

UniMedical





UniMedical Line

The restless research and development of new solutions to ensure better performance and absolute reliability, find its highest expression in our Medical lines, designed and built with the utmost care, in compliance with the most stringent regulations to ensure only the best conditions of storage of medicines, blood products and heat-sensitive biological materials.

These lines, while aesthetically similar to commercial lines, differ in their temperature control system, much more accurate according to more stringent technical specifications, that include a constant monitoring of the temperature both on the refrigerator and from remotely, with the use of common tools, such as your Smartphone, Tablet, and PC. This is to ensure full traceability of data and total control over the product stored in the refrigerator.



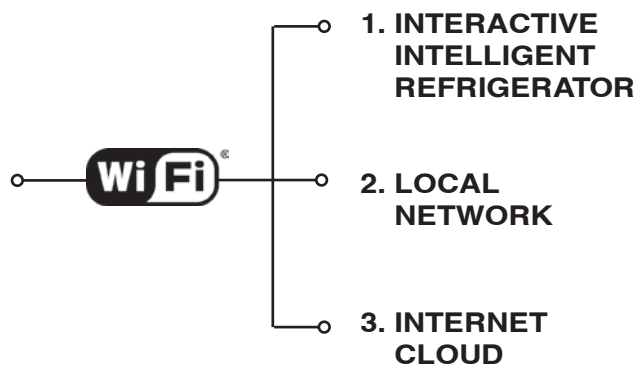
The Medical range is available in the classic vertical versions (net capacity 129 L, 333 L, 502 L, 606 L, 1352 L) and is also enriched with a special line of horizontal 2-door 161 L appliances, specifically designed for the laboratory analysis sector.

“TOUCH” TECHNOLOGY (THE BEST AS STANDARD)

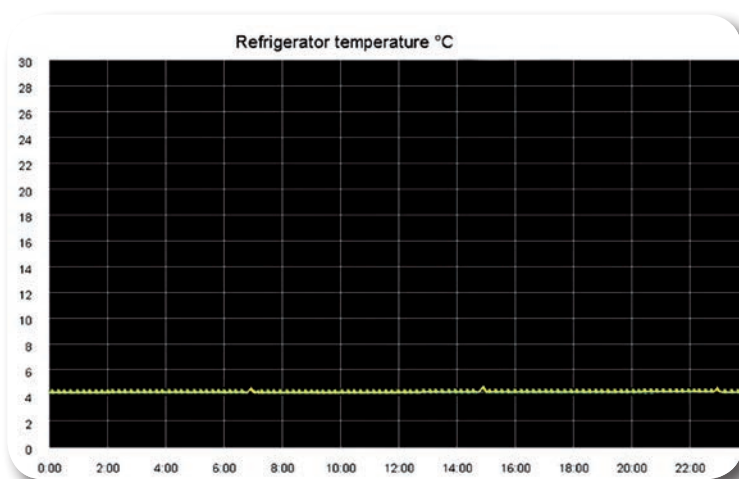
Our Medical refrigerators are equipped with an electronic board of our own design, and a 7” touch screen interface (accessible only by opening the locked front panel) managed by a proprietary software (UNIDROID) pre-installed and upgradeable to future new versions. Our Medical refrigerators provide excellent performance and, at the same time, also an incredibly easy control of all operating parameters, which are now displayed in a clear way, no longer with incomprehensible abbreviations, as in the case of the classic thermostats.

Using the Wi-Fi connection, you can connect our monitoring system to the internet and have full control on the unit, even remote (customized password access). Furthermore, all data is stored on the “CLOUD” or on a dedicated server, giving you the opportunity to recover all data related to your refrigerator at any time and wherever you are.

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Constant monitoring in real time, with numeric display of the inside storage temperature with precision to a tenth of a degree and graphic display, according to the trend of the last 24 hours.



PARAMETER CONTROL

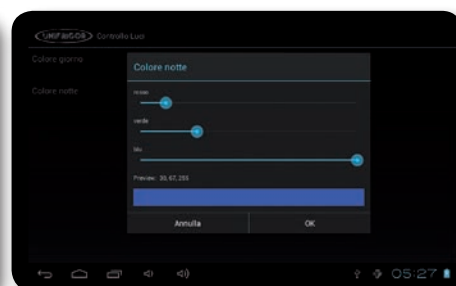
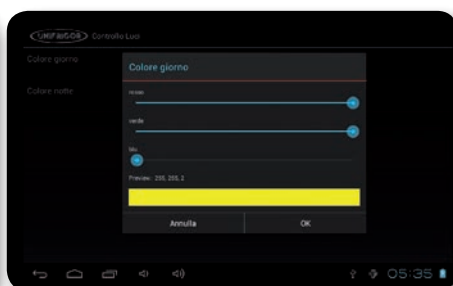
The touch screen is protected by a Lexan door with key lock providing maximum safety and preventing any tampering attempts.

The basic parameters, such as changing the set point, changing the colour of the light and times of day & night function, can be modified by anyone with access to the touch screen, while the full control of all the operating parameters of the refrigerator is reserved for clinical engineers or technical support service, which have access via a password protected menu.





NIGHT & DAY function allows you to adjust the light colour and intensity for maximum comfort during the night.



INTELLIGENT, INTERACTIVE AND SAFE

Equipped with a self-diagnosis system, it communicates with you through the status bar.



BLUE color:
optimal functioning according to the set parameters.



ORANGE color:
report of a slight problem, such as the request for cleaning of the condenser filter to ensure both optimal performance and long life for the refrigerator cooling system.



RED color:
signal of a more serious problem that requires attention such as:

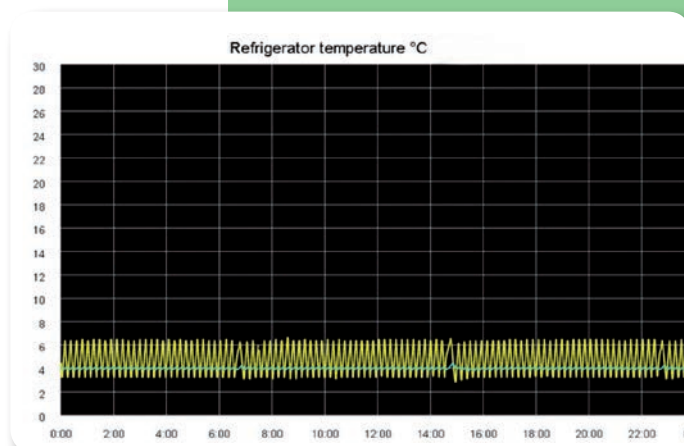
- open door alarm,
- temperature alarm,
- malfunction of the temperature detector,
- malfunction of the condenser detector,
- malfunction of the electronic board,
- blackout.

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The temperature alarm means any variation both in excess and in defect with respect to the programmed temperature range. Thanks to SIMULATION OF THE PRODUCT TEMPERATURE, achieved through mathematical functions developed on the basis of a long trial, the signal of the temperature alarms is always accurate and based on the actual temperature of the stored product.

In addition, this simulation has allowed us to create a new software feature, ADAPTIVE SET POINT, on intelligent control of the set point, which allows for outstanding performance in terms of refrigerating systems responsiveness with a more rapid recovery of cold, all to the advantage of the temperature stability inside the store, which is a fundamental point of the Medical refrigeration.

The touch screen is equipped with an internal battery that ensures proper functioning of our monitoring system for several hours.



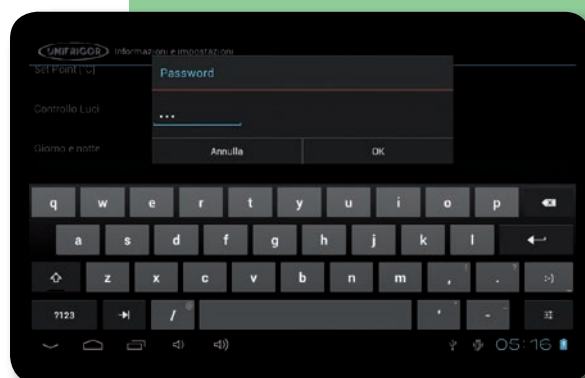
ALERT by EMAIL  e by PHONE 

The appliance reports the existence of any problems not only on the touch screen, but also remotely, by sending emails, stated that it is properly Wi-Fi connected to the Internet.

NEW

From today, you can be advise by phone, to the number that you will indicate to Unifrigor team, when Alarm for black out or irregular temperature will occur. The phone call will not generate any extra costs and it is not necessary any extra SIM card.

Thanks to multi-user selective control, different levels of access are possible, according to skills: critical parameters of the unit are reserved for clinical engineers or technical service support.



INTERNET/CLOUD

All the appliance functions are controlled remotely simply by connecting to the website specifically created for the purpose at service.unifrigor.com

○ INSTANT VIEW

This page provides an immediate overview of the status of all appliances equipped with this technology, installed in your facility.

Refrigerators				
Cod.	Matr.	Description	Temp. °C	Status
111011	567890	UF - M-VPS/C 140		Board A failure
111018	452210	UF - M-APS/C 140		NO service
110908	161520	UF - M-VPV 340	11.5	Eco mode - Led on
110926	300012	UF - M-VPV 700		Power failure



Alarms		
Alarm	Now	Last Event
Power failure		-
Condenser Probe failure		-
Board A failure		-
Temperature alarm		-
Clean the condenser		-
Open door alarm		-
Probe failure		-

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MONITOR

In the Instant View page, by selecting the name of the desired appliance, you can move to the detailed pages of that specific appliance. The Monitor page immediately gives you information regarding the last 24 hours, or by selecting a different date, even earlier date. Here you have:

- A visual summary of the status of the possible alarms,
- The graph of the temperature inside the storage unit
- The graph of the condenser temperature
- The percentage of compressor operation

Compressor activity



ON: 10%
OFF: 90%

CONTROL & SETTINGS

This page is dedicated to the control of parameters, which are reserved for clinical engineers or technical service support with access via password. Here you can fully interact with the refrigerator by changing from remotely operating the parameters to allow easier but also faster handling of any problems that may arise during the life of the refrigerator.

Control		
Device	On/Off	
Refrigerator	On	
LED	On	

Settings		
Parameter	Value	UM
Set point	4.0	°C
Set Point Differential	3.0	°C
Minimum Set Point	2.0	°C
Maximum Set Point	15.0	°C
On time compressor (Probe failure)	3.0	min
Off time compressor (Probe failure)	5.0	min
Delay between power-on	2.0	min
Interval between defrosts	8.0	h
Defrost duration	30.0	min
Probe calibration	0.0	°C
Alarm condenser	55.0	°C
Eco set point	9.0	°C
Minimum Temperature Alarm	1.0	°C
Maximum Temperature Alarm	20.0	°C
Delay Temperature Alarm	20.0	min
Delay Open Door Alarm (only medical)		min

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Remote Update

LIGHT MANAGEMENT

Here you can choose the light colour and intensity to be used on the appliance both during the day and the night.

NIGHT & DAY

Time programming to automate the transition from day to night lighting and vice versa, thus enjoying a greater comfort during the various periods of the day that may require more or less light.

DATA STORAGE

SAFE DATA CAN BE EASILY FOUND

The archive of all temperature data and alarms is available for a maximum period of 10 years, and it can be downloaded in its entirety or periodically by simply selecting the dates of beginning and end of the period.

Very easy to handle, this page allows you to download via computer the data you are interested in, both in PDF and Excel, so that you can process them even in graphic format.

In addition, the data archive, for those who are not connected to the Internet and do not take advantage of the full potential of our monitoring system, can also be downloaded by USB key.

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M-028 VP+V white



M-COMBI 680 white



M-AGP 700 inox



M-VPV 340 white



M-VPV 360



M-VPV UT 340



M-VPV UT 340 DT

NEW MODELS

M-VPV 340 DT

2 chillers temperatures, one motor unit.

Suitable for getting two different temperatures in one cabinet and the best saving in energy and in the purchasing.

M-VPV 340 INVERTER

INVERTER technology, allowing a gradual (not abrupt) compressor starting, granting an energy regulation in the circuit in order to reduce energy consumption.

40% energy reduction and 50% noise lever, compared to traditional system.

STANDARD TECNOLOGY

Based on a HACCP thermostat with digital display that shows the time and temperature with the accuracy of a tenth of a degree (0.1°C), equipped with visual and audible alarm, as well as a predisposition for remote control of alarm signal through a "dry contact", it provides the safety necessary for the preservation of all types of medicines.

By simply pressing the HACCP button, you can see the list of the last 20 recorded alarms, accompanied by the time of the alarm and its duration. The system detects high temperature, low temperature and black out alarms.

This thermostat is equipped with an infrared beam communication system, and then with the use of a specific data collection device, also infrared technology, you can download the data relating to the possible alarms occurred since the last data download.

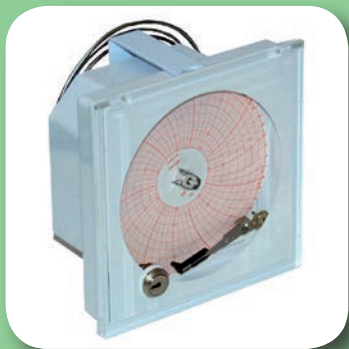
The device can store the downloaded data on to a maximum of 40 devices, then you are obliged to print them or delete them.

As standard "door-open" alarm and on request as an option the RS 485 converter.





- If you want the system to continue to emit alarm signals in case of a power failure, the refrigerator can be equipped with backup battery, which keeps active all the functions of the thermostat for about 24 H (Size 100x355x170mm).



- For more control over the temperature of your refrigerator, the standard technology can be enhanced by the installation of the WEEKLY CHART RECORDER (when ordering). This is equipped with an independent detector, providing a double check of the real temperature within the store and also producing easy to keep documentation, by replacing each week the disk on which the temperature chart is recorded. Equipped with an AA 1,5 V battery, it ensures the recording of data even in case of power failure.

LABORATORY BENCHES

They are the professional solution offered by Unifrigor for the specific furnishing needs of the laboratory and consist of refrigerated tables with built-in motor and programmable temperature from $+1^{\circ}\text{C}$ / $+15^{\circ}\text{C}$.

With its small size and custom design for the laboratory, this horizontal refrigerated bench is the answer to every need thanks to:



- You are free to rethink the layout of your laboratory, being able to easily move the unit to a different part of the lab, without having to make changes to the structure of your bench, with everything that goes with it in economic terms.



- It is "plug and play", as the built-in motor does not require any complicated installation.

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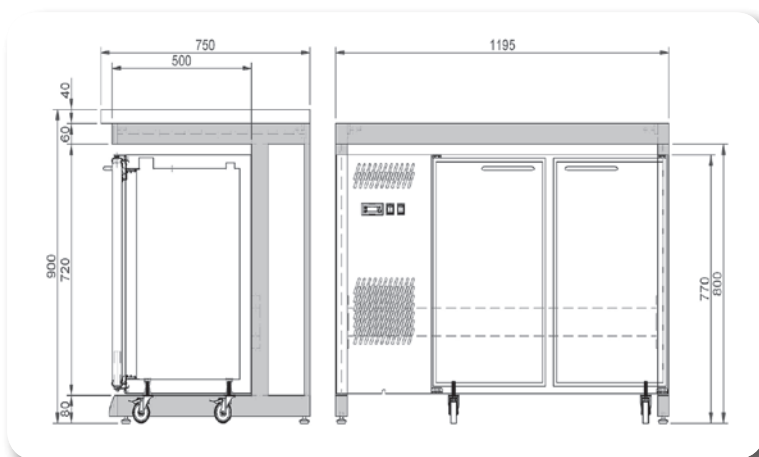
- Equipped with automatic electronic-control defrost and with evaporation of defrost water through a hot gas system, it eliminates potentially dangerous electrical resistances and also consistently reducing the consumption of electricity.



- Specific dimensions for installation in your laboratory, 1190 mm wide, including the motor unit, which is equivalent to double the size of a standard chest of drawers normally used in this type of furniture, 770 mm high, including wheels.



- With the wheels, you can enjoy the most absolute freedom and easily move the unit when necessary, as in case of cleaning.



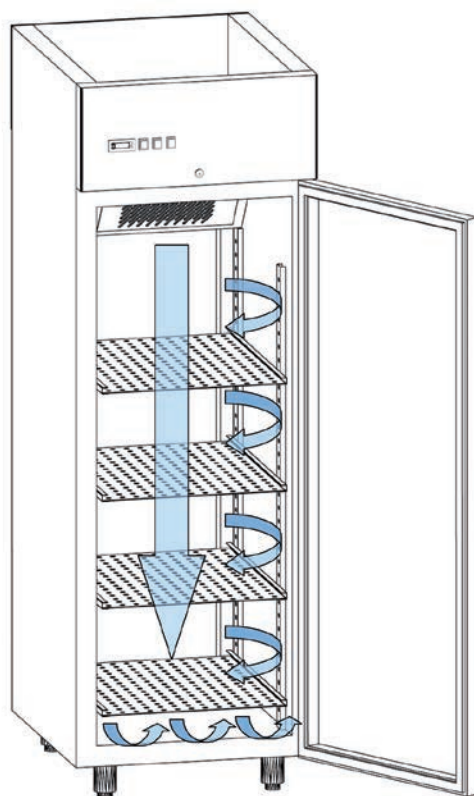
Structural features

Cooling appliances designed and manufactured entirely in our plant in Occimiano are made (inside and outside) in AISI 304 stainless steel with scotch brite or Non-toxic Skinplate white finishing, with CFC-free polyurethane foam insulation.

○ UNIFORM TEMPERATURE SYSTEM

The horizontal units offer perfect temperature uniformity inside the store due to the intermediate position of the evaporator. For vertical units instead, where the cold for fall creates a stratification of the temperature, a special system of ventilation distribution is designed to ensure maximum uniformity of temperature in each area of the refrigerated store. Standard on the Touch technology line, and available as an option on the standard technology line, this system of control of the internal ventilation of the vertical units is of fundamental importance in Medical refrigeration.

- Available both with solid door and glass door, it is equipped with a tempered insulation glass for chillers ($+2^{\circ}\text{C}$ / $+8^{\circ}\text{C}$) and a triple heated tempered glass, insulating and anti-fogging for freezers (-15°C / -25°C).





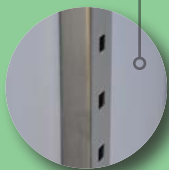
1.

- The LEDs, which ensures perfect lighting and low power consumption, are supplied as standard in the whole range. White solid LED with standard technology line, while on the touch technology line the LEDs are RGB, it means that they change color and intensity according to your needs. On request, solid coloured LEDs can be delivered with standard technology line (picture 1).



2.

- The racks inside the store can be removed for easy and thorough cleaning. The equipment inside is 100% customizable based on your needs, choose what you need, drawer or shelf and in the quantity you need, according to the maximum capacity of each appliance (picture 2).



The shelves, now sliding on fixed rails, are available in different versions:

- embossed aluminium, non-perforated (picture 4)
- stainless steel, non-perforated
- stainless steel, perforated (picture 3)

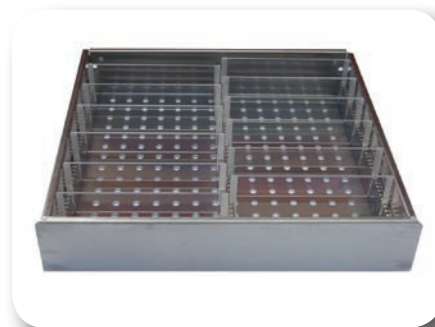
Drawers can be in stainless steel or aluminium and can be equipped with internal dividers as optional extras (picture 5).



3.



4.



5.

On request, it is possible to have a side hole for the insertion of an extra temperature reader and cable inside the refrigerated compartment.

The contents of your refrigerator are safe, thanks to the key lock as standard.

The electrical system, voltage 230V/50Hz/1, is manufactured according to CE standards and is also equipped with fuse protection system. On request, 115V/60Hz/1 or 230V/60Hz/1 power supply is also available.

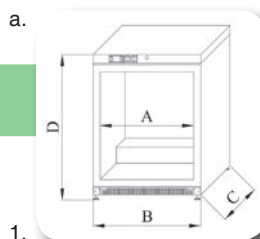
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TECHNICAL SHEETS

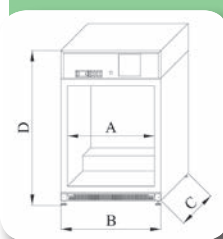
MODELS:

1. standard
2. with graphics register
3. with touch

a.



1.



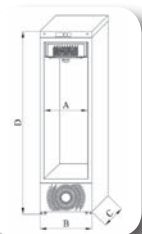
2.



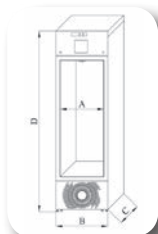
3.

		N. doors	Max shelves / drawers	Volume	A	B	C	D
a.	M-A/VPS-C 140	1	3 / 3	121	540	630	567	838 / 850 without feet 820
	M-A/VNS 140							960 / 972 without feet 942
	M-A/VPS-C 140 graphics reg. / touch							
	M-A/VNS 140 graphics reg. / touch							

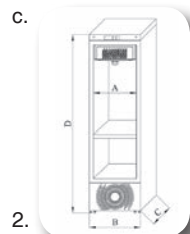
b.



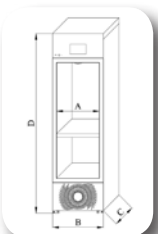
1.



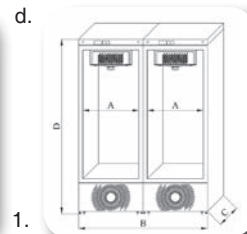
2./3.



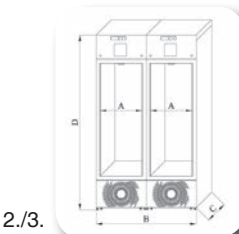
2.



d.



1.



2./3.

	N. doors	Max shelves / drawers	Volume	A	B	C	D
b. M-A/VNV 310 standard / graphic reg. / touch	1	8 / 8	267	419	555	590	1944 without feet 1917
M-A/VPV 340 standard / graphic reg. / touch	1	10 / 8	282	430	555	590	1944 without feet 1917
M-A/VPV 360 standard / graphic reg. / touch	1	8 / 5	318	560	685	636	1664 without feet 1637
M-A/VNV 510 standard / graphic reg. / touch	1	10 / 8	413	549	685	636	2064 without feet 2037
M-A/VPV 530 standard / graphic reg. / touch	1	10 / 8	442	569	685	636	2064 without feet 2037
c. M-A/VPV 340 DT standard / graphic reg. / touch	1	10 / 8	282	430	555	590	1944 without feet 1917
d. M-COMBI 650 P+N standard / graphic reg. / touch	2	10 + 8 / 8 + 8	282 + 267	430 / 419	1110	590	1944 without feet 1917
M-COMBI 680 P+P standard / graphic reg. / touch	2	10 + 10 / 8 + 8	282 + 282	430 / 430	1110	590	1944 without feet 1917

e.



1.



2./3.

f.



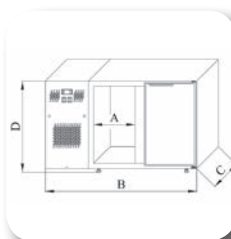
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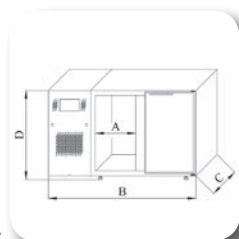
2./3.

	N. doors	Max shelves / drawers	Volume	A	B	C	D
e. M-A/VGP/GN 700 standard / graphics reg. / touch	1	10 / 8	536	535	685	807	2105 without feet 1975
f. M-A/VGP/GN 1420 standard / graphics reg. / touch	2	10 + 10 / 8 + 8	1200	569	1380	807	2105 without feet 1975

g.

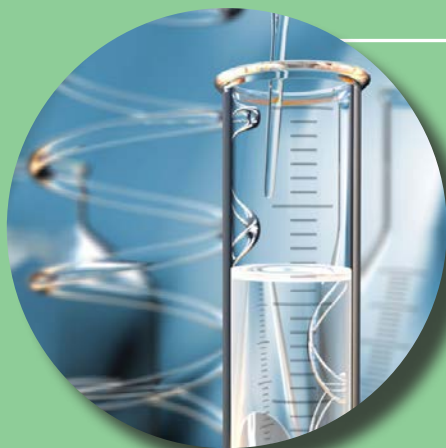


1.



2.

	N. doors	Max shelves / drawers	Volume	A	B	C	D
g. RO-LAB 1190 2D / 2DG standard / touch	2	3 / 0	161	324	1190	500	715 / 740 without feet 685



UniMedical

Fully designed and manufactured in Italy



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