



**Protection, safety, reliability.  
And more.**

ULTRA-LOW FREEZERS



**ColdFAST**

Ultrafreezers -86°C  
upright and chest



DASITGROUP



# ColdFAST

## Ultra-low freezers -86°C upright and chest

- ✓ 7 DIFFERENT SIZE MODELS WITH WIDE CHOICE OF INTERNAL CAPACITIES AND ACCESSORIES
- ✓ EXTERNAL COATINGS MADE IN EPOXY PAINTED COLD ROLLED STEEL
- ✓ GUARANTEED OPERATIONAL INTERNAL TEMPERATURE -86° AT AMBIENT TEMPERATURE OF +32°
- ✓ SMALL FOOTPRINT (FOR 500 LT UPRIGHT -86°C ONLY 0,74 SQM)



### ColdFAST U

upright ultra-low freezers

CAPACITY (L)	400	500	650
230			



### ColdFAST C

chest ultra-low freezers

CAPACITY (L)	400	500
230		



# TECHNICAL SPECIFICATIONS

## RANGE OF TEMPERATURE

- **Adjustable internal temperature** within a range of -40°C up to -86°C.
- **Guaranteed operational internal temperature** -86° at ambient temperature of +32°.

## FEATURES

- **External coating** made in epoxy painted steel
- **Internal doors**
- **High resistance pivoting castors** (front and back)
- **Thermal insulation** by means of 127 mm thickness polyurethane foam CFC and HCFC free
- **Internal chamber** fully made in AISI 304 stainless steel
- **Frontal door** 100 mm thickness with high density insulation foam
- **Revolutionary progressive handle closure** with key lock system
- **Unique design 4 steps soft silicone gasket** providing perfect tightness of the frontal door
- **Quick door opening compensation pressure valve**
- **Independent internal flaps** to reduce cold air emission during the openings and closures of the internal doors
- **Volte free contact** to transfer electronic signals

## REFRIGERATION SYSTEM

- **Totally sealed refrigeration** system equipped with two cascade-circuit compressors
- **Hermetic compressors** of 0.75 Hp for 230 Lt models and of 1.7 Hp for all other models, equipped with an automatic protection system in case of overpressure which protects the compressors when operating in extreme conditions

- **Eco friendly** non-flammable and non-explosive refrigerants CFC and HCFC free
- **Static evaporator** made up of a copper serpentine to ensure high cooling performance, quick recovery times and optimal temperature distribution
- **The air cooled** condenser is equipped with two fan with axial movement on ball bearings to ensure a low noise level and a higher durability
- **Washable polyester foam filter** protecting the condenser from dust

## CONTROLS

- **Temperature** is constantly displayed on the large LCD monitor
- **Temperature adjustment** using soft touch keys on the front panel
- **Data monitoring and recording** through RS485 and USB port (optional)

## NOTIFICATIONS AND ALARMS

- **Visual and audible alarm** for minimum and maximum temperatures
- **Visual and audible alarm for high condensing alert** the operator if the condensing temperature rises above the maximum set point
- **The entire alarm system** is equipped with a **buffer battery** with self-loading 12V device that allows operation of the alarms even in case of power outage

## NORM COMPLIANCE

- CEI 66-5 electrical lab equipment safety norm
- 2004/108/CE ElectroMagnetic Compatibility Directive
- 2006/95/CE Low Voltage Directive
- 2006/42/CE Machinery Directive
- EEC 594/91 European Norm on substances that deplete the ozone layer
- **Quality and safety** guaranteed by the design and production system certified according to UNI EN ISO 9001 and CE mark



## Quality guaranteed

QUALITY AND LONG LIFE OF THE EQUIPMENT GUARANTEED BY THE EXPERIENCE IN THE FIELD OF LAB EQUIPMENT

## Constant Control

ENSURED BY MEANS OF A UNIQUE MICROPROCESSOR SYSTEM

## Clean technology

ENVIRONMENTAL FRIENDLY ULTRAFREEZER USING CFC-HCFC FREE TECHNOLOGY

## ACCESSORIES

- Open door alarm
- Weekly chart temperature recorder
- Back-up system CO<sub>2</sub> or LN<sub>2</sub>
- Wide selections of stainless steel racks for cryoboxes
- Stainless steel drawers with different heights available
- Additional shelves for upright Ultrafreezers
- Independent visual and acoustic alarm system
- Cooling system remotely mounted outside the laboratory
- Additional refrigerant system with automatic switch on in case of failure of the primary system
- Internal ventilation system for supreme cooling distribution inside the refrigerated chamber
- Integrated customized opening for access management and opening recording by means of smart cards and software management
- UPS
- I.Q. (Installation Qualification) and O.Q. (Operational Qualification) protocols



# The new benchmark in cold technology

- ✓ **The smallest footprint** available in the market
- ✓ **Soft silicone 4 steps gasket** delivering outstanding thermal insulation
- ✓ **Guaranteed safety for your sample** thanks to the revolutionary T.P.C. control
- ✓ **The best recovery time** available

## Outstanding safety for your sample



*Quality and safety Program*  
Aware of the fact that safety of your samples is priority, our company has created its internal FASTER QUALITY AND SAFETY PROGRAM - consisting of a new set of standard operational procedures and manufacturing methods - applied to each and every step of the production processes aimed at fulfilling all requirements of these high standards.



The new ECS<sup>®</sup> microprocessor employs the latest innovative methods of integrated management of all the principal functions of refrigeration, heat compression and condensation.



## TECHNICAL SPECIFICATIONS



# ColdFAST U upright ultra-low freezers

Model	ColdFAST 230 U	ColdFAST 400 U	ColdFAST 500 U	ColdFAST 650 U
Ambient Temperature (+32°C)	-86°C	-86°C	-86°C	-86°C
Capacity	230Lt	390Lt	500Lt	650Lt
Overall dimensions LxPxH cm	84x75x142	84x75x197	84x88x197	98x90x197
Useful dimensions LxPxH cm	61x50x76	61x50x131	60x63x131	74x67x131
External door	1	1	1	1
Internal doors	2	4	4	4
Internal shelves (adjustable height)	2 (only 1 adjustable in height)	4 (only 3 adjustable in height)	4 (only 3 adjustable in height)	4 (only 3 adjustable in height)
Total No. of stainless steel racks	8	16	16	20
No. of cryoboxes 5,1 H cm	144	240	320	400
No. of cryoboxes 7,7 H cm	96	144	192	240
Power (Kw)	0,8	1,5	1,5	1,5
Weight (Kg)	200	280	320	390

# ColdFAST C chest ultra-low freezers

Model	ColdFAST 230 C	ColdFAST 400 C	ColdFAST 500 C
Ambient Temperature (+32°C)	-86°C	-86°C	-86°C
Capacity	230	390	500
Overall dimensions LxPxH cm	100x84x109	155x84x109	189x84x91
Useful dimensions LxPxH cm	76x60x50	131x61x50	131x60x63
External door	1	1	1
Internal doors	2	3	4
Total no. of stainless steel racks	20	36	36
No. of cryoboxes 5,1 H cm	160	288	360
No. of cryoboxes 7,7 H cm	100	180	252
Power (Kw)	0,8	1,5	1,5
Weight (Kg)	200	280	320



Striving everyday to improve our environmental performance, Faster developed environmental procedures are founded on three guiding principles:

- Protect the Environment for present and future generations manufacturing low energy consumption equipment
- Reduce risks and improve efficiencies
- Introduce improved technology and processes



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