow	20,000	42,931	620	1350	40
TCF-20 Zonal	20,000	42,931	620	1350	40

¹RCF calculated for maximum rotor radius.

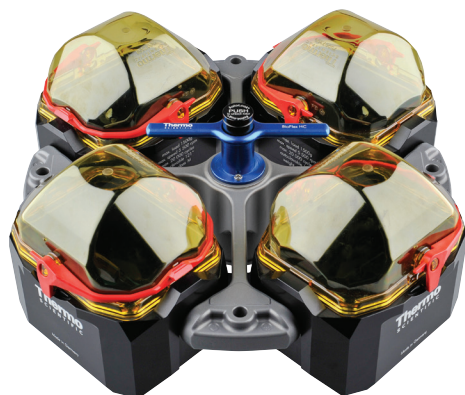
²K factor calculated assuming maximum volume in a sealed tube.

³Outer row value/inner row value.


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Superspeed Rotors

Thermo Scientific BIOFlex HC Rotor



ROTOR SPECIFICATIONS

Type	Swinging Bucket
Material	Stainless Steel with Aluminum Buckets
Capacity	4 x 1000 mL
Maximum Speed	5,500 rpm
Tube Dimensions Ø x L	126 x 140 mm
Angle	Horizontal
K Factor	5,522
Net Weight	5.35 kg/11.8 lbs (Rotor Cross)
	10.2 kg/22.5 lbs (Cross with Buckets)
Maximum Load per Bucket	1500 g
Warranty	10 years
Certifications	

	RCF	RADIUS
Maximum	7,068 x g	209 mm
Minimum	3,653 x g	108 mm


ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
BIOFlex HC	Max. Speed	5,500 rpm	5,500 rpm
	Max. RCF	7,068 x g	7,068 x g

BIOFlex HC Rotor Package includes:

Description	Cat. No.
BIOFlex HC Rotor, including 4 Buckets	75003000
1000 mL Polypropylene Wide-Mouth Bio-Bottles (qty. 4)	75007300
1000 mL Adapters (qty. 4)	75007301
Anti-Corrosive Oil	70009824
Lubricant for Metal Parts	75003786
Instruction Manual	50136234

Accessories:

Description	Cat. No.
ClickSeal Biocontainment Lids (qty. 4) 	75007309
O-Ring Replacment Kit for ClickSeal Lids (qty. 4)	75007001
Rotor Stand	75003711
Replacement for Double Biocontainment Vessel for 50 mL Conical Tube	75003787
Replacement Biocontainment Cap for Double Biocontainment Vessel for 50 mL Conical Tube (qty. 1)	50129119
Replacement O-Ring for Biocontainment Cap for Double Biocontainment Vessel for 50 mL Conical Tube (qty. 6)	75003789
Replacement Microplate Carrier Pad	20056846

 Biocontainment certification by Public Health England, Porton Down, UK.

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES				
								Dims ØxL (mm)	Type	Cat. No.	Qty. /Pkg.	Description
1000.0	1000.0	Polypropylene Wide-Mouth Bio-Bottle	75007300	4	4	5,500	7,068	126 x 140	Adapter	75007301	4	1 place/adapter
750.0	750.0	Polypropylene Wide-Mouth Bio-Bottle	75006443	1	4	3,600	3,028	98 x 133	Adapter	75007304	1	1 place/adapter
500.0	500.0	Fiberlite PPCO Oak Ridge Bottle	010-1493	6	4	5,500	7,068	70 x 160	Closure	Included	6	PPGF Cap w/ PP Plug
500.0	500.0	Fiberlite PC Oak Ridge Bottle	010-1494	6	4	5,500	7,068	70 x 160	Closure	Included	6	PPGF Cap w/ PP Plug
500.0	450.0	Nalgene™ PP Bottle	3141-0500	4/24	4	5,500	7,068	70 x 160	Adapter	75004253	4	1 place/adapter
500.0	450.0	Nalgene PC Bottle	3140-0500	4/24	4	5,500	7,068	70 x 160	Adapter	75004253	4	1 place/adapter
500.0	–	Corning™ Conical Bottle	–	–	4	5,500	7,068	98 x 133	Adapter	75007302	4	1 place/adapter
250.0	250.0	Fiberlite PPCO Oak Ridge Bottle	010-1495	6	8	5,500	7,068	61 x 124	Closure	Included	6	PPGF Cap w/ PP Plug
250.0	250.0	Fiberlite PC Oak Ridge Bottle	010-1496	6	8	5,500	7,068	61 x 124	Closure	Included	6	PPGF Cap w/ PP Plug
250.0	250.0	Nalgene PP Bottle	3141-0250	4/36	8	5,500	7,068	62 x 130	Adapter	75007305	4	2 places/adapter
250.0	250.0	Nalgene PC Bottle	3140-0250	4/36	8	5,500	7,068	62 x 130	Adapter	75007305	4	2 places/adapter
250.0	250.0	Nalgene Wide-Mouth Conical Bottle	–	–	4	5,500	7,068	62 x 145	Adapter	75005392	4	1 place/adapter
250.0	–	Corning Conical Bottle	–	–	4	5,500	7,068	62 x 145	Adapter	75005392	4	1 place/adapter
225.0	–	Falcon™ Conical Bottle	–	–	8	4,500	4,732	62 x 130	Adapter	75007305	4	2 places/adapter
									Adapter	BD 352090		Purchase separately 1 place/adapter
200.0	–	Nunc™ Conical Bottle	376813	4/48	8	4,500	4,732	62.5 x 139	Adapter	75007305	4	2 places/adapter
									Adapter	Nunc 377585	–	1 place/adapter
175.0	175.0	Nalgene PP Wide-Mouth Conical Bottle	3143-0175	4/36	8	4,500	4,732	62 x 130	Adapter	75007305	4	2 places/adapter
									Adapter	Nalgene DS3126-0175	2	1 place/adapter
175.0	175.0	Nalgene PP Wide-Mouth Conical Bottle	3144-0175	4/36	8	4,500	4,732	62 x 130	Adapter	75007305	4	2 places/adapter
									Adapter	Nalgene DS3126-0175	2	1 place/adapter
100.0	–	Round Bottom Open-Top Tube	–	–	8	4,500	4,732	62.5 x 139	Adapter	75003713	4	2 places/adapter
									BIOLink Adapter	75007304	4	–
50.0	–	Conical Tissue Culture Tube	–	–	40	5,500	7,068	29.5 x 116	Adapter	75003674	4	10 places/adapter
50.0	–	Double Biocontainment Vessels for 50 mL Conical Tube	–	–	20	5,500	7,068	29.5 x 116	Adapter	75004255	2	5 places/adapter
									Vessel	75003787	1	(10 included per 2 adapters)
		Nalgene Oak Ridge Tube	–	–	20	5,500	7,068	1 x 30	Adapter	75005802	2	1 place/adapter
		Nalgene Oak Ridge Tube	–	–	20	5,500	7,068	1 x 16	Adapter	75005803	2	1 place/adapter
		Conical Tissue Culture Tube	–	–	20	5,500	7,068	1 x 15	Adapter	75005808	2	1 place/adapter
		Nalgene Oak Ridge Tube	–	–	20	5,500	7,068	1 x 16	Adapter	75005803	2	1 place/adapter
		Blood Collection Tube	–	–	20	5,500	7,068	1 x 10	Adapter	75005804	2	1 place/adapter
		Blood Collection Tube	–	–	20	5,500	7,068	1 x 7	Adapter	75005805	2	1 place/adapter
		Blood Collection Tube (11 mm)	–	–	40	5,500	7,068	2 x 3.5	Adapter	75005806	2	2 places/adapter
		Microtube	–	–	40	5,500	7,068	2 x 1.5/2	Adapter	75005807	2	2 places/adapter
50.0	42.0	Nalgene PP Oak Ridge Tube	3139-0050	10/100	48	5,500	7,068	29.5 x 120	Adapter	75004252	4	12 places/adapter
50.0	42.0	Nalgene PP Oak Ridge Tube	3138-0050	10/100	48	5,500	7,068	29.5 x 120	Adapter	75004252	4	12 places/adapter
50.0	50.0	Conical or Skirted Tube	–	–	20	5,500	7,068	29.5 x 120	Adapter	75003824	4	5 places/adapter
									BIOLink Adapter	75007304	4	–

Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES				
								Dims ØxL (mm)	Type	Cat. No.	Qty. /Pkg.	Description
25.0	25.0	Universal Conical or Skirted Tube	–	–	28	4,500	4,732	29.5 x 120	Adapter BIOLink Adapter	75003716 75007304	4 4	7 places/adapter –
25.0	25.0	Universal Conical or Skirted Tube	–	–	28	4,500	4,732	29.5 x 120	Adapter BIOLink Adapter	75003716 75007304	4 4	7 places/adapter –
16.0	16.0	Nalgene PP Round Bottom Tube	3139-0016	10/50	48	4,500	4,732	18 x 134	Adapter BIOLink Adapter	75003718 75007304	4 4	12 places/adapter –
16.0	16.0	Nalgene PC Round Bottom Tube	3138-0016	10/50	48	4,500	4,732	18 x 134	Adapter BIOLink Adapter	75003718 75007304	4 4	12 places/adapter –
15.0	–	Conical Tissue Culture Tube	–	–	96	5,500	7,068	17.5 x 121	Adapter	75007306	4	24 places/adapter
15.0	–	Blood Collection Tube	–	–	32	4,500	4,732	17 x 125	Adapter BIOLink Adapter	75003719 75007304	4 4	8 places/adapter –
10	–	Blood Collection Tube or Corex™/Kimble™ Tube	–	–	148	4,500	4,732	17 x 110	Adapter	75003672	4	37 places/adapter
3	–	RIA or Round Bottom Tube (without cap)	–	–	148	4,500	4,732	13 x 116	Adapter BIOLink Adapter	75003724 75007304	4 4	37 places/adapter –
4.5/6 ml	–	Blood Collection Tube (Greiner™)	–	–	164	5,500	7,068	14 x 110	Adapter	75003709	4	41 places/adapter
5/7 ml	–	Blood Collection Tube (BD)	–	–	196	4,500	4,732	14 x 110	Adapter	75003671	4	49 places/adapter
1.5 - 2.0	–	Conical Microtube	–	–	192	5,500	7,068		Adapter BIOLink Adapter	75003733 75007304	4 4	48 places/adapter –
Microplates	–	Standard Microplate	–	–	24	5,500	7,068	86 x 128		75007303		6 places/adapter
Microplates	–	Deep well Microplate	–	–	8	5,500	7,068	86 x 128		75007303		2 places/adapter
Flasks	25.0	T-75 Nunc Easy Flask	–	–	4	4,500	4,732	11 x 50	Adapter BIOLink Adapter	75008383 75007304	4 4	1 place/adapter –
Flasks	7	T-25 Nunc Easy Flask	–	–	8	4,500	4,732	–	Adapter BIOLink Adapter	75008384 75007304	4 4	1 place/adapter –
Blood Bags	–	Small Blood Bag / Cell Culture Bags	–	–	–	3,600	3,028		Adapter	75003829	4	2 places/adapter

Refer to manufacturer's recommendations for product performance information.

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Thermo Scientific BIOFlex HS Rotor



ROTOR SPECIFICATIONS

Type	Swinging Bucket
Material	Stainless Steel with Aluminum Buckets
Capacity	4 x 400 mL
Maximum Speed	7,000 rpm
Tube Dimensions Ø x L	80 x 125 mm
Angle	Horizontal
K Factor	4,889
Net Weight	4.36 kg/9.6 lbs (Rotor Cross) 7.64 kg/16.8 lbs (Cross with Buckets)
Maximum Load per Bucket	600 g
Warranty	10 years
Certifications	

	RCF	RADIUS
Maximum	10,025 x g	183 mm
Minimum	3,890 x g	71 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
BIOFlex HS	Max. Speed	7,000 rpm	7,000 rpm
	Max. RCF	10,025 x g	10,025 x g

BIOFlex HS Rotor Package includes:

Description	Cat. No.
BIOFlex HS Rotor, including 4 Buckets	75003002
400 mL Polypropylene Wide-Mouth Bio-Bottles (qty. 4)	75007585
Anti-Corrosive Oil	70009824
Lubricant for Metal Parts	75003786
Instruction Manual	50136234

Accessories:

Description	Cat. No.
ClickSeal Biocontainment Lids (qty. 4)	75003656
O-Ring Replacment Kit for ClickSeal Lids (qty. 4)	75003657
Rotor Stand	75003711
Replacement Biocontainment Cap for Double Biocontainment Vessel for 50 mL Conical Tube (qty. 1)	50129119
Replacement O-Ring for Biocontainment Cap for Double Biocontainment Vessel for 50 mL Conical Tube (qty. 6)	75003789

Biocontainment certification by Public Health England, Porton Down, UK.

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
400.0	400.0	Polypropylene Bio-Bottle	75007585	12	4	7,000	10,025	80 x 125	–	–	–	–
250.0	250.0	Fiberlite PPCO Oak Ridge Bottle	010-1495	6	4	7,000	10,025	61 x 124	Closure	Included	6	PPGF Cap w/ PP Plug
250.0	250.0	Fiberlite PC Oak Ridge Bottle	010-1496	6	4	7,000	10,025	61 x 124	Closure	Included	6	PPGF Cap w/ PP Plug
250.0	250.0	Nalgene™ Wide-Mouth Conical Bottle	–	–	4	7,000	10,025	60x144	Adapter	75004258	4	1 place/adapter
250.0	250.0	Nalgene PP Bottle	3141-0250	4/36	4	7,000	10,025	62 x 135	Adapter	75004257	4	1 place/adapter
250.0	250.0	Nalgene PC Bottle	3140-0250	4/36	4	7,000	10,025	62 x 135	Adapter	75004257	4	1 place/adapter
225.0	–	Falcon™ Conical Bottle	–	–	4	4,800	4,700	62 x 130	Adapter Adapter	75004257 BD 352090	4 Purchase Separately	1 place/adapter 1 place/adapter
200.0	200.0	Nunc™ PP Conical Bottle	376813	4/48	4	7,000	10,025	62 x 125	–	75004258	4	1 place/adapter
175.0	175.0	Nalgene PP Wide-Mouth Conical Bottle	3143-0175	4/36	4	7,000	10,025	62 x 125	–	75004258	4	1 place/adapter
175.0	175.0	Nalgene PC Wide-Mouth Conical Bottle	3144-0175	4/36	4	7,000	10,025	62 x 125	–	75004258	4	1 place/adapter
100.0	–	Round Bottom Open-Top Tube	–	–	4	4,800	4,700	45 x 117	Adapter	75003708	4	1 place/adapter
50.0	–	DIN Round Bottom Tube	–	–	12	4,800	4,700	34.5 x 105	Adapter	75003707	4	3 places/adapter
50.0	42.0	Nalgene PP Oak Ridge Tube	3139-0050	10/100	16	7,000	10,025	28.5 x 114	Adapter	75003799	4	4 places/adapter
50.0	42.0	Nalgene PC Oak Ridge Tube	3138-0050	10/100	16	7,000	10,025	28.5 x 114	Adapter	75003799	4	4 places/adapter
50.0	–	Conical Tissue Culture Tube	–	–	16	4,800	4,700	29.5 x 116	Adapter	75003683	4	4 places/adapter
50.0	–	Conical Tissue Culture Tube	–	–	12	7,000	10,025	29.5 x 116	Adapter	75005393	4	3 places/adapter
50.0	–	Double Biocontainment Vessels for 50 mL Conical Tube	–	–	12	7,000	10,025	29.5 x 116	Adapter Vessel	75004259 75003787	2 1	2 places/adapter (2 included per 2 adapters)
		Nalgene Oak Ridge Tube	–	–	12	7,000	10,025	1 x 30	Adapter	75005802	2	1 place/adapter
		Nalgene Oak Ridge Tube	–	–	12	7,000	10,025	1 x 16	Adapter	75005803	2	1 place/adapter
		Conical Tissue Culture Tube	–	–	12	7,000	10,025	1 x 15	Adapter	75005808	2	1 place/adapter
		Blood Collection Tube	–	–	12	7,000	10,025	1 x 10	Adapter	75005804	2	1 place/adapter
		Blood Collection Tube	–	–	12	7,000	10,025	1 x 7	Adapter	75005805	2	1 place/adapter
		Blood Collection Tube (11 mm)	–	–	24	7,000	10,025	2 x 3.5	Adapter	75005806	2	2 places/adapter
		Microtube	--	–	24	7,000	10,025	2 x 1.5/2	Adapter	75005807	2	2 places/adapter
30.0	–	DIN Round/Flat Bottom Tube	–	–	20	7,000	10,025	25.5 x 108	Adapter	75003703	4	5 places/adapter
20.0	–	Round Bottom Tube	–	–	12	4,800	4,700	25 x 110	Adapter	75003706	4	3 places/adapter
16.0	16.0	Nalgene PP Round Bottom Tube	3139-0016	10/50	28	7,000	10,025	18 x 112	Adapter	75003798	4	7 places/adapter
16.0	16.0	Nalgene PC Round Bottom Tube	3138-0016	10/50	28	7,000	10,025	18 x 112	Adapter	75003798	4	7 places/adapter
15.0	–	Conical Tissue Culture Tube	–	–	36	7,000	10,025	17 x 121	Adapter	75005394	4	9 places/adapter
15.0	–	Blood Collection Tube (17 x 125 mm)	–	–	16	4,800	4,700	15.5 x 131	Adapter	75003794	4	4 places/adapter
15.0	–	Round Bottom Tube (Sarstedt™)	–	–	40	4,800	4,700	17 x 105	Adapter	75003704	4	10 places/adapter

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
10/15 ml	–	Corex™/Kimble™ Tube or 10 mL Blood Collection (BD Vacutainer™/Vacuette™)	–	–	56	7,000	10,025	17 x 113	Adapter	75003681	4	14 places/adapter
5/7 ml	–	Blood Collection Tube (Vacutainer)	–	–	76	4,800	4,700	13 x 110	Adapter	75003680	4	19 places/adapter
4.5/6 ml	–	Blood Collection Tube (Greiner™)	–	–	64	7,000	10,025	13 x 110	Adapter	75003825	4	16 places/adapter
3/5 ml	–	RIA or Round Bottom Tube (without cap)	–	–	76	7,000	10,025	11 x 110	Adapter	75003793	4	19 places/adapter
1.5-2ml	–	Conical/Round Microtube	–	–	136	7,000	10,025	11 x 45	Adapter	75003700	4	34 places/adapter

Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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Thermo Scientific TH13-6x50 Rotor



ROTOR SPECIFICATIONS

Type	Swinging Bucket	
Material	Aluminum with Titanium Buckets	
Capacity	6 x 50 mL	
Maximum Speed	13,100 rpm	
Tube Dimensions Ø x L	29 x 104 mm	
Angle	90°	
K Factor	1,503	
Net Weight	7.2 kg/15.8 lbs	
Warranty	10 years	
Certifications		
	RCF	RADIUS
Maximum	30,314 x g	158 mm
Minimum	10,936 x g	57 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
TH13-6x50	Max. Speed	13,100 rpm	13,100 rpm
	Max. RCF	30,314 x g	30,314 x g

TH13-6x50 Rotor Package includes:

Description	Cat. No.
TH13-6x50 Rotor with Buckets and Biocontainment Covers	75003010
Bucket Cover O-Rings (qty. 6)	64667
Rotor Cleaning Kit	12259
Instruction Manual CD	50136234
Vacuum Grease	76003500
Lubricant for Metal Parts	75003786

Accessories:

Description	Cat. No.
Replacement Biocontainment Covers (each)	50129119
O-Ring Replacement Kit	75007002

 Biocontainment certification by Public Health England, Porton Down, UK.

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	56.0	PA Thin-Walled Tube	03139	25	6	13,100	30,314	28 x 104	–	–	–	–
50.0	54.0	Stainless Steel Tube	00579	1	6	11,400	22,811	28 x 101	Closure	00518	1	SS Sealing
									Tool	01014	1	Sealing Wrench
50.0	50.0	Nunc™ PP Conical Tube	–	–	6	–	–	–	Adapter	75004264	1	1 place/adapter
50.0	50.0	Falcon™ PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75004264	1	1 place/adapter
50.0	50.0	Corning™ PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75004264	1	1 place/adapter
50.0	50.0	Corning PET Conical Tube	–	–	6	13,100	30,314	–	Adapter	75004264	1	1 place/adapter
50.0	50.0	Sarstedt™ PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75004264	1	1 place/adapter
50.0	50.0	Sterilin™ PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75004264	1	1 place/adapter
50.0	50.0	Conical Filter Tube (e.g. Amicon™)	–	–	–	–	–	–	Adapter	75004264	1	1 place/adapter
50.0	50.0	Greiner™ PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75004264	1	1 place/adapter
50.0	50.0	Greiner Light Protection Conical Tube	–	–	6	13,100	30,314	–	Adapter	75004264	1	1 place/adapter
50.0	48.0	PC Flanged Tube	03146	25	6	13,100	30,314	29 x 102	Closure	03268	25	PP Snap-on
50.0	46.0	PP Flanged Tube	03147	25	6	13,100	30,314	29 x 102	Closure	03268	25	PP Snap-on
50.0	43.0	Nalgene™ PC Oak Ridge Tube	3118-0050	100	6	13,100	30,314	29 x 107	Closure	Included	100	PP Screw Top
50.0	43.0	Nalgene PPCO Oak Ridge Tube	3119-0050	100	6	13,100	30,314	29 x 107	Closure	Included	100	PP Screw Top
50.0	43.0	Nalgene PC Oak Ridge Tube	3138-0050	50	6	13,100	30,314	29 x 107	Closure	Included	50	PP Sealing
50.0	43.0	Nalgene PPCO Oak Ridge Tube	3139-0050	50	6	13,100	30,314	29 x 107	Closure	Included	50	PP Sealing
16.0	16.0	PP Flanged Tube	03244	50	6	13,100	30,314	18 x 100	Closure	03299	50	PP Snap-on
									Adapter	75003026	2	1 place/adapter
15.0	15.0	Nunc PP Conical Tube	–	–	6	–	–	–	Adapter	75007321	2	1 place/adapter
15.0	15.0	Greiner PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75007321	2	1 place/adapter
15.0	15.0	Greiner Light Protection Conical Tube	–	–	6	13,100	30,314	–	Adapter	75007321	2	1 place/adapter
15.0	15.0	Falcon™ PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75007321	2	1 place/adapter
15.0	15.0	Corning PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75007321	2	1 place/adapter
15.0	15.0	Corning PET Conical Tube	–	–	6	13,100	30,314	–	Adapter	75007321	2	1 place/adapter
15.0	15.0	Sarstedt PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75007321	2	1 place/adapter
15.0	15.0	Sterilin PP Conical Tube	–	–	6	13,100	30,314	–	Adapter	75007321	2	1 place/adapter
15.0	15.0	Conical Filter Tube (e.g. Amicon™)	–	–	–	–	–	–	Adapter	75007321	2	1 place/adapter
14.0	11.0	PC Flanged Tube	03246	50	12	13,100	30,314	18 x 75	Closure	03269	50	PP Snap-on
									Adapter	75003025	2	1 place/adapter
12.0	12.0	PP Flanged Tube	03116	50	6	13,100	30,314	16 x 100	Closure	03266	50	PP Snap-on
									Adapter	75003028	2	1 place/adapter
12.0	12.0	PC Flanged Tube	03115	50	6	13,100	30,314	16 x 100	Closure	03266	50	PP Snap-on
									Adapter	75003028	2	1 place/adapter
10.0	–	Pyrex™ Graduated Conical Tube	–	–	6	5,000	4,416	18 x 100	Adapter	00367	1	1 place/adapter
10.0	9.7	PC Oak Ridge Tube	03020	50	6	13,100	30,314	16 x 83	Closure	03279	25	PP Sealing
									Closure	03924	25	PP Screw Top
									Adapter	75003024	2	1 place/adapter
10.0	9.1	PP Oak Ridge Tube	03929	50	6	13,100	30,314	16 x 83	Closure	03279	25	PP Sealing
									Closure	03924	25	PP Screw Top
									Adapter	75003024	2	1 place/adapter

Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
7.0	7.0	PC Flanged Tube	03120	50	6	13,100	30,314	13 x 100	Closure	03265	50	PP Snap-on
									Adapter	00473	1	1 place/adapter
7.0	7.0	PP Flanged Tube	03121	50	6	13,100	30,314	13 x 100	Closure	03265	50	PP Snap-on
									Adapter	00473	1	1 place/adapter
4.0	4.0	PP Flanged Tube	03105	50	12	13,100	30,314	11 x 75	Closure	03264	50	PP Snap-on
									Adapter	00473	1	1 place/adapter
4.0	4.0	PC Flanged Tube	03104	50	12	13,100	30,314	11 x 75	Closure	03264	50	PP Snap-on
									Adapter	75003023	2	2 places/adapter
3.0	3.0	Pyrex Tube	03100	50	12	5,000	4,416	10 x 75	Adapter	00364	1	2 places/adapter
1.5	1.5	Conical Microtube	314352H01	100	18	13,100	30,314	11 x 40	Adapter	75003029	2	3 places/adapter
1.0	1.0	Cellulose (Acetate Butyrate) Tube	03103	50	24	13,100	30,314	7 x 50	Adapter	00408	1	4 places/adapter

Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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Superspeed Rotors

Fiberlite F9-6x1000 LEX Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Carbon Fiber Composite
Capacity	6 x 1000 mL
Maximum Speed	9,000 rpm
Tube Dimensions Ø x L	98 x 195 mm
Angle	20°
K Factor	3,415
Net Weight	15.7 kg/34.5 lbs
Warranty	15 years
Certifications	

	RCF	RADIUS
Maximum	17,568 x g	194 mm
Minimum	5,886 x g	65 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC SORVALL LYNX 6000
Fiberlite F9-6x1000 LEX	Max. Speed	9,000 rpm
	Max. RCF	17,568 x g

Fiberlite F9-6x1000 LEX Rotor Package includes:

Description	Cat. No.
Fiberlite F9-6x1000 LEX Rotor	096-061075
1000 mL Fiberlite PPCO High Performance Bottle with Nylon Cap and PP Plug (qty. 6)	010-1491
Rotor Lid Assembly	099-061075
O-Ring Refresher Kit ¹	021-061075

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
1000.0	1000.0	Fiberlite PPCO High Perf. Bottle ⁴	010-1491	2	6	9,000	17,568	98 x 195	Closure	Included	2	Nylon Cap w/ PP Plug
1000.0	1000.0	Fiberlite PC High Perf. Bottle ⁴	010-1492	2	6	9,000	17,568	98 x 195	Closure	Included	2	Nylon Cap w/ PP Plug
1000.0	1000.0	Sorvall PPCO High Perf. Bottle ^{2, 4}	010-1456	2	6	9,000	17,568	98 x 195	Closure	75003511 Included	2	High Performance Al Cap w/ PP Plug
1000.0	1000.0	Sorvall PC High Perf. Bottle ^{3, 4}	010-1459	2	6	9,000	17,568	98 x 195	Closure	75003511 Included	2	High Performance Al Cap w/ PP Plug
500.0	500.0	Fiberlite PPCO Oak Ridge Bottle	010-1493	6	6	9,000	17,568	70 x 160	Closure	Included	6	PPGF Cap w/ PP Plug
500.0	500.0	Fiberlite PC Oak Ridge Bottle	010-1494	6	6	9,000	17,568	70 x 160	Adapter	010-0145	2	1 place/adaptor
500.0	500.0	Fiberlite PC Oak Ridge Bottle	010-1494	6	6	9,000	17,568	70 x 160	Closure	Included	6	PPGF Cap w/ PP Plug
500.0	500.0	Fiberlite PC Oak Ridge Bottle	010-1494	6	6	9,000	17,568	70 x 160	Adapter	010-0145	2	1 place/adaptor
500.0	450.0	Nalgene PPCO Bottle	3141-0500	24	6	7,950	13,700	70 x 160	Closure	Included	24	PP Sealing
500.0	450.0	Nalgene PPCO Bottle	3141-0500	24	6	7,950	13,700	70 x 160	Adapter	010-0145	2	1 place/adaptor

Biocontainment certification by Public Health England, Porton Down, UK.

¹ Includes 5 O-Rings and 3 O-Ring Grease Packets.

² Replacement PPCO bottle without closure, set of 2, 010-1455.

³ Replacement PC bottle without closure, set of 2, 010-1458.

⁴ Follow all chemical compatibility limitations.

Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
500.0	450.0	Nalgene PC Bottle	3140-0500	24	6	7,950	13,700	70 x 160	Closure Adapter	Included	24	PP Sealing 1 place/adapter
250.0	250.0	Fiberlite PPCO Oak Ridge Bottle	010-1495	6	6	9,000	17,568	61 x 124	Closure Adapter	Included	6	PPGF Cap w/ PP Plug 1 place/adapter
250.0	250.0	Fiberlite PC Oak Ridge Bottle	010-1496	6	6	9,000	17,568	61 x 124	Closure Adapter	Included	6	PPGF Cap w/ PP Plug 1 place/adapter
250.0	250.0	Nalgene PPCO Bottle	3141-0250	36	6	9,000	17,568	61 x 133	Closure Adapter	Included	36	PP Sealing 1 place/adapter
250.0	250.0	Nalgene PC Bottle	3140-0250	36	6	9,000	17,568	61 x 135	Closure Adapter	Included	36	PP Sealing 1 place/adapter
250.0	–	Corning™ Disposable Conical Tube	–	–	6	9,000	17,568	–	Adapter	010-1096	2	1 place/adapter
175.0	175.0	Nalgene PPCO Conical Wide-Mouth Tube	3143-0175	36	6	9,000	17,568	61 x 144	Closure Adapter	Included	36	PP Sealing 1 place/adapter
175.0	175.0	Nalgene PC Conical Wide-Mouth Tube	3144-0175	36	6	9,000	17,568	61 x 144	Closure Adapter	Included	36	PP Sealing 1 place/adapter
100	100	Pyrex™ Tube	–	–	12	–	–	43 x 139	Adapter	010-1425	2	2 places/adapter
80.0	61.0	PPCO Oak Ridge Tube	010-1280	6	18	9,000	17,568	38 x 109	Closure Adapter	Included	6	PP Sealing 3 places/adapter
85.0	81.0	Nalgene PC Oak Ridge Tube	3118-0085	100	18	9,000	17,568	38 x 109	Closure Adapter	Included	100	PP Screw Top 3 places/adapter
50.0	50.0	Nunc™ Disposable Conical Tube	339653	25	18	9,000	17,568	30 x 115	Closure Adapter	Included	25	PP Sealing 5 places/adapter
50.0	–	Corning Disposable Conical Tube	–	–	30	–	–	–	Adapter	010-0180	2	5 places/adapter
50.0	–	Falcon™ Disposable Conical Tube	–	–	30	–	–	–	Adapter	010-0180	2	5 places/adapter
50.0	46.0	Nalgene PC Oak Ridge Tube	3138-0050	50	30	9,000	17,568	29 x 115	Closure Adapter	Included	50	PP Sealing 6 places/adapter
50.0	46.0	Nalgene PPCO Oak Ridge Tube	3139-0050	50	36	9,000	17,568	29 x 115	Closure Adapter	Included	50	PP Sealing 6 places/adapter
50.0	46.0	Nalgene PSF Oak Ridge Tube	3137-0050	50	36	9,000	17,568	29 x 115	Closure Adapter	Included	50	PP Sealing 6 places/adapter
50.0	46.0	Nalgene FEP Oak Ridge Tube	3114-0050	10	36	9,000	17,568	29 x 108	Closure Adapter	Included	10	ETFE Screw Cap 6 places/adapter
30.0	30.0	Nalgene PC Oak Ridge Tube	3138-0030	50	42	9,000	17,568	26 x 102	Closure Adapter	Included	50	PP Sealing 7 places/adapter
30.0	30.0	Nalgene PPCO Oak Ridge Tube	3139-0030	50	42	9,000	17,568	26 x 102	Closure Adapter	Included	50	PP Sealing 7 places/adapter
30.0	30.0	Nalgene PSF Oak Ridge Tube	3137-0030	50	42	9,000	17,568	26 x 102	Closure Adapter	Included	50	PP Sealing 7 places/adapter
30.0	30.0	Nalgene FEP Oak Ridge Tube	3114-0030	10	42	9,000	17,568	26 x 102	Closure Adapter	Included	10	ETFE Screw Cap 7 places/adapter
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	50	84	9,000	17,568	18 x 107	Closure Adapter	Included	50	PP Sealing 14 places/adapter
16.0	16.0	Nalgene PPCO Oak Ridge Tube	3139-0016	50	84	9,000	17,568	18 x 107	Closure Adapter	Included	50	PP Sealing 14 places/adapter
15.0	–	Corning Disposable Conical Tube	–	–	72	–	–	–	Adapter	010-1079	2	12 places/adapter
15.0	–	Falcon Disposable Conical Tube	–	–	72	–	–	–	Adapter	010-1079	2	12 places/adapter

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
10.0	8.0	Nalgene PPCO Oak Ridge Tube	3139-0010	50	108	9,000	17,568	16 x 100	Closure Adapter	Included 010-1307	50 2	PP Sealing 18 places/adapter
10.0	8.0	Nalgene PC Oak Ridge Tube	3138-0010	50	108	9,000	17,568	16 x 100	Closure Adapter	Included 010-1307	50 2	PP Sealing 18 places/adapter
10.0	—	BD Vacutainer™ Tube	—	—	108	—	—	16 x 100	Adapter	010-1415	2	18 places/adapter
6.0	6.0	BD Vacutainer Tube	—	—	132	—	—	13 x 100	Adapter	010-1416	2	22 places/adapter
2.0	2.0	Filtration Tube and 1.5 mL Conical Tube	—	—	72	—	—	13 x 45	Adapter	010-1417	2	12 places/adapter
1.8-2.7	—	BD Vacutainer Tube	—	—	180	—	—	16 x 100	Adapter	010-1419	2	30 places/adapter

Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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Thermo Scientific Fiberlite F10-4x1000 LEX Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Carbon Fiber Composite
Capacity	4 x 1000 mL
Maximum Speed	10,500 rpm
Tube Dimensions Ø x L	98 x 195 mm
Angle	20°
K Factor	4,268
Net Weight	10.9 kg/24 lbs
Warranty	15 years
Certifications	

	RCF	RADIUS
Maximum	20,584 x g	167 mm
Minimum	3,205 x g	26 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
Fiberlite F10-4x1000 LEX	Max. Speed	10,500 rpm	10,500 rpm
	Max. RCF	20,584 x g	20,584 x g

Fiberlite F10-4x1000 LEX Rotor Package includes:

Description	Cat. No.
Fiberlite F10-4x1000 LEX Rotor	096-041075
1000 mL Fiberlite PPCO High Performance Bottle with Nylon Cap and PP Plug (qty. 4)	010-1491
Rotor Lid Assembly	099-041075
O-Ring Refresher Kit ¹	021-041075

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
1000.0	1000.0	Fiberlite PPCO High Perf. Bottle ⁴	010-1491	2	4	10,500	20,584	98 x 195	Closure	Included	2	Nylon Cap w/ PP Plug
1000.0	1000.0	Fiberlite PC High Perf. Bottle ⁴	010-1492	2	4	10,500	20,584	98 x 195	Closure	Included	2	Nylon Cap w/ PP Plug
1000.0	1000.0	Sorvall PPCO High Perf. Bottle ^{2, 4}	010-1456	2	4	10,500	20,584	98 x 195	Closure	75003511 Included	2	High Performance Al Cap w/ PP Plug
1000.0	1000.0	Sorvall PC High Perf. Bottle ^{3, 4}	010-1458	2	4	10,500	20,584	98 x 195	Closure	75003511 Included	2	High Performance Al Cap w/ PP Plug
500.0	500.0	Fiberlite PPCO Oak Ridge Bottle	010-1493	6	6	10,500	18,859	70 x 160	Closure	Included	6	PPGF Cap w/ PP Plug
									Adapter	010-0145	2	1 place/adapter
500.0	500.0	Fiberlite PC Oak Ridge Bottle	010-1494	6	6	10,500	18,859	70 x 160	Closure	Included	6	PPGF Cap w/ PP Plug
									Adapter	010-0145	2	1 place/adapter

 Biocontainment certification by Public Health England, Porton Down, UK.

¹ Includes 5 O-Rings and 3 O-Ring Grease Packets.

² Replacement PPCO bottle without closure, set of 2, 010-1455.

³ Replacement PC bottle without closure, set of 2, 010-1458.

⁴ Follow all chemical compatibility limitations.

Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
500.0	450.0	Nalgene PPCO Oak Ridge Bottle	3141-0500	24	4	8,550	13,700	70 x 160	AI Cap Closure Adapter	Included	24	PP Sealing 1 place/adapter
500.0	450.0	Nalgene PC Bottle	3140-0500	24	4	8,550	13,700	70 x 160	Closure Adapter	Included	24	PP Sealing 1 place/adapter
250.0	250.0	Fiberlite PPCO Oak Ridge Bottle	010-1495	6	4	10,500	18,366	61 x 124	Closure Adapter	Included	6	PPGF Cap w/ PP Plug 1 place/adapter
250.0	250.0	Fiberlite PC Oak Ridge Bottle	010-1496	6	4	10,500	18,366	61 x 124	Closure Adapter	Included	6	PPGF Cap w/ PP Plug 1 place/adapter
250.0	250.0	Nalgene PPCO Bottle	3141-0250	36	4	10,500	18,366	61 x 133	Closure Adapter	Included	36	PP Sealing 1 place/adapter
250.0	250.0	Nalgene PC Bottle	3140-0250	36	4	10,500	18,366	61 x 135	Closure Adapter	Included	36	PP Sealing 1 place/adapter
250.0	250.0	Corning™ Disposable Conical Tube	–	–	4	10,500	18,366	–	Adapter	010-1096	2	1 place/adapter
175.0	–	Nalgene PPCO Conical Wide-Mouth Bottle	3143-0175	36	4	10,500	15,777	61 x 144	Closure Adapter	Included	36	PP Sealing 1 place/adapter
175.0	–	Nalgene PC Conical Wide-Mouth Tube	3144-0175	36	4	10,500	15,777	61 x 144	Closure Adapter	Included	36	PP Sealing 1 place/adapter
100	100	Pyrex™ Tube	–	–	20	–	–	43 x 139	Adapter	010-1425	2	2 places/adapter
85.0	81.0	Nalgene PC Oak Ridge Tube	3118-0085	100	12	10,500	19,352	38 x 109	Closure Adapter	Included	100	PP Sealing 3 places/adapter
80.0	76.0	PP Oak Ridge Tube	010-1280	6	12	10,500	19,352	38 x 109	Closure Adapter	Included	6	PP Sealing 3 places/adapter
50.0	–	Nunc™ Disposable Conical Tube	339653	25	20	–	–	30 x 115	Closure Adapter	Included	25	PP Sealing 5 places/adapter
50.0	–	Corning Disposable Conical Tube	–	–	20	–	–	–	Adapter	010-0180	2	5 places/adapter
50.0	–	Falcon™ Disposable Conical Tube	–	–	20	–	–	–	Adapter	010-0180	2	5 places/adapter
50.0	46.0	Nalgene PC Oak Ridge Tube	3138-0050	50	28	10,500	18,119	29 x 108	Closure Adapter	Included	50	PP Sealing 7 places/adapter
50.0	46.0	Nalgene PPCO Oak Ridge Tube	3139-0050	50	28	10,500	18,119	29 x 108	Closure Adapter	Included	50	PP Sealing 7 places/adapter
50.0	46.0	Nalgene PSF Oak Ridge Tube	3137-0050	50	28	10,500	18,119	29 x 108	Closure Adapter	Included	50	PP Sealing 7 places/adapter
50.0	46.0	Nalgene FEP Oak Ridge Tube	3114-0050	10	28	10,500	18,119	29 x 108	Closure Adapter	Included	10	ETFE Screw Cap 7 places/adapter
30.0	30.0	Nalgene PC Oak Ridge Tube	3138-0030	50	28	10,500	18,119	26 x 102	Closure Adapter	Included	50	PP Sealing 7 places/adapter
30.0	30.0	Nalgene PPCO Oak Ridge Tube	3139-0030	50	28	10,500	18,119	26 x 102	Closure Adapter	Included	50	PP Sealing 7 places/adapter
30.0	30.0	Nalgene PSF Oak Ridge Tube	3137-0030	50	28	10,500	18,119	26 x 102	Closure Adapter	Included	50	PP Sealing 7 places/adapter
30.0	30.0	Nalgene FEP Oak Ridge Tube	3114-0030	10	28	10,500	18,119	26 x 102	Closure Adapter	Included	10	ETFE Screw Cap 7 places/adapter
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	50	60	10,500	18,119	18 x 107	Closure Adapter	Included	50	PP Sealing 15 places/adapter
16.0	16.0	Nalgene PPCO Oak Ridge Tube	3139-0016	50	60	10,500	18,119	18 x 107	Closure Adapter	Included	50	PP Sealing 15 places/adapter

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
15.0	–	Corning Disposable Conical Tube	–	–	48	–	–	–	Adapter	010-1079	2	12 places/adapter
15.0	–	Falcon Disposable Conical Tube	–	–	48	–	–	–	Adapter	010-1079	2	12 places/adapter
10.0	8.0	Nalgene PPCO Oak Ridge Tube	3139-0010	50	72	10,500	–	16 x 100	Closure Adapter	Included 010-1307	50 2	PP Sealing 18 places/adapter
10.0	8.0	Nalgene PC Oak Ridge Tube	3138-0010	50	72	10,500	–	16 x 100	Closure Adapter	Included 010-1307	50 2	PP Sealing 18 places/adapter
10.0	–	BD Vacutainer™ Tube	–	–	72	–	–	16 x 100	Adapter	010-1415	2	18 places/adapter
6.0	6.0	BD Vacutainer Tube	–	–	88	–	–	13 x 100	Adapter	010-1416	2	22 places/adapter
2.0	2.0	Filtration Tube and 1.5 mL Conical Tube	–	–	48	–	–	13 x 45	Adapter	010-1417	2	12 places/adapter
1.8-2.7	–	BD Vacutainer Tube	–	–	120	–	–	10 x 64	Adapter	010-1419	2	30 places/adapter

Refer to manufacturer's recommendations for important product information.

Find out more at thermofisher.com/rotors

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ThermoFisher
S C I E N T I F I C

Superspeed Rotors

Thermo Scientific Fiberlite F12-6x500 LEX Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Carbon Fiber Composite
Capacity	6 x 500 mL
Maximum Speed	12,000 rpm
Tube Dimensions Ø x L	70 x 160 mm
Angle	20°
K Factor	2,302
Net Weight	9.1 kg/20 lbs
Warranty	15 years
Certifications	

	RCF	RADIUS
Maximum	24,471 x g	152 mm
Minimum	6,601 x g	41 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
Fiberlite F12-6x500 LEX	Max. Speed	12,000 rpm	12,000 rpm
	Max. RCF	24,471 x g	24,471 x g

Fiberlite F12-6x500 LEX Rotor Package includes:

Description	Cat. No.
Fiberlite F12-6x500 LEX Rotor	096-062375
500 mL Fiberlite PPCO Bottle with PPGF Cap and PP Plug (qty. 6)	010-1493
Rotor Lid Assembly	099-062375
O-Ring Refresher Kit ¹	021-062375

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
500.0	500.0	Fiberlite PPCO Oak Ridge Bottle	010-1493	6	6	12,000	24,500	70 x 160	Closure	Included	6	PPGF Cap w/ PP Plug
500.0	500.0	Fiberlite PC Oak Ridge Bottle	010-1494	6	6	12,000	24,500	70 x 160	Closure	Included	6	PPGF Cap w/ PP Plug
500.0	450.0	Nalgene PPCO Bottle	3141-0500	24	6	9,000	13,700	70 x 160	Closure	Included	24	PP Sealing
500.0	450.0	Nalgene PC Bottle	3140-0500	24	6	9,000	13,700	70 x 160	Closure	Included	24	PP Sealing
250.0	250.0	Fiberlite PPCO Oak Ridge Bottle	010-1495	6	6	12,000	22,260	61 x 124	Closure	Included	6	PPGF Cap w/ PP Plug
									Adapter	010-0151	2	1 place/adaptor

 Biocontainment certification by Public Health England, Porton Down, UK.

¹ Includes 5 O-Rings and 3 O-Ring Grease Packets.

Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
250.0	250.0	Fiberlite PC Oak Ridge Bottle	010-1496	6	6	12,000	22,260	61 x 124	Closure	Included	6	PPGF Cap w/ PP Plug
									Adapter	010-0151	2	1 place/adapter
250.0	250.0	Nalgene PPCO Bottle	3141-0250	36	6	12,000	22,260	61 x 133	Closure	Included	36	PP Sealing
									Adapter	010-0151	2	1 place/adapter
250.0	250.0	Nalgene PC Bottle	3140-0250	36	6	12,000	22,260	61 x 135	Closure	Included	36	PP Sealing
									Adapter	010-0151	2	1 place/adapter
250.0	–	Corning™ Disposable Conical Bottle	–	–	6	–	–	–	Adapter	010-1135	2	1 place/adapter
175.0	–	Nalgene PPCO Conical Wide-Mouth Bottle	3143-0175	36	6	–	–	61 x 144	Closure	Included	36	PP Sealing
									Adapter	010-0152	2	1 place/adapter
175.0	–	Nalgene PC Conical Wide-Mouth Bottle	3144-0175	36	6	–	–	61 x 144	Closure	Included	36	PP Sealing
									Adapter	010-0152	2	1 place/adapter
80.0	73.0	PC Oak Ridge Tube	010-0515	6	6	12,000	19,190	38 x 109	Closure	Included	6	PP Sealing
									Adapter	010-1114	2	1 place/adapter
80.0	76.0	PPCO Oak Ridge Tube	010-1280	6	6	12,000	19,190	38 x 109	Closure	Included	25	PP Screw Top
									Adapter	010-1114	2	1 place/adapter
50.0	–	Nunc™ Disposable Conical Tube	339653	25	6	–	–	30 x 115	Closure	Included	25	PP Sealing
									Adapter	010-1102	2	1 place/adapter
50.0	–	Corning Disposable Conical Tube	–	–	6	–	–	–	Adapter	010-1102	2	1 place/adapter
50.0	–	Falcon™ Disposable Conical Tube	–	–	6	–	–	–	Adapter	010-1102	2	1 place/adapter
50.0	46.0	Nalgene PC Oak Ridge Tube	3138-0050	50	12	12,000	22,580	29 x 108	Closure	Included	50	PP Sealing
									Adapter	010-1112	2	2 places/adapter
50.0	46.0	Nalgene PPCO Oak Ridge Tube	3139-0050	50	12	12,000	22,580	29 x 108	Closure	Included	50	PP Sealing
									Adapter	010-1112	2	2 places/adapter
50.0	46.0	Nalgene PSF Oak Ridge Tube	3137-0050	50	12	12,000	22,580	29 x 108	Closure	Included	50	PP Sealing
									Adapter	010-1112	2	2 places/adapter
50.0	46.0	Nalgene FEP Oak Ridge Tube	3114-0050	10	12	12,000	22,580	29 x 108	Closure	Included	10	ETFE Screw Cap
									Adapter	010-1112	2	2 places/adapter
30.0	30.0	Nalgene PC Oak Ridge Tube	3138-0030	50	18	12,000	20,640	26 x 102	Closure	Included	50	PP Sealing
									Adapter	010-1115	2	3 places/adapter
30.0	30.0	Nalgene PPCO Oak Ridge Tube	3139-0030	50	18	12,000	20,640	26 x 102	Closure	Included	50	PP Sealing
									Adapter	010-1115	2	3 places/adapter
30.0	30.0	Nalgene PSF Oak Ridge Tube	3137-0030	50	18	12,000	20,640	26 x 102	Closure	Included	50	PP Sealing
									Adapter	010-1115	2	3 places/adapter
30.0	30.0	Nalgene FEP Oak Ridge Tube	3114-0030	10	18	12,000	20,640	26 x 102	Closure	Included	10	ETFE Screw Cap
									Adapter	010-1115	2	3 places/adapter
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	50	36	12,000	20,640	18 x 107	Closure	Included	50	PP Sealing
									Adapter	010-1105	2	14 places/adapter
16.0	16.0	Nalgene PPCO Oak Ridge Tube	3139-0016	50	36	12,000	20,640	18 x 107	Closure	Included	50	PP Sealing
									Adapter	010-1105	2	14 places/adapter
15.0	15.0	Corning Disposable Conical Tube	–	–	36	–	–	–	Adapter	010-1099	2	12 places/adapter
15.0	15.0	Falcon Disposable Conical Tube	–	–	36	–	–	–	Adapter	010-1099	2	12 places/adapter
10.0	8.0	Nalgene PPCO Oak Ridge Tube	3139-0010	50	42	12,000	20,640	16 x 100	Closure	Included	50	PP Sealing
									Adapter	010-1308	2	7 places/adapter
10.0	8.0	Nalgene PC Oak Ridge Tube	3138-0010	50	42	12,000	20,640	16 x 100	Closure	Included	50	PP Sealing
									Adapter	010-1308	2	7 places/adapter
10.0	–	BD Vacutainer™ Tube	–	–	42	–	–	16 x 100	Adapter	010-1103	2	7 places/adapter
3.0	–	BD Vacutainer Tube	–	–	84	–	–	10 x 64	Adapter	010-1137	2	14 places/adapter

Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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Thermo Scientific Fiberlite F14-6x250y Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Carbon Fiber Composite
Capacity	6 x 250 mL
Maximum Speed	14,000 rpm
Tube Dimensions Ø x L	62 x 135 mm
Angle	23°
K Factor	1,699
Net Weight	8.0 kg/17.5 lbs
Warranty	15 years
Certifications	

	RCF	RADIUS
Maximum	30,240 x g	138 mm
Minimum	8,108 x g	37 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
Fiberlite F14-6x250y	Max. Speed	14,000 rpm	14,000 rpm
	Max. RCF	30,240 x g	30,240 x g

Fiberlite F14-6x250y Rotor Package includes:

Description	Cat. No.
Fiberlite F14-6x250y Rotor	096-062075
250 mL Fiberlite PPCO Bottle with PPGF Cap and PP Plug (qty. 6)	010-1495
Rotor Lid Assembly	099-062075
O-Ring Refresher Kit ¹	022-062075

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
250.0	250.0	Fiberlite PPCO Oak Ridge Bottle	010-1495	6	6	14,000	30,100	61 x 124	Closure	Included	6	PPGF Cap w/ PP Plug
250.0	250.0	Fiberlite PC Oak Ridge Bottle	010-1496	6	6	14,000	30,100	61 x 124	Closure	Included	6	PPGF Cap w/ PP Plug
250.0	250.0	Nalgene PPCO Bottle	3141-0250	36	6	13,350	27,500	61 x 124	Closure	Included	36	PP Sealing
250.0	250.0	Nalgene PC Bottle	3140-0250	36	6	13,350	27,500	61 x 124	Closure	Included	36	PP Sealing
85.0	81.0	Nalgene PC Oak Ridge Tube	3118-0085	100	6	14,000	30,240	38 x 106	Closure Adapter	Included	100	PP Screw Top
80.0	76.0	PPCO Oak Ridge Tube	010-1280	6	6	14,000	30,240	38 x 109	Closure Adapter	010-1119	2	1 place/adapter
										010-1119	2	PP Sealing
												1 place/adapter

 Biocontainment certification by Public Health England, Porton Down, UK.
¹ Includes 5 O-Rings and 3 O-Ring Grease Packets.
 Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	50.0	Nunc™ Disposable Conical Tube	339653	25	6	9,000	12,497	30 x 115	Closure Adapter	Included 75100136	25 2	PP Sealing 1 place/adapter
50.0	–	Corning™ Disposable Conical Tube	–	–	6	9,000	12,497	–	Adapter	75100136	2	1 place/adapter
50.0	–	Falcon™ Disposable Conical Tube	–	–	6	9,000	12,497	–	Adapter	75100136	2	1 place/adapter
50.0	46.0	Nalgene PC Oak Ridge Screw Top Tube	3138-0050	50	6	14,000	30,240	29 x 108	Closure Adapter	Included 010-0138	50 2	PP Sealing 1 place/adapter
50.0	46.0	Nalgene PPCO Oak Ridge Tube	3139-0050	50	6	14,000	30,240	29 x 108	Closure Adapter	Included 010-0138	50 2	PP Sealing 1 place/adapter
50.0	46.0	Nalgene PSF Oak Ridge Tube	3137-0050	50	8	14,000	30,240	29 x 108	Closure Adapter	Included 010-0138	50 2	PP Sealing 1 place/adapter
50.0	46.0	Nalgene FEP Oak Ridge Screw Top Tube	3114-0050	10	6	14,000	30,240	29 x 108	Closure Adapter	Included 010-0138	10 2	ETFE Screw Cap 1 place/adapter
30.0	30.0	Nalgene PC Oak Ridge Screw Top Tube	3138-0030	50	12	14,000	30,240	26 x 102	Closure Adapter	Included 010-1072	50 2	PP Sealing 2 places/adapter
30.0	30.0	Nalgene PPCO Oak Ridge Screw Top Tube	3139-0030	50	12	14,000	30,240	26 x 102	Closure Adapter	Included 010-1072	50 2	PP Sealing 2 places/adapter
30.0	30.0	Nalgene PSF Oak Ridge Tube	3137-0030	50	12	14,000	30,240	26 x 102	Closure Adapter	Included 010-1072	50 2	PP Sealing 2 places/adapter
30.0	30.0	Nalgene FEP Oak Ridge Tube	3114-0030	10	12	14,000	30,240	26 x 102	Closure Adapter	Included 010-1072	10 2	ETFE Screw Cap 2 places/adapter
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	50	30	14,000	30,240	18 x 107	Closure Adapter	Included 010-1074	50 2	PP Sealing 5 places/adapter
16.0	16.0	Nalgene PPCO Oak Ridge Tube	3139-0016	50	30	14,000	30,240	18 x 107	Closure Adapter	Included 010-1074	50 2	PP Sealing 5 places/adapter
15.0	–	Corning Disposable Conical Tube	–	–	30	–	–	–	Adapter	010-1073	2	5 places/adapter
15.0	15.0	Nunc Conical Tube	339650	25	30	–	–	–	Adapter	010-1073	2	5 places/adapter
15.0	–	Falcon Disposable Conical Tube	–	–	30	–	–	–	Adapter	010-1410	2	5 places/adapter
10.0	8.0	Nalgene PPCO Oak Ridge Tube	3139-0010	50	42	14,000	30,240	16 x 100	Closure Adapter	Included 010-1309	50 2	PP Sealing 7 places/adapter
10.0	8.0	Nalgene PC Oak Ridge Tube	3138-0010	50	42	14,000	30,240	16 x 100	Closure Adapter	Included 010-1309	50 2	PP Sealing 7 places/adapter
10.0	–	BD Vacutainer™ Tube	–	–	42	–	–	16 x 100	Adapter	010-1117	2	7 places/adapter
3.0	–	BD Vacutainer Tube	–	–	60	–	–	10 x 64	Adapter	010-1138	2	7 places/adapter

Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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Thermo Scientific Fiberlite F14-14x50cy Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Carbon Fiber Composite
Capacity	14 x 50 mL
Maximum Speed	14,000 rpm
Tube Dimensions Ø x L	29 x 115 mm
Angle	34°
K Factor	798
Net Weight	7.7 kg/17 lbs
Warranty	15 years
Certifications	

	RCF	RADIUS
Maximum	33,746 x g	154 mm
Minimum	18,188 x g	83 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
Fiberlite F14-14x50cy	Max. Speed	14,000 rpm	13,000 rpm
	Max. RCF	33,746 x g	29,097 x g

Fiberlite F14-14x50cy Rotor Package includes:

Description	Cat. No.
Fiberlite F14-14x50cy Rotor	096-145075
Rotor Lid Assembly	099-145075
O-Ring Refresher Kit ¹	021-145075

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	45.0	Corning™ Disposable Conical Tube ²	–	–	14	14,000	33,746	–	–	–	–	–
50.0	45.0	Falcon™ Disposable Conical Tube ²	–	–	14	14,000	33,746	–	–	–	–	–
50.0	45.0	Nunc™ Disposable Conical Tube ²	339653	25	14	8,690	13,000	30 x 115	Closure	Included	25	PP Sealing
50.0	–	Amicon™ Filtration Tube	–	–	14	5,000	4,304	–	–	–	–	–
50.0	46.0	Nalgene™ PC Oak Ridge Tube	3138-0050	50	14	14,000	33,746	29 x 108	Closure Adapter	Included 010-0377	50 2	PP Sealing 1 place/adaptor

Biocontainment certification by Public Health England, Porton Down, UK.

¹ Includes 5 O-Rings and 3 O-Ring Grease Packets.

² Listed Max Speeds for Conical Disposable tubes may be higher than OEM tube specifications and may result in crazing and other cosmetic damage to the tube. Do not use these tubes more than once.

Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	46.0	Nalgene PPCO Oak Ridge Tube	3139-0050	50	14	14,000	33,527	29 x 108	Closure Adapter	Included	50	PP Sealing
										010-0377	2	1 place/adapter
50.0	46.0	Nalgene PSF Oak Ridge Tube	3137-0050	50	14	14,000	33,527	29 x 108	Closure Adapter	Included	50	PP Sealing
										010-0377	2	1 place/adapter
50.0	46.0	Nalgene FEP Oak Ridge Tube	3114-0050	10	14	14,000	33,527	29 x 108	Closure Adapter	Included	10	ETFE Screw Cap
										010-0377	2	1 place/adapter
30.0	30.0	Nalgene PC Oak Ridge Tube	3138-0030	50	14	14,000	33,527	26 x 102	Closure Adapter	Included	50	PP Sealing
										010-1147	2	1 place/adapter
30.0	30.0	Nalgene PPCO Oak Ridge Tube	3139-0030	50	14	14,000	33,527	26 x 102	Closure Adapter	Included	50	PP Sealing
										010-1147	2	1 place/adapter
30.0	30.0	Nalgene PSF Oak Ridge Tube	3137-0030	50	14	14,000	33,527	26 x 102	Closure Adapter	Included	50	PP Sealing
										010-1147	2	1 place/adapter
30.0	30.0	Nalgene FEP Oak Ridge Tube	3114-0030	50	14	14,000	33,527	26 x 102	Closure Adapter	Included	50	ETFE Screw Cap
										010-1147	2	1 place/adapter
16.0	16.0	Nalgene PC Oak Ridge Tube	3139-0016	50	14	14,000	33,527	18 x 107	Closure Adapter	Included	50	PP Sealing
										010-0376	2	1 place/adapter
16.0	16.0	Nalgene PPCO Oak Ridge Tube	3138-0016	50	14	14,000	33,527	18 x 107	Closure Adapter	Included	50	PP Sealing
										010-0376	2	1 place/adapter
15.0	–	Corning Disposable Conical Tube	–	–	14	14,000	33,527	–	Adapter	75100378	2	1 place/adapter
15.0	–	Falcon Disposable Conical Tube	–	–	14	–	–	–	Adapter	75100378	2	1 place/adapter
15.0	–	Amicon Filtration Devices	–	–	14	5,400	4,988	–	Adapter	010-1340	2	1 place/adapter
15.0	15.0	Nunc EZ Flip™ Conical Tube	362694	–	14	14,000	33,527	–	Adapter	010-1340	2	1 place/adapter
15.0	15.0	Nunc Conical Disposable Tube	339650	25	14	9,000	13,855	17 x 120	Closure Adapter	Included	25	PP Sealing
										010-1340	2	1 place/adapter
10.0	8.0	Nalgene PPCO Oak Ridge Tube	3139-0010	10	14	14,000	33,527	16 x 100	Closure Adapter	Included	10	PP Sealing
										010-1311	2	1 place/adapter
10.0	8.0	Nalgene PC Oak Ridge Tube	3138-0010	10	14	14,000	33,527	16 x 100	Closure Adapter	Included	10	PP Sealing
										010-1311	2	1 place/adapter
10.0	–	BD Vacutainer™ Tube	–	–	14	–	–	16 x 100	Adapter	010-1124	2	1 place/adapter
5.0	–	5ml Eppendorf Microtube	–	–	14	12,000	25,000	–	Adapter	75005770	1	1 place/adapter

² Listed Max Speeds for Conical Disposable tubes may be higher than OEM tube specifications and may result in crazing and other cosmetic damage to the tube. Do not use these tubes more than once. Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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DSCFGLYNXF1414X50CY 0617

Superspeed Rotors

Thermo Scientific Fiberlite F20-12x50 LEX Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Carbon Fiber Composite
Capacity	12 x 50 mL
Maximum Speed	20,000 rpm
Tube Dimensions Ø x L	29 x 115 mm
Angle	25°
K Factor	455
Net Weight	5.25 kg/11.5 lbs
Warranty	15 years
Certifications	

	RCF	RADIUS
Maximum	51,428 x g	115 mm
Minimum	25,043 x g	56 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
Fiberlite F20-12x50 LEX	Max. Speed	20,000 rpm	18,000 rpm
	Max. RCF	51,428 x g	41,657 x g

Fiberlite F20-12x50 LEX Rotor Package includes:

Description	Cat. No.
Fiberlite F20-12x50 LEX Rotor	096-124375
50 mL Nalgene PPCO Oak Ridge Tube with Sealing Cap (qty. 12)	3139-0050
Rotor Lid Assembly	099-124375
O-Ring Refresher Kit ¹	021-124375

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	46.0	Nalgene™ PC Oak Ridge Tube	3138-0050	50	12	20,000	51,428	29 x 115	Closure	Included	50	PP Sealing
50.0	46.0	Nalgene PPCO Oak Ridge Tube	3139-0050	50	12	20,000	51,428	29 x 115	Closure	Included	50	PP Sealing
50.0	46.0	Nalgene PSF Oak Ridge Tube	3137-0050	50	12	20,000	51,428	29 x 115	Closure	Included	50	PP Sealing
50.0	46.0	Nalgene FEP Oak Ridge Tube	3114-0050	10	12	20,000	51,428	29 x 108	Closure	Included	10	ETFE Screw Cap
30.0	30.0	Nalgene PC Oak Ridge Tube	3138-0030	50	12	20,000	51,428	26 x 102	Closure Adapter	Included 010-0167	50 2	PP Sealing 1 place/adaptor

Biocontainment certification by the Public Health England, Porton Down, UK.

¹ Includes 5 O-Rings and 3 O-Ring Grease Packets.

Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
30.0	30.0	Nalgene PPCO Oak Ridge Tube	3139-0030	50	12	20,000	51,428	26 x 102	Closure	Included	50	PP Sealing
									Adapter	010-0167	2	1 place/adapter
30.0	30.0	Nalgene PSF Oak Ridge Tube	3137-0030	50	12	20,000	51,428	26 x 102	Closure	Included	50	PP Sealing
									Adapter	010-0167	2	1 place/adapter
30.0	30.0	Nalgene FEP Oak Ridge Tube	3114-0030	10	12	20,000	51,428	26 x 102	Closure	Included	10	ETFE Screw Cap
									Adapter	010-0167	2	1 place/adapter
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	50	12	20,000	51,428	18 x 107	Closure	Included	50	PP Sealing
									Adapter	010-0382	2	1 place/adapter
16.0	16.0	Nalgene PPCO Oak Ridge Tube	3139-0016	50	12	20,000	51,428	18 x 107	Closure	Included	50	PP Sealing
									Adapter	010-0382	2	1 place/adapter
15.0	–	Corning™ Disposable Conical Tube ³	–	–	12	–	–	–	Closure	Included	–	PP Sealing
15.0	–	Falcon™ Disposable Conical Tube ³	–	–	12	–	–	–	Adapter	010-1123	2	1 place/adapter
14.0	11.0	PC Flanged Tube	03246	50	12	20,000	51,428	18 x 75	Closure	03269	50	PP Snap-on
									Adapter	75003025	2	1 place/adapter
10.0	8.0	Nalgene PPCO Oak Ridge Tube	3139-0010	50	12	20,000	51,428	16 x 82	Closure	Included	50	PP Sealing
									Adapter	010-1306	2	1 place/adapter
10.0	8.0	Nalgene PC Oak Ridge Tube	3138-0010	50	12	20,000	51,428	16 x 82	Closure	Included	50	PP Sealing
									Adapter	010-1306	2	1 place/adapter
10.0	–	BD Vacutainer™ Tube	–	–	12	–	–	16 x 100	Adapter	010-1068	2	1 place/adapter
4.0	3.0	PP Flanged Tube	03105	50	24	20,000	47,850	11 x 75	Closure	03264	50	PP Snap-On
									Adapter	75003023	1	2 places/adapter
4.0	3.0	PC Flanged Tube	03104	50	24	20,000	47,850	11 x 75	Closure	03264	50	PP Snap-On
									Adapter	75003023	1	2 places/adapter
3.0	–	BD Vacutainer Tube	–	–	12	–	–	10 x 64	Adapter	010-1128	2	1 place/adapter
1.5	1.5	Conical Microtube	314352H01	100	36	20,000	51,428	11 x 40	Adapter	75003029	2	3 place/adapter
1.0	1.0	BD Microtainer™ Tube	–	–	36	–	–	8 x 48	Adapter	010-1127	2	3 places/adapter

³Listed Max Speeds for Conical Disposable tubes may be higher than OEM tube specifications and may result in crazing and other cosmetic damage to the tube. Do not use these tubes more than once. Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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Thermo Scientific Fiberlite F21-8x50y Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Carbon Fiber Composite
Capacity	8 x 50 mL
Maximum Speed	20,000 rpm
Tube Dimensions Ø x L	29 x 115 mm
Angle	34°
K Factor	744
Net Weight	4.8 kg/10.5 lbs
Warranty	15 years
Certifications	

	RCF	RADIUS
Maximum	47,850 x g	107 mm
Minimum	14,758 x g	33 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
Fiberlite F21-8x50y	Max. Speed	20,000 rpm	18,000 rpm
	Max. RCF	47,850 x g	38,759 x g

Fiberlite F21-8x50y Rotor Package includes:

Description	Cat. No.
Fiberlite F21-8x50y Rotor	096-084275
50 mL Nalgene PPCO Oak Ridge Tube with Sealing Cap (qty. 8)	3139-0050
Rotor Lid Assembly	099-084275
O-Ring Refresher Kit ¹	021-084275

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	46.0	Nalgene™ PC Oak Ridge Tube	3138-0050	50	8	20,000	47,850	29 x 115	Closure	Included	50	PP Sealing
50.0	46.0	Nalgene PPCO Oak Ridge Tube	3139-0050	50	8	20,000	47,850	29 x 115	Closure	Included	50	PP Sealing
50.0	46.0	Nalgene PSF Oak Ridge Tube	3137-0050	50	8	20,000	47,850	29 x 115	Closure	Included	50	PP Sealing
50.0	46.0	Nalgene FEP Oak Ridge Tube	3114-0050	10	8	20,000	47,850	29 x 108	Closure	Included	10	ETFE Screw Cap
30.0	30.0	Nalgene PC Oak Ridge Tube	3138-0030	50	8	20,000	47,850	26 x 102	Closure Adapter	Included 010-0167	50 2	PP Sealing 1 place/adaptor

Biocontainment certification by the Public Health England, Porton Down, UK.

¹ Includes 5 O-Rings and 3 O-Ring Grease Packets.

Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION CONTINUED

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
30.0	30.0	Nalgene PPCO Oak Ridge Tube	3139-0030	50	8	20,000	47,850	26 x 102	Closure Adapter	Included	50	PP Sealing
										010-0167	2	1 place/adapter
30.0	30.0	Nalgene PSF Oak Ridge Tube	3137-0030	50	8	20,000	47,850	26 x 102	Closure Adapter	Included	50	PP Sealing
										010-0167	2	1 place/adapter
30.0	30.0	Nalgene FEP Oak Ridge Tube	3114-0030	10	8	20,000	47,850	26 x 102	Closure Adapter	Included	10	ETFE Screw Cap
										010-0167	2	1 place/adapter
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	50	8	20,000	47,850	18 x 107	Closure Adapter	Included	50	PP Sealing
										010-0382	2	1 place/adapter
16.0	16.0	Nalgene PPCO Oak Ridge Tube	3139-0016	50	8	20,000	47,850	18 x 107	Closure Adapter	Included	50	PP Sealing
										010-0382	2	1 place/adapter
15.0	–	Corning™ Disposable Conical Tube ³	–	–	8	–	–	–	Adapter	010-1123	2	1 place/adapter
15.0	–	Falcon™ Disposable Conical Tube ³	–	–	8	–	–	–	Adapter	010-1123	2	1 place/adapter
14.0	11.0	PC Flanged Tube	03246	50	8	20,000	47,850	18 x 75	Closure Adapter	03269	50	PP Snap-on
										75003025	2	1 place/adapter
10.0	8.0	Nalgene PPCO Oak Ridge Tube	3139-0010	50	8	20,000	47,850	16 x 82	Closure Adapter	Included	50	PP Sealing
										010-1306	2	1 place/adapter
10.0	8.0	Nalgene PC Oak Ridge Tube	3138-0010	50	8	20,000	47,850	16 x 82	Closure Adapter	Included	50	PP Sealing
										010-1306	2	1 place/adapter
10.0	–	BD Vacutainer™ Tube	–	–	8	–	–	16 x 100	Adapter	010-1068	2	1 place/adapter
4.0	3.0	PP Flanged Tube	03105	50	16	20,000	47,850	11 x 75	Closure Adapter	03264	50	PP Snap-On
										75003023	1	2 places/adapter
4.0	3.0	PC Flanged Tube	03104	50	16	20,000	47,850	11 x 75	Closure Adapter	03264	50	PP Snap-On
										75003023	1	2 places/adapter
3.0	–	BD Vacutainer Tube	–	–	8	–	–	10 x 64	Adapter	010-1128	2	1 place/adapter
1.0	–	BD Microtainer™ Tube	–	–	24	–	–	8 x 48	Adapter	010-1127	2	3 places/adapter

³ Listed Max Speeds for Conical Disposable tubes may be higher than OEM tube specifications and may result in crazing and other cosmetic damage to the tube. Do not use these tubes more than once.. Refer to manufacturer's recommendations for product performance information.

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Thermo Scientific A21-24x15c Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Aluminum
Capacity	24 x 15 mL
Maximum Speed	21,500 rpm
Tube Dimensions Ø x L	121.5 x 16.5 mm
Angle	42/30°
K Factor	379
Net Weight	8.7 kg /19.1 lbs
Warranty	10 years
Certifications	

	RCF	RADIUS
Maximum	60,049 x g (Outer)	122 mm (Outer)
	63,049 x g (Inner)	122 mm (Inner)
Minimum	31,525 x g (Outer)	61 mm (Outer)
	31,525 x g (Inner)	44 mm (Inner)

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
A21-24x15c	Max. Speed	21,500 rpm	19,500 rpm
	Max. RCF	63,049 x g	51,865 x g

A21-24x15c Rotor Package includes:

Description	Cat. No.
A21-24x15c Rotor	75003004
Vacuum Grease	76003500
Lubricant	75003786
Instruction Manual	50136234
Retaining Ring Pliers	65614

Accessories:

Description	Cat. No.
Rotor Stand	75003711
Replacement O-Ring	75007003

 Biocontainment certification by Public Health England, Porton Down, UK.

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
15.0	15.0	Nunc™ PP Conical Disposable Tube ¹	339651	–	24	11,600	18,500	–	Closure	Included	–	–
15.0	15.0	Greiner™ PP Conical Disposable Tube ¹	–	–	24	21,500	62,532	–	Closure	Included	–	–
15.0	15.0	Greiner Conical Disposable Tube ¹	–	–	24	21,500	62,532	–	Closure	Included	–	–
15.0	15.0	Falcon™ PP Conical Disposable Tube ¹	–	–	24	21,500	62,532	–	Closure	Included	–	–
15.0	15.0	Corning™ PP Conical Disposable Tube ¹	–	–	24	21,500	62,532	–	Closure	Included	–	–
15.0	15.0	Corning PET Conical Disposable Tube ¹	–	–	24	21,500	62,532	–	Closure	Included	–	–
15.0	15.0	Sarstedt™ PP Conical Disposable Tube ¹	–	–	24	21,500	62,532	–	Closure	Included	–	–
15.0	n/a	Conical Filter Tube (e.g. Amicon™)	–	–	–	–	–	–	Closure/Filter	–	–	–

¹ Listed Max Speeds for Conical Disposable tubes may be higher than OEM tube specifications and may result in crazing and other cosmetic damage to the tube. Do not use these tubes more than once. Refer to manufacturer's recommendations for product performance information.

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Thermo Scientific A22-24x16 Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Aluminum
Capacity	24 x 16 mL
Maximum Speed	22,000 rpm
Tube Dimensions Ø x L	18 x 102 mm
Angle	28/42°
K Factor	377 (Outer); 547 (Inner)
Net Weight	7.7 kg /17.0 lbs
Warranty	10 years
Certifications	

	RCF	RADIUS
Maximum	60,063 x g (Outer) 60,063 x g (Inner)	111 mm (Outer) 111 mm (Inner)
Minimum	29,220 x g (Outer) 21,103 x g (Inner)	54 mm (Outer) 39 mm (Inner)

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
A22-24x16	Max. Speed	22,000 rpm	22,000 rpm
	Max. RCF	60,063 x g	60,063 x g

A22-24x16 Rotor Package includes:

Description	Cat. No.
A22-24x16 Rotor	75003005
16 mL Nalgene PPCO Oak Ridge Tube with Sealing Cap (qty. 24)	3139-0016
Vacuum Grease	76003500
Lubricant for Metal Parts	75003786
Retaining Ring Pliers	65614
Instruction Manual CD	50136234

Accessories:

Description	Cat. No.
Rotor Stand	75003711

 Biocontainment certification by Public Health England, Porton Down, UK.

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
16.0	13.0	PP Flanged Tube	03244	50	24	22,000	60,063	18 x 100	Closure	03299	50	PP Snap-on
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	50	24	22,000	60,063	18 x 107	Closure	Included	–	PP Sealing
16.0	16.0	Nalgene PPCO Oak Ridge Tube	3139-0016	50	24	22,000	60,063	18 x 107	Closure	Included	–	PP Sealing
7.0	6.0	PC Flanged Tube	03120	50	24	22,000	60,063	13 x 100	Closure Adapter	03265 00416	50 1	PP Snap-on 1 place/adapter
7.0	6.0	PP Flanged Tube	03121	50	24	22,000	60,063	13 x 100	Closure Adapter	03265 00416	50 1	PP Snap-on 1 place/adapter
5.0	5.0	Pyrex™ Tube	03102	50	24	5,000	3,102	12 x 75	Adapter	00376	1	1 place/adapter
3.0	3.0	Pyrex Tube	03100	50	24	5,000	3,102	10 x 75	Adapter	00374	1	1 place/adapter
1.5	1.5	Conical Microtube	314352H01	100	24	22,000	60,063	11 x 40	Adapter	00376	1	1 place/adapter

Refer to manufacturer's recommendations for product performance information.

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Thermo Scientific A23-6x100 Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Aluminum
Capacity	6 x 100 mL
Maximum Speed	23,500 rpm
Tube Dimensions Ø x L	38.0 x 105.0 mm
Angle	25°
K Factor	503
Net Weight	7.2 kg /15.8 lbs
Warranty	10 years
Certifications	

	RCF	RADIUS
Maximum	62,976 x g	102 mm
Minimum	20,992 x g	34 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
A23-6x100	Max. Speed	23,500 rpm	21,100 rpm
	Max. RCF	62,976 x g	50,290 x g

A23-6x100 Rotor Package includes:

Description	Cat. No.
A23-6x100 Rotor	75003006
85 mL Nalgene PPCO Oak Ridge Tube with Sealing Cap (qty. 6)	3118-0085
Vacuum Grease	76003500
Lubricant for Metal Parts	75003786
Instruction Manual CD	50136234
Retaining Ring Pliers	65614

Accessories:

Description	Cat. No.
Rotor Stand	75003711

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
94.0	70.0	PP Thick-Walled Tube	76002872	1	8	23,500	62,976	38 x 105	Closure	75001568	1	Sealing Cap
94.0	90.0	PC Screw Cap Tube	75002829	1	8	23,500	62,976	38 x 105	Closure	75001540	1	Sealing Cap
94.0	70.0	PC Screw Cap Tube	75002810	1	8	23,500	62,976	38 x 105	Closure	75001568	1	Sealing Cap
85.0	81.0	Nalgene™ PC Oak Ridge Tube	3118-0085	100	8	23,500	62,976	29 x 114	Closure	Included	100	PP Sealing Cap
50.0	37.0	PP Flanged Tube	03147	25	8	23,500	62,976	29 x 102	Closure Adapter	03268 75003102	25 1	PP Snap-on 1 place/adaptor

 Biocontainment certification by Public Health England, Porton Down, UK. Refer to manufacturer's recommendations for product performance information.

LABWARE ORDERING INFORMATION continued

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	36.0	PC Flanged Tube	03146	25	8	23,500	62,976	29 x 102	Closure	03268	25	PP Snap-on
									Adapter	75003102	1	1 place/adapter
50.0	46.0	Nalgene FEP Oak Ridge Tube	3114-0050	10	8	23,500	62,976	29 x 108	Closure	Included	10	FEP Sealing
									Adapter	75003102	1	1 place/adapter
50.0	43.0	Nalgene PC Oak Ridge Tube	3138-0050	50	8	23,500	62,976	29 x 107	Closure	Included	50	PP Sealing
									Adapter	75003102	1	1 place/adapter
50.0	43.0	Nalgene PP Oak Ridge Tube	3139-0050	50	8	23,500	62,976	29 x 107	Closure	Included	50	PP Sealing
									Adapter	75003102	1	1 place/adapter
50.0	45.0	Conical Tissue Culture Tube	–	–	6	17,000	32,956	30 x 121	Adapter	75003103	–	1 place/adapter
50.0	43.0	Round Bottom Tube	–	–	6	23,500	62,976	30 x 117	Adapter	75003102	–	1 place/adapter
38.0	35.0	Round Bottom Tube	–	–	6	23,500	62,976	26 x 110	Adapter	75003094	–	1 place/adapter
30.0	28.0	PC Oak Ridge Tube	314348	25	8	23,500	62,976	25 x 94	Closure	314347	1	Aluminum Sealing Assembly
									Adapter	75003027	1	1 place/adapter
									Adapter	75003102	–	1 place/adapter
									Tool	314353	1	Tube Extractor Tool
30.0	28.0	PP Oak Ridge Tube	314349	25	8	23,500	62,976	25 x 94	Closure	314347	1	Aluminum Sealing Assembly
									Adapter	75003027	1	1 place/adapter
									Adapter	75003102	1	1 place/adapter
									Tool	314353	1	Tube Extractor Tool
30.0	28.0	PP Tube	75002951	10	8	23,500	62,976	18 x 100	Closure	75002957	10	PP Stopper
									Adapter	75003102	1	1 place/adapter
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	–	6	23,500	62,976	18 x 123	Adapter	76002906	–	1 place/adapter
16.0	16.0	Nalgene PP Oak Ridge Tube	3139-0016	–	6	23,500	62,976	18 x 123	Adapter	76002906	–	1 place/adapter
15.0	15.0	Conical Tissue Culture Tube	–	–	6	17,000	32,956	17 x 123	Adapter	75003095	–	1 place/adapter
12.0	11.0	PC Flanged Tube	03115	50	8	23,500	62,976	16 x 100	Closure	03266	50	PP Non-sealing
									Adapter	00402	1	1 place/adapter
									Adapter	75003102	1	1 place/adapter
12.0	–	Round Bottom Tube	2 x 12 ml	–	12	23,500	62,976	16 x 95	Adapter	75003093	–	2 places/adapter
10.0	9.1	PP Oak Ridge Tube	03929	50	8	23,500	62,976	16 x 80	Closure	03279	25	PP Sealing
									Adapter	75003024	1	1 place/adapter
									Adapter	75003102	1	1 place/adapter
10.0	9.1	PC Oak Ridge Tube	03020	25	8	23,500	62,976	16 x 80	Closure	03279	25	PP Sealing
									Adapter	75003024	1	1 place/adapter
									Adapter	75003102	1	1 place/adapter
7.0	6.0	PC Flanged Tube	03120	50	8	23,500	62,976	13 x 100	Closure	03265	50	PP Snap-on
									Adapter	00473	1	1 place/adapter
									Adapter	75003102	1	1 place/adapter
6.5	6.5	Round Bottom Tube	–	–	12	23,500	62,976	13 x 114	Adapter	75003092	–	2 places/adapter
4.0	3.0	PC Flanged Tube	03104	50	16	23,500	62,976	11 x 75	Closure	03264	50	PP Snap-on
									Adapter	75003023	1	2 places/adapter
									Adapter	75003102	1	1 place/adapter
3.5	3.5	Round Bottom Tube	4 x 3.5 ml	–	24	23,500	62,976	11 x 100	Adapter	75003091	–	4 places/adapter
3.0	3.0	GL Pyrex™ Tube	03100	50	16	5,000	2,851	10 x 75	Adapter	00364	1	2 places/adapter
									Adapter	75003102	1	1 place/adapter
1.5/2.0	–	Conical Microtube	–	–	24	23,500	62,976	11 x 40	Adapter	76002905	–	4 places/adapter

² Listed Max Speeds for Conical Disposable tubes may be higher than OEM tube specifications and may result in crazing and other cosmetic damage to the tube. Do not use these tubes more than once. Refer to manufacturer's recommendations for product performance information.

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Thermo Scientific Fiberlite F23-48x1.5 Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Carbon Fiber Composite
Capacity	48 x 1.5 mL
Maximum Speed	23,000 rpm
Tube Dimensions Ø x L	11 x 40 mm
Angle	45°
K Factor	199
Net Weight	4.54 kg/10.0 lbs
Warranty	15 years

	RCF	RADIUS
Maximum	57,368 x g	97 mm
Minimum	37,851 x g	64 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
Fiberlite F23-48x1.5	Max. Speed	23,000 rpm	18,500 rpm
	Max. RCF	57,368 x g	37,116 x g

Fiberlite F23-48x1.5 Rotor Package includes:

Description	Cat. No.
Fiberlite F23-48x1.5 Rotor	096-484075
1.5 mL Nalgene PPCO Oak Ridge Tube with Sealing Cap (qty. 48)	314352H01
Rotor Lid Assembly	099-484075
O-Ring Refresher Kit ¹	021-484075

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ² (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
1.5	1.5	Polyallomer Microtube	314352H01	100	48	23,000	77,427	11 x 40	Closure	Included	–	Snap-on Seal

¹ Includes 5 O-Rings and 3 O-Ring Grease Packets.
Refer to manufacturer's recommendations for product performance information.


Find out more at thermofisher.com/rotors

Superspeed Rotors

Thermo Scientific A27-6x50 Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Aluminum
Capacity	6 x 50 mL
Maximum Speed	27,000 rpm
Tube Dimensions Ø x L	29 x 108 mm
Angle	34°
K Factor	485
Net Weight	5.58 kg/12.3 lbs
Warranty	10 years
Certifications	

	RCF	RADIUS
Maximum	79,057 x g	97 mm
Minimum	19,561 x g	24 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
A27-6x50	Max. Speed	27,000 rpm	24,000 rpm
	Max. RCF	79,057 x g	62,465 x g

A27-6x50 Rotor Package includes:

Description	Cat. No.
A27-6x50 Rotor	75003007
50 mL Nalgene PPCO Oak Ridge Tube with Sealing Cap (qty. 6)	3139-0050
O-Ring Replacement Kit	75007006
Retaining Ring Pliers	65614
Instruction Manual CD	50136234
Lubricant for Metal Parts	75003786
Vacuum Grease	76003500

Accessories:

Description	Cat. No.
Ultracrimp Sealing Tool and Crimp Gauge	03920
Crimp Gauge Replacement	03919
Extra Plugs and Caps	03999
Rotor Cap	03538

 Biocontainment certification by Public Health England, Porton Down, UK.

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	50.0	PA Ultracrimp Tube	03528	25	6	27,000	79,057	29 x 108	Closure	Included	25	Plugs and Aluminum Caps
									Accessory	03538	1	Rotor Cap
									Accessory	03529	1	Tube Racks
									Accessory	03920	1	Sealing Tool
50.0	43.0	Nalgene™ PC Oak Ridge Tube	3138-0050	50	6	27,000	79,057	29 x 108	Closure	Included	50	PP Sealing
50.0	43.0	Nalgene PPCO Oak Ridge Tube	3139-0050	50	6	27,000	79,057	29 x 107	Closure	Included	50	PP Sealing
50.0	46.0	FEP Oak Ridge Tube	3114-0050	10	6	21,500	50,129	29 x 108	Closure	Included	10	FEP Screw Top
50.0	37.0	PP Flanged Tube	03147	25	6	27,000	79,057	29 x 102	Closure	03268	25	PP Snap-on
50.0	36.0	PC Flanged Tube	03146	25	6	27,000	79,057	29 x 102	Closure	03268	25	PP Snap-on
50.0	46.0	PA Flanged Tube	03139	25	6	27,000	79,057	28 x 104	–	–	–	–
50.0	50.0	SS Flanged Tube	00517	1	6	24,000	62,465	28 x 101	Closure Tool	00518 01014	1 1	SS Sealing Wrench
30.0	28.0	PC Oak Ridge Tube	314348	25	6	27,000	79,057	25 x 94	Closure	314347	1	Aluminum Sealing
									Adapter	75003027	2	1 place/adapter
									Tool	314353	1	Tube Extractor Tool
30.0	28.0	PP Oak Ridge Tube	314349	25	6	27,000	79,057	25 x 94	Closure	314347	1	Aluminum Sealing
									Adapter	75003027	2	1 place/adapter
									Tool	314353	1	Tube Extractor Tool
30.0	–	Glass Tube	–	6	6	–	–	24 x 106	Adapter	00368	1	Optional Caps
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	–	–	27,000	79,057	18 x 107	Closure	Included	–	PA Sealing
									Adapter	75003026	2	1 place/adapter
16.0	16.0	Nalgene PP Oak Ridge Tube	3139-0016	–	–	27,000	79,057	18 x 107	Closure	Included	–	PA Sealing
									Adapter	75003026	2	1 place/adapter
16.0	13.0	PP Flanged Tube	03244	50	6	27,000	79,057	18 x 100	Closure	03299	50	PP Snap-On
									Adapter	75003026	2	1 place/adapter
15.0	–	Glass Tube	–	6	6	11,000	13,122	18 x 102	Adapter	00363	1	1 place/adapter
14.0	11.0	PC Flanged Tube	03246	50	6	27,000	79,057	18 x 75	Closure	03269	50	PP Snap-on
									Adapter	75003025	2	1 place/adapter
12.0	10.0	PP Flanged Tube	03116	50	6	27,000	79,057	16 x 100	Closure	03266	50	PP Nonsealing
									Adapter	75003028	2	1 place/adapter
12.0	11.0	PC Flanged Tube	03115	50	6	27,000	79,057	16 x 100	Closure	03266	50	PP Nonsealing
									Adapter	75003028	2	1 place/adapter
10.0	10.0	Nalgene PP Oak Ridge Tube	3139-0010	–	–	27,000	79,057	16 x 83	Closure	Included	–	PA Sealing
									Adapter	75003024	2	1 place/adapter
10.0	9.1	PP Oak Ridge Tube ²	03929	50	6	27,000	79,057	16 x 80	Closure	03279	25	PP Sealing
									Adapter	75003024	2	1 place/adapter
10.0	9.1	PC Oak Ridge Tube	03020	25	6	27,000	79,057	16 x 80	Closure	03279	25	PP Sealing
									Adapter	75003024	2	1 place/adapter
10.0	10.0	Nalgene PC Oak Ridge Tube	3138-0010	–	–	27,000	79,057	16 x 83	Closure	Included	–	PA Sealing
									Adapter	75003024	1	1 place/adapter
7.0	6.0	PC Flanged Tube	03120	50	12	24,000	62,465	13 x 100	Closure	03265	50	PP Snap-On
									Adapter	00473	2	2 places/adapter
7.0	6.0	PP Flanged Tube	03121	50	12	21,000	47,825	13 x 100	Closure	03265	50	PP Snap-On
									Adapter	00473	1	2 places/adapter
4.0	3.0	PP Flanged Tube	03105	50	12	27,000	79,057	11 x 75	Closure	03264	50	PP Snap-On
									Adapter	75003023	2	2 places/adapter
4.0	3.0	PC Flanged Tube	03104	50	12	27,000	79,057	11 x 75	Closure	03264	50	PP Snap-On
									Adapter	75003023	2	2 places/adapter
3.0	3.0	GL Pyrex™ Tube	03100	50	12	5,000	2,711	10 x 75	Adapter	00364	1	2 places/adapter
1.5	1.5	Conical Microtube	314352H01	100	18	27,000	79,057	11 x 40	Adapter	75003029	2	3 places/adapter

² Rated to 21,000 rpm when partially filled.

Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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Thermo Scientific A27-8x50 Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Aluminum
Capacity	8 x 50 mL
Maximum Speed	27,000 rpm
Tube Dimensions Ø x L	29 x 108 mm
Angle	34°
K Factor	408
Net Weight	6.8 kg/15.0 lbs
Warranty	10 years
Certifications	

	RCF	RADIUS
Maximum	87,207 x g	107 mm
Minimum	26,896 x g	33 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
A27-8x50	Max. Speed	27,000 rpm	24,000 rpm
	Max. RCF	87,207 x g	68,905 x g

A27-8x50 Rotor Package includes:

Description	Cat. No.
A27-8x50 Rotor	75003008
50 mL Nalgene PPCO Oak Ridge Tube with Sealing Cap (qty. 8)	3139-0050
Vacuum Grease	76003500
Lubricant for Metal Parts	75003786
O-Ring Replacement Kit	75007009
Retaining Ring Pliers	65614
Instruction Manual CD	50136234

Accessories:

Description	Cat. No.
Ultracrimp Sealing Tool and Crimp Gauge	03920
Ultracrimp Gauge Replacement	03919
Ultracrimp Extra Plugs and Caps	03999
Rotor Cap	03538

 Biocontainment certification by Public Health England, Porton Down, UK.

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	50.0	PA Ultracrimp Tube	03528	25	8	27,000	87,207	29 x 108	Closure	Included	25	Plugs and Aluminum Caps
									Accessory	03538	1	Rotor Cap
									Accessory	03529	2	Tube Racks
									Accessory	03920	1	Crimp Sealing Tool
50.0	37.0	PP Flanged Tube	03147	25	8	27,000	87,207	29 x 102	Closure	03268	25	PP Snap-on
50.0	36.0	PC Flanged Tube	03146	25	8	27,000	87,207	29 x 102	Closure	03268	25	PP Snap-on
50.0	46.0	PA Thin-Walled Tube	03139	25	8	21,000	52,755	28 x 104	–	–	–	–
50.0	46.0	Nalgene™ FEP Oak Ridge Tube	3114-0050	10	8	21,000	52,755	28 x 108	Closure	Included	10	FEP Sealing
50.0	43.0	Nalgene PC Oak Ridge Style Tube	3138-0050	50	8	27,000	87,207	29 x 107	Closure	Included	50	PP Sealing
50.0	43.0	Nalgene PPCO Oak Ridge Style Tube	3139-0050	50	8	27,000	87,207	29 x 107	Closure	Included	50	PP Sealing
50.0	50.0	SS Flanged Tube	00517	1	8	20,000	47,850	28 x 101	Closure	00518	1	Stainless Steel Sealing Wrench
									Tool	01014	1	
30.0	28.0	Nalgene PC Oak Ridge Tube	3138-0030	50	8	27,000	87,207	26 x 102	Closure	Included	50	PP Sealing
									Adapter	75003027	2	1 place/adapter
30.0	28.0	Nalgene PP Oak Ridge Tube	3139-0030	50	8	27,000	87,207	26 x 102	Closure	Included	50	PP Sealing
									Adapter	75003027	2	1 place/adapter
30.0	–	Glass Tube	–	–	8	–	–	24 x 106	Adapter	00368	1	Optional Caps
16.0	16.0	Nalgene PP Oak Ridge Tube	3139-0016	–	–	27,000	87,207	18 x 107	Closure	Included	–	PA Sealing
									Adapter	75003026	2	1 place/adapter
16.0	13.0	PP Flanged Tube	03244	50	8	27,000	87,207	18 x 100	Closure	03299	50	HDPE Sealing
									Adapter	75003026	2	1 place/adapter
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	–	8	27,000	87,207	18 x 107	Closure	Included	–	PA Sealing
									Adapter	75003026	2	1 place/adapter
15.0	15.0	Conical Tube	–	–	8	–	–	–	Adapter	75007321	2	1 place/adapter
14.0	11.0	PC Flanged Tube	03246	50	8	27,000	87,207	18 x 75	Closure	03269	50	PP Snap-on
									Adapter	75003025	2	1 place/adapter
12.0	10.0	PP Flanged Tube	03116	50	8	27,000	87,207	16 x 100	Closure	03266	50	PP Snap on
									Adapter	00402	2	1 place/adapter
12.0	11.0	PC Flanged Tube	03115	50	8	27,000	87,207	16 x 100	Closure	03266	50	PP Snap on
									Adapter	00402	2	1 place/adapter
10.0	9.1	PP Oak Ridge Tube	03929	50	8	27,000	87,207	16 x 80	Closure	03279	25	PP Snap on
									Adapter	75003024	2	1 place/adapter
10.0	10.0	Nalgene PC Oak Ridge Tube	3138-0010	–	–	27,000	87,207	16 x 83	Closure	Included	–	PA Sealing
									Adapter	75003024	2	1 place/adapter
10.0	10.0	Nalgene PP Oak Ridge Tube	3139-0010	–	–	27,000	87,207	16 x 83	Closure	Included	–	PA Sealing
									Adapter	75003024	2	1 place/adapter
10.0	9.1	PC Oak Ridge Tube	03020	25	8	27,000	87,207	16 x 80	Closure	03279	25	PP Sealing
									Adapter	75003024	2	1 place/adapter
7.0	6.0	PC Flanged Tube	03120	50	8	21,000	52,755	13 x 100	Closure	03265	50	PP Snap-On
									Adapter	00473	1	1 place/adapter
7.0	6.0	PP Flanged Tube	03121	50	8	21,000	52,755	13 x 100	Closure	03265	50	PP Snap-On
									Adapter	00473	1	1 place/adapter
4.0	3.0	PP Flanged Tube	03105	50	8	27,000	87,207	11 x 75	Closure	03264	50	PP Snap-On
									Adapter	75003023	2	2 place/adapter
4.0	3.0	PC Flanged Tubes	03104	50	16	27,000	87,207	11 x 75	Closure	03264	50	PP Snap-On
									Adapter	75003023	2	2 places/adapter
3.0	3.0	GL Pyrex™ Tubes	03100	50	16	5,000	2,991	10 x 75	Adapter	00364	1	2 places/adapter
1.5	1.5	Conical Microtube	314352H01	100	24	27,000	87,207	11 x 40	Adapter	75003029	1	3 places/adapter

Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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Thermo Scientific T29-8x50 Rotor



ROTOR SPECIFICATIONS

Type	Fixed Angle
Material	Titanium
Capacity	8 x 50 mL
Maximum Speed	29,000 rpm
Tube Dimensions Ø x L	29 x 108 mm
Angle	34°
K Factor	354
Net Weight	8.4 kg/18.5 lb
Warranty	10 years
Certifications	

	RCF	RADIUS
Maximum	100,605 x g	107 mm
Minimum	31,028 x g	33 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC	
		SORVALL LYNX 6000	SORVALL LYNX 4000
T29-8x50	Max. Speed	29,000 rpm	24,000 rpm
	Max. RCF	100,605 x g	68,905 x g

T29-8x50 Rotor Package includes:

Description	Cat. No.
T29-8x50 Rotor	75003009
50 mL Nalgene PPCO Oak Ridge Tube with Sealing Cap (qty. 8)	3139-0050
Vacuum Grease	76003500
Lubricant for Metal Parts	75003786
O-Ring Replacement Kit	75007009
Retaining Ring Pliers	65614
Instruction Manual CD	50136234

Accessories:

Description	Cat. No.
Ultracrimp Sealing Tool and Crimp Gauge	03920
Ultracrimp Gauge Replacement	03919
Extra Ultracrimp Plugs and Caps	03999
Rotor Cap	03538
Rotor Stand	75003711

LABWARE ORDERING INFORMATION

Tube Vol. (mL)	Vol. Fill (mL)	Description	Cat. No.	Qty. /Pkg.	Tubes /Rotor	Max. Speed (rpm)	Max. RCF ¹ (x g)	Dims ØxL (mm)	REQUIRED TUBE CLOSURES, ADAPTERS, TOOLS & ACCESSORIES			
									Type	Cat. No.	Qty. /Pkg.	Description
50.0	50.0	PA Ultracrimp Tube	03528	25	8	29,000	100,605	29 x 108	Closure	Included	25	Plugs and Aluminum Caps
									Accessory	03538	1	Rotor Cap
									Accessory	03529	2	Tube Racks
									Accessory	03920	1	Crimp Sealing Tool
50.0	37.0	PP Flanged Tube	03147	25	8	29,000	100,605	29 x 102	Closure	03268	25	PP Snap-on
50.0	36.0	PC Flanged Tube	03146	25	8	29,000	100,605	29 x 102	Closure	03268	25	PP Snap-on
50.0	43.0	PC Oak Ridge	010-0507	–	–	29,000	100,605	29 x 103	Closure	Included	–	PP sealing
50.0	46.0	PA Thin-Walled Tube	03139	25	8	21,000	52,755	28 x 104	–	–	–	–
50.0	46.0	Nalgene™ FEP Oak Ridge Tube	3114-0050	10	8	21,000	52,755	28 x 108	Closure	Included	10	FEP Sealing
50.0	43.0	Nalgene PC Oak Ridge Style Tube	3138-0050	50	8	29,000	100,605	29 x 107	Closure	Included	50	PP Sealing
50.0	43.0	Nalgene PPCO Oak Ridge Style Tube	3139-0050	50	8	29,000	100,605	29 x 107	Closure	Included	50	PP Sealing
50.0	50.0	SS Flanged Tube	00517	1	8	20,000	47,850	28 x 101	Closure	00518	1	Stainless Steel Sealing
									Tool	01014	1	Wrench
30.0	28.0	Nalgene PC Oak Ridge Tube	3138-0030	50	8	29,000	100,605	26 x 102	Closure	Included	50	PP Sealing
									Adapter	75003027	2	1 place/adapter
30.0	28.0	Nalgene PP Oak Ridge Tube	3139-0030	50	8	29,000	100,605	26 x 102	Closure	Included	50	PP Sealing
									Adapter	75003027	2	1 place/adapter
30.0	–	Glass Tube	–	–	8	–	–	24 x 106	Adapter	00368	1	Optional Caps
16.0	16.0	Nalgene PC Oak Ridge Tube	3138-0016	50	8	29,000	100,605	–	Closure	Included	1	PA Sealing
									Adapter	75003026	2	1 place/adapter
16.0	16.0	Nalgene PP Oak Ridge Tube	3139-0016	50	8	29,000	100,605	–	Closure	Included	1	PA Sealing
									Adapter	75003026	2	1 place/adapter
16.0	13.0	PP Flanged Tube	03244	50	8	29,000	100,605	18 x 100	Closure	03299	50	HDPE Sealing
									Adapter	75003026	2	1 place/adapter
15.0	15.0	Conical Tube	–	–	8	–	–	–	Adapter	75007321	2	1 place/adapter
14.0	11.0	PC Flanged Tube	03246	50	12	29,000	100,605	18 x 75	Closure	03269	50	PP Snap-on
									Adapter	75003025	2	1 place/adapter
12.0	10.0	PP Flanged Tube	03116	50	8	29,000	100,605	16 x 100	Closure	03266	50	PP Snap on
									Adapter	75003028	2	1 place/adapter
12.0	11.0	PC Flanged Tube	03115	50	8	29,000	100,605	16 x 100	Closure	03266	50	PP Snap on
									Adapter	75003028	2	1 place/adapter
10.0	10.0	Nalgene PC Oak Ridge Tube	3138-0010	50	8	29,000	100,605	–	Closure	Included	1	PA Sealing
									Adapter	75003024	2	1 place/adapter
10.0	10.0	Nalgene PP Oak Ridge Tube	3139-0010	50	8	29,000	100,605	–	Closure	Included	1	PA Sealing
									Adapter	75003024	2	1 place/adapter
10.0	9.1	PP Oak Ridge Tube	03929	50	8	29,000	100,605	16 x 80	Closure	03279	25	PP Snap on
									Adapter	75003024	2	1 place/adapter
10.0	9.1	PC Oak Ridge Tube	03020	25	8	29,000	100,605	16 x 80	Closure	03279	25	PP Sealing
									Adapter	75003024	2	1 place/adapter
7.0	6.0	PC Flanged Tube	03120	50	8	21,000	52,755	13 x 100	Closure	03265	50	PP Snap-On
									Adapter	00473	1	1 place/adapter
7.0	6.0	PP Flanged Tube	03121	50	8	21,000	52,755	13 x 100	Closure	03265	50	PP Snap-On
									Adapter	00473	1	1 place/adapter
4.0	3.0	PP Flanged Tube	03105	50	8	29,000	100,605	11 x 75	Closure	03264	50	PP Snap-On
									Adapter	75003023	2	2 place/adapter
4.0	3.0	PC Flanged Tubes	03104	50	16	29,000	100,605	11 x 75	Closure	03264	50	PP Snap-On
									Adapter	75003023	2	2 places/adapter
3.0	3.0	GL Pyrex™ Tubes	03100	50	16	5,000	2,991	10 x 75	Adapter	00364	1	2 places/adapter
1.5	1.5	Conical Microtube	314352H01	100	24	29,000	100,605	11 x 40	Adapter	75003029	2	3 places/adapter

Refer to manufacturer's recommendations for product performance information.

Find out more at thermofisher.com/rotors

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Superspeed Rotors

Thermo Scientific TCF-20 Continuous Flow and Zonal Rotors



ROTOR SPECIFICATIONS

Type	Continuous Flow / Zonal	
Material	Titanium	
Capacity	1350 mL	
Maximum Speed	20,000 rpm	
K Factor	620	
Net Weight	7.8 kg/17.2 lbs	
Warranty	5 years	
	RCF	RADIUS
Maximum	42,931 x g	96.0 mm
Minimum	16,099 x g	36.0 mm

ROTOR AND ACCESSORIES ORDERING INFORMATION

		THERMO SCIENTIFIC SORVALL LYNX 6000
TCF-20 Rotor	Max. Speed	20,000 rpm
	Max. RCF	42,931 x g

TCF-20 Continuous Flow Rotor Package includes:

Description	Cat. No.
TCF-20 Continuous Flow Rotor Package	75003012
Titanium Rotor Body	75000604
Rotor Lid	75004012
Septa	49609
Tube Holder Assembly	75000601
Tool Kit	75004052
Continuous Flow Assembly	75000605
Instruction Manual	50139705

TCF-20 Zonal Flow Rotor Package includes:

Description	Cat. No.
TCF-20 Zonal Flow Rotor Package	75003013
Titanium Rotor Body	75000604
Rotor Lid	75004012
Septa	49609
Tube Holder Assembly	75000601
Tool Kit	75004052
Zonal Mode Assembly	75004051
Instruction Manual	50139705

ACCESSORIES ORDERING INFORMATION

Accessories:

Description	Cat. No.
Peristaltic Pump	20210448
Latex Tubing	13117
O-Ring Set for Continuous Flow Assembly	75004006
O-Ring Set for Zonal Mode Assembly	75004007
Screws and Small Parts	75004008
Bearing Kit	75004050
Tube Holder Assembly	75000601
Titanium Rotor Body	75000604
Rotor Lid	75004012
Septa	49609
Tool Kit	75004052
Continuous Flow Assembly	75000605
Zonal Mode Assembly	75004051
Rotor Unlocking Tool	75000602

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