

General Catalogue

A DEEP EXPERIENCE IN PROFESSIONAL REFRIGERATION AND SUPERIOR ITALIAN DESIGN



Desmon S.p.A was founded in 1994 by the family De Santis as a food equipment trading company. In 1998 the company has taken over a local manufacturing company and started production of refrigeration equipment. After a few successful years the company became one of the leaders in the European market of professional refrigeration.

The main production facilities with office, laboratories and warehouse are located in Nusco, a town at the center-south of Italy, 98km from Naples' port. The production of professional refrigeration equipment is concentrated in the main factories in Italy. Other factories are situated in India and China where products intended for local markets are manufactured. Besides production facilities Desmon group includes three distribution centers in France, UK and Germany. The research-and-development company "Smartfreeze" is also a part of Desmon.

Based upon deep experience in production of professional refrigeration the company has decided to diversify its traditional range and launch a new line, "Desmon Scientific", of products designed for professional medical, pharma and laboratory cold storage and deep freezing with working temperatures from -85° to +16°C.

The quality of our products is based upon continuous technological innovation and long experience in production of professional refrigeration. All models are designed and manufactured in accordance with ISO9001:2008 standard and CE safety regulations. Desmon factories in Italy are certified by ISO14001:2004



HEAVY-DUTY UPRIGHT CABINETS, UNDERCOUNTERS AND WALK-IN COLD ROOMS -40°C TO +16°C

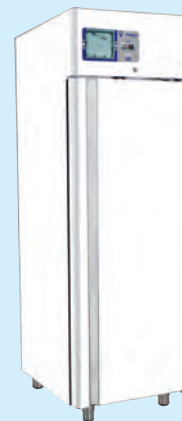
“Desmon Scientific” proposes a wide range of professional refrigerators, freezers and walk-in cold rooms with operational temperatures from -40°C to +16°C for preservation pharmaceutical and diagnostic products, vaccines and sera, biological materials and conservations of industrial products. Main applications are in medical institutions and scientific research laboratories

We clearly understand that every laboratory is different and each customer is unique. That is why our variety of refrigerators and freezers is one of the widest in the market. Every customer can choose its ideal model. Products are divided into the following series:

- Upright cabinets “LAB Pro”: an interior of stainless steel, exterior is made of white powder coated steel, 100, 80 and 60mm insulation, volumes 100, 160, 200, 220, 300, 320, 600, 180+100, cooling unit traditional and tropicalized compressor. The working temperatures are -40°C, -30°C, -25°C, +4°C and +4/-25°C
- Upright cabinets “LAB Maxi”: an interior of stainless steel, exterior is made of stainless steel or white powder coated steel, 60mm insulation, volumes 700, 1400, 2100, 350+350 and 700+700l, “monoblock” cooling unit and tropicalized compressor. The working temperatures are -25°C, +4°C and +4/-25°C
- Upright cabinets “LAB Sani” series: an interior is made of steel with antibacterial properties and exterior of white powder coated steel, 50mm insulation, volumes 700 and 1400l, traditional cooling unit and non-tropicalized compressor. The working temperatures are -25°C, +4°C.
- Upright cabinets “LAB Mini” series: an interior of stainless steel, exterior white powder coated steel, 50mm insulation, 400l, traditional cooling unit and tropicalized compressor. The working temperatures are -25°C, +4°C.
- Under counter fridges and freezers: horizontal refrigerators and freezers with a work top made of stainless steel, interior and exterior are made of stainless steel, 60mm insulation, volumes 280l (2 doors), 441 (3 doors) and 602l (4 doors). ***It is an innovative solution for laboratories which allows to have a fridge (freezer) and work table in one unit!*** The working temperatures are -25°C, +4°C
- Walk-in cold rooms: internal volumes from 1.86 to 45.47cub.m., T range -10°C -25°C, +2°C +8°C and +2°C +16°C, panel thicknesses 80 and 100mm, panels are made of white powder coated steel as standard or stainless steel upon request, insulation of panels with high density polyurethane CFC/ HCFC free, more than 200 models available in total.



LAB Pro



LAB Maxi



LAB Sani
(wheels optional)



LAB Mini
(wheels optional)



ENVIRONMENTALLY FRIENDLY REFRIGERATION

Energy Saving & Low Emission

HCFCs & CFCs Free

Respect for the environment is in DNA of Desmon and confirmed by decades of continuous improvement and implementation of environmentally efficient production processes. Desmon is always careful on every single step of a product life cycle, from design to disposal, having in mind an intention to reduce an impact on environment and create benefits for customers from decreasing energy costs. Desmon has obtained ISO-14001 certificate for a commitment to respect an environment on every stage of business activity.

Desmon is probably the first manufacturer of commercial refrigeration in the world using cyclopentane. Desmon products have a Cyclopentane thermoinsulation which does not damage an ozone layer and does not make a greenhouse effect. Cyclopentane replaces polyurethane foams based on HCFCs and CFCs which destroy an ozone layer and generate the greenhouse effect.

Desmon is constantly searching for new solutions to create products with a minimum negative impact on environment. Among those solutions Desmon develops a refrigeration units which will use a natural gas R290 (propane).

Desmon refrigeration equipment of "High-efficiency" line (available upon request) is heavy-duty and guarantees a high performance even in intensive work conditions, reducing environmental impact and energy consumption, up to 70%. It is possible to save up to 1,000 euros in 2 years of operations compared to other classic refrigerators available in the market. For standard range of refrigerators such features as insulation thickness, "monoblock" cooling units, LED lighting, new controller "VOPOS", etc. allows to guarantee an optimal performance and respect to environment.

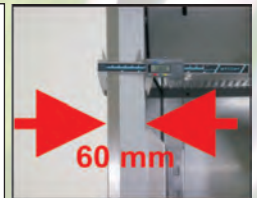
Energy is one of key factors because, for example, one Kw/h saved thanks to our innovative features means not only money savings but also 580gr of CO₂ not issued to atmosphere. In general, CO₂ emissions of Desmon products are 40% less than other products available at the market. Due to low power consumption our refrigerator produces an average of 1.36kg of CO₂ per day instead of 2.90kg of our competitors. In 1 year period every two Desmon refrigerators will free a CO₂ processing job of one tree.



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



"Monoblock" cooling units (LAB Maxi)



Cyclopentane thermoinsulation CFC & HCFC free (LAB Maxi)



New controller "VOPOS" (LAB MAXi, LAB Sani, LAB Mini)



FEATURES OF LAB PRO UPRIGHT CABINETS

- **New controller.** Microprocessor control panel with touch screen and easy-to-read digital display showing inside temperature and equipped with PT100 probe. Adjustable and visual alarms include: high and low temperature, open door, condenser efficiency, damaged probes, power failure (optional), low battery (optional), RS232-485 serial port for PC, LAN port, datalogger with multimedia card (SD).
- **Refrigeration system.** Completely sealed, silent and very efficient hermetic compressor and ventilated air condenser. Internal compartment static evaporator (ventilated evaporator for DS-SB..., DS-FS... and DS-AF... series), CFC-free refrigerant. Evaporator fan stops during door opening.
- **Defrosting.** Manual defrosting cycle for DS-CV... and DS-CL60B and automatic for DS-SB..., DS-FS..., DS-PN..., DS-AF...
- **Temperature range.** -40°C for DS-CL60B, -30°C for DS-CV..., -25°C for DS-SB10B, +4° for DS-SB10(V) and DS-FS..., +4/-25°C for DS-FC39(V)/2.
- **Rounded internal corners.** Easy to clean and maintain.
- **LED lighting.** LED lamps with automatic or manual switch
- **Stainless steel interior.** All upright cabinets have an interior of stainless steel which is very durable and easy to clean material.
- **External structure.** External structure in hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.
- **Door.** Self-closing solid or glass door with folding magnetic gasket on four sides for perfect closing. Right or left hand opening on request. Lock with a key.
- **Drawers and shelves.** For DS-SB10B, DS-CV..., DS-CL60B sliding drawers are standard, for other models - optional. Drawers and shelves are made of s/steel AISI304. Standard shelves are solid and have borders.
- **Wheels and feet.** Four one-way wheels and two stabilizing adjustable feet
- **Optional.** Sliding drawers in AISI304 scotch-brite stainless steel and transparent frontal side, internal dividers for drawers, smooth shelves with borders, weekly temperature chart recorder, back-up battery and SMS alerts.



Rounded internal corners



Removable (magnetic) door gaskets



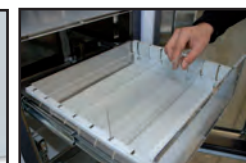
Adjustable s/steel shelf (standard for refrigerators)



S/steel Drawers (standard for freezers)



Standard wheel kit



Optional dividers for drawers



Standard ports



Switching on/off with a key



Microprocessor Control Panel with touch screen and easy-to-read digital display. The unit is switched on and off by means of a key to use it under supervision.

Power control with key	yes
Internal lighting management	yes
Datalogger multimedia card	yes
Power failure alarm	yes (with back-up battery)
Adjustable high/low temperature alarm	yes
Open door alarm	yes
Probe failure alarm	yes
SMS alerts	optional
Remote contact (dry, volt-free) for alarm	yes
Back-up battery 12V for control panel	optional
RS 485 - 232 interface	yes
LAN port	yes
Memory for last alarms	yes

TECHNICAL SPECIFICATION SOLID DOOR CABINETS



Freezers

Model	DS-CL60B	DS-CV6
Dimensions exterior WxDxH (mm)	780x840x1930	640x620x1939
Net capacity (L)	600	320
Insulation (mm)	100	80
Temperature range (°C)	-40°C	-30°C
Max. ambient temperature (°C)	43°	43°
Refrigeration type	Static	Static
Power supply (V)	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz
Power consumption (W)	295	220
Weight (KG)	173	115
Shipping weight (KG)	186	128
Shipping dimensions WxDxH (mm)	860x910x2170	700x680x2120
No. of compressors.	1	1
Doors	1	1
Defrost type	Manual	Manual
Wheels	Standard	Standard
Chart recorder	optional	optional
Drawers (pcs)	6	6
Lock	yes	yes
Interior material	s/steel AISI304	s/steel AISI304
Exterior material	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.
Refrigerant	R404A	R404A

TECHNICAL SPECIFICATION SOLID DOOR CABINETS



DS-CV4



DS-CV3



DS-SB10B

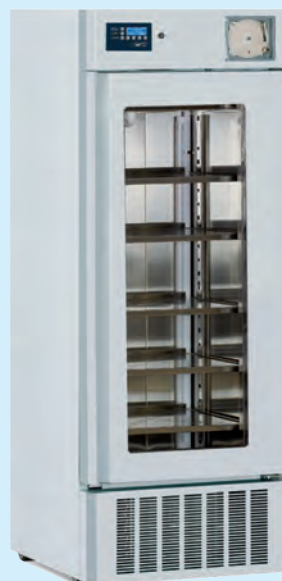
DS-CV4	DS-CV3	DS-SB10B
640x620x1539	640x620x1339	600x600x850
220	160	100
80	80	60
-30°C	-30°C	-10° -25°C
43°	43°	43°
Static	Static	Ventilated
220V/240V	220V/240V	220V/240V
50Hz	50Hz	50Hz
220	220	220
94	85	81
105	96	92
700x680x1720	700x680x1720	700x680x1000
1	1	1
1	1	1
Manual	Manual	Automatic
Standard	Standard	Standard
optional	optional	optional
4	3	2
yes	yes	yes
s/steel AISI304	s/steel AISI304	s/steel AISI304
hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.
R404A	R404A	R404A

TECHNICAL SPECIFICATION UPRIGHT CABINETS

All models
+4°C



DS-FS30



DS-FS30V



DS-FS20

Refrigerators

Model	DS-FS30	DS-FS30V	DS-FS20
Dimensions exterior WxDxH (mm)	600x600x1935	600x600x1935	600x600x1535
Net capacity (L)	300	300	200
Insulation (mm)	60	60	60
Temperature range (°C)	+2° +10°	+2° +10°	+2° +10°
Max. ambient temperature (°C)	43°	43°	43°
Refrigeration type	Ventilated	Ventilated	Ventilated
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (W)	295	295	245
Weight (KG)	104	113	85
Shipping weight (KG)	117	126	96
Shipping dimensions WxDxH (mm)	700x680x2120	700x680x2120	700x680x1720
No. of compressors.	1	1	1
Doors	1	1 glass	1
Defrost type	Automatic	Automatic	Automatic
Wheels	Standard	Standard	Standard
Chart recorder	optional	optional	optional
Shelves (pcs)	5	5	3
Lighting	yes	yes	yes
Lock	yes	yes	yes
Interior material	s/steel AISI304	s/steel AISI304	s/steel AISI304
Exterior material	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.
Refrigerant	R404A	R404A	R404A

TECHNICAL SPECIFICATION UPRIGHT CABINETS

All models
+4°C



DS-FS20V



DS-SB10



DS-SB10V

DS-FS20V	DS-SB10	DS-SB10V
600x600x1535	600x600x850	600x600x850
200	100	100
60	60	60
+2° +10°	+2° +10°	+2° +10°
43°	43°	43°
Ventilated	Ventilated	Ventilated
220V/240V	220V/240V	220V/240V
50Hz	50Hz	50Hz
245	245	245
91	73	76
102	84	87
700x680x1720	700x680x1000	700x680x1000
1	1	1
1 glass	1	1 glass
Automatic	Automatic	Automatic
Standard	Standard	Standard
optional	optional	optional
3	2	2
yes	yes	yes
yes	yes	yes
s/steel AISI304	s/steel AISI304	s/steel AISI304
hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.
R404A	R404A	R404A

TECHNICAL SPECIFICATION DUAL-TEMPERATURE CABINETS

All models
+4/-25°C



DS-FC39/2



DS-FC39V/2

Dual-Temperature refrigerator/freezer

Model	DS-FC39/2	DS-FC39V/2
Dimensions exterior WxDxH (mm)	600x600x1935	600x600x1935
Net capacity (Refrigerator / Freezer) (L)	180 / 100	180 / 100
Insulation (mm)	60	60
Temperature range (°C)	+2° +10° / -10° -25°C	+2° +10° / -10° -25°C
Max. ambient temperature (°C)	43°	43°
Refrigeration type (Refrigerator / Freezer)	Ventilated / Static	Ventilated / Static
Power supply (V)	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz
Power consumption (W)	300	300
Weight (KG)	121	125
Shipping weight (KG)	134	138
Shipping dimensions WxDxH (mm)	700x680x2120	700x680x2120
No. of compressors.	2	2
Doors	2	1 glass, 1 solid
Defrost type (Refrigerator / Freezer)	Automatic / Manual	Automatic / Manual
Wheels	Standard	Standard
Chart recorder	optional	optional
Shelves / Drawers (Refrigerator / Freezer) (pcs)	3 / 2	3 / 2
Lighting	yes	yes
Lock	yes	yes
Interior material	s/steel AISI304	s/steel AISI304
Exterior material	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.	hot-dip galvanised steel, anti-corrosion treated and white PVC film coated.
Refrigerant	R404A	R404A

GENERAL SALES CONDITIONS

1. ORDERS

ALL ORDERS ARE ACCEPTED AFTER OUR APPROVAL AND ARE SUBJECTED TO THE FOLLOWING GENERAL SALES CONDITIONS, FULLY ACCEPTED BY THE BUYER.

2. FORWARDING

THE DELIVERY DATES ARE NONBINDING AND CAN BE CHANGED BY THE SELLER, FOR EXTERNAL OR INTERNAL CAUSES.

EVENTUAL DELAY WILL NOT AUTHORISE THE CUSTOMER TO CLAIM, PRETEND COMPENSATION OR FOR RESCISSION AND MODIFICATION OF THE CONTRACT, EXCEPT IF COMPRISED IN ART. 1229 C.C. THE TRANSPORT OF THE GOODS IS AT CUSTOMER RISK, EVEN IF DELIVERED DIRECTLY TO THE USER AND THEY AREN'T ASSURED WITHOUT SPECIAL WISH OF THE CUSTOMER. THE DELIVERY IS CONSIDERED COMPLETED WITH THE LOADING OF THE GOODS, WHETHER CARRIED OUT BY THE CUSTOMER OR AN ASSIGNED CARRIER; THE SELLER DECLINES ANY RESPONSIBILITY FOR EVENTUAL DIFFERENCES, DEFORMITY OR DAMAGES INDIVIDUATED AFTER HANDING OVER THE GOODS AT THE FACTORY. ANY COMPLAINT RELATIVE TO QUANTITY, DEFECTS OR ANY OTHER REASON, MUST BE ANNOTATED ON THE CARRIAGE NOTE, OTHERWISE ANY CLAIMS WILL BE REJECTED. THE GOODS WILL BE PACKED NORMALLY, SPECIAL PACKING ON REQUEST WILL BE CHARGED.

3. PRICES

THE PRICES REFER TO THE LATEST FACTORY PRICELIST, EXCEPT FOR SPECIAL AGREEMENTS, AND MAY BE CHANGED AT ANY TIME. FOR THE ITEMS NOT INCLUDED IN THE PRICE LIST AND TO BE PRODUCE ON REQUEST (FOLLOWING USER'S DETAILED DRAWINGS AND TECHNICAL DESCRIPTION), WE'LL FORMULATE PRICES AND DELIVERY TIME IN FUNCTION OF THE QUANTITY REQUIRED. OUR PRICES ARE QUOTED EX WORKS OUR FACTORIES.

4. PAYMENT

ALL PAYMENTS MUST BE EFFECTED AT THE SELLER'S PLACE OF BUSINESS. ALL EXPENSES DUE TO EMISSION AND RETURNS OF BANK RECEIPTS WILL BE AT BUYER'S CHARGE. THE TERMS OF PAYMENT ARE ALWAYS BINDING. IN CASE OF DELAYED PAYMENT A RATE OF 7 PER CENT INTEREST WILL BE SURCHARGED, PLUS THE ACTUAL ECB INTEREST RATE OR THE RESPECTIVE CENTRAL BANKS IN CASE OF NON-EURO COUNTRIES. THE SELLER'S RIGHT TO COMPENSATION FOR BANK CHARGES, ADMINISTRATIVE OR LEGAL COSTS AND EVENTUAL THIRD PARTY COSTS REMAINS UNTOUCHED. IN CASE OF NON-FULFILMENT THE SELLER MAY TAKE ANY APPROPRIATE MEASURE TO OBTAIN COMPLETE PAYMENT, CANCELLING THE PAYMENT TERMS, AS FOR THE EFFECTS OF ART. 1186 C.C. AND ANNULING THE CONTRACT, STOPPING ITS PROSECUTION AND DELIVERY OF GOODS IN ORDER, ALSO RELATING TO OTHER CONTRACTS, WITHOUT ANY BUYER'S COMPENSATION FOR THE CANCELLED DELIVERY.

5. GUARANTEE

OUR GUARANTEE HAS A 24 MONTHS' VALIDITY FROM DELIVERY EX WORKS AND COVERS THE MERE REPLACEMENT OF PARTS, ELECTRIC PARTS NOT INCLUDED, AND AFFECTING ONLY CONSTRUCTING FAULTS, AS DESCRIBED IN THE LETTER OF GUARANTEE. ALL GUARANTEED PARTS WILL BE SENT BY CARRIAGE FORWARD. THEY WILL BE BILLED REGULARLY. AFTER RECEIVING THE DEFECTIVE PARTS A CREDIT NOTE WILL BE MADE OUT.

6. MODIFICATIONS OF TECHNICAL CHARACTERISTICS

DIMENSIONS AND ALL TECHNICAL DATA IN CATALOGUES, OFFERS, ORDER CONFIRMATIONS AND IN THIS PRICE LIST ARE PURELY INDICATIVE.

THEY ARE SUBJECTED TO MODIFICATION WITHOUT NOTICE, IMPROVING QUALITY AND FUNCTIONALITY.

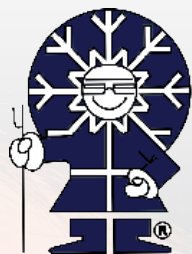
7. RESERVE OF PROPRIETARY RIGHTS

THE SELLER PRESERVES ALL PROPRIETARY RIGHTS PENDING PAYMENT IN FULL.

8. VENUE JURISDICTION

COURT OF AVELLINO, ITALY.

THESE SALES CONDITIONS ANNUL ALL THE PRECEDENT ONES WITHOUT ANY EXCEPTION, NO MODIFICATION WILL BE ACCEPTED WITHOUT ANY WRITTEN CONFIRMATION BY THE SELLER.



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