

Thermo Scientific Sorvall ST 8FR

Speed Range (depending on the rotor)	300–17 850 rpm
RCF Value at max. Speed	30279 x g
Running Time	99 h 59 min 50 sec, hold
Noise Level at max. Speed	< 55 dB (A) with a TX-150 rotor 1 m in front of the unit at 1.6 m height
Maximum Kinetic Energy	10.1 kNm
Average Heat Dissipation	0.35 kW/h



Environmental Conditions

For Storage and Shipping	Temperature: -10 °C to 55 °C Humidity: 15 % to 85 %
For Operation	Use in interior spaces Altitudes of up to 3000 m above sea level Temperature: 2 °C to 35 °C Max. relative humidity 80% up to 31 °C; decreasing linearly to 50% relative humidity at 40 °C
Pollution Degree	2
Overvoltage Category	II
IP	20

Dimensions

Height (open door / closed door)	117.0–122.0 cm (46.1–48.0 in) / 79.0–84.0 cm (31.0–33.0 in)
Width	46.5 cm (18.3 in)
Depth	52.0 cm (20.5 in)

Weight (without rotor)	87 kg (192 lbs)
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Table 6: Technical Data Sorvall ST 8FR

6. 3. 2. Mains Supply

Article No.	Centrifuge	Voltage	Frequency	Rated Current	Power Consumption	Equipment Fuse	Building Fuse
75007202	Sorvall ST 8	100 V $\pm$ 10 %	50 / 60 Hz	5.5 A	310 W	10 AT	15 AT
75007200	Sorvall ST 8	120 V $\pm$ 10 %	60 Hz	5 A	310 W	10 AT	15 AT
75007201	Sorvall ST 8	220–230 V $\pm$ 10 %	50 / 60 Hz	2 A	310 W	5 AT	16 AT
75007205	Sorvall ST 8R	100 V $\pm$ 10 %	50 / 60 Hz	10 A	850 W	15 AT	15 AT
75007203	Sorvall ST 8R	120 V $\pm$ 10 %	60 Hz	8 A	700 W	15 AT	15 AT
75007204	Sorvall ST 8R	220–230 V $\pm$ 10 %	50 / 60 Hz	4 A	750 W	15 AT	16 AT
75007206	Sorvall ST 8FR	100 V $\pm$ 10 %	50 / 60 Hz	10 A	850 W	15 AT	15 AT
75007207	Sorvall ST 8FR	120 V $\pm$ 10 %	60 Hz	8 A	700 W	15 AT	15 AT
75007208	Sorvall ST 8FR	220–230 V $\pm$ 10 %	50 / 60 Hz	4 A	750 W	15 AT	16 AT

Table 8: Mains Supply

6. 3. 3. Refrigerants

Article No.	Centrifuge	Refrigerant	Quantity	Low and high side max. pressure	GWP	CO2e
75007205	Sorvall ST 8R	R-134a	0.265 kg	10 / 26 bar	1 430	0.38 t
75007203	Sorvall ST 8R	R-134a	0.265 kg	10 / 26 bar	1 430	0.38 t
75007204	Sorvall ST 8R	R-134a	0.315 kg	10 / 21 bar	1 430	0.45 t
75007206	Sorvall ST 8FR	R-134a	0.350 kg	10 / 26 bar	1 430	0.50 t
75007207	Sorvall ST 8FR	R-134a	0.350 kg	10 / 26 bar	1 430	0.50 t
75007208	Sorvall ST 8FR	R-134a	0.375 kg	10 / 21 bar	1 430	0.54 t

Contains fluorinated greenhouse gases in a hermetically sealed system.

Table 9: Refrigerants