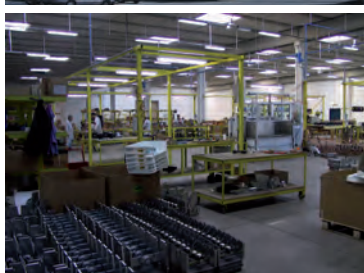


# General Catalogue



# 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.

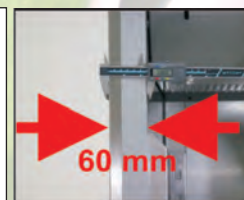
Energy is one of key factors because, for example, one Kw/h saved thanks to our innovative features means not only money savings but also 580gr of CO<sub>2</sub> not issued to atmosphere. In general, CO<sub>2</sub> emissions of Desmon products are 40% less than other products available at the market. Due to low power consumption our refrigerator produces an average of 1.36kg of CO<sub>2</sub> per day instead of 2.90kg of our competitors. In 1 year period every two Desmon refrigerators will free a CO<sub>2</sub> 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



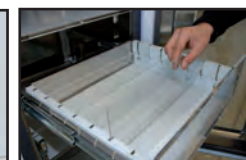
Adjustable s/steel shelf (standard for refrigerators)



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

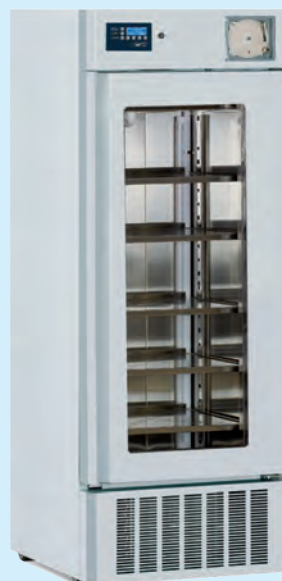
DS-CV4	DS-CV3	DS-SB10B
640x620x1539	640x620x1339	600x600x850
220	160	100
80	80	60
-30°C	-30°C	-10° -25°C
43°	43°	43°
Static	Static	Ventilated
220V/240V	220V/240V	220V/240V
50Hz	50Hz	50Hz
220	220	220
94	85	81
105	96	92
700x680x1720	700x680x1720	700x680x1000
1	1	1
1	1	1
Manual	Manual	Automatic
Standard	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



## FEATURES OF LAB MAXI UPRIGHT CABINETS

- **New controller.** It is perfectly suitable for medical and laboratory use and has many innovative features, for example an calculation of power consumption in currency, running text messages, water and dust resistant touch-pad, USB port, memory for a fridge' components and parts, etc. The controller is perfectly adoptable to be used together with a "Smartfreeze" unit (SFU) which provides a constant monitoring and control over refrigeration fleet by virtue of GSM/GPRS networks and SMS alerts.
- **"Monoblock" cooling unit.** Upright cabinets from "LAB Maxi" (not for "LAB Sani" and "LAB Mini") have a "monoblock" unit. The refrigeration components are integrated in the ceiling area and there is much of additional storage space inside a cabinet.
- **Auto-evaporation** of condensed water. 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.
- **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 cycle of defrosting is very short. As a result the temperature remains almost constant. No need of extra heating elements which means less energy consumption !
- **"Smart" defrost.** It is a feature of new VOPOS controller which allows a defrosting only when necessary – great energy savings!
- **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 (for "LAB Maxi" models)
- **Stainless steel interior.** All upright cabinets and undercounters except "LAB Sani" have an interior of stainless steel which is very durable and easy to clean material.
- **Removable door gaskets.** The cleaner are gaskets the longer they last!
- **Adjustable feet.** It is possible to change a height of cabinets and undercounters by regulating a height of feet



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



Rounded internal corners

Removable (magnetic) door gaskets



Adjustable powder coated steel shelf (standard for all models)

Adjustable legs (s/steel for LAB Maxi, plastic for LAB Sani and Mini)



Optional wheel kit (2 with brakes)

"Monoblock" cooling units (LAB Maxi)



New controller "VOPOS" (LAB Maxi, LAB Sani, LAB Mini, Blood Bank "Maxi")



Optional Smartfreeze unit (SFU) for remote control via Internet and sending SMS alerts

## HCFCs & CFCs Free

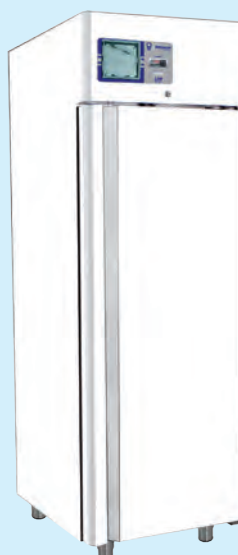
Max. number of probes	3 (3+1 with SFU)
Internal lighting management	yes
Data log function	yes
Power failure alarm	yes (with back-up battery)
Adjustable high/low temperature alarm	yes
Open door alarm	yes
Probe failure alarm	yes
Alarm displayed as text not codes	yes
Remote contact (dry, volt-free) for alarm	yes
Back-up battery 12V for control panel	optional, standard with SFU
RS 485 interface	yes
USB port	yes
Memory for last alarms	yes

## TECHNICAL SPECIFICATION SOLID DOOR CABINETS

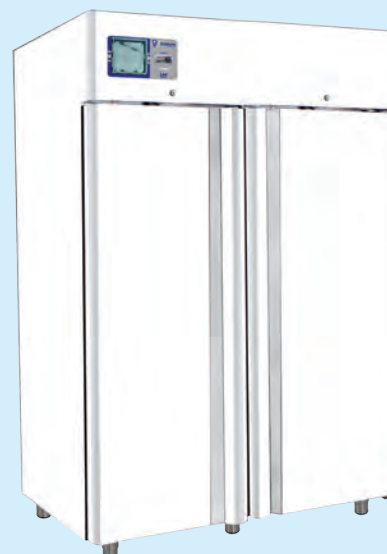
### Optional



GSM/GPRS module "SFU" for sending SMS alerts & Remote control via web



DS-GM7B/I, DS-GB7B/I



DS-GM14B/I, DS-GB14B/I

### Upright cabinets with solid doors

Model	DS-GM7 DS-GM7B/I	DS-GB7 DS-GB7B/I	DS-GM14 DS-GM14B/I
Dimensions exterior WxDxH (mm)	720x800x2120	720x800x2120	1440x800x2120
Net capacity (L)	700	700	1400
Dimensions interior WxDxH (mm)	600x665x1520	600x665x1520	1320x665x1520
Insulation (mm)	60	60	60
Temperature range (°C)	+2°+8°, +2°+16°	-10°-25°	+2°+8°, +2°+16°
Temperature setting accuracy (°C)	0,1°C	0,1°C	0,1°C
Max. ambient temperature (°C)	43°	43°	43°
Type of cooling unit	Monoblock	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (W)	335	510	440
Weight (KG)	115	115	182
Shipping weight (KG)	130	130	202
Shipping dimensions WxDxH (mm)	790x860x2280	790x860x2280	1500x860x2280
No. of compressors.	1	1	1
Doors	1	1	2
Automatic (smart) defrost and evaporation	yes	yes	yes
Castors	optional	optional	optional
Chart recorder	optional	optional	optional
Shelves (pcs)	3	3	6
Lighting	yes	yes	yes
Lock	yes	yes	yes
Interior material	s/steel AISI304	s/steel AISI304	s/steel AISI304
Exterior material	s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model "...B/I" - white powder coated steel )
Refrigerant	R404A	R404A	R404A



## TECHNICAL SPECIFICATION SOLID DOOR CABINETS



DS-GM21, DS-GB21



DS-GMB7, DS-GMB7



DS-GMB14, DS-GMB14

DS-GB14 DS-GB14B/I	DS-GM21 DS-GM21B/I	DS-GB21 DS-GB21B/I	DS-GMB7, DS-GMB7B/I	DS-GMB14 DS-GMB14B/I
1440x800x2120	2160x800x2120	2160x800x2120	720x800x2120	1440x800x2120
1400	2100	2100	350+350	700+700
1320x665x1520	2040x665x1520	2040x665x1520	600x665x1520	1320x665x1520
60	60	60	60	60
-10°-25°	+2°+8°, +2°+16°	-10°-25°	+2°+8°, +2°+16°	-10°-25°
0,1°C	0,1°C	0,1°C	0,1°C	0,1°C
43°	43°	43°	43°	43°
Monoblock	Monoblock	Monoblock	Traditional	Monoblock
220V/240V	220V/240V	220V/240V	220V/240V	220V/240V
50Hz	50Hz	50Hz	50Hz	50Hz
780	600	1000	270 - 363	335 - 510
185	270	270	145	205
205	295	295	160	225
1500x860x2280	2200x840x2280	2200x840x2280	790x860x2280	1500x860x2280
1	1	1	2	2
2	3	3	2 half	2
yes	yes	yes	yes	yes
optional	optional	optional	optional	optional
optional	optional	optional	optional	optional
6	9	9	4	6
yes	yes	yes	yes	yes
yes	yes	yes	yes	yes
s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304
s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )
R404A	R404A	R404A	R404A	R404A

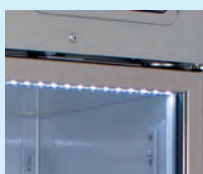
### TECHNICAL SPECIFICATION GLASS DOOR CABINETS

#### Optional



GSM/GPRS module "SFU" for sending SMS alerts & Remote control via web

#### Standard



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



DS-GM7GB/I, DS-GB7GB/I



DS-GM14GB/I, DS-GB14GB/I

#### Upright cabinets with glass doors

Model	DS-GM7G DS-GM7GB/I	DS-GB7G DS-GB7GB/I	DS-GM14G DS-GM14GB/I
Dimensions exterior WxDxH (mm)	720x800x2120	720x800x2120	1440x800x2120
Net capacity (L)	700	700	1400
Dimensions interior WxDxH (mm)	600x665x1520	600x665x1520	1320x665x1520
Insulation (mm)	60	60	60
Temperature range (°C)	+2°+8°, +2°+16°	-10°-25°	+2°+8°, +2°+16°
Temperature setting accuracy (°C)	0,1°C	0,1°C	0,1°C
Max. ambient temperature (°C)	43°	43°	43°
Type of cooling unit	Monoblock	Monoblock	Monoblock
Power supply (V)	220V/240V	220V/240V	220V/240V
Frequency (Hz)	50Hz	50Hz	50Hz
Power consumption (W)	440	738	600
Weight (KG)	125	145	215
Shipping weight (KG)	140	160	235
Shipping dimensions WxDxH (mm)	790x860x2280	790x860x2280	1500x860x2280
No. of compressors.	1	1	1
Doors	1	1	2
Automatic (smart) defrost and evaporation	yes	yes	yes
Castors	optional	optional	optional
Chart recorder	optional	optional	optional
Shelves (pcs)	3	3	6
Lighting	yes	yes	yes
Lock	yes	yes	yes
Interior material	s/steel AISI304	s/steel AISI304	s/steel AISI304
Exterior material	s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )
Refrigerant	R404A	R404A	R404A



## TECHNICAL SPECIFICATION GLASS DOOR CABINETS



DS-GM21GB/I



DS-GMB7GB/I, DS-GMB7GB/I



DS-GMB14GB/I, DS-GMB14GB/I

DS-GB14G DS-GB14GB/I	DS-GM21G, DS-GM21GB/I	DS-GMB7G DS-GMB7GB/I	DS-GMB14G DS-GMB14GB/I
1440x800x2120	2160x800x2120	720x800x2120	1440x800x2120
1400	2100	350+350	700+700
1320x665x1520	2040x665x1520	600x665x1520	1320x665x1520
60	60	60	60
-10°-25°	+2°+8°, +2°+16°	+2°+8°, +2°+16° -10°-25°	+2°+8°, +2°+16° -10°-25°
0,1°C	0,1°C	0,1°C	0,1°C
43°	43°	43°	43°
Monoblock	Monoblock	Traditional	Monoblock
220V/240V	220V/240V	220V/240V	220V/240V
50Hz	50Hz	50Hz	50Hz
1000	800	290 - 380	440 - 738
240	315	165	240
260	340	180	260
1500x860x2280	2200x840x2280	790x860x2280	1500x860x2280
1	1	2	2
2	3	2 half	2
yes	yes	yes	yes
optional	optional	optional	optional
optional	optional	optional	optional
6	9	4	6
yes	yes	yes	yes
yes	yes	yes	yes
s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304
s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )	s/steel AISI304 (for model ...B/I - white powder coated steel )
R404A	R404A	R404A	R404A

### TECHNICAL SPECIFICATION “LAB SANI”



Antibacterial  
steel interior!

(wheels optional)



DS-BM7PR, DS-BB7PR



DS-BM14PR, DS-BB14PR

(wheels optional)

#### Upright cabinets with solid door

Model	DS-BM7PR	DS-BB7PR	DS-BM14PR	DS-BB14PR
Dimensions exterior WxDxH (mm)	700x800x2080	700x800x2080	1400x800x2080	1400x800x2080
Net 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°+16° upon request	-10°-25°	+2°+8° +2°+16° 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	Traditional	Traditional	Traditional	Traditional
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 (smart) defrost and evaporation	not	automatic defrost	not	automatic defrost
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

## TECHNICAL SPECIFICATION "LAB MINI"

(wheels optional)



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
Net capacity (L)	400	400	400
Dimensions interior WxDxH (mm)	500x500x1350	500x500x1350	500x500x1350
Insulation (mm)	50	50	50
Temperature range (°C)	+2°+8° +2°+16° upon request	-10°-25°	+2°+8° +2°+16° upon request
Temperature setting accuracy (°C)	0,1°C	0,1°C	0,1°C
Max. ambient temperature (°C)	43°	43°	43°
Type of cooling unit	Traditional	Traditional	Traditional
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 (smart) defrost and evaporation	automatic defrost	automatic defrost	automatic defrost
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	R404A	R404A	R404A



### TECHNICAL SPECIFICATION UNDERCOUNTER REFRIGERATOR



DS-TGM2, DS-TGB2



DS-TGM3, DS-TGB3



DS-TGM4, DS-TGB4

	Undercounter refrigerator			
Model	DS-TGM2	DS-TGM3	DS-TGM4	DS-TGM2G
Dimensions exterior WxDxH (mm)	1460x700x850	1945x700x850	2430x700x850	1460x700x850
Net capacity (L)	280	441	602	280
Insulation (mm)	60	60	60	60
Temperature range (°C)	+2°+8°, +2°+16°	+2°+8°, +2°+16°	+2°+8°, +2°+16°	+2°+8°, +2°+16°
Temperature setting accuracy (°C)	0,1°C	0,1°C	0,1°C	0,1°C
Max. ambient temperature (°C)	+43°C	+43°C	+43°C	+43°C
Type of cooling unit	Slide-out	Slide-out	Slide-out	Slide-out
Power supply (V)	220-240	220-240	220-240	220-240
Frequency (Hz)	50	50	50	50
Power consumption (KW)	270	330	448	290
Weight (KG)	130	160	190	140
Shipping weight (KG)	140	175	205	150
Shipping dimensions WxDxH (mm)	1500x740x1000	1980x740x1000	2470x740x1000	1500x740x1000
No. of compressors.	1	1	1	1
Doors	2 solid	3 solid	4 solid	2 glass
Automatic (smart) defrost and evaporation	yes	yes	yes	yes
Castors	optional	optional	optional	optional
Chart recorder	optional	optional	optional	optional
Shelves (pcs)	2	3	4	2
Lighting	no	no	no	yes
Lock	yes	yes	yes	yes
Interior material	s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304
Exterior material	s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304
Refrigerant	R404A	R404A	R404A	R404A

# TECHNICAL SPECIFICATION UNDERCOUNTER REFRIGERATOR



DS-TGM2G, DS-TGB2G



DS-TGM3G, DS-TGB3G

FRIDGE/FREEZER  
AND WORK TABLE  
ALL IN ONE!



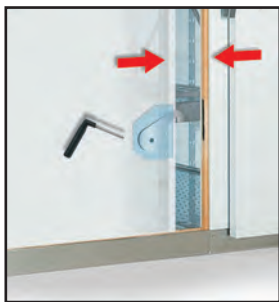
DS-TGM4G, DS-TGB4G

		Undercounter freezer		
DS-TGM3G	DS-TGM4G	DS-TGB2	DS-TGB3	DS-TGB4
1945x700x850	2430x700x850	1460x700x850	1945x700x850	2430x700x850
441	602	280	441	602
60	60	60	60	60
+2°+8°, +2°+16°	+2°+8°, +2°+16°	-10°-25°C	-10°-25°C	-10°-25°C
0,1°C	0,1°C	0,1°C	0,1°C	0,1°C
+43°C	+43°C	+43°C	+43°C	+43°C
Slide-out	Slide-out	Slide-out	Slide-out	Slide-out
220-240	220-240	220-240	220-240	220-240
50	50	50	50	50
350	480	363	477	477
170	210	135	170	200
190	230	145	185	220
1980x740x1000	2470x740x1000	1500x740x1000	1980x740x1000	2470x740x1000
1	1	1	1	
3 glass	4 glass	2 solid	3 solid	4 solid
yes	yes	yes	yes	yes
optional	optional	optional	optional	optional
optional	optional	optional	optional	optional
3	4	2	3	4
yes	yes	no	no	no
yes	yes	yes	yes	
s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304
s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304
R404A	R404A	R404A	R404A	R404A

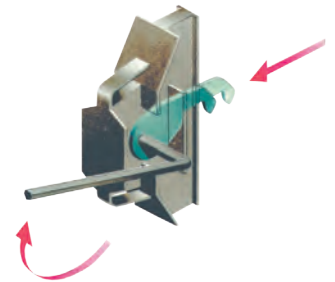
# Walk-in cold-rooms

**WALK-IN COLDROOMS FROM 2,94 TO 45 CUB.M**

## Easy and quick assembling



Walk-in coldroom with cooling unit "angle panel" (optional) and shelving system (optional)



## Features & Benefits

(mini-coldroom)

- 80 / 100 mm insulation - Great efficiency and strength
- Modular panels - Easily assembled and disassembled (typically 1 hour)
- Four panel sizes, 300/600/900/1200 and corner section 130x430 - Flexibility in coldroom size and position of the door
- Three heights, for 80: 2000/2160/2360; for 100: 2000/2200/2400;
- Double Action Camlock assembly/Panel interlocking - Perfect seal. No screws or panel cover strip.
- Floorless option available - Enables smooth access for trolleys etc..
- Rounded corners and stainless steel non slip floor reinforced with stainless steel bars (available on request) - Hygienic and easy to clean
- Door with large push in gasket and heater - Perfect seal. Gasket replaceable. No door frame condensation or sticking
- Stainless steel skirting board - Protects skirting adds to finish
- Saddle type refrigeration unit - Can be positioned in any wall
- 43 degree centigrade ambient - Will maintain temperatures in most environments
- Pressure Relief Valve Fitted to freezer and refrigerator - No blowing of door





Modularity of 300 mm



## TECHNICAL SPECIFICATION



Desmon produces a range of more than 200 standard models of Mini Cold-Rooms. The range is based on two lines: 80mm (3") and 100mm (3 3/4") of thickness; within these lines it's possible to choose the product that best fits your application: for capacity, dimensions, and or temperature range 0° +8°C (32°F /46,4°F) to 10° -25°C (14°F / -13°F). They are modular and are produced with panels of 80 mm and 100 mm of thickness. The range of models includes mini cold-rooms from 1,84m³ to 36 m³ of capacity. The internal and external finish is manufactured with metal sheet white skim-plated, ideal for alimentary ambience. The insulation of the modular panels is made with high density polyurethane, which is HCFC free. The assembly is fast and easy due to the integral locking system. The floor is plastic coated steel or in stainless steel properly formed (anti-sliding) with radial internal corners.

Model	Dimensions exterior	Volume	Doors***	Chart recorder	Lighting	Lock	Interior / Exterior material**	
	WxDxH ( )	(cub.m.) *	mm					
	DS-111720P	1160x1760x2000	2,94	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-112020P	1160x2060x2000	3,50	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-111723P	1160x1760x2360	3,52	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-112023P	1160x2060x2360	4,18	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-141720P	1460x1760x2000	3,83	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-142020P	1460x2060x2000	4,54	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-141723P	1460x1760x2360	4,58	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-142023P	1460x2060x2360	5,43	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-171720P	1760x1760x2000	4,71	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-172020P	1760x2060x2000	5,59	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-171723P	1760x1760x2360	5,63	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-172023P	1760x2060x2360	6,69	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-202020P	2060x2060x2000	6,64	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-202320P	2060x2360x2000	7,69	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-202023P	2060x2060x2360	7,94	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-202323P	2060x2360x2360	9,20	1 (710x1900)	optional	yes	yes	powder coated steel
	WxDxH ( )	(cub.m.) *	mm					
	DS-121820P	1200x1800x2040	3,01	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-122120P	1200x2100x2040	3,57	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-121824P	1200x1800x2400	3,52	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-122124P	1200x2100x2400	4,18	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-151820P	1500x1800x2040	3,83	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-152120P	1500x2100x2040	4,54	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-151824P	1500x1800x2400	4,58	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-152124P	1500x2100x2400	5,43	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-181820P	1800x1800x2040	4,71	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-182120P	1800x2100x2040	5,59	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-181824P	1800x1800x2400	5,63	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-182124P	1800x2100x2400	6,69	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-212120P	2100x2100x2040	6,64	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-212420P	2100x2400x2040	7,69	1 (710x1740)	optional	yes	yes	powder coated steel
	DS-212124P	2100x2100x2400	7,94	1 (710x1900)	optional	yes	yes	powder coated steel
	DS-212424P	2100x2400x2400	9,20	1 (710x1900)	optional	yes	yes	powder coated steel

\* - Models up to 45cub.m. available upon request - \*\* - stainless steel execution is optional - \*\*\* door of 1010mm aperture is an optional

# Cooling units

## COOLING UNITS FOR COLDROOMS

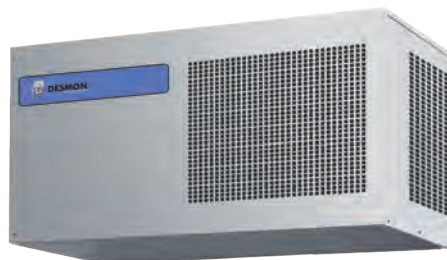
### Monoblock of “Angle panel” type



### Monoblock of “straddle” type



### Remote unit, “split” type



## TECHNICAL SPECIFICATION

### Monoblock of “Angle panel” type

Model	DS-M02-04AR	DS-M04-06AR	DS-M06-10AR	DS-B02-04AR	DS-B04-06AR	DS-B06-10AR
Volume served (cub.m.)	2-4	4-6	6-10	2-4	4-6	6-10
Temperature range (°C)	+2°+8°, +2°+16°	+2°+8°, +2°+16°	+2°+8°, +2°+16°	-10°-25°C	-10°-25°C	-10°-25°C
Max. ambient temperature (°C)	+43°C	+43°C	+43°C	+43°C	+43°C	+43°C
Power supply (V)	220-240	220-240	220-240	220-240	220-240	380-400
Frequency (Hz)	50	50	50	50	50	50
Power absorption (KW)	0,810	0,906	1,08	0,851	1,15	2,36
Shipping dimensions WxDxH (mm)	630x930x1980	630x930x1980	630x930x1980	630x930x1980	630x930x1980	630x930x1980
Shipping weight (KG)	110	110	115	120	120	130
No. of compressors.	1	1	1	1	1	1
Automatic (smart) defrost and evaporation	yes	yes	yes	yes	yes	yes
Refrigerant	R404A	R404A	R404A	R404A	R404A	R404A

### Monoblock of “straddle” type

Model	DS-M02-04	DS-M04-06	DS-M06-10	DS-B02-04	DS-B04-06	DS-B06-10
Volume served (cub.m.)	2-4	4-6	6-10	2-4	4-6	6-10
Temperature range (°C)	+2°+8°, +2°+16°	+2°+8°, +2°+16°	+2°+8°, +2°+16°	-10°-25°C	-10°-25°C	-10°-25°C
Max. ambient temperature (°C)	+43°C	+43°C	+43°C	+43°C	+43°C	+43°C
Power supply (V)	220-240	220-240	220-240	220-240	220-240	380-400
Frequency (Hz)	50	50	50	50	50	50
Power absorption (KW)	0,648	0,725	0,861	0,681	0,919	2,13
Shipping dimensions WxDxH (mm)	520x900x910	520x900x910	520x900x910	520x900x910	520x900x910	830x900x910
Shipping weight (KG)	50	55	70	70	70	90
No. of compressors.	1	1	1	1	1	1
Automatic (smart) defrost and evaporation	yes	yes	yes	yes	yes	yes
Refrigerant	R404A	R404A	R404A	R404A	R404A	R404A

### Remote unit, “split” type

Model	DS-M02-05R	DS-M05-07R	DS-M07-10R	DS-B02-04R	DS-B04-06R	DS-B06-10R
Volume served (cub.m.)	2-5	5-7	7-10	2-4	4-6	6-10
Temperature range (°C)	+2°+8°, +2°+16°	+2°+8°, +2°+16°	+2°+8°, +2°+16°	-10°-25°C	-10°-25°C	-10°-25°C
Max. ambient temperature (°C)	+43°C	+43°C	+43°C	+43°C	+43°C	+43°C
Power supply (V)	220-240	220-240	220-240	220-240	220-240	380-400
Frequency (Hz)	50	50	50	50	50	50
Power absorption (KW)	0,750	1,08	1,40	1,15	1,15	1,80
Shipping dimensions WxDxH (mm)	840x540x560 1220x530x270	840x540x560 1030x630x360	840x540x560 1280x630x360	840x540x560 1220x530x270	840x540x560 1030x630x360	840x540x560 1030x630x360
Shipping weight (KG)	40	40	40	45		
No. of compressors.	1	1	1	1	1	1
Automatic (smart) defrost and evaporation	yes	yes	yes	yes	yes	yes
Refrigerant	R404A	R404A	R404A	R404A	R404A	R404A



# ULT Freezer

## ULTRA-LOW TEMPERATURE FREEZERS -45°C AND -85°C, RAPID FREEZERS FOR BLOOD PLASMA (DOWN TO -80°C)

“Desmon Scientific” line includes a group of ULT freezers with temperatures -35°C /-50°C and -40°C /-85°C for long-term preservation of plasma, biological samples, enzymes, DNA, viruses, pharmaceutical and diagnostic products, vaccines and serum, industrial products. They could be used for functional tests as well. Main applications are in medical institutions, blood transfusion centers, pharmaceutical, chemical, biomedical and industrial laboratories. ULT models conform to a norm UNI EN 61010 (CEI 66-5) regarding a security of laboratory equipment. In addition to ULT freezers we can propose two models of rapid freezers for blood plasma with a vertical loading of bags and contact freezing down to -80°C.



### ***FREEZERS -45°C & -85°C***



Control panel of ULT freezer



Control panel of rapid freezer for blood plasma

- Vertical freezers -85°C: internal volumes 354, 505, 604 and 706l, interior is made of stainless steel, exterior – powder coated steel upon request, “cascade” cooling system

## FEATURES

- **Evaporator slab with cooling tubes under each shelf:** high refrigeration capacity, fast recovery time, minimum energy consumption
- **New controller.** It is equipped with an alphanumeric LCD display with two rows of text in 5 different languages; also data logger function; standard RS485; 2 RTD Pt 100 sensors, class A, one for T regulation, the other for T alarms
- **Triple door gasket.** It is an unique solution to improve substantially a stability of inside temperature, prevent air loss and avoid ice formation
- **Ergonomic door handle.** An opening is possible with one hand.
- **Insulation of cabinet.** Insulation in polyurethane with an average thickness of 140 mm. for maximum thermal protection and minimum power consumption
- **Two-stage,** CFC- and HCFC-free refrigeration system with R508B in the low T stage (natural HC refrigerant upon request). Two-stage system only for freezers -85°C.
- **Tubeless two-circuit condenser** with a unique design, very high thermal efficiency (>2600 W), max. reliability in critical environmental conditions
- **Auto-speed,** low-noise axial fans with angular velocity automatically adjusted to the condensation T
- **Stainless steel internal shelves.** Durable and easy to clean material.
- **Aluminium alloy internal doors.** Light and durable. 20mm thermoinsulation made of foamed polyurethane resin for maximum insulation and better internal T stability
- **Compensation valve** to equalize a difference between internal and external pressure when door is open and to guarantee easy repetitive openings within short time intervals.
- **Optional;** chart recorder, voltage stabilizer 4000VA, racks, CO2 backup system.





### TECHNICAL SPECIFICATION

#### Controller

Data log function	yes
Power failure alarm	yes
Adjustable high/low temperature alarm	yes
High pressure alarm	yes
Open door alarm	yes
Dirty evaporator alarm	yes
Probe failure alarm	yes
End of cycle alarm	no
Remote contact (dry, volt-free) for alarm	yes
Back-up battery 12V for control panel	yes
RS 485 interface	yes
Type of standard T probe	RTD Pt100 class A
Memory for last alarms	32



DS-K62PL

#### VERTICAL

Model	DS-K568PL	DS-K60PL	DS-K62PL	DS-K64PL
Dimensions exterior WxDxH (mm)	900x780x1990	970x960x1840	1060x900x1990	1060x1000x1990
Net capacity (L)	354	505	604	706
Dimensions interior WxDxH (mm)	600x450x1280	700x650x1110	800x590x1280	800x690x1280
Height between shelves (mm)	300	260	300	300
Insulation (mm)	140	140	140	140
Temperature range (°C)	-40°/-85°C	-40°/-85°C	-40°/-85°C	-40°/-85°C
Temperature setting accuracy	0,1°C	0,1°C	0,1°C	0,1°C
Max. ambient temperature (°C)	+35°C	+35°C	+35°C	+35°C
Type of cooling	surface condenser, tube-less execution	surface condenser, tube-less execution	surface condenser, tube-less execution	surface condenser, tube-less execution
Power supply (V)	220-240	220-240	220-240	220-240
Frequency (Hz)	50	50	50	50
Power consumption, KW	0,6	0,6	0,7	0,7
Noise level (DBA)	<55	<55	<55	<55
Weight (KG)	290	320	330	350
No. of compressors.	2	2	2	2
Automatic (smart) defrost and evaporation	automatic evaporation	automatic evaporation	automatic evaporation	automatic evaporation
Castors	yes	yes	yes	yes
Chart recorder	optional	optional	optional	optional
Shelves (pcs)	4	4	4	4
Lock	yes	yes	yes	yes
Interior material	s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304
Exterior material	Powder coated steel	Powder coated steel	Powder coated steel	Powder coated steel
Refrigerant	gas mixture	gas mixture	gas mixture	gas mixture



## TECHNICAL SPECIFICATION

### Controller

Data log function	yes
Power failure alarm	yes
Adjustable high/low temperature alarm	yes
High pressure alarm	yes
Open door alarm	yes
Dirty evaporator alarm	yes
Probe failure alarm	yes
End of cycle alarm	no
Remote contact (dry, volt-free) for alarm	yes
Back-up battery 12V for control panel	yes
RS 485 interface	yes
Type of standard T probe	RTD Pt100 class A
Memory for last alarms	32



	HORIZONTAL			
Model	DS-K54EPL	DS-K55PL	DS-K4054EPL	DS-K4055PL
Dimensions exterior WxDxH (mm)	1500x860x1240	1950x880x1120	1500x860x1240	1950x880x1120
Net capacity (L)	330	480	330	480
Dimensions interior WxDxH (mm)	1230x480x550	1220x520x750	1230x480x550	1220x520x750
Insulation (mm)	140	140	140	140
Temperature range (°C)	-40°/-85°C	-40°/-85°C	-35°/-50°C	-35°/-50°C
Temperature setting accuracy	0,1°C	0,1°C	0,1°C	0,1°C
Max. ambient temperature (°C)	+35°C	+35°C	+35°C	+35°C
Type of cooling	surface condenser, tubeless execution	surface condenser, tubeless execution	surface condenser, tubeless execution	surface condenser, tubeless execution
Power supply (V)	220-240	220-240	220-240	220-240
Frequency (Hz)	50	50	50	50
Power consumption, KW	0,41	0,8	0,26	0,35
Noise level (DBA)	<55	<55	<55	<55
Weight (KG)	300	350	270	320
No. of compressors.	2	2	1	1
Automatic (smart) defrost and evaporation	automatic evaporation	automatic evaporation	automatic evaporation	automatic evaporation
Castors	yes	yes	yes	yes
Chart recorder	optional	optional	optional	optional
Shelves (pcs)	2 compartments	2 compartments	2 compartments	2 compartments
Lock	yes	yes	yes	yes
Interior material	s/steel AISI304	s/steel AISI304	s/steel AISI304	s/steel AISI304
Exterior material	Powder coated steel	Powder coated steel	Powder coated steel	Powder coated steel
Refrigerant	gas mixture	gas mixture	gas mixture	gas mixture

### TECHNICAL SPECIFICATION

**DIRECT COOLING BY CONTACT!**  
**VERTICAL LOADING OF BAGS!**

#### Controller

Data log function	optional
Power failure alarm	yes
Adjustable high/low temperature alarm	yes
Open door alarm	optional
Probe failure alarm	no
End of cycle alarm	yes
Remote contact (dry, volt-free) for alarm	yes
Back-up battery 12V for control panel	yes
RS 485 interface	no
Type of standard T probe	RTD Pt100 class A
Memory for last alarms	n/a



DS-KPFF24B

#### RAPID FREEZER FOR BLOOD PLASMA

Model	DS-KPFF24B	DS-KPFF48B
Dimensions exterior WxDxH (mm)	1550x840x1260	2150x840x1260
Net capacity (L)	n/a	n/a
Number of bags, 450ml	24	48
Dimensions interior WxDxH (mm)	n/a	n/a
Insulation (mm)	140	140
Temperature range (°C)	-75°/-80°C	-75°/-80°C
Temperature setting accuracy (°C)	1°C	1°C
Max. ambient temperature (°C)	+35°C	+35°C
Type of cooling	by direct contact with walls of well	by direct contact with walls of well
Power supply (V)	220-252	380-400
Frequency (Hz)	50	50
Power consumption, KW	n/a	n/a
Noise level (DBA)	<55	<55
Weight (KG)	250	400
No. of compressors.	2	2
Automatic (smart) defrost and evaporation	defrost not necessary	defrost not necessary
Castors	yes	yes
Chart recorder	optional	optional
Shelves (pcs)	6 slots for 4 bags each	12 slots for 4 bags each
Lock	yes	yes
Interior material	s/steel AISI304	s/steel AISI304
Exterior material	Powder coated steel	Powder coated steel
Refrigerant	R404A+R508B	R404A+R508B

## BLOOD BANK FRIDGES +4°C

- **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, low battery, 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 with ventilated evaporator and CFC-free refrigerant. Evaporator fan stops during door opening.
- **Defrosting.** Fully automatic
- **Temperature range.** +2 +10°C and factory pre-set value +4°C.
- **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 glass door with folding magnetic gasket on four sides for perfect closing. Right or left hand opening on request. Lock with a key.
- **Drawers.** Sliding drawers made of s/steel AISI304 with transparent frontal side are standard
- **Back-up battery.** Self-powered back-up battery to supply energy to control panel in case of power failure and therefore allowing alarms to work for up to 48 hours.
- **Temperature chart recorder.** Weekly temperature recording system working with 1,5V battery. It is equipped with 52 disks and a pen.
- **Wheels and feet.** Four one-way wheels and two stabilizing adjustable feet
- **Optional.** Internal dividers for drawers, SMS alerts.



Switching on/off with a key



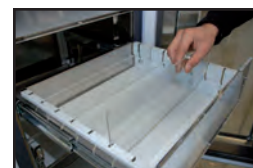
Chart recorder



S/steel Drawers



Standard wheel kit



Optional dividers for drawers



Standard ports



Removable (magnetic) door gaskets



Rounded internal corners



Removable (magnetic) door gaskets



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
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	yes
RS 485 - 232 interface	yes
LAN port	yes
Memory for last alarms	yes

### TECHNICAL SPECIFICATION



DS-AF140E



DS-AF70E



Model	DS-AF140E	DS-AF70E
Dimensions exterior WxDxH (mm)	1440x800x2020	720x800x2020
Net capacity (L)	1400	700
N of blood bags (450ml)	770	385
Insulation (mm)	60	60
Temperature (°C)	+4°C	+4°C
Temperature setting accuracy (°C)	0,1°C	0,1°C
Max. ambient temperature (°C)	+43°C	+43°C
Refrigeration type	Monoblock, ventilated	Monoblock, ventilated
Power supply (V)	220-240	220-240
Frequency (Hz)	50	50
Power consumption (W)	795	550
Weight (KG)	194	146
Shipping weight (KG)	220	161
Shipping dimensions WxDxH (mm)	1500x860x2170	860x910x2170
No. of compressors.	1	1
Doors	2 glass	1 glass
Automatic defrost and evaporation	yes	yes
Castors	yes	optional
Chart recorder	yes	yes
Drawers (pcs)	14 s/steel drawers	7 s/steel drawers
Lighting	yes	yes
Lock	yes	yes
Interior material	s/steel AISI304	s/steel AISI304
Exterior material	White powder coated steel	White powder coated steel
Refrigerant	R404A	R404A



## TECHNICAL SPECIFICATION



DS-FS30E



DS-FS15E



Model	DS-FS30E	DS-FS15E
Dimensions exterior WxDxH (mm)	600x600x1935	600x600x1335
Net capacity (L)	300	150
N of blood bags (450ml)	192	96
Insulation (mm)	60	60
Temperature (°C)	+4°C	+4°C
Temperature setting accuracy (°C)	0,1°C	0,1°C
Max. ambient temperature (°C)	+43°C	+43°C
Refrigeration type	Ventilated	Ventilated
Power supply (V)	220-240	220-240
Frequency (Hz)	50	50
Power consumption (W)	295	245
Weight (KG)	118	83
Shipping weight (KG)	131	94
Shipping dimensions WxDxH (mm)	700x680x2120	700x680x1720
No. of compressors.	1	1
Doors	1 glass	1 glass
Automatic defrost	yes	yes
Castors	yes	yes
Chart recorder	yes	yes
Drawers (pcs)	6 s/steel drawers	3 s/steel drawers
Lighting	yes	yes
Lock	yes	yes
Interior material	s/steel AISI304	s/steel AISI304
Exterior material	White powder coated steel	White powder coated steel
Refrigerant	R404A	R404A

# Isothermal Containers

## MOBILE ISOTHERMAL CONTAINERS FOR TRANSPORTATION OF MEDICAL AND PHARMACEUTICAL PRODUCTS

“Desmon Scientific” line includes a group of mobile isothermal containers from 5 to 410l with active or passive cooling for transportation of medicines, vaccines, blood, plasma, organs, etc.

### Range

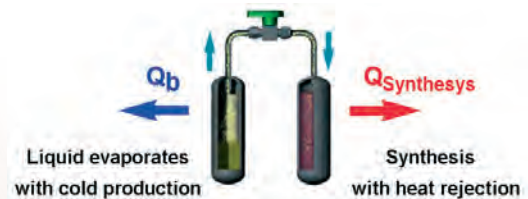
- **Alcatherm range:** active thermochemical cooling (patented), volumes 7, 18, 45, 75, 135 and 410l, precise  $\pm 1^{\circ}\text{C}$  regulation of inside temperature, full traceability of temperature
- **Freetherm range:** active fan assisted cooling by virtue of dry ice or eutectic plates, volumes 25, 40 and 60l, precise  $\pm 1^{\circ}\text{C}$  regulation of inside temperature, no traceability of temperature
- **Freotech range:** passive cooling with dry ice or eutectic plates, volumes 11, 40 and 100l, no traceability and no control of temperature set value.
- **Alcabox range:** isothermal soft bags to fit in Alcatherm range or to be used separately, volumes 4, 10, 20, 35 and 60l

### Features

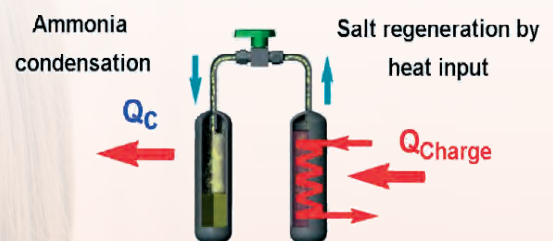
- **Thermochemical cooling** (patented). Autonomous refrigeration and/or heating without use of electricity during the process, energy storage (cold or heat), without time limitation; powerful refrigeration and/or heating during its return, when opening the valve; simple operation, low noise and vibration; robustness through its sealed stainless steel construction; no moving parts, therefore very low care level and very little maintenance; respect for the environment (no CFCs or substitutes)
- **Certifications.** Alcatherm containers are certified for the transport of infectious products of class 6.2 (ADR) and obtained an approval certificate F/LNE F021259-1
- **Alarms.** Audible high and low temperature alarms and alarm when the container is not vertical (Alcatherm)
- **Digital controller.** Models from Alcatherm and Freetherm range are equipped with digital controller and thermometer.



Thermochemical reaction (phase 1)



Thermochemical reaction (phase 2)



DS-CO75  
on a board

# Isothermal Containers

## TECHNICAL SPECIFICATION "ALCATHERM" RANGE



### Controller

Type of controller	digital
Adjustable high/low temperature alarm	yes
Correct positioning alarm	yes



DS-C7



DS-C410



DS-CO75

	Mobile			Container	Coolsplit	
Model	DS-C7	DS-C18	DS-C45	DS-C410	DS-CO75	DS-CO135
Dimensions exterior WxDxH (mm)	375x340x370	550x460x400	725x565x515	1110x770x1110	800x600x800	800x600x800
Net capacity (L)	7	18	45	410	75	135
Dimensions interior WxDxH (mm)	230x145x165	390x195x220	390x400x320	960x600x670	620x420x286	720x520x361
Type of cooling	active thermochemical (ventilated)	active thermochemical (ventilated)	active thermochemical (ventilated)	active thermochemical (ventilated)	active thermochemical (ventilated)	active thermochemical (ventilated)
Temperature range (°C)	+2°/+12°C (+12°/+37°C - with a connection to 12V-DC vehicle power supply, 0°/-20°C - with additional eutectic plates)	+2°/+12°C (+12°/+37°C - with a connection to 12V-DC vehicle power supply, 0°/-20°C - with additional eutectic plates)	+2°/+12°C (+12°/+37°C - with a connection to 12V-DC vehicle power supply, 0°/-20°C - with additional eutectic plates)	+2°/+12°C (+12°/+37°C - with a connection to 12V-DC vehicle power supply)	+2°/+12°C	+2°/+12°C
Temperature setting accuracy (°C)	1°C	1°C	1°C	1°C	1°C	1°C
Temperature traceability with recording of lid openings/closings	yes	yes	yes	yes	yes	yes
Autonomy (H)	4	10	12	14	12	8
Battery charge power (W)	200	300	530	1380	500	500
Max. charge duration (H)	5	6,5	6	6,5	8	8
Weight (KG)	15	28	46	150	8 (box only), 40 (box+ref.base)	6 (box only), 38 (box+ref.base)
Castors	yes	yes	yes	no (for refrigeration vehicles)	yes	yes
Telescopic handle	yes	yes	yes	no (for refrigeration vehicles)	no	no
Interior material	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene	Expanded polypropylene	Expanded polypropylene
Insulation	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane
Exterior material	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene



# Isothermal Containers

## TECHNICAL SPECIFICATION “FREETHERM” & “FREETECH”



DS-BI25R



DS-BI25R



DS-11L, DS-F40L, DS-F100L

### Controller (only Freetherm)

Type of controller	digital
Adjustable high/low temperature alarm	no
Correct positioning alarm	no

	Freetherm range	Freetech range (without controller)		
Model	DS-BI25R	DS-F11L	DS-F40L	DS-F100L
Dimensions exterior WxDxH (mm)	620x470x470	230x475x250	330x750x375	445x910x520
Net capacity (L)	25	11 (w/out eutectic plates)	40 (w/out eutectic plates)	100 (w/out eutectic plates)
Dimensions interior WxDxH (mm)	310x280x245	161x404x177	240x606x278	346x756x380
Type of cooling	active with dry ice (ventilated)	passive with dry ice or eutectic plates (non ventilated)	passive with dry ice or eutectic plates (non ventilated)	passive with dry ice or eutectic plates (non ventilated)
Temperature range (°C)	-35°/+8°C	-30°/+37°C	-30°/+37°C	-30°/+37°C
Temperature setting accuracy (°C)	1°C	n/a	n/a	n/a
Temperature traceability with recording of lid openings/closings	no	no	no	no
Autonomy (H)	24	12	12	12
Battery charge power (W)	n/a	n/a	n/a	n/a
Max. charge duration (H)	6	n/a	n/a	n/a
Weight (KG)	19	3	7	15
Castors	no	no	no	no
Telescopic handle	no	no	no	no
Interior material	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene
Insulation	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane
Exterior material	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene	Roto-moulded polyethylene



# Isothermal Containers

## TECHNICAL SPECIFICATION “ALCABOX” RANGE



DS-CP10

Alcabox range (without controller)				
DS-CP4L	DS-CP10L	DS-CP20L	DS-CP35L	DS-CP60L
200x140x140	390x190x190	390x190x250	390x300x300	590x320x320
4 (suitable for DS-C7)	10 (suitable for DS-C18)	20 (suitable for DS-C45, 2pcs)	35 (suitable for DS-C45)	60 (suitable for DS-CO75)
200x140x140	390x190x190	390x190x250	390x300x300	590x320x320
passive (non ventilated)	passive (non ventilated)	passive (non ventilated)	passive (non ventilated)	passive (non ventilated)
n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a
no	no	no	no	no
n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a
no	no	no	no	no
no	no	no	no	no
PVC washable, white	PVC washable, white	PVC washable, white	PVC washable, white	PVC washable, white
Polyurethan foam, 1,6mm thickness	Polyurethan foam, 1,6mm thickness	Polyurethan foam, 1,6mm thickness	Polyurethan foam, 1,6mm thickness	Polyurethane foam, 1,6mm thickness
PVC washable with printed fabric border	PVC washable with printed fabric border	PVC washable with printed fabric border	PVC washable with printed fabric border	PVC washable with printed fabric border

## REFRIGERATORS FOR PHARMACIES

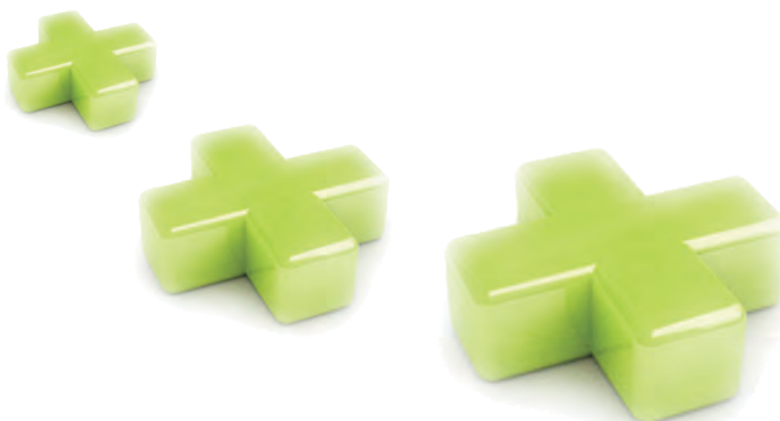
“Desmon Scientific” proposes a line of upright fridges with temperatures  $+2^{\circ}\text{C}$  /  $+8^{\circ}\text{C}$ , glass doors, internal lighting, white powder coated steel exterior, white plastic or powder coated steel interior for conservation of medicines, vaccines and suspensions. Internal volumes are 66, 75 and 320l.

### Features

- Electronic controller
- Ventilated condenser and evaporator
- Expanded polyurethane insulation
- Removable door gaskets
- Interior with rounded corners
- Glass door

### Optionals

- Chart Recorder
- Door lock
- Door open alarm



### Controller

Data log function	no
Power failure alarm	no
Adjustable high/low temperature alarm	yes
Open door alarm	optional
Probe failure alarm	no
Remote contact (dry, volt-free) for alarm	yes
Back-up battery 12V for control panel	no
RS 485 interface	yes
Type of standard T probe	NTC
Memory for last alarms	no



## TECHNICAL SPECIFICATION “FARMA” LINE

Compact size



Model	DS-ARV80CC PV	DS-ARV100CC PV	DS-ARV400SC PV
Dimensions exterior WxDxH (mm)	545x620x630	540x544x925	590x645x1820
Net capacity (L)	66	75	320
Insulation (mm)	25	25	45
Temperature range (°C)	+2°/+8°C	+2°/+8°C	+2°/+8°C
Temperature setting accuracy (°C)	0,1°C	0,1°C	0,1°C
Max. ambient temperature (°C)	+32°C	+32°C	+32°C
Type of cooling	ventilated evaporator	ventilated evaporator	ventilated evaporator
Power supply (V)	220-240	220-240	220-240
Frequency (Hz)	50	50	50
Power consumption, KW	0,4	0,3	0,4
Noise level (DBA)	<55	<55	<55
Weight (KG)	35	46	81
No. of compressors.	1	1	1
Automatic defrost and evaporation	automatic defrost	automatic defrost	automatic defrost
Castors	no	no	yes
Chart recorder	optional	optional	optional
Shelves (pcs)	2	2	5
Lock	Optional	Optional	Optional
Internal lighting	yes	yes	yes
Interior material	skinplate white	Thermoformed plastic tank (white)	Thermoformed plastic tank (white)
Exterior material	white powder coated steel	white powder coated steel	white powder coated steel
Refrigerant	R134A	R134A	R134A

# Ice makers

## ICE MAKERS (CUBES AND FLAKES)

“Desmon Scientific” range includes 20 models of ice machines of undercounter type with bins and productivity from 18 to 179 kg of ice per day.

### Range

- “Eight-sided cubes “Octallice”: 7 models (DS-EC...) with productivity from 18 to 80 kg
- “Flakes”: 5 models (DS-RF..., QF...) with an output from 90 to 179 kg a day



### Features

- High load capacity bearings for enhanced reliability.
- Heavy duty stainless steel cabinet resists corrosion.
- Easy access door, slides up & out of the way.
- Extended warranty. 3year for parts and 5 years for compressor' parts (labor – 2years)





## TECHNICAL SPECIFICATION ICE MAKERS FOR CUBES



Cubes							
Model	DS-EC18/AG	DS-EC20/AG	DS-EC30/AG	DS-EC40/AG	DS-EC50/AG	DS-EC65/AG	DS-EC80/AG
Dimensions exterior WxDxH (mm)	345x420x630	450x475x650	450x475x650	550x550x800	550x550x800	700x600x900	700x600x900
Productivity (Kg/day)	18	21	30	41	50	65	80
Bin capacity (Kg)	5,5	10	10	25	25	45	45
Type of cooling	air	air/water	air/water	air/water	air/water	air/water	air/water
Interior material	seamless polyethylene	seamless polyethylene	seamless polyethylene	seamless polyethylene	seamless polyethylene	seamless polyethylene	seamless polyethylene
Insulation	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane
Exterior material	s/steel	s/steel	s/steel	s/steel	s/steel	s/steel	s/steel
Refrigerant	R134A	R134A	R134A	R134A	R134A	R134A	R134A
Voltage (V)	230	230	230	230	230	230	230
Phases	1	1	1	1	1	1	1
Frequency (Hz)	50	50	50	50	50	50	50

## TECHNICAL SPECIFICATION ICE MAKERS FOR FLAKES



Flakes					
Model	DS-RF0244	DS-RF0266	DS-RF0388	DS-RF0399	DS-QF0400
Dimensions exterior WxDxH (mm)	500x660x690	500x660x800	738x690x920	738x690x1020	660x482x825
Productivity (Kg/day)	90	90	150	150	179
Bin capacity (Kg)	20	30	40	55	36
Type of cooling	air	air	air	air	air
Interior material	seamless polyethylene	seamless polyethylene	seamless polyethylene	seamless polyethylene	seamless polyethylene
Insulation	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane	CFC-free expanded polyurethane
Exterior material	s/steel	s/steel	s/steel	s/steel	s/steel
Refrigerant	R404A	R404A	R404A	R404A	R404A
Voltage (V)	230	230	230	230	230
Phases	1	1	1	1	1
Frequency (Hz)	50	50	50	50	50

# 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

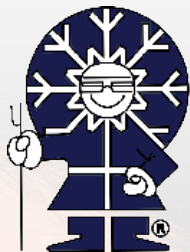
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