Dometic BR 750 G

Blood Bank / Blood Refrigerator
according DIN 58371 (Blood Refrigerators, Germany)
and according ÖNORM K 2030 (Blood Refrigerators, Austria)

Dometic Electronic I +4°C I 746 Liter

Storage capacity: 450 Blood Bags at 450 ml
550 Blood Bags at 350 ml

Meets the requirements for free-standing installation in
Clean rooms of GMP Class A / ISO 5 (ISO EN 14644 – 1)

Unique features of the Dometic Blood Bank Refrigerators:

- PT 1000 Control- & Displaysensor
- According DIN 58371 & ÖNORM K 2030
- Controlled fan cooling system for constant and even temperature
- A safety thermostat avoids the dropping of the stored product’s temperature below +2°C
- Interior lighting
- Glass door with triple insulating glazing
- RS 485 interface & DMN – Monitoring & visualisation software
Dometic Electronic

All relevant data of temperature alarm and power failure are stored in the alarm history, such as: date and time of start and end, minimum, maximum and average temperature.

Alarm function test: Simulation of a temperature rise or drop in order to test the alarm system functionality.

Door opening alarm: Alarm after a long door opening.

Test of the electronic through the self-diagnostic system.

Safety standards of the BR – Range

- Conform to DIN 58371 & ÖNORM K 2030
- Key operated power switch (Power ON/OFF) with 2 keys
- Safety door lock with 2 keys
- Digital temperature indicator (Display: 0,1 Digits)
- Controlled fan cooling system for constant temperature and even temperature across the entire refrigerating chamber.
  Automatic fan switch off when the front door opens.
- Safety thermostat avoids the dropping of the stored product’s temperature below +2°C
- Self contained alarm system with integrated battery (12 V – 7 Ah) takes over the alarm function and temperature value measurements in case of power failure for at least 48 hours
- Acoustic and visual alarm in case of temperature alarm and power
- Remote transmission alarm (via potential free contact) in case of temperature or power failure alarm (change over contact)
- Test of the electronic board through the self-diagnostic system
- DMN – Monitoring & visualisation software
- Door opening alarm
- RS 485 interface for the display of all operating and control functions (hardware and software settings) via the DMN Monitoring software on a peripheral device (computer), through the optional DCU
- LED – Interior lighting automatic switch on when the door opens and switch off when the door closes
- Interior made of stainless steel
- Smooth castors with stabilizers for optimum flexibility of movement
- Automatic closing of the front door, when the door opening angle is below 90°C
Temperatures & Sensors

Temperature set range:  preset ≠ not changeable, according DIN 58371
Alarm set range:  preset ≠ not changeable, according DIN 58371
Set temperature (Set point):  +4°C (preset at the factory)

Alarm settings:
Factory preset cold alarm limit  +2°C (Set point - 2°C)
Factory preset warm alarm limit  +6°C (Set point +2°C)

Tested at ambient temperatures up to +43°C!

The electronic temperature control at the set temperature and the temperature measures are made by autonomously working Sensors (according to DIN 58371).

1 Control sensor
Type:  PT 1000 2-Wire 1/3 DIN CL.B
Accuracy:  +/- 0,2°C (from -80°C to +180°C)

1 Display sensor
Type:  PT 1000 2-Wire 1/3 DIN CL.B
Accuracy:  +/- 0,2°C (from -80°C to +180°C)

In Reference body (simulates the temperature inertia of the stored product) with reference fluid (100 ml DOW corning 200-5CST).

When the automatic defrost switches on, it does not affect temperature curves.

Interior equipment

3 Stainless steel drawers with front cover, on telescopic runners with safety stop
Including 5 S-Racks without front cover

2 Wire shelves
Including 5 S-Racks with front cover

Storage capacity of Blood Bags (at 450 ml): 450
Storage capacity of Blood Bags (at 350 ml): 550
Technical Data

Gross volume: 746 liter
Net volume: 620 liter
Net weight: 262 Kg

Interior dimensions: 1352 x 730 x 760 mm (H x W x D)
External dimensions: 1990 x 910 x 985 mm (H x W x D)

Material interior body: Stainless steel (V2A – 1.4301)
Material outer casing: Galvanized sheet steel STO2Z-AZ150

Color: Outer casing white coated (similar to RAL 9010)
Color contrasts in blue (similar to RAL 5002)

Refrigerant type: R134a

Insulation:
- Casing: 90 mm PU / Polyurethane
- Door: 85 mm PU / Polyurethane, with triple insulating glazing

Climate class: SN / T
Ambient temperature range: +10°C to +43°C
Relative humidity: ≤ 75% at +32°C ambient temperature
Defrost: Natural

Noise level: 59 dB(A) measured at in 1m height and 1m distance

Compressor running time: 24% / 24h at +25°C ambient temperature and without load
Energy consumption: 2,00 kWh / 24h at +25°C ambient temperature and without load
Heat ejection: 58 kcal / h at +25°C ambient temperature and without load
Hold Over time (from +4°C to +10°C): 2.8 h at +25°C ambient temperature and without load

Voltage: 220 – 240 V, 50/60Hz (10A)
Power: 280 W
Safety class: I

Door hinge:
- Right side (standard)
- Left side (optional, please specify at order)