

blood bank refrigerators / combined refrigerator-freezers / laboratory freezers / laboratory and pharmacy refrigerators



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Should it be necessary of useful without undermining any model essential features, technical and stylistic characteristics are subject to be changed without manufactures's previous notice. Pictures don't necessarily show product in standard version.

MEDICAL REFRIGERATORS



/ blood bank refrigerators / combined refrigerator-freezers / laboratory freezers / laboratory and pharmacy refrigerators / blood storage refrigerators



COMPANY PRODUCT

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blood bank refrigerators / combined refrigerator-freezers / laboratory freezers /laboratory and pharmacy refrigerators



LABORATORY AND PHARMACY REFRIGERATORS
BLOOD BANK REFRIGERATORS
COMBINED REFRIGERATOR-FREEZERS
LABORATORY FREEZERS

10
16
20
24

/ blood bank refrigerators / combined refrigerator-freezers / laboratory freezers / laboratory and pharmacy refrigerators / b



frimed was established in 1997, as result of twenty year experience of its owners in medical refrigeration field. Constant research and development, along with professional and serious attitude have enabled **frimed** to design and manufacture highly reliable refrigerators and freezers to be used in hospital, laboratory, biomedical and pharmaceutical fields as well as scientific field in general. In few years our appliances have become well known and are now appreciated and chosen in many countries all over the world.

ors / blood bank refrigerators / combined refrigerator-freezers / laboratory freezers /laboratory and pharmacy refrigerators



frimed has always been oriented to a constant improvement of the business process in order to satisfy the client, to involve its staff and to have a relationship of mutual satisfaction with suppliers. The commitment undertaken in this direction has enabled the company to achieve an important goal, the certification of Quality Management System ISO 9001:2008 which is a guarantee of reliability and professional attitude.



COMPANY

Further ISO 14001:2004 certification confirms **frimed** serious commitment to minimize the environmental impact of procedures, products and services and attests the reliability of the Environmental Management System applied.



/ blood bank refrigerators / combined refrigerator-freezers / laboratory freezers / laboratory and pharmacy refrigerators



In 2010 **frimed** also achieved the certification of Quality Management System according to ISO 13485:2003 (Medical Devices) and, at the same time, the EC certification according to Directives 93/42/EC for the marking of Blood Bank refrigerators (class IIA) for hospital use.





energy saving and environment protection technology

LED lighting. All our cabinets with positive temperature are internally equipped with LED lights. LED lighting is the solution for reducing energy use, because it allows saving energy up to 70% compared with fluorescent lamps. LED lights have high performance, bright colours and provide beneficial environmental impact with longer life and therefore less landfill waste.

low emissivity glass. This technology applied to all models with glass door significantly improves performance of insulation allowing energy saving.

CFC-free thermo insulation. Insulation of all cabinets is done by means of ecological CFC-free polyurethane foam. Thickness of 60mm for all refrigerator models and 80,100 mm for freezer models grants highly insulating performance.

environment friendly refrigerant gas. CFC- free R404a gas is used in all compressors of **frimed** models

energy saving defrost cycle. In all ventilated refrigerators, defrosting cycles are performed only when necessary.

hot gas defrosting for ventilated freezer AF70B and AF140B with a very short cycle with no need of electric resistance

high performance motor fan granting energy saving thanks to new technology. Besides, **frimed** mainboard makes condenser fan work only when necessary.

technical highlights

structure

External structure in hot-dip galvanised steel, anti-corrosion treated and white PVC film coated. Stainless steel internal structure.

insulation

Insulation of 60mm, 80mm, 100mm obtained by injection of high density ecological polyurethane CFC-free foam for excellent product preservation and best energy saving.

door

Self-closing door with removable magnetic gasket on four sides for perfect closing. Right hand opening or left hand on request.

lock with key

To use the appliance under supervision.

LED lighting

LED light with automatic switch at door opening.
Manual switch on control panel.

shelves

In Scotch-Brite stainless steel. Adjustable in height.

drawers

Sliding drawers in Scotch-Brite stainless steel.
See-through frontal side.
Optional plexiglas dividers.

refrigeration system

Completely sealed, silent and highly efficient hermetic compressor and ventilated air condenser.
Internal ventilated or static evaporator. CFC-free refrigerant.

defrosting

Fully automatic defrosting cycle with auto-evaporation of condensed water, or manual defrosting cycle.

temperature chart recorder

Weekly temperature recording system working with 1,5V battery.
It is equipped with 52 disks and a pen.

kit wheels with two frontal brakes

port hole

Ø 35 mm sidewall port hole for custom probe.





control panel

- Microprocessor control panel with easy-to-read digital display showing inside menu, temperature, set point, date and hour, model of appliance.
- Equipment settings and switching off only by means of password.
- Continuous temperature monitoring with set point and alarms shown on display.
- Visual and acoustic alarms through buzzer sound, general alarm warning light, specific alarm warning light and icon on display. Alarms included: high and low temperature (adjustable threshold), open door, condenser efficiency, damaged probes, power failure, low battery.
- Back up battery to generate alarms in case of power failure.
- Remote contact to connect the appliance to an external alarm.
- GSM alarm to send SMS alarm messages showing date, time, cabinet temperature and type of alarm. Possibility to send SMS message to check correct functioning of cabinet.
- LAN port to connect appliance via internet on PC for monitoring correct functioning.
- USB port to download temperature data and alarms or to reset the appliance.
- Data logger to download temperatures and alarms registered in last 60 days on USB pen drive.
- Memory for last alarms shown on display.



power control with password



temperature digital display



visual and acoustic alarms



back-up battery



remote contact for alarm



GSM alarm



LAN port



USB port



data logger





PHARMACY REFRIGERATORS

from 100 to 1400 lt.

SB - FS - PN - AF models

structure

External structure in hot-dip galvanised steel, anti-corrosion treated and white PVC film coated. Stainless steel internal structure.

insulation

60 mm of insulation obtained by injection of high density ecological polyurethane **CFC-free** foam for excellent product preservation and best energy saving.

door

Self-closing solid or glass door (double insulating - low emissivity glass) with folding magnetic gasket on four sides for perfect closing. Right hand opening or left hand on request. Lock with key.

shelves

In Scotch-Brite stainless steel. Adjustable in height.

light

LED (energy saving up to 70%, ecological) with automatic switch at door opening. Manual switch on control panel.

range temperature

Between +2°C and +10°C. Factory preset to +4°C. Digital adjustable.

refrigeration system

Completely sealed, silent and highly efficient hermetic compressor and ventilated air condenser (suitable also for tropical countries). Internal ventilated evaporator. This system forcing air circulation ensures to provide uniform temperature inside the refrigerator even in case of frequent door openings. Evaporator fan shuts off during door openings. **CFC-free** refrigerant.

defrosting

Fully automatic defrosting cycle and auto-evaporation of condensed water.

control panel and alarms

Microprocessor control panel with easy-to-read digital display showing inside temperature (described on page 8). It has a PT1000 probe. Audible and visual alarms including: high and low temperature (adjustable threshold), open door, condenser efficiency, damaged probes, power failure (option), low battery (option).

data logger

to download temperatures and alarms registered in last 60 days on USB pen drive.



standard fitting

- Shelves
- Four one-way wheels and two stabilizing adjustable feet
- Power cord with Schuko type plug or British type plug
- Protection fuses
- RFI filter
- Main power switch
- Electronic control panel with alarm system
- Remote contact (dry, volt-free) for alarm
- USB port
- Memory for last alarms

optional accessories

- Sliding drawers in Scotch-Brite stainless steel
See-through frontal side. Telescopic ball-bearings
- Internal dividers for drawers
- Smooth shelves with borders
- Kit wheels with frontal brakes
- Weekly temperature chart recorder
- Back up battery
- GSM alarm
- LAN port
- Port hole (Ø 35 mm)



SB10

Capacity (LT): 100
Shelves: 2
Drawers (optional): Up to 2
LxDxH (mm): 600x600x850
Kg: 73
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 227
Refrigerant gas: R404a



SB10V

Capacity (LT): 100
Shelves: 2
Drawers (optional): Up to 2
LxDxH (mm): 600x600x850
Kg: 76
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 227
Refrigerant gas: R404a



FS15

Capacity (LT): 150
Shelves: 2
Drawers (optional): Up to 3
LxDxH (mm): 600x600x1335
Kg: 76
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 345
Refrigerant gas: R404a



FS15V

Capacity (LT): 150
Shelves: 2
Drawers (optional): Up to 3
LxDxH (mm): 600x600x1335
Kg: 80
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 345
Refrigerant gas: R404a



FS20

Capacity (LT): 200
Shelves: 3
Drawers (optional): Up to 4
LxDxH (mm): 600x600x1535
Kg: 85
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 345
Refrigerant gas: R404a



FS20V

Capacity (LT): 200
Shelves: 3
Drawers (optional): Up to 4
LxDxH (mm): 600x600x1535
Kg: 91
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 345
Refrigerant gas: R404a

PHARMACY REFRIGERATORS

from 100 to 1400 lt.

Dimensions of packaging and shipping weight

MODEL	carton box: LxDxH (mm)	Kg
SB10 - SB10V	680x680x1050	84-87
FS15 - FS15V	700x680x1600	87-91
FS20 - FS20V	700x680x1800	96-102
FS25 - FS25V	700x680x2150	106-115
FS30 - FS30V	700x680x2150	117-126



FS25

Capacity (LT): 250
Shelves: 4
Drawers (optional): Up to 5
LxDxH (mm): 600x600x1735
Kg: 93
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a



FS25V

Capacity (LT): 250
Shelves: 4
Drawers (optional): Up to 5
LxDxH (mm): 600x600x1735
Kg: 102
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a



FS30

Capacity (LT): 300
Shelves: 5
Drawers (optional): Up to 6
LxDxH (mm): 600x600x1935
Kg: 104
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a



FS30V

Capacity (LT): 300
Shelves: 5
Drawers (optional): Up to 6
LxDxH (mm): 600x600x1935
Kg: 113
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a

LABORATORY AND +2°+10°C



PN45

Capacity (LT): 450
Shelves: 3
Drawers (optional): Up to 5
LxDxH (mm): 700x800x1730
Kg: 121
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a



PN45V

Capacity (LT): 450
Shelves: 3
Drawers (optional): Up to 5
LxDxH (mm): 700x800x1730
Kg: 130
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a



PN52

Capacity (LT): 520
Shelves: 4
Drawers (optional): Up to 6
LxDxH (mm): 700x800x1930
Kg: 129
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a



PN52V

Capacity (LT): 520
Shelves: 4
Drawers (optional): Up to 6
LxDxH (mm): 700x800x1930
Kg: 138
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a



AF70

Capacity (LT): 700
Shelves: 4
Drawers (optional): Up to 7
LxDxH (mm): 700x800x1990
Kg: 137
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 415
Refrigerant gas: R404a



AF70V

Capacity (LT): 700
Shelves: 4
Drawers (optional): Up to 7
LxDxH (mm): 700x800x1990
Kg: 142
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 415
Refrigerant gas: R404a

PHARMACY REFRIGERATORS

from 100 to 1400 lt.

Dimensions of packaging and shipping weight

MODEL	carton box: LxDxH (mm)	Kg
PN45 - PN45V	860x910x2170	136-145
PN52 - PN52V	860x910x2170	144-153
AF70 - AF70V	860x910x2170	152-167
AF140 - AF140V	1500x860x2170	179-212



AF140

Capacity (LT): 1400
Shelves: 8
Drawers (optional): Up to 14
LxDxH (mm): 1440x800x2020
Kg: 164
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 510
Refrigerant gas: R404a



AF140V

Capacity (LT): 1400
Shelves: 8
Drawers (optional): Up to 14
LxDxH (mm): 1440x800x2020
Kg: 186
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 510
Refrigerant gas: R404a

BLOOD BANK

+2°+6°C



REFRIGERATORS

from 100 to 1400 lt.

SB - FS - PN - AF models

structure

External structure in hot-dip galvanised steel, anti-corrosion treated and white PVC film coated. Stainless steel internal structure.

insulation

60 mm of insulation obtained by injection of high density ecological polyurethane **CFC-free** foam for excellent product preservation and best energy saving.

door

Self-closing glass door (double insulating - low emissivity glass) with folding magnetic gasket on four sides for perfect closing. Right hand opening or left hand on request. Lock with key.

drawers

Sliding drawers in Scotch-Brite stainless steel. Telescopic ball-bearings. See-through frontal side. Plexiglass internal dividers (optional)

light

LED (energy saving up to 70%, ecological) with automatic switch at door opening. Manual switch on control panel.

range temperature

Between +2°C and +6°C. Factory preset to +4°C.

refrigeration system

Completely sealed, silent and highly efficient hermetic compressor and ventilated air condenser (suitable also for tropical countries). Internal ventilated evaporator. This system forcing air circulation ensures to provide uniform temperature inside the refrigerator even in case of frequent door openings. Evaporator fan shuts off during door openings. **CFC-free** refrigerant.

defrosting

Fully automatic defrosting cycle and auto evaporation of condensed water.

control panel and alarms

Microprocessor control panel with easy-to-read digital display showing inside temperature (described on page 8). It has a PT1000 probe. Audible and visual alarms including: high and low temperature (adjustable threshold), open door, condenser efficiency, damaged probes, power failure, low battery.

data logger

to download temperatures and alarms registered in last 60 days on USB pen drive.

back up battery

Self-powered back up battery supplying energy to generate alarms in case of power failure.

temperature chart recorder

Weekly temperature recording system working with 1,5V battery. It is equipped with 52 disks and a pen.

standard fitting

- Drawers
- Four one-way wheels and two stabilizing adjustable feet
- Power cord with Schüko type plug or British type plug
- Protection fuses
- RFI filter
- Main power switch
- Electronic control panel with alarm system
- Weekly temperature chart recorder
- Back up battery
- Remote contact (dry, volt-free) for alarm
- USB port
- Memory for last alarms

optional accessories

- Internal dividers for drawers
- Kit wheels with frontal brakes
- GSM alarm
- LAN port
- Port hole (Ø 35 mm)



Certificate for medical devices
according to Directive 93/42/EC (class IIA)

BLOOD BANK +2°+6°C



SB10E

Capacity (LT): 100
Drawers: 2
Blood Bags (450 ml/each): 64
LxDxH (mm): 600x600x850
Kg: 80
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 227
Refrigerant gas: R404a



FS15E

Capacity (LT): 150
Drawers: 3
Blood Bags (450 ml/each): 96
LxDxH (mm): 600x600x1335
Kg: 83
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 345
Refrigerant gas: R404a



FS20E

Capacity (LT): 200
Drawers: 4
Blood Bags (450 ml/each): 128
LxDxH (mm): 600x600x1535
Kg: 94
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 345
Refrigerant gas: R404a



FS25E

Capacity (LT): 250
Drawers: 5
Blood Bags (450 ml/each): 160
LxDxH (mm): 600x600x1735
Kg: 106
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a



FS30E

Capacity (LT): 300
Drawers: 6
Blood Bags (450 ml/each): 192
LxDxH (mm): 600x600x1935
Kg: 118
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a



PN45E

Capacity (LT): 450
Drawers: 5
Blood Bags (450 ml/each): 275
LxDxH (mm): 700x800x1730
Kg: 133
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 360
Refrigerant gas: R404a

REFRIGERATORS

from 100 to 1400 lt.

Dimensions of packaging and shipping weight

MODEL	carton box: LxDxH (mm)	Kg
SB10E	680x680x1050	91
FS15E	700x680x1600	94
FS20E	700x680x1800	105
FS25E	700x680x2150	119
FS30E	700x680x2150	131
PN45E	860x910x2170	146
PN52E	860x910x2170	155
AF70E	860x910x2170	161
AF140E	1500x860x2170	220



PN52E

Capacity (LT): 520
 Drawers: 6
 Blood Bags (450 ml/each): 330
 LxDxH (mm): 700x800x1930
 Kg: 142
 Voltage V/Hz: 230V/50 or 60Hz
 Absorption W: 360
 Refrigerant gas: R404a



AF70E

Capacity (LT): 700
 Drawers: 7
 Blood Bags (450 ml/each): 385
 LxDxH (mm): 700x800x1990
 Kg: 146
 Voltage V/Hz: 230V/50 or 60Hz
 Absorption W: 415
 Refrigerant gas: R404a



AF140E

Capacity (LT): 1400
 Drawers: 14
 Blood Bags (450 ml/each): 770
 LxDxH (mm): 1440x800x2020
 Kg: 194
 Voltage V/Hz: 230V/50 or 60Hz
 Absorption W: 510
 Refrigerant gas: R404a

COMBINED
 $+2^{\circ}+10^{\circ}/-10^{\circ}-25^{\circ}$

REFRIGERATOR-FREEZERS

from 180/100 to 700/700 lt.

AF - FC models

structure

External structure in hot-dip galvanised steel, anti-corrosion treated and white PVC film coated. Stainless steel internal structure.

insulation

60 mm of insulation obtained by injection of high density ecological polyurethane **CFC-free** foam for excellent product preservation and best energy saving.

door

Refrigerator compartment with self-closing solid or glass (double insulating, low emissivity) door and freezer compartment with self-closing solid door. Folding magnetic gasket on four sides for perfect closing. Right hand opening or left hand on request. Lock with key.

shelves/drawers

Shelves adjustable in height in refrigerator compartment. Stainless steel drawers standard fitted in freezer compartment (shelves on model AF140/2).

light

LED (energy saving up to 70%, ecological) with automatic switch at door opening. Manual switch on control panel.

range temperature

Refrigerator compartment: between +2° and +10°C. Factory preset to +4°C.
Freezer compartment: between -10° and -25°C. Factory preset to -22°C.

dual refrigeration system

Two completely sealed, silent and highly efficient hermetic compressors and two ventilated air condensers (suitable also for tropical countries). Internal ventilated evaporator in refrigerator compartment. This system forcing air circulation ensures to provide uniform temperature inside the refrigerator even in case of frequent door openings. Evaporator fan shuts off during door openings. Static evaporator in freezer compartment. **CFC-free** refrigerant.

defrosting

Fully automatic defrosting cycle on refrigerator compartment. Manual defrosting on freezer compartment.

control panel and alarms

Two microprocessor control panels with easy-to-read digital display showing inside temperature (described on page 8). It has a PT1000 probe. Audible and visual alarms including: high and low temperature (adjustable threshold), open door, condenser efficiency, damaged probes, power failure (option), low battery (option).

data logger

to download temperatures and alarms registered in last 60 days on USB pen drive.

standard fitting

- Shelves for refrigerator compartment
- Drawers for freezer compartment (shelves on AF140/2)
- Four one-way wheels and two stabilizing adjustable feet
- Power cord with Schuko type plug or British plug
- Protection fuses
- RFI filter
- Main power switch
- Two electronic control panels with alarm system
- Remote contact (dry, volt-free) for alarm
- USB port
- Memory for last alarms

optional accessories

- Sliding drawers in Scotch-Brite stainless steel
See-through frontal side. Telescopic ball-bearings
- Internal dividers for drawers
- Kit wheels with frontal brakes
- Smooth shelves with borders
- Weekly temperature chart recorder
- Back up battery
- GSM alarm
- LAN port
- Port hole (Ø 35 mm)



COMBINED
+2°+10°/-10°-25°



FC39/2

Capacity (LT)
Refrigerator: 180
Freezer: 100
Standard fitting
Refrigerator: 3 shelves
Freezer: 2 drawers
Optional
Refrigerator: up to 3 drawers
LxDxH (mm): 600x600x1935
Kg: 121
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 612
Refrigerant gas: R404a



FC39V/2

Capacity (LT)
Refrigerator: 180
Freezer: 100
Standard fitting
Refrigerator: 3 shelves
Freezer: 2 drawers
Optional
Refrigerator: up to 3 drawers
LxDxH (mm): 600x600x1935
Kg: 125
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 612
Refrigerant gas: R404a



AF70/2

Capacity (LT)
Refrigerator: 350
Freezer: 350
Standard fitting
Refrigerator: 2 shelves
Freezer: 3 drawers
Optional
Refrigerator: up to 3 drawers
LxDxH (mm): 700x800x1990
Kg: 161
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 850
Refrigerant gas: R404a



AF70V/2

Capacity (LT)
Refrigerator: 350
Freezer: 350
Standard fitting
Refrigerator: 2 shelves
Freezer: 3 drawers
Optional
Refrigerator: up to 3 drawers
LxDxH (mm): 700x800x1990
Kg: 168
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 850
Refrigerant gas: R404a

REFRIGERATOR-FREEZERS

from 180/100 to 700/700 lt.

Dimensions of packaging and shipping weight

MODEL	carton box: LxDxH (mm)	Kg
FC39/2	700x680x2150	134
FC39V/2	700x680x2150	138
AF70/2	860x910x2170	174
AF70V/2	860x910x2170	181
AF140/2	1500x860x2170	221
AF140V/2	1500x860x2170	243



AF140/2

Capacity (LT)

Refrigerator: 700

Freezer: 700

Standard fitting

Refrigerator: 4 shelves

Freezer: 4 shelves

Optional

Refrigerator: up to 7 drawers

Freezer: up to 7 drawers

LxDxH (mm): 1440x800x2020

Kg: 195

Voltage V/Hz: 230V/50 or 60Hz

Absorption W: 1100

Refrigerant gas: R404a



AF140V/2

Capacity (LT)

Refrigerator: 700

Freezer: 700

Standard fitting

Refrigerator: 4 shelves

Freezer: 4 shelves

Optional

Refrigerator: up to 7 drawers

Freezer: up to 7 drawers

LxDxH (mm): 1440x800x2020

Kg: 217

Voltage V/Hz: 230V/50 or 60Hz

Absorption W: 1100

Refrigerant gas: R404a

LABORATORY
-25°-30°-40°C

FREEZERS

from 100 to 1400 lt.

SB - AF - CV - CL models

structure

External structure in hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.

Stainless steel internal structure.

insulation

Insulation of 60mm (SB - AF series), 80mm (CV series) and 100mm (CL60 series) obtained by injection of high density ecological **CFC-free** polyurethane foam for excellent product preservation and best energy saving.

door

Self-closing solid door with folding magnetic gasket on four sides for perfect closing. Right hand opening or left hand on request. Lock with key.

shelves/drawers

Drawers in Scotch-Brite stainless steel.

Stainless steel shelves for AF series.

range temperature

Between -10°C and -25° (SB - AF series), -30° (CV series), -40°C (CL series). Factory preset to -22°, -30°, -40°C.

refrigeration system

Completely sealed, silent and highly efficient hermetic compressor and ventilated air condenser.

Internal compartment static evaporator (ventilated evaporator for SB - AF series). **CFC-free** refrigerant.

defrosting

Manual defrosting cycle (CV and CL series). Automatic defrosting cycle (SB - AF series).

control panel and alarms

Microprocessor control panel with easy-to-read digital display showing inside temperature (described on page 8). It has a PT1000 probe. Audible and visual alarms including: high and low temperature (adjustable threshold), open door, condenser efficiency, damaged probes, power failure (option), low battery (option).

data logger

to download temperatures and alarms registered in last 60 days on USB pen drive.



standard fitting

- Drawers (shelves for AF series)
- Four one-way wheels and two stabilizing adjustable feet
- Power cord with Schuko type plug
- Protection fuses
- RFI filter
- Main power switch
- Electronic control panel with alarm system
- Remote contact (dry, volt-free) for alarm
- USB port
- Memory for last alarms

optional accessories

- Sliding drawers in Scotch-Brite stainless steel, (AF series)
- Internal dividers for drawers
- Kit wheels with frontal brakes
- Weekly temperature chart recorder
- Back up battery
- GSM alarm
- LAN port
- Port hole (Ø 35 mm)

LABORATORY FREEZERS

-25°-30°-40°C



SB10B (-20°)

Capacity (LT): 100
Drawers: 2
LxDxH (mm): 600x600x850
Kg: 81
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 227
Refrigerant gas: R404a



CV3 (-30°)

Capacity (LT): 160
Drawers: 3
LxDxH (mm): 640x620x1339
Kg: 85
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 415
Refrigerant gas: R507



CV4 (-30°)

Capacity (LT): 220
Drawers: 4
LxDxH (mm): 640x620x1539
Kg: 94
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 415
Refrigerant gas: R507



CV5 (-30°)

Capacity (LT): 250
Drawers: 5
LxDxH (mm): 640x620x1739
Kg: 103
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 715
Refrigerant gas: R507



CV6 (-30°)

Capacity (LT): 320
Drawers: 6
LxDxH (mm): 640x620x1939
Kg: 115
Voltage V/Hz: 230V/50 or 60Hz
Absorption W: 715
Refrigerant gas: R507

from 100 to 1400 lt.

**plasma
freezer**

Dimensions of packaging and shipping weight

MODEL	carton box: LxDxH (mm)	Kg
SB10B	680x680x1050	92
CV3	700x680x1600	96
CV4	700x680x1800	105
CV5	700x680x1800	116
CV6	700x680x2150	128
CL60B	860x910x2170	186
AF70B	860x910x2170	157
AF140B	1500x860x2170	197



CL60B (-40°)

Capacity (LT): 600
 Drawers: 6
 LxDxH (mm): 780x840x1930
 Kg: 173
 Voltage V/Hz: 230V/50 or 60Hz
 Absorption W: 956
 Refrigerant gas: R507



AF70B (-25°)

Capacity (LT): 700
 Shelves: 4
 Drawers (optional): up to 7
 LxDxH (mm): 700x800x1990
 Kg: 144
 Voltage V/Hz: 230V/50 or 60Hz
 Absorption W: 685
 Refrigerant gas: R404a



AF140B (-25°)

Capacity (LT): 1400
 Shelves: 8
 Drawers (optional): up to 14
 LxDxH (mm): 1440x800x2020
 Kg: 171
 Voltage V/Hz: 230V/50 or 60Hz
 Absorption W: 866
 Refrigerant gas: R404a