



High speed centrifuges with microprocessor control “Centronic BL-II” and “Centrifriger BL-II”

“in vitro” diagnostic
medical devices I V T



Versatile. Large range of rotors and adapters. Maintenance free induction motor drive.



Model “Centronic BL-II”

MODEL

Part No.	Max. Volume ml	Max. number of tubes	Height / Width / Depth (exterior) cm	Power W	Weight Kg
7001668	400	4 x 100 ml	34 41 54	440	22

Control panel features (see page 115).
External case of DUR-AL alloy with ABS plastic coated front AISI 304 stainless steel bowl.



Model “Centrifriger BL-II” refrigerated, temperature range 0 °C to 30 °C.

MODEL

Part No.	Max. Volume ml	Max. number of tubes	Height / Width / Depth (exterior) cm	Power W	Weight Kg
7001669	400	4 x 100 ml	34 41 71	960	39

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

Angle rotors with lid, made of anodised hardened aluminium with identification system. All rotors are autoclavable.



7001670

7001324

7001706



7001325



7001323



7001671



7001672



7001673



7001408

With calculator reader

Tube adapters for rotor Part No. 7001706

Part No.

7001707 for plastic tubes, 50 ml (29 Ø x 103 mm).

7001708 for glass tubes, 25 ml (24 Ø x 100 mm).

Part No.

7001709 for plastic tubes, 30 ml (25 Ø x 92 mm).

7001710 for glass tubes, 15 ml (16.5 Ø x 100 mm).

Part No. head	Rotor type	Max. volume	Tubes capacity	Ø x Length mm	CENTRONIC BL-II		CENTROFRIGER BL-II	
					Max. R.p.m	Max. R.c.f. (xg)	Max. R.p.m	Max. R.c.f. (xg)
7001670	Angle+lid	270 ml	18 x 15 ml	16.5 x 100	4200	2669	4200	2669
7001706	Angle+lid	400 ml	8 x 50 ml	34 x 100	6000	3920	6000	3920
7001325	Angle+lid	500 ml	6 x 50 ml	29 x 103	13500	18844	15300	24204
7001324	Angle+lid	180 ml	6 x 30 ml	25 x 92	13500	15890	15300	20410
7001323	Angle+lid	100 ml	10 x 10 ml	16 x 80	13500	18335	15300	23550
7001671	Angle+lid	40.5 ml	18x0.25/0.5 ml + 18x1.5/2.2 ml	-	13500	15992	15300	20541
7001672	Angle+lid	60 ml	40 x 0.25/0.5 ml	-	13500	13298	15000	20120
7001673	Angle+lid	45 ml	30 x 1.5/2.2 ml	-	13500	19048	15000	23716
7001408	Angle+lid	Microhaematocrit	24	1.4 x 75	12000	15935	12000	15935

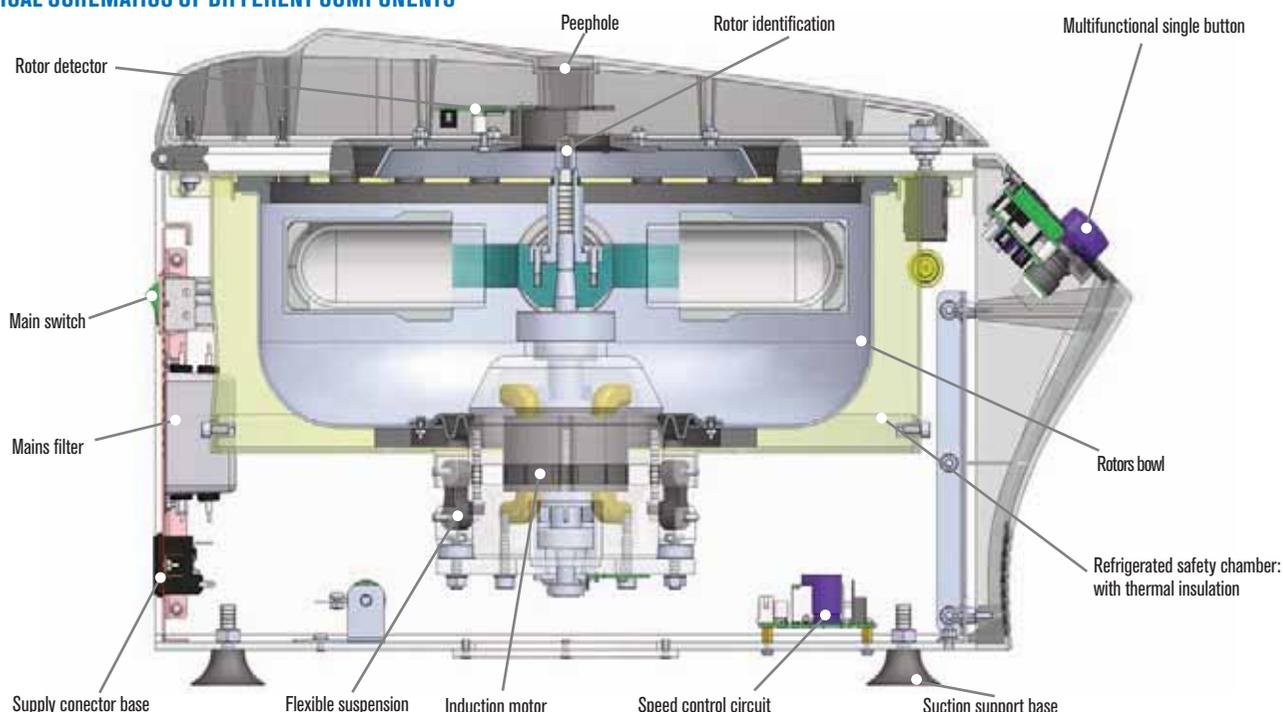
Note: All buckets and adapters come without tubes unless stated, see page 127 for tubes and accessories.



MICROPROCESSOR CONTROLLED CENTRIFUGES "Centronic BL-II" and "Centrofriger BL-II"



TECHNICAL SCHEMATICS OF DIFFERENT COMPONENTS



COMMON FEATURES

Induction drive maintenance free motor.

Low noise level 50-60 dBA.

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.



Rotor identification head, when the centrifuge lid is closed the rotor communicates all the data of the functions of it. This prevents, before use, any risk of failure of using the wrong rotor in a program or exceeding the rotors running parameters. The advantage of this system is that we can add additional rotors to the range without changing the centrifuge model.

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

Air circulation system, to limit any excessive rise in temperature within the centrifuge, all air circulated within the chamber is channelled out of the back and is not re-circulated, this means that the centrifuges internal temperature will remain low and constant.

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

MONO single button programming:

- | | | |
|-----------------------------|----------------------------|---------------------|
| - Speed | - RCF | - Acceleration ramp |
| - Deceleration ramp (brake) | - Time | - Temperature |
| - Configuration °C/°F | - Temperature calibration. | |

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.

CONTROL PANEL



- | | |
|--|----------------------------|
| 1. R.c.f. | 7. Memory. |
| 2. Acceleration ramp. | 8. Open lid. |
| 3. Brake ramp. | 9. Stop. |
| 4. Speed. | 10. Start. |
| 5. Timer from 1' to 59' 59". | 11. Single button control. |
| 6. Temperature (Refrigeration model only). | |

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.