thermo scientific



Powerful at every turn

Thermo Scientific[™] General Purpose Pro and Plus Centrifuge Series



Sorvall X Pro and ST Plus Centrifuge Series

Thermo Scientific[™] Sorvall[™] X Pro and ST Plus centrifuges are designed to offer improved performance, reliability, consistency and safety.

With fixed-angle rotor RCF (Relative Centrifugal Force) of over 25000 x g, and swinging bucket rotor RCF of over 7000 x g, even the toughest separations can be completed better and faster.

Scientists working across biopharmaceutical, academic research and clinical diagnostic applications can choose between ventilated or refrigerated 1.6L (4x400ml) and 4L (4x1000ml) floor and bench models.









Sorvall X Pro touchscreen interface

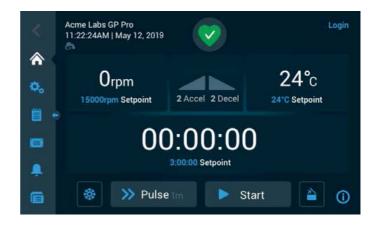


Sorvall ST Plus user interface

Simple touchscreen programming

Discover the Sorvall X Pro touchscreen features including:

- Easily accessible menu bar
- Centrifuge health icon for at-a-glance monitoring
- Time-saving pre-temp button
- Quick spins
- Useful information icon for additional support





Rotor exchange

Thermo Scientific[™] Auto-Lock[™] Rotor Exchange

Helps save time for faster results:

- Secure, ergonomic push-button rotor exchange in as little as three seconds
- Trouble-free installation and removal with no tools required
- Full chamber access for cleaning convenience and minimizes risk of drip tray contamination
- Flexibility to quickly switch between applications and evolve with the changing needs of your laboratory





Carbon fiber rotors



Superior ergonomics with enhanced performance

- Thermo Scientific[™] Fiberlite[™] rotor/lid combinations offer protection to the user, the centrifuge and the samples during centrifugation*
- Outstanding durability provided by carbon fiber construction is supported by a 15 year Fiberlite[™] Rotor warranty
- Fiberlite[™] Rotors can reach higher speeds than their metal counterparts, improving separations and results
- Superior ergonomics driven by lightweight construction, integrated handle design and Auto-Lock[™] Rotor exchange

*Biocontainment certified by National Institute for Health Protection, Porton Down, UK

Weight savings with carbon fiber rotors: Weight comparison of fully loaded 6 x 250 mL capacity floor model rotors*



Rotor weight



Biocontainment lids

Thermo Scientific[™] ClickSeal[™] Biocontainment Lids

One-handed sample protection

- Biocontainment sealing options for glove-friendly, one-handed open/close capability are ergonomically designed for both right and left-handed operations
- Simple operation for all laboratory users, eliminating multi-turn screw caps and complicated high pressure clips
- Biocontainment certification by National Institute for Health Protection, Porton Down, UK





Safety and ergonomics

Hand grip cue on the lid indicates the easiest and best one-handed closure location.



Improved safety with reduced pinch-points designed to prevent accidental injury. Motorized

gas springs with safety protection.





Enhancements

Accessory tray holds tools or samples as you prepare for your run.

Front USB port for easier plug in and data transfer







Thermo Scientific™ Sorvall™ X4R Pro

Thermo Scientific[™] Sorvall[™] ST4R Plus

4 L Benchtop Centrifuges: specifications and ordering information

Specifications	Sorva	Sorvall X4 Pro		4R Pro	Sorva	ll ST4 Plus	Sorvall S	4R Plus			
	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only			
Swinging Buckets Rotors											
Maxiumum Capacity				4 x 1000 mL v	ith TX-1000 rot	or					
Maximum Speed		6000 rpm with B	IOShield 1000A roto		5300 rpm with	BIOShield 1000A roto	r				
Maximum RCF		7164 x g with Bl	OShield 1000A rotor			5590 x g with E	BIOShield 1000A rotor				
Fixed Angle Rotors											
Maxiumum Capacity		6 x 250 mL with F14-6x250LE rotor 6 x 100 mL with F15-6x100 or F10-6x100 rot									
Maximum Speed			15200 rpm	with F21-48x2, N	Aicroliter 48x2 or Microliter 30x2						
Maximum RCF				25830 x g wit	h Microliter 30x	2					
Centrifuge Details											
Control System		Microprocessor									
Drive System		Direct, Brushless induction low profile motor									
Accel/Decel Profiles		Choices of 9 Accel / 10 Decel Rates									
Material	front, top, side	front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber									
Safety Features		SMARTSpin Imbalance detection, finger-pinch prevention, crash-proof construction 5 Year Limited (2 years standard warranty + 3 additional years on motor and refrigeration)									
Warranty			()	,	,		0 ,				
Includes		printed English user manual, USB stick with 28 languages of user manual, corrosion resistance oil (70009824), power cord, declara conformity									
Temperature Range		I/A	-10°C to		N/A		-10°C to +40°C				
Number of Compatible Rotors		17 17				12 12					
Display Details					1						
Display		Full color touch screen interface Push button and high contrast LCD interfa									
Run Time	max 99h, 59m	in, 59sec; also wit	h continuous and cu	stomizable pulse	max 9h, 59min; also with continuous and pulse modes						
Timer		count	up or down	count down only							
Program Storage		up to 100	run programs		up to 6 run programs						
Programmability		via easy access	touch screen menu		via 6 direct access buttons						
Dimensions, Weight											
Width (inches) Exterior		2.3	29.4		22.3		29.4				
Width (cm) Exterior	5	6.6	74.6		56.6		74.6				
Depth (inches) Exterior	2	7.2	27.2		27.2		27.2				
Depth (cm) Exterior		69.0		69.0		69.0		69.0			
Height (inches) Exterior		14.3		14.2		14.3		14.2			
Height (cm) Exterior		36.2		36.1		36.2		36.1			
Height (inches) Open Cover		33.9		33.9		33.9		33.9			
Height (cm) Open Cover		86.1		86.0		86.1		86.0			
Footprint Dimensions (inches)		22.3 x 23.1		29.4 x 23.0		22.3 x 23.1		29.4 x 23.0			
Footprint Dimensions (cm)		56.6 x 58.8		74.6 x 58.4		56.6 x 58.8		74.6 x 58.4			
Net Weight (lbs)		196		265		196		265			
Net Weight (kgs)		89	12	0		89	12	0			
Certifications and Standards				1				1			
IVD/MD	X		Χ		X		Χ				
Certifications	Eľ	I/UL/IEC 61010-1,	EN/UL/IEC 61010-2		,	,	EC 61326-2-6, FCC pa	art 15			
Standards	Comu		Comertilly	ISO 14971, ISO Sorvall X4R Pro		Sorvall ST4 Plus		Sorvall ST4R Plus			
Ordering Information		II X4 Pro General Use		4R Pro General Use		General Use		General Use			
	IVD	General Use Only	IVD	Only	IVD	Only	IVD	Only			
230V§	75009505	75009905	75009520*/	75009920 / 75009820§	75009509*	75009909	75009524* / 750096248*§	75009924 / 75009824 [§]			
23003			75009620*§	750096203			750096246 3	70009824*			

*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details. § 220V / 60 Hz [Korea, etc.]

75009522*

75009922

75009511*

75009911

75009526*

75009926

75009907

75009507*

100V





Thermo Scientific™ Sorvall™ X4R Pro Floor Model

Thermo Scientific™ SorvalI™ ST4R Plus Floor Model

4 L Floor Model Centrifuges: specifications and ordering information

	Sorvall X	Sorvall X4F Pro		Sorvall X4RF Pro		Sorvall ST4F Plus		Sorvall ST4RF Plus		
Specifications	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only		
Swinging Buckets Rotors										
laxiumum Capacity				4 x 100	0 mL with TX-10	000 rotor				
laximum Speed	60	00 rpm with B	IOShield 1000	A rotor		5300 rpr	n with BIOShield 10	00A rotor		
laximum RCF	71	64 x g with Bl	OShield 1000A	A rotor		5590 x g	g with BIOShield 100	DOA rotor		
ixed Angle Rotors										
laxiumum Capacity	6	c 250 mL with	F14-6x250LE	rotor	6 x 100 mL with F15-6x100 or F10-6x100 rotor					
laximum Speed			iter 30x2							
/laximum RCF				25830	x g with Microlit	er 30x2				
entrifuge Details										
Control System					Microprocessor					
rive System				Direct, Brushle	ess induction lov	w profile moto	r			
ccel/Decel Profiles				Choices o	f 9 Accel / 10 D	ecel Rates				
Naterial	front, top, si	front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber								
afety Features		SMARTSpin Imbalance detection, finger-pinch prevention, crash-proof construction								
Varranty		5 Year Limited (2 years standard warranty + 3 additional years on motor and refrigeration)								
ncludes		printed English user manual, USB stick with 28 languages of user manual, corrosion resistance oil (70009824), power cord, declar conformity								
emperature Range		N/A		-10°C to +40°C		N/A		-10°C to +40°C		
umber of Compatible Rotors	17			17	12			12		
isplay Details										
isplay		-ull color touc	h screen interf	ace	Push button and high contrast LCD interface					
tun Time	max 99h	max 99h, 59min, 59sec; also with continuous and customizable pulse				max 9h, 59min; also with continuous and pulse modes				
imer		count i	up or down				count down only			
rogram Storage		up to 100 run programs				up to 6 run programs				
rogrammability	vi	a easy access	touch screen i	menu	via 6 direct access buttons					
imensions, Weight				, i i i i i i i i i i i i i i i i i i i						
/idth (inches) Exterior	22.	3		22.3	22.	3		22.3		
/idth (cm) Exterior	56.	6	56.6		56.6		56.6			
epth (inches) Exterior	27.	2	27.2		27.2		27.2			
epth (cm) Exterior	69.	69.0		69.0		69.0		69.0		
eight (inches) Exterior	32.	32.8		32.8		32.8		32.8		
eight (cm) Exterior	83.	83.5		83.5		83.5		83.5		
leight (inches) Open Cover	54.	54.1		54.1		54.1		54.1		
eight (cm) Open Cover	13	135		135		135		135		
ootprint Dimensions (inches)	22.3 x	22.3 x 23.1		22.3 x 23.0		22.3 x 23.1		22.3 x 23.0		
ootprint Dimensions (cm)	56.6 x	56.6 x 58.8		56.6 x 58.4		56.6 x 58.8		56.6 x 58.4		
let Weight (Ibs)	33	335		319		335		319		
let Weight (kgs)	15	152		145		152		145		
ertifications and Standards										
/D/MD	Х		Х		Х		Х			
ertifications	EN/U	, JL/IEC 61010-	1, EN/UL/IEC 6	61010-2-020 and 61	1010-2-101, EN	UL/IEC 61326	-1, EN/UL/IEC 6132	26-2-6, FCC part 15		
tandards				ISO 149	71, ISO 13485, I	SO 9001				
	Sorvall X	Sorvall X4F Pro		Sorvall X4RF Pro		Sorvall ST4F Plus		Sorvall ST4RF Plus		
Ordering Information	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only		
230V§	75009532*	75009932	75009541* / 75009026*§	75009941 / 75009027§	75009982*	75009956	75009985* / 75009024*§	75009959 / 75009025§		
120V	75009533*	N/A	75009539*	N/A	75009981*	N/A	75009984*	N/A		
100V	75009534*	75009934	75009940	75009980	75009954	75009983*	75009957	1		

*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details.

§ 220V / 60 Hz [Korea, etc.]

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Thermo Scientific[™] Sorvall[™] X1 and X1R Pro

Thermo Scientific[™] Sorvall[™] ST1 and ST1R Plus

1.6 L Benchtop Centrifuges: specifications and ordering information

Specifications	Sorval	I X1 Pro	Sorva	II X1R Pro	Sorvall	ST1 Plus	Sorvall ST	1R Plus		
	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only		
Swinging Buckets Rotors										
Maxiumum Capacity				4 x 400 mL	with TX-400 rotor					
Maximum Speed	6300 rpm with BIOShield 720 rotor 5300 rpm with BIOShield 720 rotor									
Maximum RCF	7188 x g with BIOShield 720 rotor 5088 x g with BIOShield 720									
Fixed Angle Rotors										
Maxiumum Capacity	6x100 mL with F15 6x100y 6x100 mL with F15 6x100y									
Maximum Speed			15200	rpm with F21-48x2,	Microliter 48x2 or Microliter 30x2					
Maximum RCF				25830 x g w	ith Microliter 30x2					
Centrifuge Details										
Control System	Microprocessor									
Drive System	Direct, Brushless induction low profile motor									
Accel/Decel Profiles	Choices of 9 Accel / 10 Decel Rates									
Material	front, top, sides: PC-ABS plastic painted with 2K PUR-based lacquer; metal housing: cold rolled steel with powder paint; centrifuge bowl: stainless steel; centrifuge feet: rubber									
Safety Features	SMARTSpin Imbalance detection, finger-pinch prevention, crash-proof construction									
Warranty		5 Year Limited (2 years standard warranty + 3 additional years on motor and refrigeration)								
Includes	printed English user manual, USB stick with 28 languages of user manual, corrosion resistance oil (70009824), power cord, declaration of conformity									
Temperature Range	N/A		-10°C	to +40°C	N	I/A	-10°C to +40°C			
Number of Compatible Rotors		16		16		14				
Display Details										
Display		Full color touch screen interface Push button and high contrast LCD interface								
Run Time	max 99h, 59m	in, 59sec; also with o	continuous and cus	stomizable pulse	max 9h, 59min; also with continuous and pulse modes					
Timer		count up	or down		count down only					
Program Storage		up to 100 ru	n programs		up to 6 run programs					
Programmability		via easy access to	uch screen menu		via 6 direct access buttons					
Dimensions, Weight										
Width (inches) Exterior	1	7.5	24.6		17.5		24.6			
Width (cm) Exterior	4	4.5	62.5		44.5		62.5			
Depth (inches) Exterior	, 2	26	26		26		26			
Depth (cm) Exterior	6	66		66		66		66		
Height (inches) Exterior	14.3		14.2		14.3		14.2			
Height (cm) Exterior	3	36.2		36.1		36.2		36.1		
Height (inches) Open Cover	33.6		33.6		33.6		33.6			
Height (cm) Open Cover	8	5.5	85.5		85.5		85.5			
Footprint Dimensions (inches)	17.5	17.5 x 23.1		24.6 x 23.0		17.5 x 23.1		24.6 x 23.0		
Footprint Dimensions (cm)	44.5	x 58.8	62.5 x 58.4		44.5 x 58.8		62.5 x 58.4			
Net Weight (lbs)	1	134		207		134		207		
Net Weight (kgs)	6	61	94		61		94			
Certifications and Standards										
IVD/MD	Х		Х		Х		Х			
Certifications		EN/UL/IEC 61010-	1, EN/UL/IEC 6101	0-2-020 and 61010-	2-101, EN/UL/IEC 61	326-1, EN/UL/IEC 61	326-2-6, FCC part 15			
Standards				ISO 14971, IS	0 13485, ISO 9001					
Ordering Information	Sorval	l X1 Pro	Sorva	II X1R Pro	Sorvall	ST1 Plus	Sorvall ST1R Plus			
	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only	IVD	General Use Only		
230V§	75009220*	75009720	75009260*	75009760	75009240*	75009740	75009380*	75009880		
120V	75009220*	N/A	75009261*	N/A	75009240*	N/A	75009381*	N/A		
100V	75009220*	75009720	75009263*	75009763	75009240*	75009740	75009383*	75009883		

*Indicates a centrifuge, rotor and/or adapter product approved for use in clinical applications; see user manual for details. § 220V / 60 Hz [Korea, etc.]

Find out more at thermofisher.com/gp-pro-centrifuge



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