



Thermo Scientific ultracentrifuge rotor guide

Thermo Scientific ultracentrifuge rotors*

Thermo Scientific Rotors	Max. speed (rpm)	Max. rcf (X G) ¹	K factor ²	Capacity: places x volume (mL)	See page
Fixed angle					
Fiberlite™ F65L-6x13.5 rotor	65,000	324,000	70	6 x 13.5	4
Fiberlite F50L-8x39 rotor	50,000	266,000	87	8 x 39	5
Fiberlite F50L-24x1.5 rotor	50,000	280,000	33	24 x 1.5	6
Fiberlite F37L-8x100 rotor	37,000	182,460	168	8 x 100	7
T-8100 rotor rotor	100,000	802,006	17.7	8 x 6.5	8
T-890 rotor	90,000	692,149	25.1	8 x 12.5	10
TFT-80.4 rotor	80,000	468,246	25.8	10 x 4.4	12
TFT-80.2 rotor	80,000	429,643	22.6	12 x 2	14
T-1270 rotor	70,000	448,811	36.3	12 x 12.5	15
T-865 rotor	65,000	429,459	51.7	8 x 36	17
T-1250 rotor	50,000	301,032	68.7	12 x 36	19
T-647.5 rotor	47,500	250,259	121	6 x 100	21
TFT-45.6 rotor	45,000	238,859 / 204,252 ³	41.1/ 49.6 ³	40 x 6.0	23
A-621 rotor	21,000	204,252	751	6 x 250	25
Swinging bucket					
TH-660 rotor	60,000	488,576	44.4	6 x 4.4	26
AH-650 rotor	50,000	296,005	53	6 x 5	28
TH-641 rotor	41,000	287,660	114	6 x 13.2	30
SureSpin™ 632 (17 mL) rotor	32,000	191,759	221	6 x 17	32
SureSpin 632 (38.5 mL) rotor	32,000	187,295	194	6 x 38.5	34
SureSpin 630 (17 mL) rotor**	30,000	166,880	268	6 x 17	36
SureSpin 630 (36 mL) rotor**	30,000	166,880	219	6 x 36	38
AH-629 (17 mL) rotor	29,000	155,846	284	6 x 17	40
AH-629 (36 mL) rotor	29,000	151,243	242	6 x 36	42

¹RCF calculated for maximum rotor radius.

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

³Outer row value/inner row value.

*Zonal and continuous flow rotors are also available. Please contact your sales representative for more information.

Thermo Scientific ultracentrifuge rotors, continued.

Thermo Scientific rotors	Max. speed (rpm)	Ma max. ref (x g) ¹	K factor ²	Capacity: places x volume (mL)	See page
Vertical					
StepSaver™ 70V6 rotor	70,000	467,420	8.7	8 x 6	44
StepSaver 65V13 rotor	65,000	400,671	12.9	8 x 13.5	46
StepSaver 50V39 rotor	50,000	241,831	35.8	8 x 39	48
TV-1665 rotor	65,000	414,357	9.8	16 x 6	50
TV-860 rotor	60,000	340,596	25.2	8 x 35	52
Neo Angle					
TN-890	90,000	645,101	10	8 x 5	53
TN-1065	65,000	401,614	23	10 x 12	54
TN-1865	65,000	430,874	15	18 x 5	55

** This rotor has been replaced by the respective SureSpin 632 rotor. Please contact your sales representative for availability of related accessories and labware.

Thermo Scientific Fiberlite F65L-6x13.5 rotor



Rotor specifications

Type	Fixed angle	
Material	Carbon fiber composite	
Capacity	6 x 13.5 mi	
Maximum speed	65,000 rpm	
Maximum sample density	1.2 G/mL	
Tube dimensions Ø x L	16 x 76 mm	
Angle	30°	
K factor	70	
Net weight	4.31 kg / 9.5 lbs	
Warranty	15 Years	
	rcf	radius
Maximum	324,000 xg	68.4 mm
Minimum	99,372 xg	21 mm

Fiberlite F65L-6x13.5 rotor package includes

Description	Cat. no.
Rotor lid assembly	099-067135
O-ring refresher kit (includes 5 o-rings, 3 vacuum grease packets (65937), 3 lubricant packets (61556) 021-067135	021-067135
Lid fastening tool	014-2455
PC bottle assembly (qty. 3 pkg. of 2)	010-0128
Tube removal tool	097-1133
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Ultraspeed rotor log book	52384
Extra overspeed decal (65,000 rpm)	014-2466

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
13.5	10.4	PC bottle assembly	010-1382	2	6	65,000	324,000	16 x 76	Closure	Included	2	Aluminum sealing assembly
									Tool	097-1133	1	Removal tool
13.5	10.4	PC bottle only	010-1380	6	6	65,000	324,000	16 x 76	—	—	—	—
13.5	8.9	Optiseal™ polyallomer tube	010-1262	56	6	65,000	324,000	16 x 60	Closure	010-1355	2	Spacer
									Tool	017-0045	1	Spacer removal tool
									Tool	017-0044	1	Tube extraction tool

Thermo Scientific Fiberlite F50L-8x39 rotor



Rotor specifications

Type	Fixed angle	
Material	Carbon fiber composite	
Capacity	8 x 39 mL	
Maximum speed	50,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	25 x 89 mm	
Angle	23°	
K factor	87	
Net weight	8.39 kg / 18.5 lbs	
Warranty	15 Years	
	rcf	radius
Maximum	266,000 xg	95.07 mm
Minimum	109,200 xg	43 mm

Fiberlite F50L-8x39 rotor package includes:

Description	Cat. no.
Rotor lid assembly	099-087051
O-ring refresher kit (includes 5 o-rings, 3 vacuum grease packets (65937), 3 lubricant packets (61556) 021-087051	021-087051
Lid fastening tool	014-2455
PC bottle assembly (qty. 4 pkg. of 2)	010-1371
Tube removal tool	097-1133
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Ultraspeed rotor log book	52384
Extra overspeed decal (50,000 rpm)	014-2456

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty./pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty./pkg.	Description
Required tube closures, adapters, tools & accessories												
39	26.3	PC bottle assembly	010-1371	2	8	50,000	266,000	25 x 89	Closure	Included	2	Aluminum sealing assembly
									Tool	097-1133	1	Removal tool
39	26.3	PC bottle only	010-1370	6	6	50,000	266,000	25 x 89	–	–	–	–
39	32.4	Optiseal™ polyallomer tube	010-1289	56	6	50,000	266,000	25 x 77	Closure	010-1356	2	Spacer
									Tool	017-0045	1	Tube removal tool
									Tool	017-0044	1	Tube extraction tool

Thermo Scientific Fiberlite F50L-24x1.5 rotor



Rotor specifications		
Type	Fixed Angle	
Material	Carbon Fiber Composite	
Capacity	24 x 1.5 mL	
Maximum Speed	50,000 rpm	
Maximum Sample Density	1.2 g / mL	
Tube Dimensions Ø x L	11 x 40 mm	
Angle	45°	
K Factor	33	
Net Weight	5.3 kg / 11.5 lbs	
Warranty	15 years	
	rcf	radius
Maximum	280,000 xg	100 mm
Minimum	201,600 xg	72 mm

Fiberlite F50L-24x1.5 rotor package includes:

Description	Cat. no.
Rotor lid assembly	099-247028
O-ring refresher kit (includes 5 o-rings, 3 vacuum grease packets (65937), 3 lubricant packets (61556))	021-247028
Lid fastening tool	014-2455
1.5 mL polyallomer microtubes (qty. 1 pkg. of 100)	314352H01
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Ultraspeed rotor log book	52384
Extra overspeed decal (65,000 rpm)	014-2456

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty./ Pkg.	Description
Required tube closures, adapters, tools & accessories												
1.5	1.5	Polyallomer microtubes ¹	314352H01	100	24	50,000	280,000	11 x 40	Closure	Included	–	Snap-on seals

¹Polyallomer microtubes may be run partially filled at the maximum speed from 1.5 To 0.2 ML volume per tube.

Thermo Scientific Fiberlite F37L-8x100 rotor



Rotor specifications

Type	Fixed angle	
Material	Carbon fiber composite	
Capacity	8 x 100 mL	
Maximum speed	37,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	38 x 102 mm	
Angle	25°	
K factor	168	
Net weight	11.34 kg / 25 lbs	
Warranty	15 years	
	rcf	Radius
Maximum	182,460 xg	119 mm
Minimum	73,600 xg	48 mm

Fiberlite F37L-8x100 rotor package includes:

Description	Cat. no.
Rotor lid assembly	099-087056
O-ring refresher kit (5 o-rings, 3 vacuum grease packets (017-0025))	021-087056
Lid fastening tool	014-2455
Pc bottle assembly (qty. 1 pkg. of 8)	010-1333
Tube removal tool	097-1133
Rotor stand	20048993
Vacuum grease	017-0025
Ultraspeed rotor log book	52384
Extra overspeed decal (37,000 rpm)	014-2889

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty./pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcp. (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty./pkg.	Description
Required tube closures, adapters, tools & accessories												
100	70	PC bottle assembly	010-1333	8	8	37,000	182,460	38 x 102	Closure	Included	8	Aluminum sealing assembly
									Tool	097-1133	1	Removal tool
100	70	PC bottle only	010-1331	8	8	37,000	182,460	38 x 102	–	–	–	–
39	26.3	PC bottle assembly	010-1371	2	8	30,000	119,950	25 x 89	Adapter	010-0189	2	1 Place/adapter
									Closure	Included	2	Aluminum sealing assembly
									Tool	097-1133	1	Removal tool
39	26.3	PC bottle only	010-1370	6	8	30,000	119,950	25 x 89	–	–	–	–
13.5	10.4	PC bottle assembly	010-1382	2	8	30,000	119,950	16 x 76	Adapter	010-0191	2	1 Place/adapter
									Closure	Included	2	Aluminum sealing assembly
									Tool	097-1133	1	Removal tool
13.5	10.4	PC bottle only	010-1380	6	8	30,000	119,950	16 x 76	–	–	–	–

Thermo Scientific T-8100 rotor



Rotor specifications

Type	Fixed angle	
Material	Titanium	
Capacity	8 x 6.5 mL	
Maximum speed	100,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	13 x 64 mm	
Angle	26°	
K factor	17.7	
Net weight	3.7 kg / 8.2 lbs	
Warranty	7 years	
	rcf	radius
Maximum	802,006 xg	71.8 mm
Average	599,829 xg	53.7 mm
Minimum	397,652 xg	35.6 mm

Rotor and accessories ordering information

T-8100 rotor package includes:

Description	Cat. no.
T-8100 rotor	45621
Rotor cover o-ring (qty. 2)	45657
Rotor cover locking nut o-ring (qty. 5)	45658
Rotor cover tool	20490312
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (100,000 rpm)	45659
Ultracentrifuge rotor log book	52384
Instruction manual	45623

Accessories

Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Tube rack	03921
Rotor cap	45662
Tube cap vise	52176
Tube removal tool	52177

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
6.0	5.7	PA ultracrimp tube	03945	50	8	100,000	802,006	13 x 66	Closure	Included	50	Ultracrimp plugs and caps
									Closure	45662	1	Rotor cap
									Accessory	03921	1	Tube rack
									Tool	03920	1	Ultracrimp sealing tool
6.0	5.7	PET clearcrimp tube	01086	50	8	100,000	802,006	13 x 66	Closure	Included	50	Ultracrimp plugs and caps
									Closure	45662	1	Rotor cap
									Accessory	03921	1	Tube rack
									Tool	03920	1	Ultracrimp sealing tool
6.5	5.8	PA thin-walled tube	45660	50	8	80,000	513,284	13 X 64	Closure	45801	1	Multipiece Titanium assembly
									Tool	52176	1	Tube cap vise
									Tool	52177	1	Tube removal tool
6.5	5.8	PC thin-walled tube	45661	50	8	60,000	288,722	13 X 64	Closure	45801	1	Multipiece Titanium assembly
									Tool	52176	1	Tube cap vise
									Tool	52177	1	Tube removal tool

Thermo Scientific T-890 rotor



Rotor specifications

Type	Fixed angle	
Material	Titanium	
Capacity	8 x 12.5 mL	
Maximum speed	90,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	16 x 80 mm	
Angle	25°	
K factor	25.1	
Net weight	4.5 kg / 9.9 lbs	
Warranty	7 years	
	rcf	radius
Maximum	692,149 xg	76.5 mm
Average	500,790 xg	55.3 mm
Minimum	309,431 xg	34.2 mm

Rotor and accessories ordering information

T-890 rotor package includes:

Description	Cat. no.
T-890 rotor	11690
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (90,000 rpm)	11696
Rotor cover	70050436
Rotor cover o-ring (qty. 2)	20290464
Rotor cover locking nut	70048779
Rotor cover locking nut o-ring (qty. 5)	91910
Rotor cover tool	20490312
Ultracentrifuge rotor log book	52384
Instruction manual	11656

Accessories

Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Tube racks (qty. 2)	03922
Wrench for re-seal tubes	75000478
Tube removal tool for re-seal tubes	75000479
Tool kit for multipiece assembly (includes tube cap vise (52176), tube removal tool (52177), torque wrench (52881) and 7/16" wrench (52882))	52609

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat.no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
12.5	11.8	PA thin-walled tube	03128	50	8	75,000	480,659	16 x 76	Closure	52178	1	Multipiece Aluminum seal Assembly ¹
									Closure	52634	1	Multipiece Titanium seal Assembly ¹
									Accessories	52609	1	Tool kit for Multipiece Assembly
11.5	11.5	PA ultracrimp tube	03987	50	8	90,000	692,149	16 x 76	Closure	Included	50	Plug and cap
									Closure	03993	1	Rotor cap
									Accessory	03922	1	Tube racks
									Tool	03920	1	Crimp sealing tool
11.5	11.5	PET clearcrimp tube	01087	50	8	90,000	692,149	16 x 76	Closure	Included	50	Plug and cap
									Closure	03993	1	Rotor cap
									Accessory	03922	1	Tube racks
									Tool	03920	1	Crimp sealing tool
10.0	6.8	PA thick-walled tube	03238	50	8	45,000	173,037	16 x 71	–	–	–	–
10.0	6.8	PC thick-walled tube	03237	50	8	65,000	361,028	16 x 71	–	–	–	–
10.0	9.1	PP oak ridge tube ²	03929	50	8	50,000	213,626	16 x 80	Closure	03613	25	Nylon screw cap
10.0	9.1	PC oak ridge tube ³	03020	25	8	65,000	361,028	16 x 80	Closure	03613	25	Nylon screw cap
6.3	6.5	PA cone-top tube	75000450	50	8	80,000	546,883	16 x 45	Closure	75000452	1	16 mm crown ⁴
									Closure	75000451	10	Stainless steel Plug
									Tool	75000478	1	Wrench
									Tool	75000479	1	Tube removal tool

¹Either aluminum rated to 65,000 rpm (52178) or titanium rated to 75,000 rpm (52634) closure is required.

²Rated to 21,000 rpm when partially filled.

³Rated to 50,000 rpm when partially filled.

⁴Must order one crown for each place in the rotor.

Thermo Scientific TFT-80.4 rotor



Rotor specifications

Type	Fixed angle	
Material	Titanium	
Capacity	10 x 4.4 mL	
Maximum speed	80,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	11 x 60 mm	
Angle	25°	
K factor	25.8	
Net weight	3.5 kg / 7.7 lbs	
Warranty	7 years	
	rcf	radius
Maximum	468,246 xg	65.5 mm
Average	356,010 xg	49.8 mm
Minimum	243,774 xg	34.1 mm

Rotor and accessories ordering information

T-80.4 rotor package includes:

Description	Cat. no.
T-80.4 Rotor	54356
Rotor cover	750050436
Rotor cover tool	20490312
Rotor cover locking nut	70048779
Rotor cover o-ring (qty. 5)	20290464
Rotor cover locking nut o-ring (qty. 5)	11551
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (80,000 rpm)	11628
Ultracentrifuge rotor log book	52384
Instruction manual	54355

Accessories

Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Rotor cap	03091
Tube racks	03773
Wrench	75000478
Tube removal tool	75000479
Re-seal cone-top tube vise 13 mm	75000481
Tool kit for multipiece assembly (includes tube cap vise (52176) and tube removal tool (11557))	54380

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
4.4	3.3	PA thin-walled tube	03955	50	10	80,000	468,246	11 x 60	Closure	54366	1	Multipiece Aluminum assembly
									Tool	52176	1	Tube cap vise
									Tool	11557	1	Tube removal tool
4.4	2.7	PC threaded Thick-walled tube	54361	50	10	45,000	148,156	11 x 60	Closure	54365	1	Aluminum screw cap
									Tool	52176	1	Tube cap vise
									Tool	11557	1	Tube removal tool
3.5	3.5	PA ultracrimp tube	03905	50	10	80,000	468,246	11 x 60	Closure	Included	50	Ultracrimp plugs And caps
									Closure	03091	1	Rotor cap
									Accessory	03773	1	Tube rack
									Tool	03920	1	Ultracrimp Sealing tool
2.0	2.0	PA re-seal cone-top tube	75000459	50	10	80,000	468,246	11 x 32	Closure	75000460	1	11 mm noryl Cone-top tube crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000478	1	Tube removal tool
									Tool	75000478	1	Tube vise

¹Must order one crown for each place in the rotor.

Thermo Scientific TFT-80.2 rotor



Rotor specifications		
Type	Fixed angle	
Material	Titanium	
Capacity	12 x 2.0 mL	
Maximum speed	80,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	8 x 51 mm	
Angle	25°	
K factor	22.6	
Net weight	2.5 kg / 5.5 lbs	
Warranty	7 years	
	rcf	radius
Maximum	429,643 xg	60.1 mm
Average	335,994 xg	47.0 mm
Minimum	242,344 xg	33.9 mm

Rotor and accessories ordering information

T-80.2 rotor package includes:

Description	Cat. no.
TFT-80.2 Rotor	54456
Rotor cover	70051388
Rotor cover locking nut	70048779
Rotor cover tool	20490312
Rotor cover o-ring (qty. 5)	20290479
Rotor cover locking nut o-ring (qty. 5)	11551
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (80,000 rpm)	11628
Ultracentrifuge rotor log book	52384
Instruction manual	54462

Accessories

Description	Cat. no.
Tube removal tool	11537

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
2.0	1.3	PA thin-walled tube	54460	50	12	80,000	429,643	8 x 51	Closure	54459	1	Multipiece aluminum assembly
									Tool	11557	1	Tube removal Tool

Thermo Scientific T-1270 rotor



Rotor specifications

Type	Fixed angle
Material	Titanium
Capacity	12 x 12.5 mL
Maximum speed	70,000 rpm
Maximum sample density	1.2 g / mL
Tube dimensions Ø x L	16 x 80 mm
Angle	24°
K factor	36.3
Net weight	5.9 kg / 13.0 lbs
Warranty	7 years

	rcf	radius
Maximum	448,811 xg	82.0 mm
Average	335,513 xg	61.3 mm
Minimum	222,216 xg	40.6 mm

Rotor and accessories ordering information

T-1270 rotor package includes:

Description	Cat. no.
TFT-1270 rotor	08259
Rotor cover	08336
Rotor cover locking nut	08253
Rotor cover o-ring (qty. 1)	67932
Rotor cover locking nut o-ring (qty. 1)	64667
Rotor cover tool	20490312
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (70,000 rpm)	08254
Ultracentrifuge rotor log book	52384
Instruction manual	08255
Washer for locking nut	51301

Accessories

Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Tool kit for multipiece assembly (includes tube cap vise (52176), tube removal tool (52177), torque wrench (52881) and 7/16" wrench (52882))	52609
Rotor cap	03993
Tube racks	03922
Wrench	75000478
Tube removal tool	75000479

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
12.5	11.8	PA thin-walled tube	03128	50	12	70,000	448,811	16 x 76	Closure	52178	1	Multipiece Aluminum assembly ¹
									Closure	52634	1	Multipiece Titanium seal
									Tool	52609	1	Tool kit
11.5	11.5	PA ultracrimp tube	03987	50	12	70,000	448,811	16 x 76	Closure	Included	50	Ultracrimp Plugs and caps
									Closure	03993	1	Rotor cap
									Accessory	03922	1	Tube racks
									Tool	03920	1	Ultracrimp sealing tool
11.5	11.5	PET clearcrimp tube	01087	50	12	70,000	448,811	16 x 76	Closure	Included	50	Ultracrimp Plugs and caps
									Closure	03993	1	Rotor cap
									Accessory	03922	1	Tube racks
									Tool	03920	1	Ultracrimp sealing tool
10.0	6.8	PA thick-walled tube	03238	50	12	45,000	185,478	16 x 71	–	–	–	
10.0	6.8	PC thick-walled tube	03237	50	12	65,000	386,985	16 x 71	–	–	–	
10.0	9.1	PP oak ridge tube ²	03929	50	12	50,000	228,985	16 x 80	Closure	03613	25	Nylon screw cap
10.0	9.1	PC oak ridge tube ³	03020	25	12	65,000	386,985	16 x 80	Closure	03613	25	Nylon screw cap
6.5	6.5	PA re-seal cone-top tube	75000450	50	12	70,000	448,811	16 x 45	Closure	75000452	1	16 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000479	1	Tube removal tool

¹Rated up to 65,000 rpm only.

²Tube is limited to 21,000 rpm when partially filled.

³Rated to 50,000 rpm when partially filled.

⁴Must order one crown for each place in the rotor.

Thermo Scientific T-865 rotor



Rotor specifications

Type	Fixed angle	
Material	Titanium	
Capacity	8 x 36 mL	
Maximum speed	65,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	25 x 97 mm	
Angle	23.5°	
K factor	51.7	
Net weight	8.3 kg / 18.3 lbs	
Warranty	7 years	
	rcf	radius
Maximum	429,459 xg	91.0 mm
Average	305,340 xg	64.7 mm
Minimum	181,222 xg	38.4 mm

Rotor and accessories ordering information

T-865 rotor package includes:

Description	Cat. no.
T-865 rotor	51411
Rotor cover	51380
Rotor cover locking nut	51338
Rotor cover o-ring (qty. 2)	64666
Rotor cover locking nut o-ring (qty. 2)	64667
Rotor cover tool	20490312
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (65,000 rpm)	51345
Ultracentrifuge rotor log book	52384
Instruction manual	52266
Washer for locking nut	51301

Accessories

Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Tool kit for multipiece assembly (includes tube cap vise (51834), tube removal tool (52013) and torque wrench (66298))	52610
Rotor cap	03996
Tube racks	03935
Tube removal tool	314353

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. Speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
36.0	33.0	PA thin-walled tube	03141	25	8	65,000	429,459	25 x 89	Closure	52572	1	Multipiece Aluminum assembly
									Tool	52610	1	Tool kit
35.0	35.0	PA ultracrimp tube	03989	25	8	65,000	429,459	25 x 97	Closure	Included	50	Plug and cap
									Accessory	03996	1	Rotor cap
									Accessory	03935	1	Tube racks
									Tool	03920	1	Ultracrimp sealing tool
30.0	23.0	PP oak ridge tube ¹	314349	25	8	45,000	205,835	25 x 94	Closure	314347	1	Aluminum Sealing cap
									Tool	314353	1	Tube removal kit
30.0	23.0	PC oak ridge tube ²	314348	25	8	65,000	429,459	25 x 94	Closure	314347	1	Aluminum Sealing cap
									Tool	314353	1	Tube removal kit
11.5	11.5	PA ultracrimp tube	03987	50	8	65,000	429,459	16 x 76	Closure	Included	50	Plug and cap
									Adapter	00399	1	Adapter
									Accessory	03996	1	Rotor cap
									Accessory	03922	1	Tube rack
									Tool	03920	1	Ultracrimp Sealing tool
11.5	11.5	PET clear-crimp tube	01087	50	8	65,000	429,459	16 x 76	Closure	Included	50	Plug and cap
									Adapter	00399	1	Adapter
									Accessory	03996	1	Rotor cap
									Accessory	03922	1	Tube rack
									Tool	03920	1	Ultracrimp Sealing tool
10.0	6.8	PA thick-walled tube	03238	50	8	45,000	205,835	16 x 71	Adapter	00399	1	Adapter
10.0	6.8	PC thick-walled tube	03237	50	8	65,000	429,459	16 x 71	Adapter	00399	1	Adapter
10.0	9.1	PP oak ridge tube ³	03929	50	8	30,000	91,482	16 x 80	Closure	03613	25	Nylon screw cap
									Adapter	00399	1	Adapter
10.0	9.1	PC oak ridge tube	03020	25	8	30,000	91,482	16 x 80	Closure	03613	25	Nylon screw cap
									Adapter	00399	1	Adapter

¹Tube must be run full.

²Rated to 45,000 rpm when partially filled.

³Rated to 21,000 rpm when partially filled.

Thermo Scientific T-1250 rotor



Rotor specifications

Type	Fixed angle	
Material	Titanium	
Capacity	12 x 36 ml	
Maximum speed	50,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	25 x 97 mm	
Angle	24°	
K factor	68.7	
Net weight	11.1 kg / 24.5 lbs	
Warranty	7 years	
	rcf	radius
Maximum	301,032 xg	108.0 mm
Average	227,030 xg	81.3 mm
Minimum	152,750 xg	54.7 mm

Rotor and accessories ordering information

T-1250 rotor package includes:

Description	Cat. no.
T-1250 rotor	11713
Rotor cover	11716
Rotor cover locking nut	11715
Rotor cover o-ring (qty. 1)	11549
Rotor cover locking nut o-ring (qty. 1)	11550
Rotor cover tool	20490312
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (65,000 rpm)	51349
Ultracentrifuge rotor log book	52384
Instruction manual	11718

Accessories

Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Tool kit for multipiece assembly (includes tube cap vise (51834), tube removal tool (52013) and torque wrench (66298))	52610
Rotor cap	03996
Tube racks	03935
Tube removal tool	314353

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
36.0	33.0	PA thin-walled tube	03141	25	12	50,000	301,032	25 x 89	Closure	52572	1	Multipiece Aluminum assembly
									Tool	52610	1	Tool kit
35.0	35.0	Pa ultracrimp tube	03989	25	12	50,000	301,032	25 x 97	Closure	Included	50	Plug and cap
									Closure	03996	1	Rotor cap
									Accessory	03935	1	Tube racks
									Tool	03920	1	Ultracrimp sealing tool
30.0	23.0	PP oak ridge tube ¹	314349	25	12	37,000	164,845	25 x 94	Closure	314347	1	Aluminum Sealing cap
									Tool	314353	1	Tube removal kit
30.0	23.0	PC oak ridge tube ²	314348	25	12	50,000	301,032	25 x 94	Closure	314347	1	Aluminum Sealing cap
									Tool	314353	1	Tube removal kit
11.5	11.5	PA ultracrimp tube	03987	50	12	27,500	91,062	16 x 76	Closure	Included	50	Plug and cap
									Adapter	00399	1	Adapter
									Closure	03996	1	Rotor cap
									Accessory	03922	1	Tube rack
									Tool	03920	1	Ultracrimp Sealing tool
11.5	11.5	PET clearcrimp tube	01087	50	12	27,500	91,062	16 x 76	Closure	Included	50	Plug and cap
									Adapter	00399	1	Adapter
									Closure	03996	1	Rotor cap
									Accessory	03922	1	Tube rack
									Tool	03920	1	Ultracrimp Sealing tool
10.0	6.8	PA thick-walled tube	03238	50	12	27,500	91,062	16 x 71	Adapter	00399	1	Adapter
10.0	6.8	PC thick-walled tube	03237	50	12	27,500	91,062	16 x 71	Adapter	00399	1	Adapter
10.0	9.1	PP oak ridge tube	03929	50	12	21,000	53,102	16 x 80	Closure	03613	25	Nylon screw cap
									Adapter	00399	1	Adapter
10.0	9.1	PC oak ridge tube	03020	25	12	27,500	91,062	16 x 80	Closure	03613	25	Nylon screw cap
									Adapter	00399	1	Adapter

¹Tube must be run full.

²Rated to 37,000 rpm when partially filled.

Thermo Scientific T-647.5 rotor



Rotor specifications

Type	Fixed angle	
Material	Titanium	
Capacity	6 x 100 mL	
Maximum speed	47,500 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	39 x 107 mm	
Angle	22.5°	
K factor	121	
Net weight	11 kg / 24.3 lbs	
Warranty	7 years	
	rcf	radius
Maximum	250,259 xg	99.3 mm
Average	167,847 xg	66.6 mm
Minimum	85,436 xg	33.9 mm

Rotor and accessories ordering information

T-647.5 rotor package includes:

Description	Cat. no.
T-647.5 Rotor	08322
Rotor cover	08333
Rotor cover tool	20490312
Rotor cover o-ring (qty. 1)	64668
Rotor cover locking nut o-ring (qty. 1)	64667
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Locking nut	08331
Extra overspeed decal (80,000 rpm)	51350
Ultracentrifuge rotor log book	52384
Instruction manual	08326
Washer for locking nut	51301

Accessories

Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Rotor cap	03998
Tube rack	03940
Tube removal tool	314353
Replacement o-ring for sealing assembly (314462)	314463

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
90.0	89.0	PA ultracrimp tube	03990	25	6	47,500	250,259	39 x 107	Closure	Included	25	Plug and cap
									Closure	03998	1	Rotor cap
									Accessory	03940	1	Tube rack
									Tool	03920	1	Ultracrimp Sealing tool
75.0	68.0	PC oak ridge tube ¹	314460	6	6	47,500	250,259	39 x 107	Closure	314462	1	Aluminum Sealing lid
									Tool	314353	1	Tube removal kit

¹Rated to 41,000 rpm when partially filled.

Thermo Scientific TFT-45.6 rotor



Rotor specifications

Type	Fixed angle	
Material	Titanium	
Capacity	40 x 6 mL	
Maximum speed	45,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	13 x 66 mm	
Angle	20°	
K factor	41.4 Outer row, 49.6 Inner row	
Net weight	10.9 kg / 24.3 lbs	
Warranty	7 years	
	rcf	radius
	Outer / inner	Outer / inner
Maximum	238,859 xg / 204,252 xg	105.6 mm / 90.3 mm
Average	205,383 xg / 170,775 xg	90.8 mm / 75.5 mm
Minimum	171,906 xg / 137,299 xg	76.0 mm / 60.7 mm

Rotor and accessories ordering information

T-45.6 rotor package includes:

Description	Cat. no.
TFT-45.6 rotor	11637
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Rotor cover	70048671
Rotor cover locking nut	70048348
Rotor cover tool	20490312
Rotor cover o-ring (qty. 5)	11547
Rotor cover locking nut o-ring (qty. 5)	11551
Rotor cover tool	20490312
Extra overspeed decal (45,000 rpm)	51351
Ultracentrifuge rotor log book	52384
Instruction manual	11512

Accessories	
Description	Cat. no.
Ultracrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Rotor cap	03992
Tube rack	03921
Wrench	75000478
Tube removal tool	75000479
Re-seal cone-top tube vise 13 mm	75000481

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
6.0	5.7	PA ultracrimp tube	03945	50	40	45,000	238,859	13 x 66	Closure	Included	50	Plug and cap
									Closure	03992	1	Rotor cap
									Accessory	03921	1	Tube rack
									Tool	03920	1	Ultracrimp Sealing tool
6.0	5.7	PET clearcrimp tube	01086	50	40	45,000	238,859	13 x 66	Closure	Included	50	Plug and cap
									Closure	03992	1	Rotor cap
									Accessory	03921	1	Tube rack
									Tool	03920	1	Ultracrimp Sealing tool
3.5	3.1	PA re-seal cone-top tube	75000456	50	40	45,000	238,859	13 x 32	Closure	75000457	1	13 mm Noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000481	1	Tube vise
2.0	2.0	PA re-seal cone-top tube	75000458	50	40	45,000	238,859	13 x 25	Closure	75000457	1	13 mm Noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000481	1	Tube vise
									Tool	75000479	1	Tube removal tool

¹Must order one crown for each place in the rotor.

Thermo Scientific A-621 rotor



Rotor specifications

Type	Fixed angle	
Material	Aluminum	
Capacity	6 x 250 mL	
Maximum speed	21,000 Rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	61 x 153 mm	
Angle	23°	
K factor	751	
Net weight	13.6 kg / 30.1 lbs	
Warranty	7 years	
	rcf	radius
Maximum	66,993 xg	136.0 mm
Average	42,536 xg	86.4 mm
Minimum	18,078 xg	36.7 mm

Rotor and accessories ordering information

A-621 rotor package includes:

Description	Cat. No.
A-621 rotor	11876
Rotor cover	11967
Rotor cover locking nut	11999
Rotor cover o-ring (qty. 6)	92233
Rotor cover locking nut o-ring (qty. 6)	90793
Rotor cover tool	20490312
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (21,000 rpm)	52277
Ultracentrifuge rotor log book	52384
Instruction manual	11872
Retaining ring pliers	65614

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
250.0	200.0	PA oak ridge bottle	314250H01	4	6	21,000	66,993	61 x 120	Closure	314249H01	1	Screw cap
250.0	280.0	PP dry-spin bottle	03069	12	6	13,000	25,673	61 x 146	Closure	Included	12	Sealed lid
250.0	270.0	PC dry-spin bottle	03098	12	6	16,000	38,889	61 x 146	Closure	Included	12	Sealed lid

Thermo Scientific TH-660 rotor



Rotor specifications

Type	Swinging bucket	
Material	Titanium	
Capacity	6 x 4.4 mL	
Maximum speed	60,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	11 x 60 mm	
Angle	90°	
K factor	44.4	
Net weight	5.8 kg / 12.8 lbs	
Warranty	5 years	
	rcf	radius
Maximum	488,576 xg	121.5 mm
Average	374,173 xg	93.1 mm
Minimum	259,770 xg	64.6 mm

Rotor and accessories ordering information

TH-660 rotor package includes:

Description	Cat. no.
TH-660 rotor	10502
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (60,000 rpm)	51346
4.4 ML buckets (qty. 6)	10509
Bucket o-ring (ea.)	63713
Bucket rack	52243
Bucket cap tool	20048389
Instruction manual	10506
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
Conical adapter removal tool	75000480
11 x 32 mm tube vise	75000481
Wrench	75000478
Tube removal tool	75000479

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
4.4	4.0	PA thin-walled tube	03955	50	6	60,000	488,576	11 x 60				
4.0	4.0	PA re-seal cone-top tube	75000483	50	6	57,000	440,940	11 x 57	Closure	75000460	1	11 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000481	1	Tube vise
3.4	3.4	PET thin-walled ultracone tube	75000469	50	6	60,000	488,576	11 x 57	Adapter	75000470	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool
3.4	3.4	PA thin-walled ultracone tube	75000472	50	6	60,000	488,576	11 x 57	Adapter	75000470	1	Conical tube adapter
									Tool	75000480		Conical adapter removal tool
2.0	2.0	PA re-seal cone-top tube	75000459	50	6	60,000	488,576	11 x 32	Closure	75000460	1	11 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000479	1	Tube removal tool
									Tool	75000481	1	Tube vise

¹Must order one crown for each place in the rotor.

Thermo Scientific AH-650 rotor



Rotor specifications

Type	Swinging bucket
Material	Aluminum
Capacity	6 x 5 mL
Maximum speed	60,000 rpm
Maximum sample density	1.2 g / mL
Tube dimensions Ø x L	13 x 51 mm
Angle	90°
K factor	53
Net weight	3.0 kg / 6.6 lbs
Warranty	5 years

	rcf	radius
Maximum	296,005 xg	106.0 mm
Average	235,687 xg	84.4 mm
Minimum	175,369 xg	62.8 mm

Rotor and accessories ordering information

AH-650 rotor package includes:

Description	Cat. no.
AH-650 rotor	54294
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (50,000 rpm)	51349
5 mL buckets (qty. 6)	52072
Bucket cap tool	52258
Bucket o-ring (ea.)	63713
Bucket rack	52243
Instruction manual	52274
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
Conical adapter removal tool	75000480
Conical adapter	75000468
Re-seal cone-top tube vise 13 mm	75000481
Wrench	75000478

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
5.0	5.0	PA thin-walled tube	03127	50	6	50,000	296,005	13 x 51	–	–	–	–
4.0	4.0	PA re-seal cone-top tube	75000482	50	6	49,000	284,283	13 x 48	Closure	75000457	1	13 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000481	1	Tube vise
3.5	3.4	PA ultracone tube	75000473	50	6	50,000	296,005	13 x 48	Adapter	75000468	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool
3.5	3.4	PET ultracone tube	75000467	50	6	50,000	296,005	13 x 48	Adapter	75000468	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool
3.5	3.1	PA re-seal cone-top tube	75000456	50	6	50,000	296,005	13 x 32	Closure	75000457	10	13 mm noryl crown ¹
									Closure	75000451	1	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000479	1	Tube removal tool
									Tool	75000481	1	Tube vise
2.0	2.0	PA re-seal cone-top tube	75000458	50	6	50,000	296,005	13 x 25	Closure	75000460	1	13 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000479	1	Tube removal tool
									Tool	75000481	1	Tube vise

¹Must order one crown for each place in the rotor.

Thermo Scientific TH-641 rotor



Rotor specifications

Type	Swinging bucket	
Material	Titanium	
Capacity	6 x 13.2 mL	
Maximum speed	41,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	14 x 89 mm	
Angle	90°	
K factor	114	
Net weight	5.6 kg / 12.3 lbs.	
Warranty	5 years	
	rcf	radius
Maximum	287,660 xg	153.2 mm
Average	211,333 xg	112.6 mm
Minimum	135,005 xg	71.9 mm

Rotor and accessories ordering information

TH-641 rotor package includes:

Description	Cat. no.
TH-641 rotor	54295
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (41,000 rpm)	51353
13.2 ML buckets (qty. 6)	08225
Bucket rack	52243
Bucket cap tool	11556
Bucket o-ring (ea.)	08232
Instruction manual	52243
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
Conical adapter removal tool	75000480
Conical adapter	75000466
Tube removal tool	75000479
Wrench	75000478

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
13.2	10.0	PA thin-walled tube	03699	50	6	41,000	287,660	14 x 89	–	–	–	–
12.0	12.0	PET thin-walled tube	06752	50	6	41,000	287,660	14 x 89	–	–	–	–
11.0	11.0	PA re-seal cone-top tube	75000411	50	6	41,000	287,660	14 x 88	Closure	75000455	1	14 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
9.1	9.1	PET thin-walled ultracone tube	75000465	50	6	41,000	287,660	14 x 84	Adapter	75000466	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool
9.1	9.1	PET thin-walled ultracone tube	75000465	50	6	41,000	287,660	14 x 84	Adapter	75000466	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool
9.0	9.0	PA thin-walled ultracone tube	75000474	50	6	41,000	287,660	14 x 84	Adapter	75000466	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool
5.9	5.9	PA re-seal cone-top tube	75000454	50	6	41,000	287,660	14 x 47	Closure	75000455	1	14 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
									Tool	75000479	1	Tube removal tool

¹Must order one crown for each place in the rotor.

Thermo Scientific SureSpin 632 (17 mL) rotor



Rotor specifications

Type	Swinging bucket	
Material	Titanium	
Capacity	6 x 17 mL	
Maximum speed	32,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	16 x 102 mm	
Angle	90°	
K factor	221	
Net weight	7.4 kg / 16.2 lbs	
Warranty	5 years / *	
	rcf	radius
Maximum	191,759 xg	153.2 mm
Minimum	78,421 xg	68.5 mm

Rotor and accessories ordering information

SureSpin 632 (17 mL) rotor package includes:

Description	Cat. no.
SureSpin 632 (17 mL) rotor	75003031
Rotor stand	20048993
Vacuum grease	76003500
Lubricant	61556
Extra overspeed decal (32,000 rpm)	51359
17 mL buckets (qty. 6)	75003036
Bucket o-ring (qty. 6)	75003039
Bucket rack	52240
Instruction manual	50153788
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
17 mL buckets (qty. 6)	75003036

* Subject to a maximum cycle life of 1200 cycles. This rotor must be retired upon reaching the end of its cycle life. Exceeding the maximum number of cycles can result in rotor failure with subsequent damage to the centrifuge

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
17.0	17.0	PET thin-walled tube	06750-AV	50	6	32,000	191,759	16 x 102	–	–	–	–
17.0	16.0	Pa thin-walled tube	03126	50	6	32,000	191,759	16 x 102	–	–	–	–
15.0	15.0	PA re-seal cone- top tube	75000414	50	6	32,000	191,759	16 x 100	Closure	75000452	1	16 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
13.0	12.7	PET thin-walled ultracone tube	75000463	N/A	6	32,000	191,759	16 x 96	Adapter	75000464	1	1 Place/ adapter
									Tool	75000480	1	Conical adapter removal tool
13.0	12.3	PA thin-walled ultracone tube	75000475	N/A	6	32,000	191,759	16 x 96	Adapter	75000464	1	1 Place/ adapter
									Tool	75000480	1	Conical adapter removal tool

¹Must order one crown for each place in the rotor.

Thermo Scientific SureSpin 632 (38.5 mL) Rotor



Rotor specifications

Type	Swinging bucket	
Material	Titanium	
Capacity	6 x 38.5 mL	
Maximum speed	32,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	25 x 89 mm	
Angle	90°	
K factor	194	
Net weight	7.2 kg / 15.9 lbs	
Warranty	5 years / *	
	rcf	radius
Maximum	187,295 xg	163.6 mm
Minimum	85,404 xg	74.6 mm

Rotor and accessories ordering information

SureSpin 632 (38.5 mL) rotor package includes:

Description	Cat. no.
SureSpin 632 (38.5 mL) rotor	75003032
Rotor stand	20048993
Vacuum grease	76003500
Lubricant	61556
Extra overspeed decal (32,000 rpm)	51359
38.5ml buckets (qty. 6)	75003037
Bucket o-ring (qty. 1)	75003038
Bucket rack	52240
Instruction manual	50153788
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
38.5 mL buckets (qty. 6)	75003037

* Subject to a maximum cycle life of 1200 cycles. This rotor must be retired upon reaching the end of its cycle life. Exceeding the maximum number of cycles can result in rotor failure with subsequent damage to the centrifuge

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
38.5	38.5	PET thin-walled tube	75000471	50	6	32,000	187,295	25 x 88	–	–	–	–
36.0	35.0	PA thin-walled tube	03141	25	6	32,000	187,295	25 x 89	–	–	–	–
31.0	31.0	PA re-seal cone- top tube	75000427	50	6	29,000		25 x 81	Closure	75000428	1	25 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
28.0	29.4	PA ultracone tube	75000476	50	6	32,000	187,295	25 x 84	Adapter	75000462	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool
28.0	28.7	PET ultracone tube	75000461	50	6	32,000	187,295	25 x 84	Adapter	75000462	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool

¹Must order one crown for each place in the rotor.

Thermo Scientific SureSpin 630 (17 mL) rotor (this rotor is no longer available)*



Rotor specifications

Type	Swinging bucket	
Material	Titanium	
Capacity	6 x 17 mL	
Maximum speed	30,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	16 x 102 mm	
Angle	90°	
K factor	268	
Net weight	8 kg / 17.6 lbs	
Warranty	5 years	
	rcf	Radius
Maximum	166,880 xg	166 mm
Minimum	64,339 xg	64 mm

Rotor and accessories ordering information

SureSpin 630 (17 mL) rotor package includes:

Description	Cat. no.
SureSpin 630 (17 mL) rotor	79363
Rotor stand	51942
Vacuum grease	65937
Lubricant	61556
17ml buckets (qty. 6)	79364
Extra overspeed decal (30,000 rpm)	51361
Bucket o-ring (qty. 6)	79370
Bucket rack	52240
Instruction manual	79369
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
17 mL buckets (qty. 6)	79364
Conical adapter removal tool	75000480
Conical adapter	75000464

* This rotor has been replaced by the SureSpin 632 (17 mL) rotor, cat. no. 75003031.

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
17.0	17.9	PET thin-walled tube	06750-AV	50	6	30,000	166,880	16 x 102	–	–	–	–
17.0	16.0	Pa thin-walled tube	03126	25	6	30,000	166,880	16 x 102	–	–	–	–
15.0	15.0	PA re-seal cone- top tube	75000414	50	6	30,000		16 x 100	Closure	75000452	1	16 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
13.0	12.7	PA ultracone tube	75000463	N/A	6	30,000	166,880	16 x 96	Adapter	75000464	1	1 Place/ adapter
									Tool	75000480	1	Conical adapter removal tool
13.0	12.3	PET ultracone tube	75000475	N/A	6	30,000	166,880	16 x 96	Adapter	75000464	1	1 Place/ adapter
									Tool	75000480	1	Conical adapter removal tool

¹Must order one crown for each place in the rotor.

Thermo Scientific SureSpin 630 (36 mL) Rotor (this rotor is no longer available)*



Rotor specifications

Type	Swinging bucket	
Material	Titanium	
Capacity	6 x 36 mL	
Maximum speed	30,000 Rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	25 x 89 mm	
Angle	90°	
K factor	219	
Net weight	7.9 kg / 17.4 lbs	
Warranty	5 years	
	rcf	radius
Maximum	166,880 xg	166 mm
Average	121,792 xg	121.2 mm
Minimum	76,704 xg	76.3 mm

Rotor and accessories ordering information

SureSpin 630 (36 mL) rotor package includes:

Description	Cat. no.
SureSpin 630 (36 mL) rotor	79368
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
36 mL buckets (qty. 6)	75007936
Extra overspeed decal (30,000 rpm)	51361
Bucket o-ring (qty. 1)	79374
Bucket rack	52240
Instruction manual	79369
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
36 mL buckets (qty. 6)	75007936
Conical adapter removal tool	75000480
Conical adapter	75000462
Wrench	75000478

* This rotor has been replaced by the SureSpin 632 (38.5 mL) rotor, cat. no. 75003032.

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
36.0	38.1	PET thin-walled tube	75000471	50	6	30,000	166,880	25 x 88	–	–	–	–
36.0	35.0	PA thin-walled tube	03141	25	6	30,000	166,880	25 x 89	–	–	–	–
31.0	31.0	PA re-seal cone-top tube	75000427	50	6	29,000	155,940	25 x 81	Closure	75000428	1	25 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
28.0	29.4	PA ultracone tube	75000476	50	6	30,000	166,880	25 x 84	Adapter	75000462	1	Conical tube Adapter
									Tool	75000480	1	Conical adapter removal tool
28.0	28.7	PET ultracone tube	75000461	50	6	30,000	166,880	25 x 84	Adapter	75000464	1	Conical tube Adapter
									Tool	75000480	1	Conical adapter removal tool

¹Must order one crown for each place in the rotor.

Thermo Scientific AH-629 (17 mL) rotor



Rotor specifications

Type	Swinging bucket
Material	Titanium
Capacity	6 x 17 mL
Maximum speed	29,000 rpm
Maximum sample density	1.2 g / mL
Tube dimensions Ø x L	16 x 102 mm
Angle	90°
K factor	284
Net weight	6.2 kg / 13.7 lbs
Warranty	5 years

	rcf	Radius
Maximum	155,846 xg	165.9 mm
Average	108,219 xg	115.2 mm
Maximum	60,591 xg	64.5 mm

Rotor and accessories ordering information

AH-629 (17 mL) rotor package includes:

Description	Cat. no.
AH-629 (17 mL) rotor	54285
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (29,000 rpm)	51362
17 mL buckets (qty. 6)	52030
Bucket o-ring (ea.)	63712
Bucket rack	52240
Instruction manual	54276
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
17 mL buckets (qty. 6)	52030
Conical adapter removal tool	75000480
Conical adapter	75000464
Tube removal tool	75000479

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
17.0	17.9	PET thin-walled tube	06750	50	6	29,000	155,846	16 x 102	–	–	–	–
17.0	16.0	PA thin-walled tube	03126	50	6	29,000	155,846	16 x 102	–	–	–	–
15.0	15.0	PA re-seal cone- top tube	75000414	50	6	29,000	155,846	16 x 100	Closure	75000452	1	16 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
13.0	12.7	PET thin-walled ultracone tube	75000463	50	6	29,000	155,846	16 x 96	Adapter	75000464	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool
13.0	12.3	PA thin-walled ultracone tube	75000475	50	6	29,000	155,846	16 x 96	Adapter	75000464	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool

¹Must order one crown for each place in the rotor.

Thermo Scientific AH-629 (36 mL) rotor



Rotor specifications		
Type	Swinging bucket	
Material	Aluminum	
Capacity	6 x 36 mL	
Maximum speed	29,000 rpm	
Maximum sample density	1.2 g / mL	
Tube dimensions Ø x L	25 x 89 mm	
Angle	90°	
K factor	242	
Net weight	6.4 kg / 14.1 lbs	
Warranty	5 years	
	rcf	radius
Maximum	151,243 xg	161.0 mm
Average	109,487 xg	116.6 mm
Maximum	67,731 xg	72.1 mm

Rotor and accessories ordering information

AH-629 (36 mL) rotor package includes:

Description	Cat. no.
AH-629 (36 mL) rotor	54284
Rotor stand	20048993
Vacuum grease	65937
Lubricant	61556
Extra overspeed decal (29,000 rpm)	51362
36 mL buckets (qty. 6)	52035
Bucket o-ring (ea.)	64667
Bucket rack	52240
Instruction manual	54276
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
36 mL buckets (qty. 6)	52035
Conical adapter removal tool	75000480
Conical adapter	75000462

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
36.0	38.1	PET thin-walled tube	75000471	50	6	29,000	151,243	25 x 88	–	–	–	–
36.0	35.0	PA thin-walled tube	03141	25	6	29,000	151,243	25 x 89	–	–	–	–
31.0	31.0	PA re-seal cone- top tube	75000427	50	6	29,000	151,243	25 x 81	Closure	75000428	1	25 mm noryl crown ¹
									Closure	75000451	10	Stainless steel plug
									Tool	75000478	1	Wrench
28.0	29.4	PET thin-walled ultracone tube	75000476	50	6	29,000	151,243	25 x 84	Adapter	75000462	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool
28.0	28.7	PA thin-walled ultracone tube	75000461	50	6	29,000	151,243	25 x 84	Adapter	75000462	1	Conical tube adapter
									Tool	75000480	1	Conical adapter removal tool

¹Must order one crown for each place in the rotor.

Thermo Scientific StepSaver 70V6 rotor



Rotor specifications

Type	Vertical	
Material	Titanium	
Capacity	8 x 6 mL	
Maximum speed	70,000 rpm	
Tube dimensions Ø x L	13 x 66 mm	
Angle	0°	
K factor	8.7	
Net weight	7.6 kg / 16.8 lbs	
Warranty	7 years	
	rcf	radius
Maximum	467,420 xg	85.4 mm
Average	431,022 xg	78.8 mm
Minimum	67,731 xg	72.1 mm

Rotor and accessories ordering information

StepSaver™ 70v6 rotor packages include:

Description	Cat. no.
StepSaver 70v6 (6 mL) rotor package	79240
Rotor stand	20048993
Extra overspeed decal (70,000 rpm)	08254
PA ultracrimp tube, 6 mL (qty. 1 pkg. of 50)	79273
6 mL ultracrimp cartridge set (qty. 8)	79286
Tube racks (qty. 2)	03921
Cartridge set rack	79211
Instruction manual	79231
Ultracentrifuge rotor log book	52384
StepSaver 70v6 (2 mL) rotor package	79274
Rotor stand	20048993
Extra overspeed decal (70,000 rpm)	08254
PA ultracrimp tube, 2 mL (qty. 1 pkg. of 50)	79251
2 mL ultracrimp cartridge set (qty. 8)	79289
Tube racks (qty. 2)	79242
Cartridge set rack	79211
Instruction manual	79231
Ultracentrifuge rotor log book	52384
StepSaver 70v6 (5.1 mL quick-seal) rotor package	79280
Rotor stand	20048993
Extra overspeed decal (70,000 rpm)	08254
5.1 mL quick-seal cartridge set (qty. 8)	79291
Cartridge set rack	79211
Instruction manual	79231
Ultracentrifuge rotor log book	52384

Accessories	
Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
6 mL ultracrimp tube rack	03921
2 mL ultracrimp tube rack	79242
6 mL ultracrimp cartridge set (qty. 8)	79286
2 mL ultracrimp cartridge set (qty. 8)	79289
5.1 mL quick-seal cartridge set (qty. 8)	79291
6 mL ultracrimp individual cartridge (qty. 1)	79241
2 mL ultracrimp individual cartridge (qty.1)	79261
Cartridge set rack	79211

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
6.0	5.7	PA ultracrimp tube	79273	50	8	70,000	467,420	13 x 66	Closure	Included	50	Ultracrimp plugs and caps
									Closure	79286	8	6 mL ultracrimp cartridge set
									Accessory	03921	1	6 mL ultracrimp tube rack
									Tool	03920	1	Ultracrimp sealing tool
5.1	5.1	PA quick-seal tubes	342412	–	8	70,000	467,420	13 x 51	Closure	79291	1	5.1 mL quick-seal cartridge set
5.1	5.1	PA quick-seal tubes ¹	344075	–	8	70,000	467,420	13 x 51	Closure	79291	1	5.1 mL quick-seal cartridge set
2.0	2.0	PA ultracrimp tube	79251	50	8	70,000	467,420	13 x 45	Closure	Included	8	Ultracrimp plugs and caps
									Closure	79289	8	2 mL ultracrimp cartridge set
									Accessory	79242	1	Tube rack
									Tool	03920	1	Ultracrimp Sealing tool
2.0	2.0	PET clearcrimp tube	79292	50	8	70,000	467,420	13 x 45	Closure	Included	50	Ultracrimp plugs And caps
									Closure	79289	8	2 mL ultracrimp cartridge set
									Accessory	79242	1	Tube rack
									Tool	03920	1	Ultracrimp sealing tool

¹Tubes must be purchased from manufacturer.

Thermo Scientific StepSaver 65V13 rotor



Rotor specifications

Type	Vertical
Material	Titanium
Capacity	8 x 13.5 mL
Maximum speed	65,000 rpm
Tube dimensions Ø x L	13 x 66 mm
Angle	0°
K factor	12.9
Net weight	9.7 kg / 21.4 lbs
Warranty	7 years

	Rcf	radius
	13.5 mL / 6 mL	13.5 mL / 6 mL
Maximum	400,671 xg / 393,120 xg	84.9 mm / 83.3 mm
Average	361,972 xg / 361,972 xg	76.7 mm / 76.7 mm
Minimum	323,274 xg / 330,825 xg	68.5 mm / 70.1 mm

Rotor and accessories ordering information

StepSaver 65v13 rotor packages include:

Description	Cat. no.
StepSaver 65v13 (13.5 mL) rotor package	79243
Rotor stand	20048993
Extra overspeed decal (65,000 rpm)	51345
Pa ultracrimp tube, 13.5 mL (qty. 1 pkg. of 50)	79246
13.5 mL ultracrimp cartridge set (qty. 8)	79296
Tube racks (qty. 2)	79247
Cartridge set rack	79212
Instruction manual	79231
Ultracentrifuge rotor log book	52384
StepSaver 65v13 (13.5 mL quick-seal) rotor package	79285
Rotor stand	20048993
Extra overspeed decal (65,000 rpm)	51345
13.5 mL quick-seal cartridge set (qty. 8)	79298
Cartridge set rack	79212
Instruction manual	79231
Ultracentrifuge rotor log book	52384
StepSaver 65v13 (6 mL) rotor package	79290
Rotor stand	20048993
Extra overspeed decal (65,000 rpm)	51345
Pa ultracrimp tube, 6 mL (qty. 1 pkg. of 50)	79231
6 mL ultracrimp cartridge set (qty. 8)	79297
Tube racks (qty. 2)	03921
Cartridge set rack	79212
Instruction manual	79231
Ultracentrifuge rotor log book	52384

Accessories	
Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
13.5 mL ultracrimp tube racks	79247
6 mL ultracrimp tube rack	03921
13.5 mL ultracrimp cartridge set (qty. 8)	79296
13.5 mL ultracrimp cartridge set (qty. 8)	79298
13.5 mL quick-seal cartridge set (qty. 8)	79298
6 mL ultracrimp cartridge set (qty. 8)	79297
13.5 mL ultracrimp individual cartridge (qty. 1)	79244
6 mL ultracrimp individual cartridge (qty. 1)	79260
Cartridge set rack	79242

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
13.5	13.8	PA ultracrimp tube	79246	50	8	65,000	400,617	16 x 93	Closure	Included	50	Ultracrimp plugs and caps
									Closure	79286	8	13.5 mL ultracrimp cartridge set
									Accessory	79247	1	Ultracrimp tube rack
									Tool	03920	1	Ultracrimp sealing tool
13.5	13.5	PET clear-crimp tube	79294	50	8	65,000	467,420	13 x 51	Closure	Included	50	Ultracrimp plugs and caps
									Closure	79286	8	13.5 mL ultracrimp cartridge set
									Accessory	79247	1	Ultracrimp tube rack
									Tool	03920	1	Ultracrimp sealing tool
13.5	13.5	PA quick-seal tubes ¹	342413	–	8	65,000	400,671	16 x 76	Closure	79298	8	13.5 mL quick-
13.5	13.5	PET quick-seal tubes ¹	344322	–	8	65,000	400,671	16 x 76	Closure	79298	8	13.5 mL quick-
6.0	5.7	PA ultracrimp tube	79273	50	8	65,000	393,120	13 x 66	Closure	Included	50	Ultracrimp plugs and caps
									Closure	79297	8	6 mL ultracrimp cartridge set
									Accessory	03921	1	Tube rack
										03920	1	Ultracrimp sealing tool
2.0	2.0	PET clear-crimp tube	79292	50	8	65,000	393,120	13 x 45	Closure	Included	50	Ultracrimp plugs and caps
									Closure	79297	8	6 mL ultracrimp cartridge set
									Accessory	03921	1	Tube rack
									Tool	03920	1	Ultracrimp sealing tool

¹Tubes must be purchased from manufacturer.

Thermo Scientific StepSaver

50V39 rotor



Rotor specifications

Type	Vertical
Material	Titanium
Capacity	8 x 39 ml
Maximum speed	50,000 rpm
Tube dimensions Ø x L	25 x 113 mm
Angle	0°
K factor	38.5
Net weight	10.3 kg / 22.7 lbs
Warranty	7 years

	rcf	radius
	39 mL / 13.5 mL	39 mL / 13.5 mL
Maximum	205,807 xg / 205,807 xg	73.7 mm / 73.7 mm
Average	169,784 xg / 169,784 xg	60.8 mm / 60.8 mm
Minimum	205,807 xg / 205,807 xg	73.7 mm / 73.7 mm

Rotor and accessories ordering information

Stepsaver 50v39 rotor packages include:

Description	Cat. no.
StepSaver 50v39 (39 mL) rotor package	79245
Rotor stand	20048993
Extra overspeed decal (50,000 rpm)	51349
PA ultracrimp tube, 39 ml (qty. 1 pkg. of 50)	79253
39 mL ultracrimp cartridge set (qty. 8)	79299
Tube racks (qty. 2)	79249
Cartridge set rack	79288
Instruction manual	79231
Ultracentrifuge rotor log book	52384
StepSaver 50v39 (13.5 mL) rotor package	79277
Rotor stand	20048993
Extra overspeed decal (50,000 rpm)	51349
PA ultracrimp tube, 13.5 mL (qty. 1 pkg. of 50)	79246
13.5 mL ultracrimp cartridge set (qty. 8)	79300
Tube racks (qty. 2)	79247
Cartridge set rack	79288
Instruction manual	79231
Ultracentrifuge rotor log book	52384

Accessories	
Description	Cat. No.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
39 mL ultracrimp tube racks	79249
13.5 mL ultracrimp tube rack	79247
39 mL ultracrimp cartridge set (qty. 8)	79299
13.5 mL ultracrimp cartridge set (qty. 8)	79300
13.5 mL ultracrimp individual cartridge (qty. 1)	79263
Cartridge set rack	79288

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
39.0	38.9	PA ultracrimp tube	79253	50	8	50,000	241,831	25 x 113	Closure	Included	50	Ultracrimp plugs and caps
									Closure	79299	8	39 mL ultracrimp cartridge set
									Accessory	79249	1	Tube rack
									Tool	03920	1	Ultracrimp closure tool
39.0	38.9	PET clearcrimp tube	79295	50	8	50,000	241,831	25 x 113	Closure	Included	50	Ultracrimp plugs and caps
									Closure	79299	8	39 mL ultracrimp cartridge set
									Accessory	79249	1	Tube rack
									Tool	03920	1	Ultracrimp sealing tool
13.5	13.8	PA ultracrimp tube	79246	50	8	50,000	228,706	16 x 93	Closure	Included	50	Ultracrimp plugs and caps
									Closure	79300	8	13.5 mL ultracrimp cartridge set
									Accessory	79247	1	Tube rack
									Tool	03920	1	Ultracrimp sealing tool
13.5	13.8	PET clearcrimp tube	79294	50	8	50,000	228,706	16 x 93	Closure	Included	50	Ultracrimp plugs and caps
									Closure	79300	8	13.5 mL ultracrimp cartridge set
									Accessory	79247	1	Tube rack
									Tool	03920	1	Ultracrimp sealing tool

*Tubes must be purchased from manufacturer.

Thermo Scientific TV-1665 rotor



Rotor specifications

Type	Vertical	
Material	Titanium	
Capacity	16 x 6 mL	
Maximum speed	65,000 rpm	
Tube dimensions Ø x L	13 x 66 mm	
Angle	0°	
K factor	9.8	
Net weight	9.07 kg / 19.9 lbs	
Warranty	7 years	
	rcf	radius
Maximum	414,357 xg	87.8 mm
Average	383,209 xg	81.2 mm
Minimum	352,062 xg	74.6 mm

Rotor and accessories ordering information

TV-1665 rotor packages include:

Description	Cat. no.
TV-1665 rotor	11672
Rotor stand	20048993
Lubricant	61556
Extra overspeed decal (65,000 rpm)	51345
Instruction manual	11670
Ultracentrifuge rotor log book	52384

Accessories

Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Tube rack	03921
Rotor cap	03991
Tool kit for ultracrimp sealing system (includes rotor holding fixture (52540), torque wrench (52580) and socket cap wrench (52882))	12770
Tool kit for 5 ml thin-walled tube (includes rotor holding fixture (52540) and wrench (52363))	52598

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
6.0	5.7	PA ultracrimp tube	03945	50	16	65,000	414,357	13 x 66	Closure	Included	50	Ultracrimp plugs and caps
									Accessory	03921	1	6 mL ultracrimp tube rack
									Accessory	03991	1	Tube rack
									Tool	12770	1	Tool kit for Ultracrimp Sealing system
									Tool	03920	1	Ultracrimp Sealing tool
6.0	5.7	PET clearcrimp tube	01086	50	16	65,000	414,357	13 x 66	Closure	Included	50	Ultracrimp plugs and caps
									Accessory	03921	1	6 mL ultracrimp tube rack
									Tool	12770	1	Tool kit for Ultracrimp Sealing system
									Tool	03920	1	Ultracrimp Sealing tool
5.0	4.4	PA thin-walled tubes ¹	03127	50	16	65,000	414,357	13 x 51	Closure	52521	1	Body cap
									Closure	52522	1	Plugs
									Tool	52598	1	Tool kit for 5 mL thin-walled tube

¹Must use caps and plugs together.

Thermo Scientific TV-860 Rotor



Rotor specifications

Type	Vertical	
Material	Titanium	
Capacity	8 x 35 mL	
Maximum speed	60,000 rpm	
Tube dimensions Ø x L	25 x 97 mm	
Angle	0°	
K factor	25.2	
Net weight	11.4 kg / 25.1 lbs	
Warranty	7 years	
	rcf	radius
Maximum	340,596 xg	84.7 mm
Average	289,325 xg	72.0 mm
Minimum	238,055 xg	59.2 mm

Rotor and accessories ordering information

TV-860 rotor packages include:

Description	Cat. no.
TV-860 rotor	53289
Rotor stand	20048993
Lubricant	61556
Extra overspeed decal (60,000 rpm)	51346
Instruction manual	53292
Ultracentrifuge rotor log book	52384
Tool kit for ultracrimp sealing system (includes rotor holding fixture (52540) and torque wrench (52580))	12771

Accessories

Description	Cat. no.
Ultracrimp/clearcrimp sealing tool	03920
Crimp gauge replacement	03919
Extra plugs and caps	03999
Tube rack	03935
Rotor cap	03994
Tool kit for ultracrimp sealing system (includes rotor holding fixture (52540) and torque wrench (52580))	12771

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
35.0	35.0	PA ultracrimp tube	03989	25	8	60,000	340,596	25 x 97	Closure	Included	50	Ultracrimp plugs and caps
										03994	1	Rotor cap
										03935	1	Tube rack
										12771	1	Tool kit for Ultracrimp Sealing system

Thermo Scientific TN-890 Rotor



Rotor specifications

Type	Neo angle	
Material	Titanium	
Capacity	8 x 5 mL	
Maximum speed	90,000 rpm	
Tube dimensions Ø x L	13 x 53 mm	
Angle	10°	
K factor	10	
Max. Sample density	1.7 g / mL	
Net weight	4.9 kg / 10.8 lbs	
Warranty	5 years	
	rcf	Radius
Maximum	645,101 xg	71.3 mm
Average	554,624 xg	61.3 mm
Minimum	463,657 xg	51.2 mm

Rotor and accessories ordering information

TN-890 rotor packages include:

Description	Cat. no.
TN-890 rotor	75003033
Caps (8)	
Cap o-rings (54)	
Cap handle	
Optical speed disc (2)	
Rotor stand	
Lubricant	
Vacuum grease	
Log book	
Instruction manual	

Accessories

Description	Cat. no.
PA seal tube kit for 5 mL tubes, includes 100 5 mL PA tubes / 8 spacers / tools	50146080
Tube rack for 5 mL PA tube	50146076
STF3 (tube sealer) 110v (CSA)	50146078
STF3 (tube sealer) 200-240v (CE mark)	50146079

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
5.0	5.1	PA seal tube	50146014	50	8	90,000	645,101	13 x 53	PA seal tube kit ¹	50146080	1	PA seal tube kit for 5 mL tubes

¹50146078 or 50146079 required.

Thermo Scientific TN-1065 rotor



Rotor specifications

Type	Neo angle	
Material	Titanium	
Capacity	10 x 12 mL	
Maximum speed	65,000 rpm	
Tube dimensions Ø x L	16 x 78 mm	
Angle	10°	
K factor	23	
Max. Sample density	1.7 g / mL	
Net weight	9.6 kg / 21.1 lbs	
Warranty	5 years	
	rcf	radius
Maximum	401,614 xg	85.1 mm
Average	337,903 xg	71.6 mm
Minimum	274,438 xg	58.1 mm

Rotor and accessories ordering information

TN-1065 rotor package includes: rotor packages include:

Description	Cat. no.
TN-1065 rotor	75003034
Caps (10)	
Cap o-rings (30)	
Cap handle	
Optical speed disc (2)	
Rotor stand	
Lubricant	
Vacuum grease	
Log book	
Instruction manual	

Accessories

Description	Cat. no.
PA seal tube kit for 12 mL tubes, includes 100 12 mL PA tubes / 10 spacers / tools	50146081
Tube rack for 12 mL PA tube	50146077
STF3 (tube sealer) 110v (CSA)	50146078
STF3 (tube sealer) 200-240v (CE mark)	50146079

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
12.0	13.5	PA seal tube	50146075	50	10	65,000	401,614	16 x 78	PA seal tube kit ¹	50146081	1	Pa seal tube kit for 12 mL tubes

¹50146078 Or 50146079 required.

Thermo Scientific TN-1865 rotor



Rotor specifications

Type	Neo angle	
Material	Titanium	
Capacity	18 x 5 mL	
Maximum speed	65,000 rpm	
Tube dimensions Ø x L	13 x 53 mm	
Angle	10°	
K factor	15	
Max. Sample density	1.7 g / mL	
Net weight	8.7 kg / 19.1 lbs	
Warranty	5 years	
	rcf	radius
Maximum	430,874 xg	85.1 mm
Average	383,681 xg	81.3 mm
Minimum	336,317 xg	71.2 mm

Rotor and accessories ordering information

TN-1865 rotor package includes: rotor packages include:

Description	Cat. no.
TN-1865 rotor	75003034
Caps (18)	
Cap o-rings (54)	
Cap handle	
Optical speed disc (2)	
Rotor stand	
Lubricant	
Vacuum grease	
Log book	
Instruction manual	

Accessories

Description	Cat. no.
PA seal tube kit for 5 mL tubes, includes 100 5 mL PA tubes / 18 spacers / tools	50146082
Tube rack for 12 mL PA tube	50146076
STF3 (tube sealer) 110v (CSA)	50146078
STF3 (tube sealer) 200-240v (CE mark)	50146079

Labware ordering information

Tube vol. (mL)	Vol. fill (mL)	Description	Cat. no.	Qty. /pkg.	Tubes /rotor	Max. speed (rpm)	Max. rcf (xg)	Dims Ø x L (mm)	Type	Cat. no.	Qty. /pkg.	Description
Required tube closures, adapters, tools & accessories												
5.0	5.1	PA seal tube	50146014	50	18	90,000	645,101	13 x 53	PA seal tube kit ¹	50146081	1	PA seal tube kit for 5 mL tubes

¹50146078 or 50146079 required.

Find out more at thermofisher.com/rotors

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