100%
Made in Italy

1120

Desmon scientific

Medical & Laboratory Refrigeration

COOLBOOKMED

Pharma Line

Laboratory

Blood Bank

Chromatography

Your guide to innovative medical & laboratory refrigeration

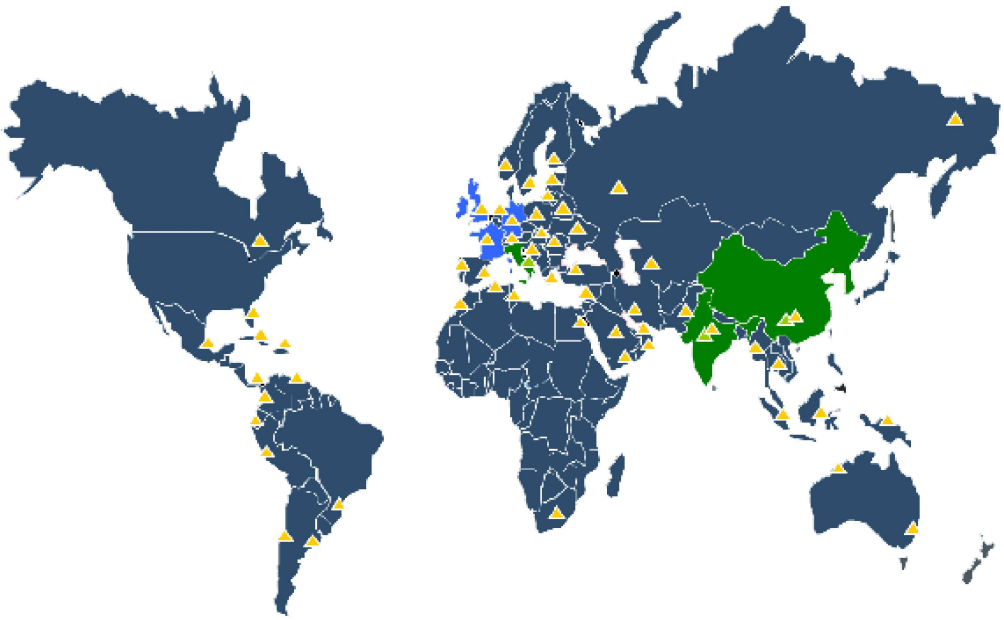
THE REAL MADE IN ITALY

Desmon S.p.A was founded in 1994 by the family De Santis as a food equipment trading company. In 1998 the company acquired a manufacturing plant in the south of Italy and started production of refrigeration equipment. The company was rapidly growing and after a few years became one of the leaders in the European market of professional refrigeration. Thousands of people from all over the world became not only customers but "fans" of Desmon. They loved products for a superior quality, benchmark performance shown even in tough ambient conditions and elegant design "Made in Italy".

Based upon 20 years of experience in manufacture of professional refrigeration equipment in 2009 the company introduced a new range of products named Desmon Scientific and designed for Laboratory Cold Storage in healthcare, scientific research, pharmaceutical and food processing industries. The range include more than 100 models of biomedical and pharmaceutical refrigerators, laboratory freezers, refrigerated workbenches and walk-in coldrooms with temperatures from +16 down to -87^{0}C.
Desmon is the only manufacturer of Laboratory Cold Storage equipment in Italy with full production cycle which guarantees a control over quality of products in all phases of manufacture, from moulding, fabrication, foaming to final assembly, testing and packaging. Two modern manufacturing facilities with a total area of 25.000sq.m. are located in Italy.

RECEIPT OF SUCCESS

Today the brand Desmon Scientific is well-recognized and respected among the customers worldwide. Every year we manufacture more than 10.000 units of refrigerators in two factories in Italy and supply to all parts of the world through network of distributors, key accounts and industrial partners.
Our receipt of market success was quite simple: to be the first for a quality, reliability and performance. During the recent years we invested heavily in development of new technologies, products, certification and modernization to make our products and services "best-in-class". More than 500 installations in 40 countries and thousands of satisfied customers prove the receipt was right!

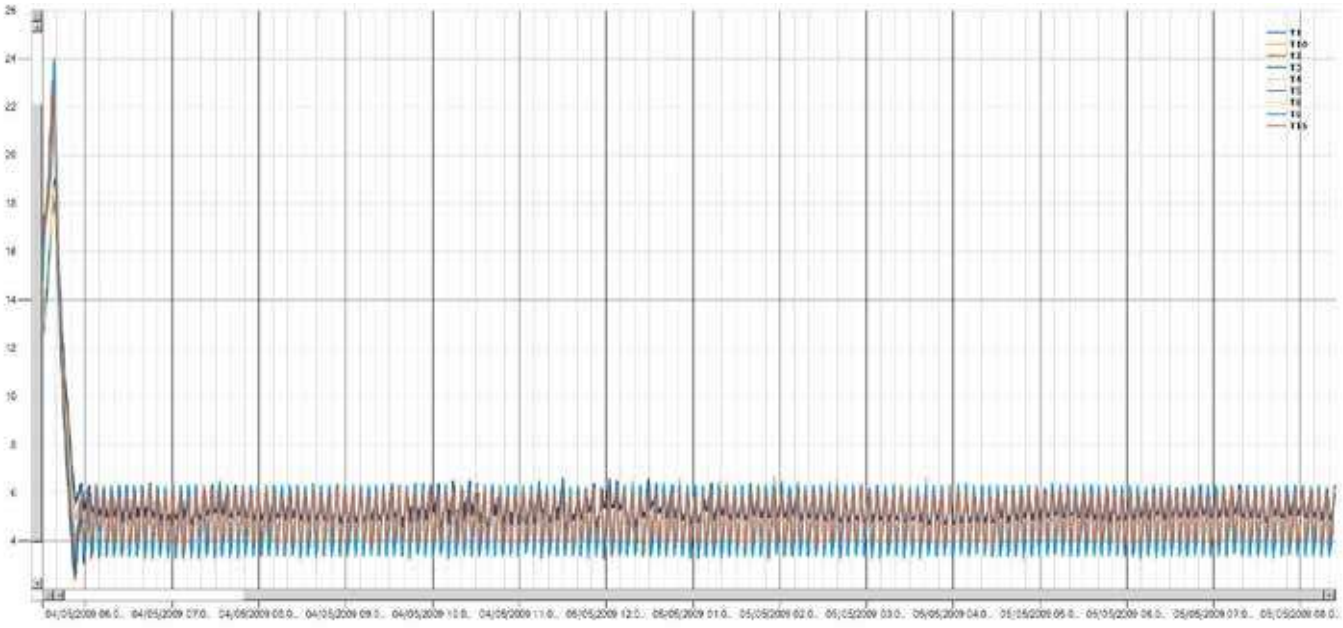


SUPERIOR QUALITY

To guarantee a superb quality, reliability and performance of the products Desmon uses only "noble" materials and selected components from world-famous suppliers. All models have highly effective refrigeration systems, tropicalized compressors, innovative insulation, precise electronic control systems, internal LED lighting and interiors made of stainless steel for the most demanding applications.

BENCHMARK PERFORMANCE

Our products comply to the highest industry' standards of temperature stability and could be easily validated by international standards, including the EU norm NFX15.140 with insertion of 9 temperature probes. A combination of ventilated cooling, automatic defrost, specially shaped cold air blower, precise temperature monitoring and reliable compressors guarantee rapid cooling, temperature stability, quick defrosting and reliable operation even under difficult environmental conditions.
We are so confident in excellent performance of our products that we issue IQ/OQ protocols for our customers upon request.



ENVIRONMENTALLY FRIENDLY REFRIGERATION

Energy Saving 41%

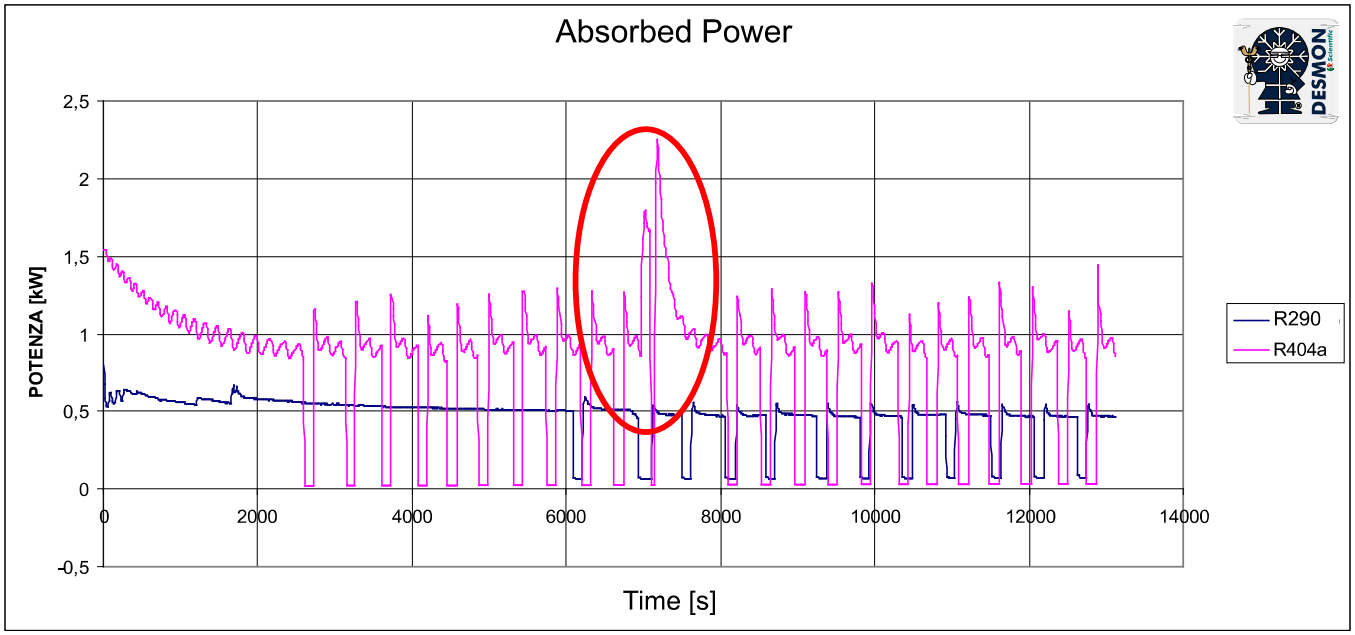
Energy consumption absorbed on R404a cooling system: *18,4kWh/24h;*

Energy consumption absorbed on R290 cooling system: *10,80kWh/24h.*

Respect of the environment is in DNA of Desmon and confirmed by decades of continuous commitment to research in environmentally efficient production processes. Desmon always pays attention to each stage of the life cycle of their products, from design to disposal, with an objective to minimize an environmental impact and increase benefits for customers by reducing energy costs.

Desmon is one of the first companies in Italy which adopted a foam-blowing agent, known as cyclopentane, that significantly reduces the greenhouse gas (GHG) emissions of the insulating process in the manufacturing. Using cyclopentane – a foam-blowing agent used to propel insulation into the doors and cases of refrigerators – will reduce the facility's GHG emissions from the foam-blowing process and boost the energy efficiency of the foam. Moreover, the cyclopenthane insulation has a longer life-time and extra-durability in comparison with ventilated PU foams.

Desmon introduced the new models of refrigerators with environmentally friendly R290 coolant gas which is HFC-free, has no effect on ozone layer, very silent in operation and guarantees energy-saving of about 40% in respect to common R404a refrigerant.



Test conditions:

- Ambient Temperature: 25°C/77°F
- Humidity: 80%
- # of door openings: 250 (from 7am to 11pm)
- *Simulation on Year base: (2,744Kw/365days)
- Cost of Kw/h in Italy: € 0,17

By integrating the two powers absorbed in the entire range of test results, we show below the values of electricity absorbed by two units:

Energy consumption of ventilated unit: 18,40 kWh/24h

Energy consumption of R290 unit : 10,80 kWh/24h

$$\frac{18{,}40 - 10{,}80}{18{,}40} * 100 = 41\%$$

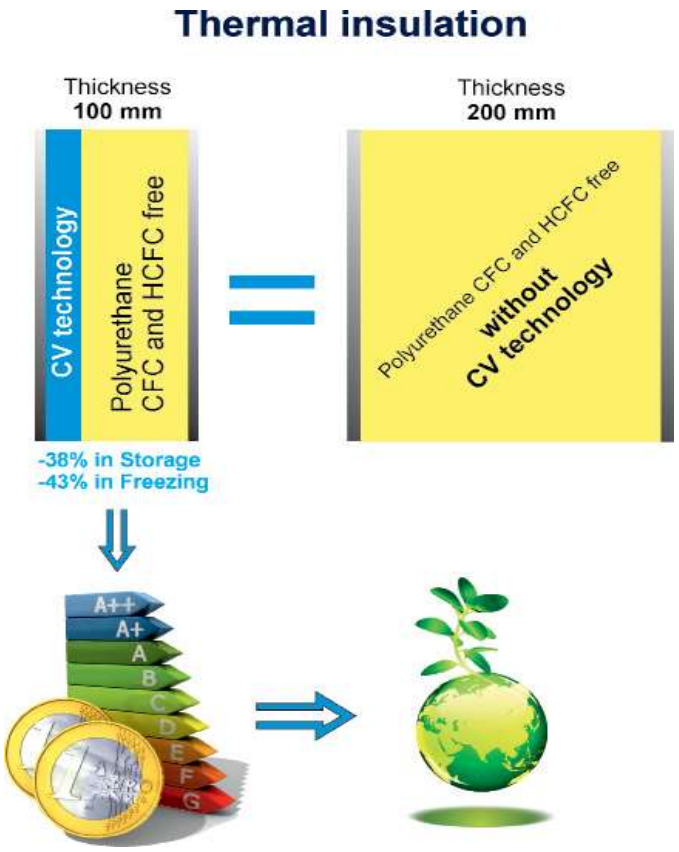
ANNUAL SAVINGS ON ENERGY CONSUMPTION € 470

CV TECHNOLOGY

The new CV technology introduced for some models of low temperature freezers is an innovative system of insulation which combines Vacuum Insulation Panels with a cyclopenthane insulation.

The technology guarantees an exceptional increase of effectiveness of thermal insulation for 100% and substantial reduction of energy consumption for 43%.

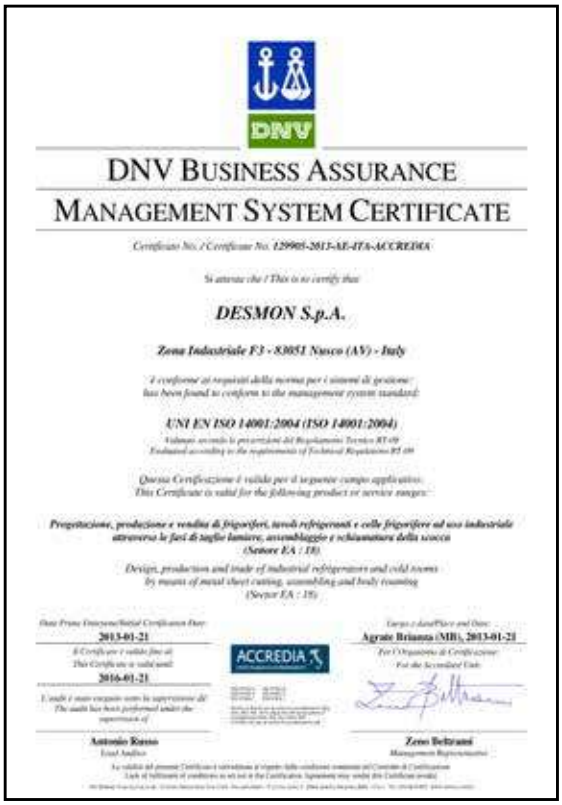
The company received ISO14001:2004 certificate for commitment to respect of environment on every stage of business process.



CERTIFICATION

Two production facilities in Italy are ISO9001:2008 certified for a quality of management system and ISO14001:2004 for an environmental management. The certificate ISO13845 for manufacture of medical devices is expected soon.

All products comply to the strictest European norms and directives: 2006/42EEC, 89/109/EEC, 2002/96 EC (WEEE)-97/23/EC - 2008/35/EC (WEEE)- 2002/95/EC (RoHS)-EC regulation n. 1907/2006(REACH) - D.LGS n. 155 26/05/97 and international Normative 2004/108 EEC (EMC), and 2006/95 EEC (Low Tension), Direttiva D.LGS81/08 - CEI EN 61010 - CEI EN 61326 - EN 61000-3-2 - EN 61000-3-3. Some of the models comply to the norm DIN58345 applied to pharmaceutical refrigerators.



DNV BUSINESS ASSURANCE

MANAGEMENT SYSTEM CERTIFICATE

DESMON S.p.A.

Zona Industriale F3 - 83051 Nusco (AV) - Italy

UNI EN ISO 14001:2004 (ISO 14001:2004)

ISO 9002 - 9001:2000 VISION 2000 - ISO 14001
CE - ETL - GOST (PCT) - UkrSEPRO - EAC

STANDARD CONTROLLER FOR MAXI SERIES

for remote monitoring

Data storage in the cloud

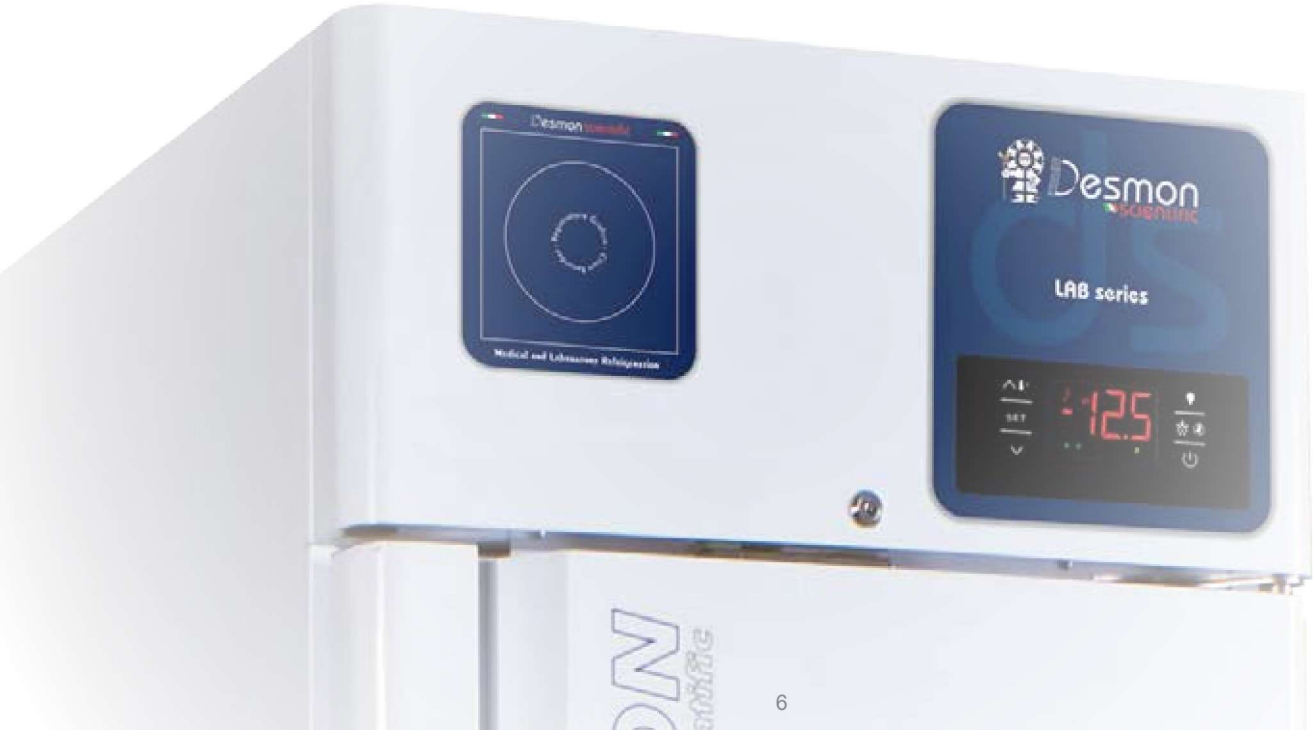
Battery Back-up

Alarms are shown, recorded and automatically sent by the Cloud

User accounts with different permissions

DesmonCloud is a monitoring and control system, easily accessible from laptops, tablets and smartphones. Access is via a normal browser with no need to install additional software. Indispensable in case of problems, the technician can remotely check all the parameters and possibly correct them directly from his office without going to the site.

FEATURES OF STANDARD ELECTRONIC CONTROLLER	
End user interface	Display LED
Resolution (°C)	0,1
Maximum Number of Probes	3
Led Light, 75% power saving	yes
Acoustic alarm	yes
WI-FI interface	yes
Hot gas advanced defrost	yes
ALARMS AND FAILURES (ACOUSTIC AND VISUAL)	
Alarm "power failure"	yes
Alarm "high / low temperature"	yes
Alarm "open door"	yes
Alarm "sensor fault"	yes
Alarm “Clogged condenser”	yes
Alarm (events) recording (data logger of events and temperature)	yes
SAFETY	
Rechargeable back-up batteries	yes
Volt-free contact for remote monitoring	yes
Freezing and overheating safety device	yes
OPTIONALS	
Temperature datalogger with USB port (Available only without Wi Fi)	optional
RS 485 interface (Available only without Wi Fi)	optional
Electric digital key lock	optional
Gsm module	optional



DST TOUCH

(available on request)

FEATURES OF DST TOUCH ELECTRONIC CONTROLLER	
End user interface	Display TFT Touch 4,3”
Resolution (°C)	0,1
Probes (NTC or PT100)	yes
Led Light, 75% power saving	yes
Acoustic alarm	yes
Night & Day function	yes
Hot gas defrost, without power consumption	yes
ALARMS AND FAILURES (ACOUSTIC AND VISUAL)	
Alarm "power failure"	yes
Alarm "high / low temperature"	yes
Alarm "open door"	yes
Alarm "sensor fault"	yes
Alarm “Clogged condenser”	yes
High condensing temp. - Low evaporator temp.	yes
Alarms and Temperatures datalogger	yes
SAFETY	
Volt-free contact for remote monitoring	yes
Rechargeable back-up batteries (up to 12 h)	yes
CONNECTIVITY	
USB port with front access	yes
ETHERNET port	yes
RS 485 interface	yes
SIM port with front access	yes
DIAGNOSTIC	
Mains tension and relays monitoring	yes
Relays outscan	yes

OPTIONALS	
Electric digital key lock	optional
Gsm module	optional
WiFi module	optional
Freezing and overheating safety device	optional

PHARMA-LAB MAXI TECHNICAL SOLUTION

STANDARD CONTROLLER WITH WI-FI, DATA STORAGE IN CLOUD AND BACKUP BATTERY

Electronic controller with wi-fi, data storage in cloud and backup battery. Wi-FI recorder of alarms and temperature. USB port available on request (Described on page 6)

Standard controller with datalogger wi-fi

ADVANCED CONNECTIVITY

USB port for downloading the temperature control data and parameter settings. Ethernet Wi-Fi devices as standard and 3G (optional) complete the global connectivity between devices to CLOUD for monitoring and teleservice functionality via browser (PC or smartphone)

KIT COMPLIANCE WITH DIN 58345 AVAILABLE

For all products in the Pharma-lab line is available an kit of comply with DIN 58345,.

Interactive datalogger touch screen available on request

ENVIRONMENTALLY FRIENDLY REFRIGERATION

We only use environmentally friendly refrigerant gas for our products. The use of R290 refrigerant gas has a low energy consumption and its use does not damage the ozone layer

OPTIMAL TEMPERATURE DISTRIBUTION

The fans stop automatically at the opening of the door to avoid introduce air at room temperature. Indirect ventilation guarantees one perfect temperature throughout the room by gently acting on the product

AUTOMATIC DEFROST AND AUTO-EVAPORATION

Thanks to location of condensed' water basin close to "hot" parts of cooling unit the water is evaporated automatically and there is no need in additional heating elements.

CYCLOPENTHANE INSULATION 60 MM

Ciclopentane High density foamed in place environmentally friendly.
Kyoto Protocol Compliant:
ODP = 0 (Ozone Depletion Potential)
GWP = 3 (Global Warming Potential)
polyurethane keeps energy costs low.

LED LIGHTING

Glass doors of upright cabinets are equipped with LED lighting which is the best solution available in terms of power savings, life-time of parts and total appearance.

HOT GAS DEFROST

The Hot Gas Defrost start utomatically whenblast chilling is completed, to eliminate the ice on the evaporator ensuring maximum efficiency during the next cycle.

FREQUENCY 60 HZ AND VOLTAGE 115 V AVAILABLE

All our products can be equipped with 220-240 V / 60 Hz or 115-120 V / 50 Hz systems. Available on request

DATALOGGER TOUCH SCREEN

(Described on page 7)

The touch screen controller (optional) allows you to connect the entire range of products to the internet. This system offers the best management of all data and all events (alarms, blackouts, door opening / closing, faults, etc.).

DOOR LOCK WITH KEYS AND DATALOGGER USB

Door lock with keys as standard. Temperature datalogger with USB port (Available on request. In this case the WI FI datalogger will no longer be available)

EASY CLEANING AND MAINTENANCE

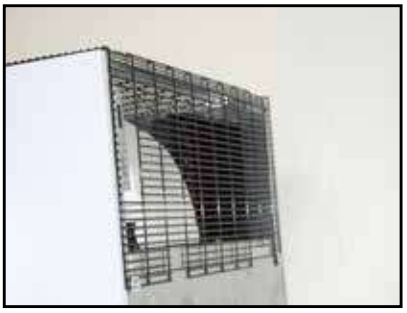
Rounded corner internal for easy cleaning. The evaporator compartment can be inspected for cleaning and maintenance.

REMOVABLE DOOR GASKETS

Removable (magnetic) door gaskets for easy cleaning or maintenance

ADJUSTABLE POWDER COATED STEEL SHELF

All models have an internal structure compatible with GN 2/1 trays. Removable without tools



PROTECTED REFIGERATION UNIT

The protection is made of sturdy prepainted steel wire(optional). As standard for the North American market.

TROPICALIZED COMPACT REFRIGERATION UNIT (MONOBLOCK)

Tropicalized Compact Refrigerating Units, designed for ambient temperatures from +16°C to +40°C. Use of natural gases, environment friendly, R290

STAINLESS STEEL CASTORS

Stainless steel castors with brake as standard for all models

REMOTE ALARM CONTACT

The remote alarm contact allows you to connect a PSTN or GSM telephone dialer (optional) to alert the operator if the refrigerator is in alarm. In case of power failure, door opening / closing, faults, etc.

STAINLESS STEEL DRAWERS

Stainless steel drawers with multiple partitions or polycarbonate drawers with full extension, available on request

ELECTRONIC REPROGRAMMABLE LOCK

For access control available on request. The history key may download anytime all your login information on locks and bring them back on management software

PASS-THROUGH HOLE MM 32

Pass-through hole with cap, diam. mm 32 for the passage of cables or probes

SOLID DOOR REFRIGERATORS
RANGE +2° +15°C

Standard controller
with datalogger wi-fi

Upright cabinets with solid doors			
Model	**DS-PGM07CBBPCBHE-A**	**DS-PGM07CSSPCBHE-A**	**DS-PGM09CBBPCBHE-A**
Dimensions exterior WxDxH (mm)	720x800x2120	720x800x2120	850x950x2060
Capacity (L)	700	700	900
Dimensions interior WxDxH (mm)	600x665x1520	600x665x1520	600x665x1520
Insulation (mm)	60	60	60
Temperature range (˚C)	+2°+15°	+2°+15°	+2°+15°
Temperature factory setting (°C)	+4,5°	+4,5°	+4,5°
Temperature setting accuracy (˚C)	0,1°C	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (W)	290	290	470
Weight (KG)	115	115	115
Shipping weight (KG)	130	130	130
Shipping dimensions WxDxH (mm)	800x910x2210	800x910x2210	910x105x2260
No. of compressors.	1	1	1
Doors	1	1	1
Automatic defrost and evaporation	yes	yes	yes
Castors	yes	yes	yes
Chart recorder	optional	optional	optional
Shelves (pcs)	3	3	3
Lighting	yes	yes	yes
Lock	yes	yes	yes
Interior and Exterior material	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated
Refrigerant	R290	R290	R290

SOLID DOOR REFRIGERATORS RANGE +2° +15°C

Upright cabinets with solid doors			
Model	**DS-PGM09CSSPCBHE-A**	**DS-PGM14CBBPCBHE-A**	**DS-PGM14CSSPCBHE-A**
Dimensions exterior WxDxH (mm)	850x950x2060	1440x800x2120	1440x800x2120
Capacity (L)	900	1400	1400
Dimensions interior WxDxH (mm)	600x665x1520	1320x665x1520	1320x665x1520
Insulation (mm)	60	60	60
Temperature range (˚C)	+2°+15°	+2°+15°	+2°+15°
Temperature factory setting (°C)	+4,5°	+4,5°	+4,5°
Temperature setting accuracy (˚C)	0,1°C	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (W)	470	470	470
Weight (KG)	115	202	202
Shipping weight (KG)	130	217	217
Shipping dimensions WxDxH (mm)	910x105x2260	1500x860x2280	1500x860x2280
No. of compressors.	1	1	1
Doors	1	2	2
Automatic defrost and evaporation	yes	yes	yes
Castors	yes	yes	yes
Chart recorder	optional	optional	optional
Shelves (pcs)	3	6	6
Lighting	yes	yes	yes
Lock	yes	yes	yes
Interior and Exterior material	Stainless Steel AISI304	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304
Refrigerant	R290	R290	R290

SOLID DOOR REFRIGERATORS
RANGE +2° +15°C

Upright cabinets with solid doors		
Model	**DS-PGM21CBBPCBHE-A**	**DS-PGM21CSSPCBHE-A**
Dimensions exterior WxDxH (mm)	2160x800x2120	2160x800x2120
Capacity (L)	2100	2100
Dimensions interior WxDxH (mm)	2040x665x1520	2040x665x1520
Insulation (mm)	60	60
Temperature range (˚C)	+2°+15°	+2°+15°
Temperature factory setting (°C)	+4,5°	+4,5°
Temperature setting accuracy (˚C)	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz
Power consumption (W)	800	800
Weight (KG)	315	315
Shipping weight (KG)	340	340
Shipping dimensions WxDxH (mm)	2200x840x2280	2200x840x2280
No. of compressors.	1	1
Doors	3	3
Automatic defrost and evaporation	yes	yes
Castors	yes	yes
Chart recorder	optional	optional
Shelves (pcs)	9	9
Lighting	yes	yes
Lock	yes	yes
Interior and Exterior material	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304
Refrigerant	R290	R290

SOLID DOOR FREEZERS
RANGE -10° -25°C

Upright cabinets with solid doors			
Model	**DS-PGB07CBBPCBHE-A**	**DS-PGB07CSSPCBHE-A**	**DS-PGB09CBBPCBHE-A**
Dimensions exterior WxDxH (mm)	720x800x2120	720x800x2120	850x950x2060
Capacity (L)	700	700	700
Dimensions interior WxDxH (mm)	600x665x1520	600x665x1520	600x665x1520
Insulation (mm)	60	60	60
Temperature range (˚C)	-10°-25°	-10°-25°	-10°-25°
Temperature factory setting (°C)	-20°	-20°	-20°
Temperature setting accuracy (˚C)	0,1°C	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (W)	500	500	500
Weight (KG)	115	115	115
Shipping weight (KG)	130	130	130
Shipping dimensions WxDxH (mm)	800x910x2210	800x910x2210	910x105x2260
No. of compressors.	1	1	1
Doors	1	1	1
Automatic defrost and evaporation	yes	yes	yes
Castors	yes	yes	yes
Chart recorder	optional	optional	optional
Shelves (pcs)	3	3	3
Lighting	yes	yes	yes
Lock	yes	yes	yes
Interior and Exterior material	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated
Refrigerant	R290	R290	R290

SOLID DOOR FREEZERS
RANGE -10° -25°C

Upright cabinets with solid doors			
Model	**DS-PGB09CSSPCBHE-A**	**DS-PGB14CBBPCBHE-A**	**DS-PGB14CSSPCBHE-A**
Dimensions exterior WxDxH (mm)	850x950x2060	1440x800x2120	1440x800x2120
Capacity (L)	700	1400	1400
Dimensions interior WxDxH (mm)	600x665x1520	1320x665x1520	1320x665x1520
Insulation (mm)	60	60	60
Temperature range (˚C)	-10°-25°	-10°-25°	-10°-25°
Temperature factory setting (°C)	-20°	-20°	-20°
Temperature setting accuracy (˚C)	0,1°C	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (W)	500	750	750
Weight (KG)	115	202	202
Shipping weight (KG)	130	217	217
Shipping dimensions WxDxH (mm)	910x105x2260	1500x860x2280	1500x860x2280
No. of compressors.	1	1	1
Doors	1	2	2
Automatic defrost and evaporation	yes	yes	yes
Castors	yes	yes	yes
Chart recorder	optional	optional	optional
Shelves (pcs)	3	6	6
Lighting	yes	yes	yes
Lock	yes	yes	yes
Interior and Exterior material	Stainless Steel AISI304	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304
Refrigerant	R290	R290	R290

SOLID DOOR FREEZERS
RANGE -10° -25°C

Upright cabinets with solid doors		
Model	**DS-PGB21CBBPCBHE-A**	**DS-PGB21CSSPCBHE-A**
Dimensions exterior WxDxH (mm)	2160x800x2120	2160x800x2120
Capacity (L)	2100	2100
Dimensions interior WxDxH (mm)	2040x665x1520	2040x665x1520
Insulation (mm)	60	60
Temperature range (˚C)	-10°-25°	-10°-25°
Temperature factory setting (°C)	-20°	-20°
Temperature setting accuracy (˚C)	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz
Power consumption (W)	600	600
Weight (KG)	315	315
Shipping weight (KG)	340	340
Shipping dimensions WxDxH (mm)	2200x840x2280	2200x840x2280
No. of compressors.	2	2
Doors	3	3
Automatic defrost and evaporation	yes	yes
Castors	yes	yes
Chart recorder	optional	optional
Shelves (pcs)	9	9
Lighting	yes	yes
Lock	yes	yes
Interior and Exterior material	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304
Refrigerant	R290	R290

GLASS DOOR REFRIGERATORS
RANGE +2° +15°C

Standard

Internal LED lighting: energy efficient, long life of components, "Cold" temperature of light and excellent appearance.

Upright cabinets with solid doors			
Model	**DS-PGM07GBBPCBHE-A**	**DS-PGM07GSSPCBHE-A**	**DS-PGM09GBBPCBHE-A**
Dimensions exterior WxDxH (mm)	720x800x2120	720x800x2120	850x950x2060
Capacity (L)	700	700	700
Dimensions interior WxDxH (mm)	600x665x1520	600x665x1520	600x665x1520
Insulation (mm)	60	60	60
Temperature range (˚C)	+2°+15°	+2°+15°	+2°+15°
Temperature factory setting (°C)	+4,5°	+4,5°	+4,5°
Temperature setting accuracy (˚C)	0,1°C	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (W)	290	290	470
Weight (KG)	115	115	115
Shipping weight (KG)	130	130	130
Shipping dimensions WxDxH (mm)	800x910x2210	800x910x2210	910x105x2260
No. of compressors.	1	1	1
Doors	1	1	1
Automatic defrost and evaporation	yes	yes	yes
Castors	yes	yes	yes
Chart recorder	optional	optional	optional
Shelves (pcs)	3	3	3
Lighting	yes	yes	yes
Lock	yes	yes	yes
Interior and Exterior material	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated
Refrigerant	R290	R290	R290

GLASS DOOR REFRIGERATORS RANGE +2° +15°C

Upright cabinets with solid doors			
Model	**DS-PGM09GSSPCBHE-A**	**DS-PGM14GBBPCBHE-A**	**DS-PGM14GSSPCBHE-A**
Dimensions exterior WxDxH (mm)	850x950x2060	1440x800x2120	1440x800x2120
Capacity (L)	700	1400	1400
Dimensions interior WxDxH (mm)	600x665x1520	1320x665x1520	1320x665x1520
Insulation (mm)	60	60	60
Temperature range (˚C)	+2°+15°	+2°+15°	+2°+15°
Temperature factory setting (°C)	+4,5°	+4,5°	+4,5°
Temperature setting accuracy (˚C)	0,1°C	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (W)	470	470	470
Weight (KG)	115	202	202
Shipping weight (KG)	130	217	217
Shipping dimensions WxDxH (mm)	910x105x2260	1500x860x2280	1500x860x2280
No. of compressors.	1	1	1
Doors	1	2	2
Automatic defrost and evaporation	yes	yes	yes
Castors	yes	yes	yes
Chart recorder	optional	optional	optional
Shelves (pcs)	3	6	6
Lighting	yes	yes	yes
Lock	yes	yes	yes
Interior and Exterior material	Stainless Steel AISI304	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304
Refrigerant	R290	R290	R290

SLIDING GLASS DOOR REFRIGERATORS RANGE +2° +15°C

Upright cabinets with solid doors		
Model	**DS-PGM14GBBPCBHE-A**	**DS-PGM14GSSPCBHE-A**
Dimensions exterior WxDxH (mm)	1440x800x2120	1440x800x2120
Capacity (L)	1400	1400
Dimensions interior WxDxH (mm)	1320x665x1520	1320x665x1520
Insulation (mm)	60	60
Temperature range (˚C)	+2°+15°	+2°+15°
Temperature factory setting (°C)	+4,5°	+4,5°
Temperature setting accuracy (˚C)	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz
Power consumption (W)	470	470
Weight (KG)	202	202
Shipping weight (KG)	217	217
Shipping dimensions WxDxH (mm)	1500x860x2280	1500x860x2280
No. of compressors.	1	1
Doors	2	2
Automatic defrost and evaporation	yes	yes
Castors	yes	yes
Chart recorder	optional	optional
Shelves (pcs)	6	6
Lighting	yes	yes
Lock	yes	yes
Interior and Exterior material	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304
Refrigerant	R290	R290

GLASS DOOR REFRIGERATORS
RANGE +2° +15°C

Upright cabinets with solid doors		
Model	**DS-PGM21GBBPCBHE-A**	**DS-PGM21GSSPCBHE-A**
Dimensions exterior WxDxH (mm)	2160x800x2120	2160x800x2120
Capacity (L)	2100	2100
Dimensions interior WxDxH (mm)	2040x665x1520	2040x665x1520
Insulation (mm)	60	60
Temperature range (˚C)	+2°+15°	+2°+15°
Temperature factory setting (°C)	+4,5°	+4,5°
Temperature setting accuracy (˚C)	0,1°C	0,1°C
Ambient temperature range (˚C)	+16°C +40°C	+16°C +40°C
Type of cooling unit	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz
Power consumption (W)	600	600
Weight (KG)	315	315
Shipping weight (KG)	340	340
Shipping dimensions WxDxH (mm)	2200x840x2280	2200x840x2280
No. of compressors.	2	2
Doors	3	3
Automatic defrost and evaporation	yes	yes
Castors	yes	yes
Chart recorder	optional	optional
Shelves (pcs)	9	9
Lighting	yes	yes
Lock	yes	yes
Interior and Exterior material	In hot-dip galvanised steel, anticorrosion treated and white PVC film coated	Stainless Steel AISI304
Refrigerant	R290	R290

LABORATORY STORAGE ANTIBACTERIAL INTERIOR

- **Standard controller.** Please see page 13 for description
- **DST Touch controller (Optional).** Please see page 14 for description
- **Ventilated cooling unit** with ventilated evaporator inside chamber
- **Automatic defrost** for better temperature uniformity.
- **Cyclopenthane insulation** 50 mm HCFC and CFC free, next-to-zero CO_2 emissions, extra durability.
- **Optimal temperature uniformity**
- **Antibacterial steel interior.** Eliminates up to 99% of bacterias present (Staphylococcus Aureus, klebsiella pneumoniae, Escherichia coli)
- **LED lighting for Glass doors.** The best solution available in terms of power savings, life-time of parts and total appearance.
- **Rounded internal corners.** Easy to clean and maintain.
- **Forced-air cooling.** Powerful cooling unit and enforced ventilation ensure maximum temperature stability even with frequent door openings
- **Removable door gaskets.** The cleaner are gaskets the longer they last!
- **Door lock with keys**
- **Adjustable feet.** It is possible to change a height of cabinets and undercounters by regulating a height of feet
- **Castors** available on request
- **Standard compressors** for high ambient temperatures up to from +16° to +32°C.
- **R404a coolant gas** as standard.

Adjustable powder coated steel shelf (standard for all models)

Volt-free contact

Antibacterial interior easy to clean

LED lamps consume from 50 to 75% less energy than ventilated lamps.

Stainless Steel drawers (optional)

Optional wheel kit (2 with brakes)

Removable (magnetic) door gaskets

Door lock with keys

Probe hole optional

Standard
Electronic controller with alarms and registration of last events.

Optional for standard Controller
Recorder of temperature and events with USB port

SOLID DOOR REFRIGERATORS & FREEZERS RANGE +2° +15°C / -10° -25°C

Antibacterial steel interior!

DS-BM7PR, DS-BB7PR

DS-BM14PR, DS-BB14PR

Upright cabinets with solid door

Model	DS-BM7PR	DS-BB7PR	DS-BM14PR	DS-BB14PR
Dimensions exterior WxDxH (mm)	700x800x2080	700x800x2080	1400x800x2080	1400x800x2080
Capacity (L)	700	700	1400	1400
Dimensions interior WxDxH (mm)	600x665x1500	600x665x1500	1300x665x1500	1300x665x1500
Insulation (mm)	50	50	50	50
Temperature range (˚C)	+2°+8° +2°+15° upon request	-10°-25°	+2°+8° +2°+15° upon request	-10°-25°
Temperature setting accuracy (˚C)	0,1°C	0,1°C	0,1°C	0,1°C
Max. ambient temperature (˚C)	32°	32°	32°	32°
Type of cooling unit	Ventilated	Ventilated	Ventilated	Ventilated
Power supply (V)	220V/240V	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz	50Hz
Power consumption (KW)	335	510	440	780
Weight (KG)	105	115	170	180
Shipping weight (KG)	120	130	190	200
Shipping dimensions WxDxH (mm)	790x860x2260	790x860x2260	1500x860x2260	1500x860x2260
No. of compressors.	1	1	1	1
Doors	1	1	2	2
Automatic defrost	yes	yes	yes	yes
Castors	optional	optional	optional	optional
Chart recorder	optional	optional	optional	optional
Shelves (pcs)	3	3	6	6
Lighting	optional	optional	optional	optional
Lock	yes	yes	yes	yes
Interior material	Antibacterial white powder coated steel	Antibacterial white powder coated steel	Antibacterial white powder coated steel	Antibacterial white powder coated steel
Exterior material	white powder coated steel	white powder coated steel	white powder coated steel	white powder coated steel
Refrigerant	R404a	R404a	R404a	R404a

SOLID DOOR REFRIGERATORS & FREEZERS
RANGE +2° +15°C / -10° -25°C

Antibacterial steel interior!

DS-BM7GPR, DS-BB7GPR

DS-BM14GPR, DS-BB14GPR

Upright cabinets with Glass door

Model	DS-BM7GPR	DS-BB7GPR	DS-BM14GPR	DS-BB14GPR
Dimensions exterior WxDxH (mm)	700x800x2080	700x800x2080	1400x800x2080	1400x800x2080
Capacity (L)	700	700	1400	1400
Dimensions interior WxDxH (mm)	600x665x1500	600x665x1500	1300x665x1500	1300x665x1500
Insulation (mm)	50	50	50	50
Temperature range (˚C)	+2°+8° +2°+15° upon request	-10°-25°	+2°+8° +2°+15° upon request	-10°-25°
Temperature setting accuracy (˚C)	0,1°C	0,1°C	0,1°C	0,1°C
Max. ambient temperature (˚C)	32°	32°	32°	32°
Type of cooling unit	Ventilated	Ventilated	Ventilated	Ventilated
Power supply (V)	220V/240V	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz	50Hz
Power consumption (KW)	335	510	440	780
Weight (KG)	105	115	170	180
Shipping weight (KG)	120	130	190	200
Shipping dimensions WxDxH (mm)	790x860x2260	790x860x2260	1500x860x2260	1500x860x2260
No. of compressors.	1	1	1	1
Doors	1	1	2	2
Automatic defrost	yes	yes	yes	yes
Castors	optional	optional	optional	optional
Chart recorder	optional	optional	optional	optional
Shelves (pcs)	3	3	6	6
Lighting	yes	yes	yes	yes
Lock	yes	yes	yes	yes
Interior material	Antibacterial white powder coated steel	Antibacterial white powder coated steel	Antibacterial white powder coated steel	Antibacterial white powder coated steel
Exterior material	white powder coated steel	white powder coated steel	white powder coated steel	white powder coated steel
Refrigerant	R404a	R404a	R404a	R404a

HIGH PERFORMANCE LABORATORY STORAGE COMPACT FORMAT

- **Standard controller**. Please see page 13 for description
- **DST Touch controller (Optional).** Please see page 14 for description
- **Ventilated cooling unit** with ventilated evaporator inside chamber
- **Automatic defrost** for better temperature uniformity.
- **Cyclopenthane insulation** 50 mm HCFC and CFC free, next-to-zero CO_2 emissions, extra durability.
- **Benchmark temperature uniformity** of +/-2,5°C from set point (for DS-SM40B/I in accordance with the norm NFX 15.140 and insertion of 9 probes).
- **LED lighting** for Glass doors. The best solution available in terms of power savings, life-time of parts and total appearance.
- **Rounded internal corners**. Easy to clean and maintain.
- **Forced-air cooling**. Powerful cooling unit and enforced ventilation ensure maximum temperature stability even with frequent door openings
- **Stainless steel interior**. Interior of stainless steel which is very durable and easy to clean material.
- **Removable door gaskets**. The cleaner are gaskets the longer they last!
- **Door lock with keys**
- **Adjustable feet**. It is possible to change a height of cabinets and undercounters by regulating a height of feet
- **Castors** available on request
- **Tropicalized compressors** designed for high ambient temperatures up to +16°C +40°C.
- **R404a coolant gas** as standard or R290 upon request.

LED lamps consume from 50 to 75% less energy than ventilated lamps.

Removable (magnetic) door gaskets

Adjustable powder coated steel shelf (standard for all models)

Optional wheel kit (2 with brakes)

Volt-free contact

Stainless Steel drawers (optional)

Door lock with keys as standard, USB port optional

Probe hole optional

Standard
Electronic controller with alarms and registration of last events.

Optional for standard Controller
Recorder of temperature and events with USB port

SOLID & GLASS DOOR REFRIGERATORS RANGE +2° +15°C

Model	DS-SLIM150NTVB-B	DS-SLIM150NTVGB-B
Dimensions exterior WxDxH (mm)	62,5X70X85	62,5X70X85
Capacity (L)	150	150
Insulation (mm)	40	40
Temperature range (˚C)	+2° / +8°C fino a +15°C	+2° / +8°C fino a +15°C
Max. ambient temperature (˚C)	from +16° to +32°C	from +16° to +32°C
Type of cooling	ventilated	ventilated
Power supply (V)	220-240	220-240
Frequency (Hz)	50	50
Power consumption, KW	217	217
Weight (KG)	55	65
No. of compressors.	1	1
Automatic defrost	automatic	automatic
Castors	si	si
Chart recorder	optional	optional
Shelves (pcs)	2	2
Lock	si	si
Internal lighting	no	si
Interior material	stainless steel	stainless steel
Exterior material	white powder coated steel	white powder coated steel
Refrigerant	R290	R290

REFRIGERATORS & FREEZERS
RANGE +2° +15°C / -10° -25°C

DS-SM40B/I, DS-SB40B/I

DS-SM40GB/I, DS-SB40GB/I

Upright cabinets with solid and glass door			Glass door
Model	**DS-SM40B/I**	**DS-SB40B/I**	**DS-SM40GB/I**
Dimensions exterior WxDxH (mm)	600x600x1900	600x600x1900	600x600x1900
Capacity (L)	400	400	400
Dimensions interior WxDxH (mm)	500x500x1350	500x500x1350	500x500x1350
Insulation (mm)	50	50	50
Temperature range (˚C)	+2°+8° +2°+15° upon request	-10°-25°	+2°+8° +2°+15° upon request
Temperature setting accuracy (˚C)	0,1°C	0,1°C	0,1°C
Max. ambient temperature (˚C)	+16°C +40°C	+16°C +40°C	+16°C +40°C
Type of cooling unit	Ventilated	Ventilated	Ventilated
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (KW)	270	363	330
Weight (KG)	65	70	75
Shipping weight (KG)	75	80	85
Shipping dimensions WxDxH (mm)	640x640x2050	640x640x2050	640x640x2050
No. of compressors.	1	1	1
Doors	1	1	1
Automatic defrost	yes	yes	yes
Castors	optional	optional	optional
Chart recorder	optional	optional	optional
Shelves (pcs)	3	3	3
Lighting	optional	optional	yes
Lock	yes	yes	yes
Interior material	s/steel	s/steel	s/steel
Exterior material	white powder coated steel	white powder coated steel	white powder coated steel
Refrigerant	R290	R290	R290

DOUBLE GLASS DOOR REFRIGERATORS
DOUBLE TEMPERATURES +2° +8°C / +8° +15°C

Upright cabinets with double glass door	
Model	**DS-SM40GB/I**
Dimensions exterior WxDxH (mm)	600x600x1900
Capacity (L)	400
Dimensions interior WxDxH (mm)	500x500x1350
Insulation (mm)	50
Temperature range (˚C)	+2°+8° / +2° +8°C (+2°+15° upon request)
Temperature setting accuracy (˚C)	0,1°C
Max. ambient temperature (˚C)	+16°C +40°C
Type of cooling unit	Ventilated
Power supply (V)	220V/240V
Frequency (Hz)	50Hz
Power consumption (KW)	330
Weight (KG)	75
Shipping weight (KG)	85
Shipping dimensions WxDxH (mm)	640x640x2050
No. of compressors.	2
Glass Doors	2
Automatic defrost	yes
Castors	optional
Chart recorder	optional
Shelves (pcs)	nr. 4 (2 per compartment)
Lighting	yes
Lock	yes
Interior material	s/steel
Exterior material	white powder coated steel
Refrigerant	R290