REFRIGERATORS and FREEZERS

for LABORATORY



ARGO LAB

ARGO

FREDDO

GIORGIO·BORMAC s.r.l.

ARGO FREDDO



ARGO FREDDO is the latest project in the ArgoLab family.

Professional refrigerators and freezers for laboratory use, with electronically controlled digital display, temperature alarms, open door and manual and automatic defrosting (FR series).

Flexible and easy-to-use refrigerated instruments, **the internal parameters can be adjusted according to even the most restrictive requiraements**.

Highly efficient compressors utilize environmentally friendly refrigerants with low global warming potential (GWP), free of CFCs and HCFCs, in compliance with European environmental regulations, such as the **F-Gas Regulation (EU) 517/2014**.

The internal dynamic ventilation system ensures the best conditions for storing even the most sensitive materials, in accordance **with regulation EN 60068-3-5.**



100 litres + 200 litres

FEATURES

- RESOLUTION 0,1 °C
- DEFROST
- PLASTIFIED STEEL SHELVES
- MIN-MAX ALARM
- DOOR ALARM
- REMOTE ALARM CONTACT
- HOMOGENEITY EN 60068-3
- KEY LOCK
- LED LIGHTS
- VENTILATION (FR series)
- WHEELS (MODELS 260 L)
- REVERSIBLE DOOR
- ECO FRIENDLY GAS
- THROUGH-HOLE 10 mm

FRZ 300 Combined refrigerator-freezer

Reliable and versatile, designed for maximum control when storing sensitive materials.

300 litre capacity offers ample space and storage flexibility for different laboratory needs.

It is equipped with **a 10 mm through-hole in both chambers** for the insertion of external sensors.

refrigerators
FR
litres
110 | 260
temperature range
+2,0 — +8,0 °C

freezers
FZ
litres
110 | 260 | 300
temperature range
-25,0 — -10,0 °C

Combined refrigerator-freezer
FRZ
litres
300
temperature range
-25,0 — -10,0 °C
+2,0 — +8,0 °C



litres **300**

FZ 300 P **chest freezer.**

300-litre capacity, designed for the safe storage of sensitive samples.

Equipped with a digital display with **precision electronic control** and three levels of alarms: audible, visual and remote with potential-free contact for monitoring.

Includes **drain valve, safety lock, 10 mm through-hole and two** durable and easy-to-clean plastic-coated **steel drawers**.

The **swivel** and **lockable wheels** ensure practical handling even in confined spaces.



G MODELS - GLASS DOOR

G models are supplied with a **glass door**, very useful feature when it is necessary to keep **visual control of the samples inside**.

CONTROLLER

microprocessor and controller with **simple and intuitive interface**; tenth of degree resolution for accurate control using NTC-type probes. Units of measurement: °C or °F



TECHNICAL DATA SHEET



	FR 110	FR 110 G	FR 260	FR 260 G	FZ 110	FZ 260	FRZ 300	FRZ 300G	FZ 300-P
Usable volume [Litres]	110		260		110	260	300 (200 FR + 100 FZ)		285
Temperature range / Resolution	+2,0 ... +8,0 °C / 0,1 °C				-25,0 ... -10,0 °C / 0,1 °C		Fr: +2.0 ... +8.0 °C; FZ: -25.0 ... -10.0 °C		-25.0 ... -10.0 °C
Defrosting function	Automatic and manual				Manual		Manual (FZ) Automatic (FR)		Manual
* ***Temperature variation in space***	1,3 °C (at 5°C)	1,7 °C (at 5°C)	1,9 °C (at 5°C)	2,2 °C (at 5°C)	2,5 °C (at -20°C)	2,1 °C (at -20°C)	1,0 °C (at 5°C) 1,0 °C (at 20°C)	1,2 °C (at 5°C) 1,0 °C (at 20°C)	±1.0°C (at -20°C)
* ***Gradient***	1,3 °C (at 5°C)	1,7 °C (at 5°C)	1,9 °C (at 5°C)	2,6 °C (at 5°C)	2,5 °C (at -20°C)	2,1 °C (at -20°C)	1,0 °C (at 5°C) 1,8 °C (at 20°C)	1,3 °C (at 5°C) 1,8 °C (at 20°C)	±1.0°C (at -20°C)
** ***Recovery time***	12 min (at 5°C)	9 min (at 5°C)	18 min (at 5°C)	18 min (at 5°C)	22 min (at -20°C)	30 min (at -20°C)	19 min (FR) - 26 min (FZ)		30 min
Refrigeration	Dynamics (forced convection)				Statics (natural convection)		FR: Dynamics - FZ: Statics (forced convection) (natural convection)		Statics (natural convection)
Controller / display	microprocessor / digital								
Power supply	220 - 240 V								
Internal dimensions (L x W x H) mm	500 x 420 x 570		500 x 450 x 1290		500 x 420 x 570	500 x 450 x 1290	FR: 510 x 490 x 730 FZ: 450 x 460 x 440		1080 x 480 x 590
External dimensions (L x W x H) mm	600 x 560 x 805		600 x 560 x 1525		600 x 560 x 805	600 x 560 x 1525	600 × 610 ×1770		1280 x 770 x 890
Weight	50 Kg		75 Kg		50 Kg	75 Kg	75 Kg		69 Kg
Number of shelves (supplied / max.)	3 / 3		6 / 7		3 / 3	6 / 7	FR: 3/ 5 FZ: 2/ 3		2
Minimum distance between shelves	13 mm						13 mm		Not applicable
Maximum shelf load	15 Kg						15 Kg		15 Kg
Door	Blind	Glass	Blind	Glass	Blind		Blind	Blind + Glass	Blind
Light	LED								
Hole diameter for probe passage	10 mm								
Power	120 W		160 W		150 W	190 W	340 W		300 W
P/N	**41500012**	**41500022**	**41500032**	**41500042**	**41500212**	**41500232**	**41500102**	**41500112**	**41500302**

* In accordance with regulation EN 60068-3 ** In accordance with technical directive DIN 12880

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WARRANTY 3 YEARS

CE

GUARANTEED by: GIORGIO·BORMAC s.r.l.

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