



## Technical Data Sheet Blood Bank Upright Refrigerator

Revision-1

Thermo Fisher Scientific, Asheville, North Carolina

	<b>Model Number</b>	
	FRBB3004V	
<b>Specifications</b>	<b>Application, Rating and Electrical Data</b>	
Application	Blood Bank Refrigerator (non flammable)	
Storage Volume	813 Liters/28.7 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)	
<b>Refrigeration Configuration</b>		
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	
<b>Controller/Electrical System Configuration and Features</b>		
Controller Level	Eye Level	
Power Switch	Keyed Off-On - Alarm	
Controller Type	Microprocessor-Based IntrLogic 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	
<b>Dimensions and Construction</b>		
Interior Dimensions (H x D x W)	147.3 H X 72.3 F-B X 76.2 W cm (58.0 H X 28.5 F-B X 30.0 W in.)	
Exterior Dimensions (H x D x W)	199.7 H X 92.6 F-B X 86.4 W cm (78.6 H X 36.4 F-B X 34.0 W in.)	
Insulation	5.08 cm (2.0") High Density HFC-blown Polyurethane Foam in cabinet	
Door Perimeter heater	Yes	
Shelves / Capacity	6 drawers / 426 (450mL bag)	
All-Direction Casters	Yes	
Ship Weight	Approximately 227 kg / 500 lbs.	
1" Dia access port	Yes	
<b>Typical Performance Characteristics</b>		
<p style="font-size: small;">30 ft³ Upright blood bank ref, Warm Up at 20°C</p>	<p style="font-size: small;">30 ft³ Upright blood bank ref, Cycle at 35°C Ambient</p>	<p style="font-size: small;">Test Unit Series or MSO Number: 18824-PP-C</p> <p style="font-size: small;">-Avg. Cabinet temp at Cycle at 35°C amb (C): 5.0</p> <p style="font-size: small;">-Load: Empty</p> <p style="font-size: small;">-1min Door Open Ref body temp peak at 35°C ambient (C): 5.8</p> <p style="font-size: small;">-Ref body weighting: 250ml glycol</p> <p style="font-size: small;">-Cycle (on/off) rate (minutes): 12 / 4</p> <p style="font-size: small;">-Duty Cycle (%): 74.9%</p> <p style="font-size: small;">-Avg. energy consumption (kW-hr/day): 10.4</p> <p style="font-size: small;">-Avg. heat rejection rate (Btu/hr): 1478</p> <p style="font-size: small;">-Typical temp range (C): 2 - 6C</p> <p style="font-size: small;">-Warmup Time (4 to 10 C) (minutes): 145</p> <p style="font-size: small;">-Sound Power Level (dBA): 60</p>
<p>1) Performance is nominal and individual units may vary.</p> <p>2) Freezer performance will differ due to product amount, product size and operating conditions.</p> <p>3) 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.</p>		

© 2012 Thermo Scientific Inc. All trademarks are the property of Thermo Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.