

Technical Data

The technical data of the Sorvall LYNX 4000 / 6000 centrifuge is listed in the following table.

Table 1. Technical Data

Feature	Sorvall LYNX 4000	Sorvall LYNX 6000
Environmental Conditions	-Use in interior Spaces -Altitudes of up to 2,000 m above Sea Level -Max. relative humidity 85 % up to 30 °C	
Environmental Conditions during Storage and Shipping	Temperature: -10 °C to +55 °C Humidity: 15 % to 85 %	Temperature: -10 °C to +55 °C Humidity: 15 % to 85 %
Permissible Ambient Temperature	+5 °C to +35 °C	+5 °C to +35 °C
Overvoltage Category	II	II
Pollution Degree	2	2
Heat Dissipation /h*	2.0 kWh / 6,830 Btu / 7,200 kJ	1.2 kWh / 4,100 Btu / 4,320 kJ
IP (statement of the degree of protection according to IEC 60529)	20	20
Run Time	99 hours:59min, hold	99 hours:59min, hold
Maximum Speed n_{max}	24000 rpm (depending on the rotor)	29000 rpm (depending on the rotor)
Minimum Speed n_{min}	500 rpm	500 rpm
Maximum RCF-Value at n_{max}	68905 x g	100605 x g
Maximum kinetic Energy	< 203 kJ	< 203 kJ
Noise Level for swinging Bucket at maximum Speed	< 61 dB (A)**	< 61 dB (A)**
Noise Level for Fixed Angle Rotors at maximum Speed	< 59 dB (A)**	< 59 dB (A)**
Temperature Setting Range	-10 °C to +40 °C	-20 °C to +40 °C
Dimensions		
Height with Door closed (incl. GUI)	1048 mm	1048 mm
Height with Door open	1531 mm	1531 mm
Width	700 mm	700 mm
Depth	805 mm	805 mm
Weight without Rotor	285 kg	295 kg

* Rotor A27-8x50, Typical Run 4 °C at 24,000 rpm 30 minutes, 60 Hz +5 %, 30 min stand by 4° C (lid closed)

** Measures at 1 m distance and at 1.6 m height

Directives, Standards and Guidelines

The Sorvall LYNX 4000 / 6000 centrifuge is produced and inspected according to the following standards and guidelines:

Table 2. Directives, Standards and Guidelines

Tension / Frequency	Directives and Guidelines	Observed by the following standards
Europe 220 V / 230 V / 240 V / 380 V / 400 V / 415 V 50 / 60 Hz	<p><u>2006/42/EC Machinery</u></p> <p><u>2014/35/EU Low Voltage</u> (protective goals)</p> <p><u>2014/30/EC Electromagnetic Compatibility (EMC)</u> (protective goals)</p> <p><u>2011/65/EC RoHS</u> Directive on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment.</p>	<ul style="list-style-type: none"> • EN 61010-1 • EN 61010-2-020 • EN 61326-1 Class B • EN ISO 14971 • ISO 9001
USA & Canada 208 V / 220 V / 230 V / 240 V 60 Hz		<ul style="list-style-type: none"> • ANSI/UL 61010-1 • UL 61010-2-020 • EN ISO 14971 • ISO 9001
Japan 200 V 50 / 60 Hz		<ul style="list-style-type: none"> • IEC 61010-1 • IEC 61010-2-020 • IEC 61326-1 Class B
China 220 V / 230 V / 240 V / 380 V 50 / 60 Hz		<ul style="list-style-type: none"> • EN ISO 14971 • ISO 9001

Functions and Features

The following table gives an overview of the important functional and performance characteristics of the Sorvall LYNX 4000 / 6000 centrifuge.

Table 3. Functions and Features

Component / Function	Description / Features
Structure / Housing	Galvanized Steel Chassis with Armoured Plating
Rotor Chamber	Stainless Steel
Drive	Induction Drive without Carbon Brushes
Touchscreen and Display	Easy-to-clean Touchscreen and Display Surface
Controls	Microprocessor-controlled
Internal Memory	Most recent Data is saved
Functions	RCF, Temperature, and Pre-temp Selection
Acceleration / Deceleration Profiles	9 Acceleration and 10 Deceleration Curves
Rotor Recognition	Automatically and instantly, when Inserting the Rotor
Imbalance Recognition	Electronic, contingent on Rotor and Speed
Centrifuge Door Lock	Automatic Centrifuge Door Closing and Locking starting from an initial Hold Position
Rotor Lid Holder	Lefthand Side of the Centrifuge
Rotor Landing Pad	Righthand Side of the Centrifuge in Front of the Touchscreen

Refrigerants

Order No.	Centrifuge	Refrigerant	Quantity	Pressure	GWP	CO2e
75006580	Sorvall LYNX 4000	R-449A	1.25 kg	34 bar	1387	1.73 t
75006581	Sorvall LYNX 4000	R-449A	1.25 kg	34 bar	1387	1.73 t
75006590	Sorvall LYNX 6000	R-449A	1.36 kg	34 bar	1387	1.89 t
75006591	Sorvall LYNX 6000	R-449A	1.36 kg	34 bar	1387	1.89 t

This product complies with F-Gas regulation (EU) No. 517/2014.

Contains fluorinated greenhouse gases in a hermetically sealed system.