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















Thermo Scientific™ high-performance manual defrost freezers are designed to prevent slight and intermittent temperature variations that occur due to coil warming during an automatic defrost cycle. Our enzyme freezers also come with enzyme bins.

TSX Series high-performance manual defrost freezers feature:

- Cold-wall convection cooling and temperature uniformity
- Compatibility with GMP Clean Room Class A and ISO 6 (ISO EN 14644-1) standards with appropriate pre-installation
- Four 2" casters for easy movement and lockable front casters
- Self-closing doors with 90° stoppage to assist with inventory loads
- See pages 15–21 for options and accessories



Thermo Scientific™ TSX 23 cu. ft. freezer

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

Cat. No.	Temp. range (setpoint)	Capacity cu. ft. (liters)	Electrical (plug)	Doors	Basket Drawers	Defrost	Certification	Interior dimensions D x W x H in. (cm)	Exterior dimensions D x W x H in. (cm)	Shipping weight lbs. (kg)
TSX2320FA	−25°C to −15°C	23.3 (659)	115V, 60Hz (NEMA 5-15)	· 1 solid	4 (0)	manual	UL, 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)	459 (208)
TSX2320FD	(-20°C)		208-230V, 60Hz (NEMA 6-15)				UL, cUL			438 (199)
TSX3020FA	−25°C to −15°C	29.2 (827)	115V, 60Hz (NEMA 5-15)	- 1 solid	4 (0)	manual	UL, 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)
TSX3020FD	(-20°C)	25.2 (021)	208-230V, 60Hz (NEMA 6-15)				UL, cUL			483 (219)

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

TSX2320EA	−25°C to −15°C	23.3 (659)	115V, 60Hz (NEMA 5-15)	- 1 solid	9 (45)	manual	UL, 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)	514 (233)
TSX2320ED	(-20°C)		208-230V, 60Hz (NEMA 6-15)				UL, cUL			493 (224)
TSX3020EA	-25°C to -15°C (-20°C)	29.2 (827)	115V, 60Hz (NEMA 5-15)	- 1 solid	9 (45)	manual	UL, cUL	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)
TSX3020ED			208-230V, 60Hz (NEMA 6-15)				UL, cUL			552 (251)