



Microprocessor controlled centrifuge "Macrofriger-BL" and "Macrofriger-BL-Blood"

CAPACITY FOR 4 BLOOD BAGS OF 500 ML.

CAPACITY FOR 4 BLOOD BAGS OF 500 ML. TO 800 ML.

COMMON FEATURES

Induction drive maintenance free motor.

Low noise level 50-60dBa.

Robust all metal construction:

-External case made from DUR-Al alloy.

-Internal bowl and top plate all stainless steel

-Internal steel safety chamber within the case.

Electronic circuits, microprocessor digital control of all parameters and functions: speed, acceleration, brake, RCF, temperature, timer, 10 program storage, automatic rotor recognition and alarm system.

All Rotors, buckets and adapters are identified with an inalterable engraved laser code.

Hermetically sealed compressor, mounted on anti-vibration mounts with re-circulating evaporator around the centrifuge chamber. (only applies to refrigerated centrifuges).

Note: these centrifuges also allow the possibility of adapting angular and swing-out rotors for all kind of capabilities, from 1,5/2,2 ml. vials to 500 ml. (Ask for information)



"Macrofriger-BL"

"Macrofriger-BL-Blood"

CONTROL PANEL INFORMATION: LCD display of 2 x 20 characters that permanently show the running conditions of the machine.

STATUS	Status.
STOP	Stop.
START	Starts the run.
STANDBY	Wait, standby.
STORED	Stores the last set of parameters.
CONFIG	Sets the program parameters.
PROGRAM	Select stored program.
RAMP	Centrifuge accelerating to set speed.
SET SPEED	Centrifuge is running at set speed.
BRAKE	Centrifuge is slowing down in deceleration phase.
ROTOR X PRG	The selected program does not match the installed rotor.
PROGRAM TIME	Informs that a time needs to be set to operate.

ALARM

Informs of a fault:

POWER FAIL	Power failure during the run.
ROTOR FAIL	Fault in reading the rotor identification.
DOOR OPEN	Lid open- not closed properly.
UNBALANCED	Out of balance, adjust distribution of tubes.
EEPROM FAIL	Set parameters failed to be recognised.
CONTROL FAIL	Speed detector indicator failure.
OVER TEMP	Over set temperature value.

PANEL DE MANDOS

1. R.c.f.
2. Acceleration ramp.
3. Brake ramp.
4. Speed.
5. Timer from 1' to 59' 59".
6. Temperature (Refrigeration model only).
7. Memory
8. Configuration.
9. Cursor.
10. Push button increase/decrease set or value.
11. Validation.
12. Open lid.
13. Program.
14. Stop.
15. Start.
16. LCD Display.



Refrigerated centrifuges for blood bags “Macrofriger-BL”

CONTROLLABLE TEMPERATURES FROM 0 TO 30 °C.
MAXIMUM CAPACITY OF 4 BLOOD BAGS OF 500 ML.

Part No.	Max. volume ml	Max. No. of bags	Height / Width / Depth (exterior) cm	Power W	Weight Kg
7001386	2000	4 x 500 ml	97 60 66	1230	156

Note: The rotor being used limits the actual temperature in the chamber due to the speed and ambient temperature. Internal temperature Indicated on the LCD display.

ACCESSORIES

Swing out rotor 4 place, treated steel.
R.p.m Máx.: 3200. R.c.f Máx.(xg): 2358



Part No: **7001450**

Open bucket
1 blood bag



Part No: **7001451**



Refrigerated high capacity centrifuge for blood bags “Macrofriger-BL-Blood”

CONTROLLABLE TEMPERATURES FROM 4 TO 40 °C.
ESPECIALLY FOR TRIPLE AND QUAD BLOOD BAGS FROM 500-800 ML. MAXIMUM CAPACITY 12 BAGS.

TECHNICAL SPECIFICATION

Maximum volume:	.9600 ml
Maximum bucket volume:	.1600 ml
Speed:	.from 300 to 4070 r.p.m.
Accuracy:	.± 5 r.p.m.
Resolution r.p.m.:	.10 r.p.m.
R.C.F.:	.from 29 to 5370
Imbalance:	.± 5 g
Accuracy:	.4 g
Temperature range:	.from 0 °C to 40 °C
Temperature stability:	.±4 °C
Resolution:	.1 °C
Temperature range:	.59 min. 59 sec.
Centrifuge radius:	.290 mm
Acceleration profile:	.5
Brake profile:	.9 linear 6 quadratic
Voltage:	.230/400 three phase.
Power:	.4500 VA

MODEL

Part No.	Max. Volume ml	Max. Capacity	Height / Width / Depth (exterior) cm	Power W	Weight Kg
7001390	9600	6 x 1600 ml	105 90 100	5500	420

ACCESSORIES

Swing out rotor 6 place, treated steel.
R.p.m Máx.: 4070. R.c.f Máx.: 5370



Part No **7001391**

Buckets and adapters with engraved identification.
Autoclavable.



Buckets with two compartments for blood bags of 500 to 800 ml. For triple and quad bags
Part No. **7001392**

Single bucket.
Capacity: 1 blood bag of 500 to 800 ml or 1 flask of 1 litre or with tube adapters.
Part No. **7001393**

