



6.2 GP1R Refrigerated Spare Parts

Sorvall:

Sorvall X1R Pro,
Sorvall ST 1R Plus

Thermo Scientific:

SL1R Plus
Multifuge X1R Pro
Megafuge ST1R Plus

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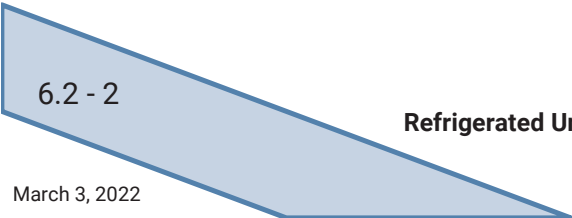


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Overview

- [Front Panel](#) [Parts List & Tools for Disassembly](#)
- [Lid](#) [Parts List & Tools for Disassembly](#)
- [Electronics](#) [Parts List & Tools for Disassembly](#)
- [Service Kits and Stickers](#) [Parts List & Tools for Disassembly](#)



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Refrigerated Units: Multifuge X1R – Series / Megafuge ST1R – series / Sorvall X1R – series / ST1R – series / SL1R - series

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Centrifuges Overview

- Megafuge ST1R Plus
- Sorvall ST1R Plus
- Thermo Scientific SL1R Plus

- Multifuge X1R Pro
- Sorvall X1R Pro



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Front Panel



[Pos. 1000](#)



[Pos. 1050](#)



[Pos. 1060](#)



[Pos. 1070](#)



[Pos. 1300](#)

[Pos. 1310](#)



[Pos. 1400](#)



[Pos. 1110](#)

[Pos. 1120](#)

[Pos. 1130](#)



[Pos. 1500](#)



[Pos. 1510](#)



[Pos. 1200](#)

[Pos. 1210](#)

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Spare Parts Front Panel

Pos.	Part Nr.:	Description:	Multifuge X1R	Megafuge ST1R	Sorvall X1R	Sorvall ST1R	SL 1R	Required Tools	Additional Recommended Tools
1000	50155348	Front Panel (complete, incl. Pos. 1050, 1060, 1070) /	X	X	X	X	X	TX 25	
1050	20480320	Screw for plastic parts	X	X	X	X	X	TX 30	TX 25
1060	20480317	Washer	X	X	X	X			
1070	20290706	O-Ring	X	X	X	X			
1200	50157318	GUI Multifuge X1R	X					TX 25	
1110	50157305	Keypad Overlay Megafuge ST1R		X				TX 25	TX 15
1210	50157317	GUI Sorvall X1R			X			TX 25	
1120	50157307	Keypad Overlay ST 1R				X		TX 25	TX 15
1130	50157309	Keypad Overlay SL 1R					X		
1300	50160872	Adapter for UI GP1 Plus		X		X	X	TX 25	
1310	50157569	Bezel GUI GP1		X		X	X	TX 25	
1400	20150380	Display SUI GP Plus		X		X	X	TX 15	TX 25
1500	50150955	Clamp Ferrite round		X		X	X		TX 25
1510	20059877	USB Cover	X		X				

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Lid



[Pos. 2000](#)



[Pos. 2010](#)



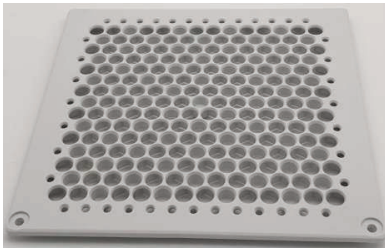
[Pos. 2030](#)



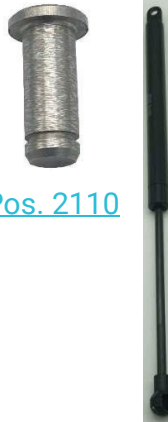
[Pos. 2040](#)



[Pos. 2050](#)



[Pos. 2400](#)



[Pos. 2110](#)

[Pos. 2100](#)



[Pos. 2065](#)



[Pos. 2060](#)



[Pos. 2070](#)



[Pos. 2500](#)



[Pos. 2200](#)

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Spare Parts Lid

Pos.	Part Nr.:	Description:	Multi X1R	Mega ST1R	Sorvall X1R	Sorvall ST1R	SL 1R	Required Tools	Additional Recommended Tools
2000	50155347	Lid (Upper & lower cover, styrofoam inlay)	X	X	X	X	X	TX 25, TX 30	
2010	50159428	Cover Plate	X	X	X	X	X	TX 25	TX 30
2030	20058480	Hook	X	X	X	X	X	17mm jaw wrench, pipe wrench	TX 30
2040	50135798	Mounting bracket	X	X	X	X	X	5mm Allen	striker pin, hammer, pipe wrench, TX 25, TX 30
2050	20058489	Distance Buffer	X	X	X	X	X		
2060	50157693	Window upper part	X	X	X	X	X	32mm jaw wrench	
2065	20056625	Window lower part	X	X	X	X	X	32mm jaw wrench	
2070	20058625	Hinge	X	X	X	X	X	TX 25	TX 30
2200	20058632	Gasket	X	X	X	X	X		
2100	50154682	Gas lid stay 220N	X	X	X	X	X	Striker pin, hammer, pipe wrench	TX 25
2110	50161877	Pin notch	X	X	X	X	X	Striker pin, hammer	
	70900137	Gas lid stay kit	X	X	X	X	X		
2400	50155346	Air grille	X	X	X	X	X	TX 25	
2500	50155349	Cover Refrigeration System	X	X	X	X	X	TX 25	

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Electronics I



[Pos. 3000](#)

[Pos. 3700](#)



[Pos. 3010](#) [Pos. 3020](#)



[Pos. 3025](#)



[Pos. 3030](#)



[Pos. 3040](#)



[Pos. 3680](#)



[Pos. 3500](#)



[Pos. 3400](#)



[Pos. 3100](#)

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Electronics II



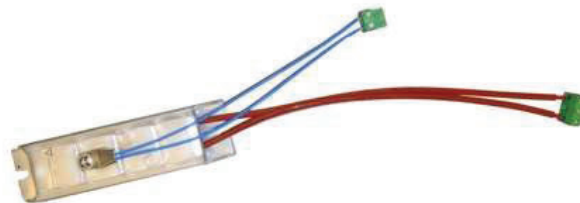
[Pos. 3200](#)



[Pos. 3300](#)



[Pos.3310](#)



[Pos.3320](#)

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Electronics III



[Pos. 3630](#)



[Pos. 3700](#)



[Pos. 3610](#)



[Pos. 3640](#)



[Pos. 3710](#)



[Pos. 3620](#)



[Pos. 3650](#)



[Pos. 3720](#)



[Pos. 3660](#)



[Pos. 3670](#)

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Spare Parts Electronics I

Pos.	Part Nr.:	Description:	230V	120V	Required Tools	Additional Recommended Tools
3000	20150355	Main PCB	X	X	8mm socket wrench	4mm Allen
3010	20058498	Motor Fan	X		7mm socket wrench	8mm socket wrench
3020	50164043	Motor Fan		X		
3025	20058638	Fan Wheel	X	X		
3030	20180747	Overcurrent Switch	X	X	Small screwdriver	
3040	20180745	Panel Plug 120V / 230V 10A	X	X		
3200	50156884	Motor GP	X	X	13mm socket wrench	AutoLock Tool kit, 4mm Allen
3400	20150270	Sensor Cap	X	X	TX 25	
3500	70902710	Lid Latch	X	X	TX 25	
3680	50159646	Adapter plate	X	X		

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Spare Parts Electronics II

	Part Nr.:	Description:	230V	120V	Required Tools	Additional Recommended Tools
3100	70902026	AutoLock	X	X	3mm Allen	AutoLock Tool Kit
3300	20058551	Motor cover	X	X		
3310	20210445	Fan Main PCB	X	X	TX 25	
3320	20160746	Brake Resistor 120Ω	X	X		

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Spare Parts Electronics III

	Part Nr.:	Description:	230V	120V	Required Tools	Additional Recommended Tools
3610	20190300	Line in cord 120V		X		
3620	20190246	Line in cord 230V	X			
3630	50120465	Latch wire	X	X		TX 25
3640	50120463	Display wire	X	X		
3650	50120066	Keypad Overlay wire	X	X		
3660	20058639	EBM-Fan wire	X	X		
3670	50120160	Compressor wire	X	X		
3700	20220629	Cap	X	X		
3710	50159979	Plug for rear panel	X	X		
3720	50149033	Modular Coupling (RJ45)	X	X		

Spare Parts NV-RAM

Pos.	Part Nr.:	Description:	230V	120V	100V	Required Tools	Additional Recommended Tools
3700	70907379	NVRAM PRV GP1 Plus			X	Chip removal tool or small screwdriver	TX 25
	70907369	NVRAM PRV GP1 Plus		X			
	70907367	NVRAM PRV GP1 Plus	X				
	70907377	NVRAM PRV GP1 Pro			X		
	70907365	NVRAM PRV GP1 Pro		X			
	70907363	NVRAM PRV GP1 Pro	X				

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Service Kits and Sticker



Pos. 4000



Pos. 4500

Pos. 4500:
 With instruction number 50119249.
 Tool kit includes parts that make it easier to:

- Remove the AutoLock
- Check function of the AutoLock
- Do a rotor emergency release
- Change anti-vibration mounts



Pos. 4290



Pos. 4200



Pos. 4210



Pos. 4220



Pos. 4230



Pos. 4240



Pos. 4250



Pos. 4260



Pos. 4270



Pos. 4280

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Cooling System



[Pos. 5100](#)



[Pos. 5000](#)
[Pos. 5005](#)



[Pos. 5010](#)



[Pos. 5020](#)



[Pos. 5150](#)



[Pos. 5030](#)



[Pos. 5200](#)

Spare Parts Cooling System

Pos.	Part Nr.:	Description:	120V	230V
5000	20240674	Compressor 230V 50/60Hz R134a		X
5005	20240654	Compressor 115V/60Hz R134a	X	
5010	20240577	Liquid Dryer	X	
5020	50116522	Overpressure switch	X	
5030	20240656	Expansion valve 134a	X	
5100	20058497	Condenser	X	
5150	20058641	Fan frame	X	
5160	20058638	Fan blade	X	
5170	20058498	Motor Fan 230V		X
5175	50164043	Motor Fan 120V	X	
5200	50161272	Temperature sensor	X	

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