
APPENDIX C

FREEZE DRYER

SPECIFICATIONS

This Appendix contains technical information about the Freeze Dryer including electrical specifications and operating conditions.

Electrical Specifications

Catalog #	Description	Voltage		Frequency (Hz)	Amps Max. with Vacuum Pump
		Nominal	Operating Range		
70020xxxx	2.5L -50C	115V	103-127	60	14
		230V	187-253	60	7
		230V	198-253	50	7
71020xxxx	2.5L -84C	115V	103-127	60	16
		230V	187-253	60	10
		230V	198-253	50	10
70040xxxx	4.5L -50C	115V	103-127	60	14
		230V	187-253	60	7
		230V	198-253	50	7
71040xxxx	4.5L -84C	115V	103-127	60	16
		230V	187-253	60	10
		230V	198-253	50	10
72040xxxx	4.5L -105C	115V	103-127	60	16
		230V	187-253	60	10
		230V	198-253	50	10
70080xxxx	8L -50C	115V	103-127	60	14
		230V	187-253	60	7
		230V	198-253	50	7

Environmental Conditions

- Indoor use only.
- Ambient temperature range: 41° to 104°F (5° to 40°C).
- Maximum relative humidity: 80% for temperatures up to 88°F (31°C), decreasing linearly to 50% relative humidity at 104°F (40°C).
- Main supply voltage fluctuations not to exceed $\pm 10\%$ of the nominal voltage.
- Transient overvoltages according to Installation Categories II (Overvoltage Categories per IEC 1010). Temporary voltage spikes on the AC input line that may be as high as 1500V for 115V models and 2500V for 230V models are allowed.
- Used in an environment of Pollution degrees 2 (i.e., where normally only non-conductive atmospheres are present). Occasionally, however, a temporary conductivity caused by condensation must be expected, in accordance with IEC 664.