

Thermo Scientific Revco Blood Bank Refrigerators

Featuring IntrLogic
Microprocessor
Control

Our blood bank refrigerators are designed to meet strict requirements established by the AABB, ANRC and FDA for storage of whole blood and blood components. The complete selection of +4°C refrigerators feature simplified push-button alarm test functions and reliable, field-proven refrigeration systems.



Upright blood bank refrigerators feature roll-out drawers and temperature recorders as standard. Model shown REB-5004.



Our REB series refrigerators feature the IntrLogic microprocessor control system, positive airflow systems, industrial quality cabinet construction and extra-strength refrigeration compressors selected for industrial, clinical and scientific use.

IntrLogic Microprocessor Control

Our REB blood bank refrigerators feature enhanced digital electronic technology designed to simplify operation and deliver greater accuracy (see pages 4 and 5).

- Adjustable temperature control, range +1°C to +8°C, factory pre-set to +4°C
- Icon-based controls and displays include graphic references for universal operation
- Setpoint security with key-operated triple-position master switch controls power to all systems for added safety
- Audible/visual warnings for over-temperature, undertemperature and power failure, with visual status reports on critical functions
- Alarm setpoints pre-set to warn of temperature deviation at +5.5°C overtemperature and +1.5°C undertemperature
- Graphic thermometer confirms

proper operation at-a-glance, shows normal, high or low temperature condition; steady green for normal, flashing top bar for overtemperature, flashing bulb for undertemperature

- Advanced defrost sensor manages the defrost cycle, minimizing trace amounts of frost build-up to maintain refrigeration coil efficiency
- Enlarged digital display, resolution to within 0.1°C, improves visibility
- Alarm silence, ringback and automatic reset functions
- Push button alarm test verifies sensor continuity
- Battery backup assures control panel function during power failure
- Extra-long alarm probe lead allows manual testing and verification
- Remote alarm contacts are included on all models



REB-404 undercounter blood bank refrigerator shown with optional finished countertop

Blood Bank Refrigerators

Temperature Range: +1°C to +8°C, factory preset to +4°C (auto defrost)

Model No.	Cu.Ft./L (Blood Bag Capacity)**	Voltage (Hz)	Amps/ Breaker (Plug)	Cabinet	Door	Drawers	Int. Dimensions* H x D x W inches (mm)	Ext. Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
REB-404A REB-404V	4.9/133 (48)	115 (60) 230 (50)	8.0/15 (P1) 6.0/15 (P7)	undercounter	single, solid	2	20.0 x 20.0 x 20.0 (500 x 500 x 500)	33.4 x 26.0 x 24.0 (850 x 660 x 610)	212 (96)
REB-1204A REB-1204V	11.5/326 (120)	115 (60) 230 (50)	9.4/15 (P1) 6.0/15 (P7)	space saver	single, glass	5	52.0 x 21.0 x 20.0 (1320 x 530 x 500)	71.9 x 28.8 x 24.0 (1830 x 740 x 610)	320 (145)
REB-2304A REB-2304D REB-2304V	23.3/659 (288)	115 (60) 208/230 (60) 230 (50)	9.4/15 (P1) 6.0/15 (P4) 6.0/15 (P7)	upright	single, glass	6	58.0 x 29.0 x 24.0 (1470 x 730 x 610)	77.5 x 35.5 x 28.0 (1970 x 910 x 720)	470 (213)
REB-3004A REB-3004D REB-3004V	29.2/826 (360)	115 (60) 208/230 (60) 230 (50)	9.4/15 (P1) 6.0/15 (P4) 6.0/15 (P7)	upright	single, glass	6	58.0 x 29.0 x 30.0 (1470 x 730 x 760)	77.5 x 35.5 x 34.0 (1970 x 910 x 870)	505 (227)
REB-5004A REB-5004D REB-5004V	51.1/1447 (576)	115 (60) 208/230 (60) 230 (50)	15.0/20 (P2) 8.5/15 (P4) 8.5/15 (P7)	upright	double, glass	12	58.0 x 29.0 x 52.0 (1470 x 730 x 1320)	77.5 x 35.5 x 56.5 (1970 x 910 x 1440)	790 (359)

* Published interior volumes are nominal; useable cu. ft. (L) capacities may be offset by shelves, drawers, blower coils, or cabinet protrusions. For specific cabinet dimensions and allowances, or for verification of clearance tolerances, contact our sales representative. Product performance may be affected by ambient temperature conditions, humidity conditions, sample loading preferences, and frequency of door openings. Contact our sales representative for specific inquiries regarding your application.

** Nominal capacity based on 450 mL whole blood bags.

Cabinet Construction and Inventory System

- Full-extension adjustable stainless steel drawers
- Dual-pane glass viewing door(s), insulated to prevent condensation (optional on REB-404)
- High-density CFC-free urethane foam insulation protects cabinet from ambient temperature fluctuations and minimizes operating costs
- Positive, forced-air circulation to maintain temperature uniformity at all drawer levels
- Directional air flow assures quick recovery after door openings
- Interior cabinet lights with door activated on/off switch, plus independent switch on control panel (except on 4.9 cu.ft. (133 L) models)
- Self-closing doors close against closed-cell peripheral gasket
- Door locking provision on all models
- 1" (25 mm) access port standard on REB-404

- Adjustable leveling feet standard; optional casters are available
- All models feature a smooth, scratch resistant painted interior and exterior surface for easy cleaning

Temperature Recorders

- Built-in 6" (152 mm), 7-day circular chart recorder standard (optional free-standing recorder on REB-404)
- Provides permanent record of storage conditions

Refrigeration System

- Heavy duty, industrial-grade, hermetically sealed compressors
- Automatic defrost for optimum cooling capacity
- Automatic condensate removal; no drain lines required

Optional Accessories

- Voltage safeguard, free-standing
- Free-standing temperature recorder for REB-404

- Access port, 2" (50 mm) diameter, with cover [standard 1" (25 mm) port for REB-404]
- Stainless steel interior and exterior surfaces
- 2" (50 mm) casters
- Additional drawers, stainless steel drawer dividers
- Heated glass doors and door swing variations available on most models
- Finished countertop for REB-404

Slimline REB-1204 blood bank refrigerator.

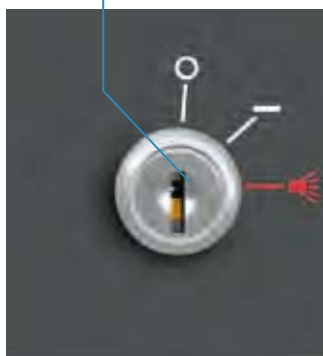


Thermo Scientific IntrLogic Controller Simplifies Operation, Improves Reliability

Intuitive
Graphics and
Microprocessor
Technology

Setpoint Security

Key-operated triple position switch for main power and alarm; locks in temperature and alarm setpoints to minimize setpoint error and prevent tampering



Instrument-Grade Components

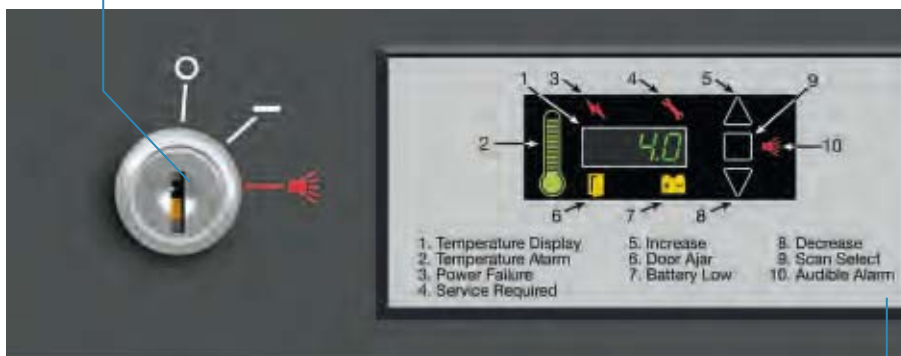
Electronic components and sub-systems are selected for performance and reliability under demanding laboratory conditions

Service Parameters

Touchpad sequence allows override access to control function defaults for troubleshooting functions

Modular Control Design

Self-contained control housing integrated into main control panel for efficient maintenance, as required



IntrLogic control panel is standard on Revco refrigerators and freezers (except BOD models).

Microprocessor-Based Control

IntrLogic microprocessor manages setpoint and actual conditions to provide the highest level of security for the stored product

Automatic Defrost System

Defrost sensor manages automatic defrost cycle (manual defrost models excluded)

IntrLogic Guide

Offers information at-a-glance for all control and display functions

Power Down Mode

During power failure digital display dims to conserve backup battery

Thermo Scientific Revco lab refrigerators and freezers include enhanced digital electronic technology designed to simplify operation and deliver greater accuracy.

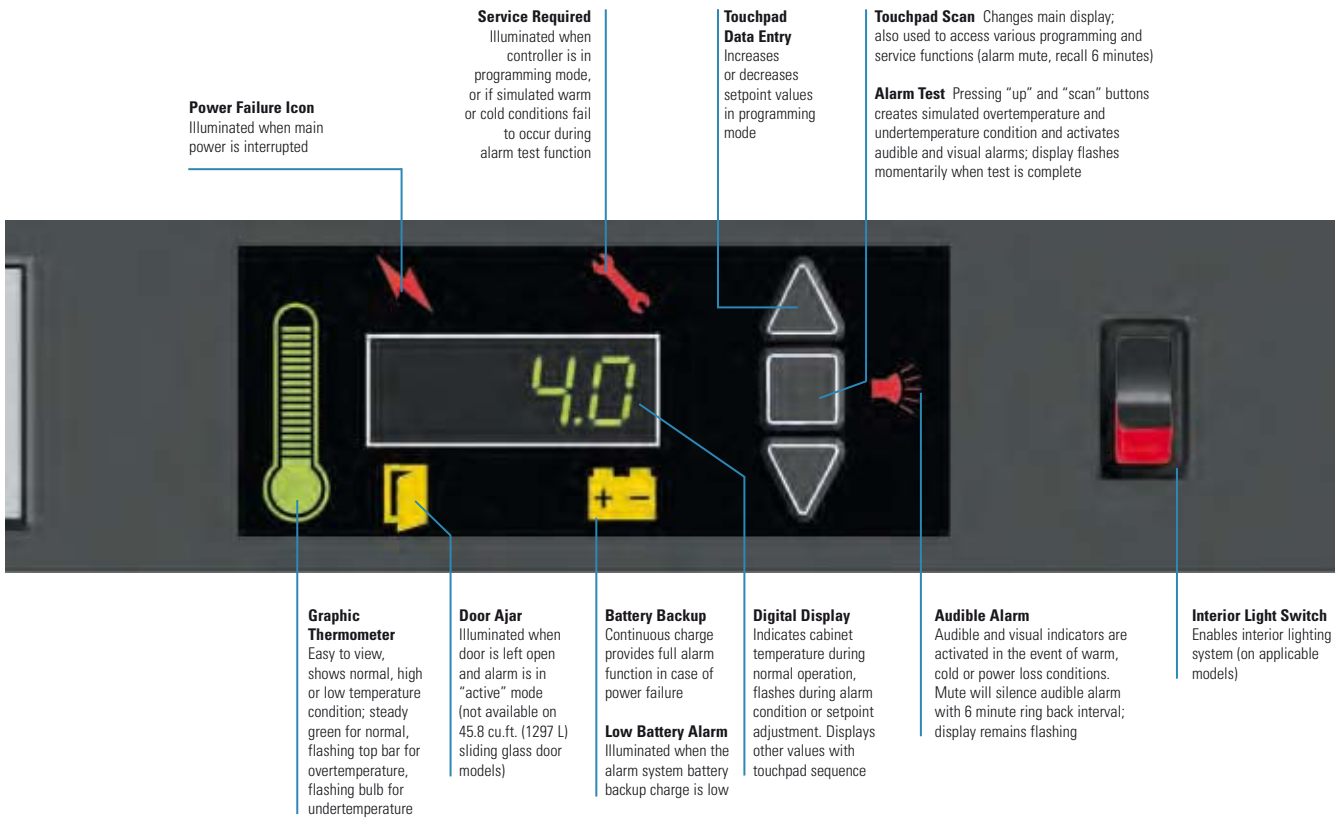
- Icon-based controls and displays include graphic references for universal operation
- Setpoint security with key-operated triple-position master switch controls power to all systems for added safety
- A graphic thermometer confirms proper operation at-a-glance, shows normal, high or low temperature condition; steady green for normal, flashing top bar for overtemperature, flashing bulb for undertemperature
- Auto defrost models feature an advanced defrost sensor which manages the defrost cycle, minimizing trace amounts of frost build-up to maintain refrigeration coil efficiency

IntrLogic Control Alarm Sequence

Event	Audible Alarm	Visual Alarm	Self Corrected Event	Remote Alarm Contacts Activated	
Overtemperature	continuous*			slow flash, icon only	yes
Undertemperature	continuous*			slow flash, icon only	yes
Power Loss	continuous*			slow flash, icon only	yes
Door Ajar	delay				no
Low Battery	no				no
Service Required	no				no

Audible and visual warnings for door ajar, low alarm battery, system maintenance and power failure provide immediate status of critical functions. A push-button alarm test verifies sensor continuity, while the battery backup assures system readiness. The enlarged digital display improves visibility, taking the guesswork out of setpoint and performance management.

*Mute will silence audible alarm with 6-minute ring back interval; display remains flashing. Moving triple position key switch to middle position disables alarm and audible and visual warnings.



Laboratory Quality Cabinet Construction

Our refrigerators and freezers are available in 10 sizes, from compact 4.9 cu.ft. (133 L) undercounter models to spacious, triple-door 78.8 cu.ft. (2231 L) cabinets. All models are built to meet UL, CUL, CE and TUV standards for safety.

- Hermetically sealed refrigeration compressor, air-cooled condenser and automatic condensate removal for auto defrost models
- An efficient, high-capacity air circulation system optimizes top-to-bottom temperature uniformity, accelerates temperature recovery following door openings, and accommodates insertion of warm product
- CFC-free refrigerants, insulation and product packaging
- Depending on model selection, standard or optional shelves, drawers, temperature recorders, cabinet casters and other accessories are available to meet most laboratory needs

Laboratory Refrigerator and Freezer Selection Guide

Automatic Defrost Models	Cu.Ft. (L)	4.9 (133)	6.1 (173)	11.5 (326)	20 (566)	23.3 (659)	29.2 (826)	45.8 (1297)	51.1 (1447)	78.8 (2231)
Chromatography Refrigerators						IntrLogic	IntrLogic	IntrLogic	IntrLogic	IntrLogic
General Purpose Lab Refrigerators		IntrLogic		IntrLogic		IntrLogic	IntrLogic	IntrLogic	IntrLogic	IntrLogic
Blood Bank Refrigerators		IntrLogic		IntrLogic		IntrLogic	IntrLogic		IntrLogic	
Pharmacy Refrigerators				IntrLogic		IntrLogic	IntrLogic		IntrLogic	
General Purpose Lab Freezers, -30°C		IntrLogic		IntrLogic		IntrLogic	IntrLogic		IntrLogic	
Plasma Freezers, -30°C		IntrLogic		IntrLogic		IntrLogic	IntrLogic		IntrLogic	
Refrigerated Incubators, Programmable					micro					
Refrigerated Incubators, Non-Programmable			micro		micro					
Manual Defrost Models										
Enzyme Freezer, -20°C						IntrLogic				
General Purpose Freezer, -20°C						IntrLogic				

Remote alarm contacts are included on all models.