

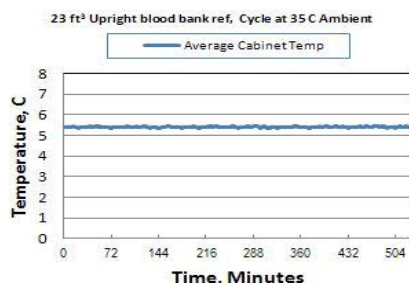
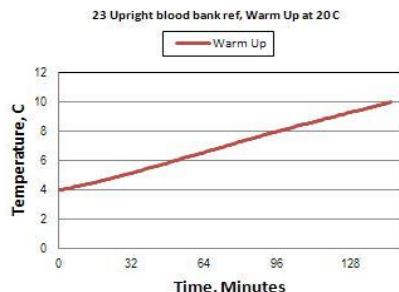


Technical Data Sheet Blood Bank Upright Refrigerator

Revision-0

Thermo Fisher Scientific, Asheville, North Carolina

Specifications	Model Number
	2304-V Blood Bank Refrigerator
	Application, Rating and Electrical Data
Application	Blood Bank Refrigerator (non flammable)
Storage Volume	650 Liters/23.0 Cubic Feet
Temperature Rating	2°C to 6°C @ 10°C to 35°C Ambient
Electrical Power	220-240V 50 Hz 1 Phase
Instrument Rated Current	6.0 FLA
Building Supply Rating	Breaker 15 Amps/230v±10 Volt while operating
Power Plug/Power Cord Length	European plug for V / IEC Cords, 10 Feet (3.048 Meters)
Agency Listings	CE, according to DIN 58371
Sound Pressure Level	60 dB(A)
Indoor/Outdoor Usage	Indoor Use Only
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation, 10° C - 35° C (50° F - 95° F)
Refrigeration Configuration	
Refrigeration System	Vapor compression system
Compressor / Number	1/3 HP Hermetic Compressor / 1
Condenser Type/Number	Enhanced Finned-Tube and Forced-Air Cooled / 1
Expansion Device	Capillary Tube
Evaporator Type	Forced-Air Evaporator
Defrost Method	Microprocessor controlled off cycle every 1hr, duration 15minutes (Defrost is User Programmable)
Refrigerant Charge/Flammability	Environmentally Safe R134a
Controller/Electrical System Configuration and Features	
Controller Level	Eye Level
Power Switch	Keyed Off-On - Alarm
Controller Type	Microprocessor-Based InLogic Control
Setpoint Security / Programmable	Yes / Yes
Compressor Safe Guard	High Pressure Cutout Switch/High Temp Cutout Switch/Current protection
Control Sensor	Stainless Steel Shielded RTD weighted with 250ml ethylene glycol solution
Remote Alarm Terminals	Yes
Power Failure Alarm	Yes
Standard Electronic chart Recorder	Yes
Dimensions and Construction	
Interior Dimensions (H x D x W)	147.3 H X 72.3 F-B X 61.0 W cm (58.0 H X 28.5 F-B X 24.0 W in.)
Exterior Dimensions (H x D x W)	199.7 H X 92.6 F-B X 71.1 W cm (78.6 H X 36.4 F-B X 28.0 W in.)
Insulation	5.08 cm (2.0") High Density HFC-blown Polyurethane Foam in cabinet
Door Perimeter heater	Yes
Shelves / Capacity	7 / 360
All-Direction Casters	Yes
Ship Weight	Approximately 193 kg / 425 lbs.
1" Dia access port	Yes
Typical Performance Characteristics	



Test Unit Series or MSO Number:	18824-PP-B
-Avg. Cabinet temp at Cycle at 35°C amb (C):	5.4
-Load	Empty
-1min Door Open Ref body temp peak at 35°C ambient (C)	5.4
-Ref body weighting	250ml glycol
-Cycle (on/off) rate (minutes):	9 / 3
-Duty Cycle (%):	71.8%
-Avg. energy consumption (kW-hr/day):	9.9
-Avg. heat rejection rate (Btu/hr):	1415
-Typical temp range (C):	2 - 6C
-Warmup Time (4 to 10 C) (minutes):	146
-Sound Power Level (dBA):	60

- Performance is nominal and individual units may vary.
- Freezer performance will differ due to product amount, product size and operating conditions.
- Continuous product enhancements may, without notice, result in amendments or omissions to this specification. Thermo Scientific cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.