

TSX Series High-Performance Manual Defrost -20°C Freezers



Biologics



Diagnostics kits and reagents



Enzymes



Industrial testing



Molecular biology



Our manual defrost, high-performance freezers are designed for applications in which even slight intermittent coil warming during auto defrost cannot be tolerated.

- Cold wall convection cooling with temperature uniformity
- Enzyme freezers feature enzyme bins
- GMP Clean Room Class A / ISO 6 (ISO EN 14644-1) compatible with appropriate pre-install preparation
- Four 2" casters for easy mobility; the front two are lockable
- Self-closing door with 90° stop to assist with inventory loads
- See pages 14–21 for options and accessories



Thermo Scientific™
TSX 659 liter
freezer

TSX Series high-performance manual defrost -20°C freezers

Model no.	Temp. range (setpoint)	Capacity cu. ft. (liters)	Electrical (plug)	Doors	Shelves (bins)	Defrost	Certification	Interior dimensions D x W x H in. (cm)	Exterior dimensions D x W x H in. (cm)	Shipping weight lbs. (kg)
TSX2320FY			115V, 60Hz (NEMA 5-15)							459 (208)
TSX2320FZ	-25°C to -15°C (-20°C)	23.3 (659)	208-230V, 50/60Hz (NEMA 6-15)	1 solid	4 (0)	Manual	CE, cUL	28.5 x 24.0 x 58.0 (72.3 x 61.0 x 147.3)	38.9 x 28.0 x 78.5 (99.0 x 71.1 x 199.4)	438 (199)
TSX2320FV			208-230V, 50/60Hz (CEE 7/7)							438 (199)
TSX3020FY			115V, 60Hz (NEMA 5-15)							483 (219)
TSX3020FZ	-25°C to -15°C (-20°C)	29.2 (827)	208-230V, 60Hz (NEMA 6-15)	1 solid	4 (0)	Manual	CE, cUL	28.5 x 30.0 x 58.0 (72.3 x 76.2 x 147.3)	38.9 x 34.0 x 78.5 (99.0 x 86.4 x 199.4)	483 (219)
TSX3020FV			208-230V, 50/60Hz (CEE 7/7)							483 (219)

TSX Series high-performance manual defrost -20°C enzyme freezers

TSX2320EY			115V, 60Hz (NEMA 5-15)							514 (233)
TSX2320EZ	-25°C to -15°C (-20°C)	23.3 (659)	208-230V, 50/60Hz (NEMA 6-15)	1 solid	9 (45)	Manual	CE, cUL	28.5 x 24.0 x 58.0 (72.3 x 61.0 x 147.3)	38.9 x 28.0 x 78.5 (99.0 x 71.1 x 199.4)	493 (224)
TSX2320EV			208-230V, 50/60Hz (CEE 7/7)							493 (224)
TSX3020EY			115V, 60Hz (NEMA 5-15)							552 (251)
TSX3020EZ	-25°C to -15°C (-20°C)	29.2 (827)	208-230V, 60Hz (NEMA 6-15)	1 solid	9 (54)	Manual	CE, cULL	28.5 x 30.0 x 58 (72.3 x 76.2 x 147.3)	38.9 x 34.0 x 78.5 (99.0 x 86.4 x 199.4)	552 (251)
TSX3020EV			208-230V, 50/60Hz (CEE 7/7)							552 (251)