

MOTHER MILK REFRIGERATOR / FREEZER



The new advanced solution
to safely and efficiently identify, collect,
store and distribute
human milk

AS *biomedical division produces:*

- *reach-in refrigerators (+4°C and -20°C)*
- *plasma shock freezer*
- *automatic ice cubers or flakers*
- *-30°C freezers*
- *-40°C and -85°C Platinum freezers*
- *CO2 incubators*
- *Chambers for pharmaceutical stability tests*
- *plant growth chambers (sun light)*
- *-152°C freezers (with compressors)*
- *special execution refrigerators*
- *explosion-proof refrigerators*
- *blood bank refrigerators*
- *Hemosafe® system for blood management*
- *mother milk refrigerators / freezers*
- *equipment and chambers for anatomical pathology*

ABOUT MOTHER'S MILK

Every baby need to have the best food source available. The mother's milk plays an important role in baby's development for the first years of life.

Mother milk is the ideal nourishment for a newborn baby because it is more easily digested and reduce the risk of stomach and intestinal complications. This is more important for any critically ill infant. Human milk also contains growth factors that can protect immature tissue, promote maturation (particularly in the gastrointestinal tract) and healing of tissue damaged by infection.

Some mothers are unable to produce their own milk (or do not produce enough). In the absence of an infant's own mother milk, milk from donors provides the optimal nutrition to save the lives of premature or sick babies. The MILK BANKS play a key role providing the right milk stored in sterile containers and in the refrigerators/freezers where the donor milk is collected, stored at +4°C or frozen at -20°C.

Sensitive to this argument, Angelantoni Industrie Biomedical Division, synonymous of advanced technology in the field of equipments, has created and manufactured a complete range of Mother Milk Refrigerators (0°C/15°C) and Mother Milk Freezer (-10°C/-20°C) to perfectly preserve and store the mother milk, thus matching the requests of the milk banks, Neonatology and Perinatal Medicine Departments.

The models have different capacities:

- 700 lt 12 drawers (768 80-ml bottles)
- 1500 lt 24 drawers (1,536 80-ml bottles)



STRUCTURE

Zinc plated steel self bearing body, pre-painted in grey or AISI 304 stainless steel structures(SS models).

AISI 304 stainless steel internal coating.

THERMAL INSULATION

Injected CFC-free foamed polyurethane ("sandwich technique")

Thickness: mm 75

SERVICE DOORS

Made with special anodized aluminum profiles with triple vacuum sealed glass and anti-condensing electric heaters to avoid frost formation.

Magnetic lock system with odourless rubber gaskets.

COOLING SYSTEM

Completely sealed and located in the upper part, equipped with very silent hermetic compressor and air cooled condenser. Copper tube evaporator with aluminium fins and helical electric fans. If requested, a water condenser unit is provided. Internal ventilation assures the best temperature uniformity.

INNER LIGHT

Waterproof glow lamp or fluorescent tubes with ON/OFF switch located on the control panel. Automatic switching ON at door opening.

STANDARD SPECIFICATIONS

- Internal ventilation
- Front adjustable feet
- Battery operated weekly temperature chart recorder, with aluminum frame door, control window and key lock. Temperature range: from +30°C to -30°C.
- 23 mm porthole .

BIOGUARD® for access control

BIOGUARD® is a patented door opening system based on a transponder key.

Door opening occurs with a personal magnetic TAG that recognize the card code and allow the opening. In this way is possible to trace who opened the door, when the door was open and how long the door was kept open.



- 12 Drawers for MMF/MMR 700 models - 24 drawers for MMF/MMR 1500 models.
- Setting and control system E2003, a microprocessor controller with digital display. This system has two independent sections, the first to manage and to control the temperature and the defrosting system, the second to manage and control the alarm system.
- Over/under temperature alarm system adjustable with automatic recharge accumulator.
- Arrangement for the repetition of the remote alarm.
- Electric defrosting system with electronic automatic or manual command.
- Rollers for easy moving.
- Water condensing collecting tank, with special electric heaters for water evaporation in monolithic models.



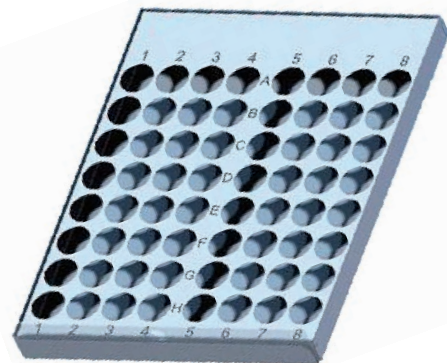
DRAWERS

Made in AHSI 304 stainless steel.

Drawers are equipped with AHSI 304 stainless steel sliding guides on plastic wheels.

The front screens are in transparent PXP for an immediate view of the content and to avoid warm air coming inside while the door is open.

Special plastic label holders are installed on the front screen of each drawer, to show the drawer content.



Each drawer can contains 64 bottles of 80 ml and has numbers and letters combination (row and columns) for an easy organisation and location of the milk bottles.



EUROPEAN CONFIGURATION

	MODEL							
	MMR				MMF			
	700	700 SS	1500	1500 SS	700	700 SS	1500	1500 SS
Commercial Code	12964	13040	12965	13041	12966	13042	12967	13043
Capacity Lt.	700		1500		700		1500	
Frame	Fully metallic in heavy gauge phosphate coated	All structure in Stainless steel	Fully metallic in heavy gauge phosphate coated	All structure in Stainless steel	Fully metallic in heavy gauge phosphate coated	All structure in Stainless steel	Fully metallic in heavy gauge phosphate coated	All structure in Stainless steel
Temperature Range	From 0° to 15°C				From -10° to -20°C			
Exterior Dimension (WxDxH)	740x815x1998		1480x815x1998		740x815x1998		1480x815x1998	
Drawers	12		24		12		24	
Supply Voltage	230V (+6/-10%) / 50 (60) Hz/1 + T							
Gas Refrigerant	R 134 a				R 404 A			
Internal Chamber	Stainless steel with round corners							
Electronic Microprocessor	PT 100							
RS Interface	Optional							

*Appearance and specifications are subject to change without notice

**All models are CE certified

US/ CANADA CONFIGURATION

	MODEL							
	MMR				MMF			
	700	700 SS	1500	1500 SS	700	700 SS	1500	1500 SS
Commercial Code	72964	73040	72965	73041	72966	73042	72967	73043
Supply Voltage	110V +6% -10% / 1 / 60 Hz.							

*Appearance and specifications are subject to change without notice

**All models are UL/CSA certified

Angelantoni

ANGELANTONI GROUP

Since 1932 the name Angelantoni has always been synonymous of advanced cold technology in both research and industry. In 1952 the production of environmental chambers for temperature and humidity started, rapidly followed by the first temperature - vacuum chamber in 1953. At the Milan International Fair in 1961 Angelantoni exhibited the first refrigeration unit in Europe that could cool below -100°C (-104°C) using traditional compressor techniques without any cryogenic fluids. In 1988 the design and production of the first Space Simulator (vacuum down to 10 exp. -7 mbar); in 2004 the first robotic freezer at -80°C.

The Angelantoni group has today approximately 650 employees working in 7 companies:

ANGELANTONI Industrie SpA, located in Massa Martana (Perugia), designs and manufactures: -environmental test chambers, stress screening systems and space simulators (ACS environmental test division) -equipment in the field of cold technology applied to laboratories of biological research, universities, hospitals (AS biomedical division) -cooling plants for industrial processes and cold stores for perishables preservation (AG industrial cold plant division)
ANGELANTONI Industrie SpA controls the following companies:

AHSI SpA - Milan (Italy) - Sales and service of biomedical and laboratory equipment in Italy

ENTERPRISE srl - Rieti (Italy) - Design, assembly and test of electronic boards and devices

ANGELANTONI MECHANICAL EQUIPMENT Company (Beijing) Ltd. - Beijing (China)

Production and sales in Asia of equipment and plants of the whole Group

TIRA GmbH - Schalkau (Germany) - Design and production of electrodynamic shakers and material testing equipment

BIA Sas - Conflans Sainte Honorine (France) - Design and production of automotive and aerospace testing equipment

KENOSISTEC srl - Production of equipment for surface coating with thin film deposition technology

Angelantoni is also present, through Representatives and Service Divisions, in more than 40 countries all over the world. These breakthroughs have made the Angelantoni Group the most diversified and advanced European corporation in the fields of cold technology, environmental chambers and test systems.

The Angelantoni technologies are in the low and cryogenic temperatures (down to - 152° C using mechanical compressors), in environmental simulation including High Vacuum for Space Applications and in accelerated stress test systems. Thousands of chambers have been installed in more than 70 countries (more than 80% of the total production is exported). We stay on the leading edge of the current technologies and constantly aim to improve for the future.

Angelantoni Industrie headquarterd in Massa Martana (Perugia, Italy) extend over an area of 80.000 square metres (more then 16.000 square metres are covered by factories and officies).

Massa Martana is located in Umbria, a region rich in art, history and tradition. No location could be more appropriate; Angelantoni Industrie S.p.A. learn from the past to better understand and anticipate the future. This, combined with dedication and ever growing expertise, makes Angelantoni Industries S.p.A. the most complete and diversified European group for advanced cold technology for industry and reserch.



ISO 9001:2000 / ISO 14001 / CE



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