

# APPENDIX C

## FREEZE DRYER

### SPECIFICATIONS

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

#### Electrical Specifications

Catalog #	Product Description	Nominal Voltage	Nominal Amperage	Frequency	Phase
7753000	6 Liter Freeze Dryer	115V	10.0 Amps	60 Hz	1
7753001	6 Liter Freeze Dryer	220/240V	5.5 Amps	50 Hz	1
7753003	6 Liter Freeze Dryer	115V	10.0 Amps	60 Hz	1
7753010	6 Liter Freeze Dryer	115V	11.0 Amps	60 Hz	1
7753011	6 Liter Freeze Dryer	220/240V	4.5 Amps	50 Hz	1
7753013	6 Liter Freeze Dryer	115V	11.0 Amps	60 Hz	1
7753500	6 Liter Freeze Dryer	115V	13.0 Amps	60 Hz	1
7753501	6 Liter Freeze Dryer	220/240V	6.5 Amps	50 Hz	1
7753503	6 Liter Freeze Dryer	115V	13.0 Amps	60 Hz	1
7753510	6 Liter Freeze Dryer	115V	13.0 Amps	60 Hz	1
7753511	6 Liter Freeze Dryer	220/240V	7.5 Amps	50 Hz	1
7753513	6 Liter Freeze Dryer	115V	13.0 Amps	60 Hz	1
7754000	12 Liter Freeze Dryer	208/230V	7.5 Amps	60 Hz	1
7754001	12 Liter Freeze Dryer	220/240V	6.5 Amps	50 Hz	1
7754003	12 Liter Freeze Dryer	208/230V	7.5 Amps	60 Hz	1
7754010	12 Liter Freeze Dryer	208/230V	7.5 Amps	60 Hz	1
7754011	12 Liter Freeze Dryer	220/240V	7.5 Amps	50 Hz	1
7754013	12 Liter Freeze Dryer	208/230V	7.5 Amps	60 Hz	1
7754500	12 Liter Freeze Dryer	208/230V	10.5 Amps	60 Hz	1
7754501	12 Liter Freeze Dryer	220/240V	10.5 Amps	50 Hz	1
7754503	12 Liter Freeze Dryer	208/230V	10.5 Amps	60 Hz	1
7754510	12 Liter Freeze Dryer	208/230V	10.5 Amps	60 Hz	1
7754511	12 Liter Freeze Dryer	220/240V	10.5 Amps	50 Hz	1
7754513	12 Liter Freeze Dryer	208/230V	10.5 Amps	60 Hz	1
7755000	18 Liter Freeze Dryer	208/230V	7.5 Amps	60 Hz	1
7755001	18 Liter Freeze Dryer	220/240V	7.5 Amps	50 Hz	1
7755003	18 Liter Freeze Dryer	208/230V	7.5 Amps	60 Hz	1
7755010	18 Liter Freeze Dryer	208/230V	7.5 Amps	60 Hz	1
7755011	18 Liter Freeze Dryer	220/240V	7.5 Amps	50 Hz	1
7755013	18 Liter Freeze Dryer	208/230V	7.5 Amps	60 Hz	1
7755500	18 Liter Freeze Dryer	208/230V	9.5 Amps	60 Hz	1
7755501	18 Liter Freeze Dryer	220/240V	9.5 Amps	50 Hz	1
7755503	18 Liter Freeze Dryer	208/230V	9.5 Amps	60 Hz	1
7755510	18 Liter Freeze Dryer	208/230V	9.5 Amps	60 Hz	1
7755511	18 Liter Freeze Dryer	220/240V	9.5 Amps	50 Hz	1
7755513	18 Liter Freeze Dryer	208/230V	9.5 Amps	60 Hz	1

### **Environmental Conditions**

- Indoor use only.
- Maximum altitude: 6562 feet (2000 meters).
- 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.