

## Freeze Dry



**Band:** Thermo

**Model:** Supermodulyo-230

**Custodian:** Sirapope Wongniam

**Location:** K639 Room, 6<sup>th</sup> Floor, Chaloeprakiet Building, Phyathai Campus

### Description and Specification:

Maximum Condenser Chamber capacity	20 Liters
Operating Temperature	~-50 °C
Temperature Display Range	+100 °C to -100 °C
Pressure Display Range	10 $\mu$ bar to 5.0 mbar

Pump Capacity	285 l/min @ 60 Hz
Pump Maximum Vacuum	1.5 mtorr (1.95 x 10 <sup>-3</sup> mbar)
Pump Oil Capacity	1 Liter
Dimensions (H X W X D)	35.5 x 25.6 x 27.6 (in), 900 x 650 x 700 (mm)
Refrigeration Compressor Type	3/4 hp hermetic unit
Maximum Ice Capacity	39.6 lbs, (18 kg)
Ice Removal Capacity (in 12 hours)	13.2 lbs, (6 kg)
Ice Removal Capacity (in 24 hours)	23.1 lbs, (10.5 kg)
SuperModulyo230	230 VAC/50 Hz, 10.0 A
Weight	396 lbs (180 kg)

#### Accessories:

Glassware	Wide-mouth flasks (300, 500, and 900 ml)
Flask Drying	12-port drum manifold
Tray Drying	Tray Cell (acrylic cylinder, acrylic lid, rack, 6 product trays)
	Drying Tray Kit (rack and 6 product trays only)
	Acrylic cylinder, (350 mm diameter)
Vial Drying	Stoppering shelf unit (Vial Cell)
	Bottle retaining tray for Vial Cell