



TEKNALAB

your partner in health

Established in 1988, by his founder, Engineer Luigi Paracchini, TEKNA S.R.L. had his first head quarter in Sesto Calende (Italy), where he starts the production of professional showcases and refrigerators.

Since the beginning our main markets has been Italy and Europe having trusted retailers in all the Countries. Shortly the brand TEKNA became well known in the whole Europe.

Together with his two sons, Engineer Paracchini increased TEKNA's range of products,

manufacturing laboratory cabinets, shock freezer, retarder provers and under-counters for any professional use.

The growth of TEKNA towards the globalization has stimulated the wish of manufacturing safer and certified products. Since 1998 Tekna is certified at International levels.

This allowed Tekna to expand rapidly all over the World, developing a sales network of exclusive dealerships which have since guaranteed widespread distribution and continuous, prompt support for end users.

Today TEKNA reaches an annual production of 10.000 cabinets and can provide the clients with an efficient technical support.

Tekna has organized a team that studies the needs of the clients, finds "custom made" solutions for specific requests, seeks innovative materials, plans new solutions for new products in the refrigeration business.

In fact, all the products can be customized with the exact requirements that the customer would like to have on the cabinets.

Thanks to a long experience in the production of laboratory cabinets and refrigerated showcases, the next step for TEKNA was a clear desire to design and manufacture high-quality refrigerators and freezers for Pharmacies, Hospitals, Laboratories and Blood Banks.

In 2003 TEKNA S.R.L. entered in the market with a new line of freezers and refrigerators for Medical Use, "PHARMA Collection", through its new Brand **TEKNALAB**.

"PHARMA Collection" has been exclusively studied to be

used in Clinics, Pharmacies, Medical and Research Laboratories and Hospitals by assuring the optimum storage of pharmacological, biomedical products, blood and its derivatives through a very accurate control of the temperature and according to the national and international laws currently in use.

The "PHARMA Collection" offers a wide range of solutions which are able to satisfy all the requests of the market.

TEKNALAB is able to supply equipment for the storage of products at Positive, Negative

and Combined Temperature with standard or customized solutions either in terms of performances or in terms of dimensions which satisfy all the requests of warehousing or dimensional by manufacturing also no-standard sizes.

Today **TEKNALAB** is present in 5 Continents through its own branches and it sells in more than 100 Countries worldwide.



Products introduction

TEKNALAB refrigeration line is made according to manufacturing standards that meet UNI EN ISO 9001:2008 and ISO 13485:2003. It is designed for medical applications, pharmaceutical and biotechnological applications.

TEKNALAB offer the latest solutions with regard to **antibacterial materials**, as special plastic compounds, laminated sheet steel for the utmost hygiene and cleanliness reducing the risk of the growth of microorganism.

TEKNALAB produce its Refrigerators, Incubators, Refrigerated Transportable Containers and Warming Cabinets with a very high thermal insulation at very low conductivity (from 60 to 100 mm in the fridges and 80 to 175 mm in the freezers/ deep freezers/ultra freezers) using **High Density Polyurethane Foam** allowing to maintain the inner temperature between the limits for long time (if products are stored inside). Also on every **TEKNALAB** refrigerators has been

implemented the **ECO MODE FUNCTION**. It allow the fridges and the freezers to work using a minimum power saving energy.

All the **TEKNALAB** refrigerated systems are made according to the **Latest Environmental Laws** and **Kyoto Agreements**. All used materials are **ECOFRIENDLY**. **COOLANT ECOFRIENDLY**. Brazed welded and airtight circuits reduced loads with compact circuits. Internal circuit Pressure Control System.

All these characteristics guarantee:

- ▶ Fast Pull Down Time
- ▶ Minimum Recovery Time even if the room temperature is over +30 °C/35 °C
- ▶ Minimal need for Maintenance
- ▶ Minimal Compressor wear
- ▶ Utmost products protection
- ▶ Minimal thermal and noise pollution (± 51dB)

CEI EN 61326-1 conformity
CEI EN 61010-1 conformity
Machine Directive 2006/42/EC conformity
Low Voltage Directive 2006/95 CE conformity
Electromagnetic compatibility (EMC) 2004/108 CE conformity
Medical Device Directive 2007/47



Optional and accessories

TEKNALAB offer a wide range of equipment starting from the Table Top, Under Counter and compact refrigerators to the very high capacity (1600 liters and more) to meet all purposes and satisfy request.

Many Optional and Accessories are available allowing the user to personalize and adapting our refrigerators to any operating condition and necessity

DTLS (1T)	digital data logger touch screen 5" single temperature	VS220	special voltage 220 volts/60hz
DTLS (2T)	digital data logger touch screen 5" double temperature	HCC	humidity controller
RG1	graphic chart recorder single temperature	HR	hygrometre function
RG2	graphic chart recorder double temperature	SE	key lock
PRB	probe pt100	ESEDL	electronic lock on dtls
PRBG	probe pt100 shielded	S	special low temperature, -35 °C
SMS	gsm/wi-fi remote monitoring system	LED	led light
UPS	back-up battery for dtls	LEDR	led light with brightness regulator
IR33R	digital temperature controller with dry contact	RAL	special color m≤2
IR33U	digital temperature controller with ups and dry contact	HLO	access door for external probe
RD	reversible door	TC	twin compressor
CS1	sliding drawer medium size	CHAUT	self-closing door
CS2	sliding drawer large size	TR	tropicalized version
SH1	sliding perforated inox s/steel shelve medium size	GR	remote power unit
SH1	sliding perforated inox s/steel shelve large size	PVP	glass door positive temperature
DVCS1	divisors for drawer cs1	PVN	glass door negative temperature
DVCS2	divisors for drawer cs2	AOUT	external inox s/steel
VS115	special voltage 115 volts/60hz	AIN	internal inox s/steel
		TOPIN	top under-counter inox s/steel
		TOPCO	top under-counter corian
		BCS	bar code scanner (for blood and plasma bank)
		NFOG	no fog glass

Anything you need...



Control functions and monitoring systems

All **TEKNALAB** fridges and freezers can be supplied with traditional monitoring systems (Chart Recorders, Digital Temperature Controllers, etc.) but also they can be managed and controlled by a **NEW INTERACTIVE TOUCH SCREEN DATA LOGGER** with **Micro Processors DUAL CORE** inside.

The **NITS** (New Interactive Touch Screen) allows the entire **TEKNALAB** range of refrigerators, Blood Banks fridges and freezers to be connected

with a PC/LapTop with local data networks with an external data monitoring system, which can be tracked from any other site through Internet accessing by **WI-FI** and **3G** Connection.

This offer the best overlooking of all the data and all events (alarms, black-out, door opening/closing, accesses, faults, etc.) useful for correct management of all the products and samples stored inside the refrigerators.

**DIGITAL DATA LOGGER TOUCH SCREEN
HIGH RESOLUTION USER FRIENDLY**

USB

Wi Fi

Micro S3



► INTERACTIVE TOUCH PAD

A touch pad with 5 dynamic backlit keys simplifies navigation for the user.

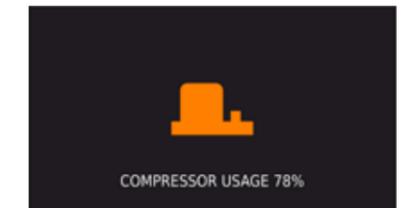
The central key is backlit by a RGB led which varies in colour according to the refrigeration unit operation.

Even from a distance it is easy to check the operating status of the refrigerator.



► REAL-TIME GRAPH

The temperature is shown on the screen with a graphical display that substitutes the now obsolete electro-mechanical thermograph. The feature is integrated with a 10 year memory of the recorded data and list of events regarding temperatures and operation variables.



► PREDICTIVE DIAGNOSTICS

In the mid-long term time period a relay fault is one of the most common failure to occur. In order to prevent this all relay switching are read with a representation of the remaining life expectancy of the component, and a warning is given when the threshold is about to be reached.



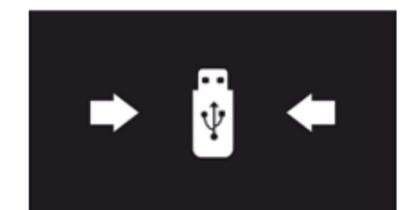
► EFFICIENCY & SECURITY

The Smart Defrost function measures the level of frost on the evaporator and launches the defrosting only when necessary to maintain an always efficient operation of the refrigerator and to reduce consumption compared to traditional defrosting by time. Thermostat control with evaporator probe in case of thermostat probe fail.



► DUAL CORE

A second powered micro-controller analyses the operation of the board, reads the coldroom temperature and mains voltage; a warning is given when the value are over or under the threshold defined by parameters to safeguard compressor life and electronics components.



► CONNECTIVITY

USB port for downloading thermoregulation data and parameter settings. Optional Bridge devices Ethernet - Wi-Fi - 3G complete the global connectivity between devices towards CLOUD Velex for monitoring and teleservice features via browser (PC or Smartphone) through credential access.

Control functions

dedicated to each specific field of refrigeration: blood banks, laboratory and pharmacies

FUNCTIONS

Thermostat control

Regulation on central set with double hysteresis in cooling action for systems with single and double stage (superfreezers) Heating action for climatized rooms.

Defrosting

Defrosting mode: electric, hot gas, stop compressor with activation from the touch pad, by a timer, by a clock and by the automatic detection of ice.

Fan management

Condenser fans control within a range of temperatures to guarantee the correct thermal exchange.
Evaporator fans control to maintain humidity and to block the flow of hot air into the coldroom during defrost phase.

Programmable outputs

Any of the following actions can be associated to every relay: compressor, defrosting, evaporator fans, condenser fans, door resistance, glass resistance, drainage resistance, active load light, heating action and 2nd stage compressor action for superfreezers.

DEDICATED FUNCTIONS

Redundancy

Double power supply for the logic. A second micro-controller is designated to the function of diagnosis, battery charge and the reading and registration of temperature in normal conditions and in mains failure status.
For ventilated units in case of thermostat probe failure the regulation is transferred to the evaporator probe.
The temperature of the technical compartment is constantly monitored with a warning when it reaches the safety threshold.
The output and operation status is shown by exterior led (*expert points*).

PT100 probe monitor

PT100 precise independent monitor probe with a 0.1 °C of resolution for thermo-registration and high and low temperature alarms with a coherence check between its readings and thermostat probe with alert for any possible unbalance.

NTC/PT100 thermostat probe

Two thermostat probe inputs are provided to regulate the temperature both of the ventilated unit with NTC probe and of the superfreezers -86 °C with PT100 probe.

Back-up battery

Back-up batteries are connected in a recharging circuit, with periodic tests, charging status and substitution alert.
In case of a mains failure they provide 24 hours of power supply.

Electric-Key Driver

Solid state output controls an electric-key with password access.

Led bar driver

A solid state output can be configured to directly control the coldroom light by led bars with automatic functions of switching on, turning off and energy savings.

CO₂ valve driver

A solid state output controls the CO₂ solenoid valve in normal conditions and in the event of mains failure for the freezer units that foresee this.

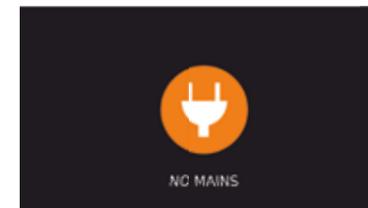
ACCESS CONTROLLED - PASSWORD ON 3 LEVELS



NEW INTERACTIVE TOUCH SCREEN (NITS)



FAULTY COMPONENTS, ERRORS AND WARNINGS



ELECTRONIC CONTROL BOARD WITH MICRO-PROCESSOR DUAL CORE WI-FI AND 3G CLOUD CONNECTION



SECTION 1
PHARMA &
MEDICAL LINE



SECTION 2
LAB LINE



SECTION 3
DOUBLE AND MULTIPLE
TEMPERATURE LINE



SECTION 4
BLOOD
LINE "EMO"



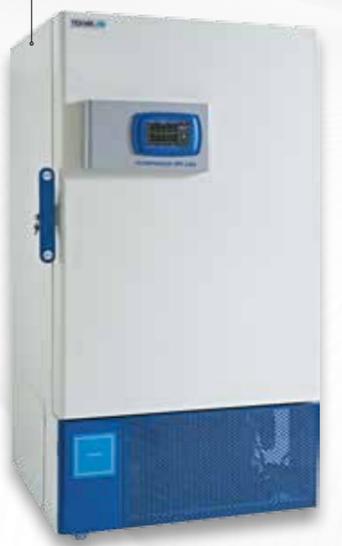
SECTION 5
DEEP FREEZERS
AND PLASMA
FREEZERS



SECTION 6
PASS-THROUGH



SECTION 7
ULTRA LOW
FREEZER
-86 °C



SECTION 8
RAPID FREEZERS



SECTION 9
UNDER-COUNTERS



SECTION 10
REFRIGERATED
TRANSPORTABLE
CONTAINERS



SECTION 11
WARMING
CABINETS



SECTION 12
INCUBATORS
AND AGITATORS



SECTION 13
PLASMA THAWER



SECTION 14
ICE MAKER

Pharma & Medical Line

The PHARMA & MEDICAL LINE refrigerators and freezers are manufactured as per **ISO Standards** and **UNI EN 61010-1**.

Suitable for Vaccine storage are the best solution to keep them safe and controlled thank to the **Access Control System** by Password.

All the refrigerators are equipped with a dedicated **DIGITAL CONTROLLER HACCP** or a **TOUCH SCREEN DATA LOGGER** which can assure the highest standard of safe storage and a complete control of all functions allowing a prompt action in case of faults.

All the refrigerators can be connected to the **BMS** and **ONLINE** through a **WI-FI** or a **3G BRIDGE** for a remote control.

The PHARMA & MEDICAL LINE is studied and projected to work in any climate condition even with high humidity and temperature since any refrigerator and freezer can be tropicalized.

The doors, upon request, are equipped with a **Self-Closing System** for easy and safe closing.

Any PHARMA & MEDICAL LINE refrigerator and freezer in mounted on swivel wheels for an easy shift time by time and two adjustable feet assure to lock it on the floor, lift it and leveling any sinking.

CE Certified.



Optional



Series PM

NFN +5 / -25 °C



LP670



0041



4100



9120



7100

MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
LP460 NFN	+5 / -25 °C	46x55x108	36x45x600	100	210	R507A	Hemetic 1/4 HP	350	2	opt	✓	✓	✗	✓	✗	AUT	Hot Gas	No Frost	opt	opt
LP670 NFN	+5 / -25 °C	67x55x108	57x45x600	150	55	R 507A	Hemetic 1/3 HP	400	2	opt	✓	✓	✗	✓	✗	AUT	Hot Gas	No Frost	opt	opt
0021 NFN	+5 / -25 °C	46x64x140	36x54x600	120	60	R 507A	Hemetic 1/3 HP	400	3	opt	✓	✓	✗	✓	✗	AUT	Hot Gas	No Frost	opt	opt
0041 NFN	+5 / -25 °C	67x64x140	57x54x680	210	67	R 507A	Hemetic 1/3+ HP	450	3	opt	✓	✓	✗	✓	✗	AUT	Hot Gas	No Frost	opt	opt
0051 NFN	+5 / -25 °C	76x64x140	66x54x680	240	70	R 507A	Hemetic 1/3+ HP	450	3	opt	✓	✓	✗	✓	✗	AUT	Hot Gas	No Frost	opt	opt
2100 NFN	+5 / -25 °C	46x64x204	36x54x130	250	75	R 507A	Hemetic 1/3+ HP	450	5	opt	✓	✓	✗	✓	✗	AUT	Hot Gas	No Frost	opt	opt
4100 NFN	+5 / -25 °C	67x64x204	57x54x130	400	85	R 507A	Hemetic 1/2 HP	500	5	opt	✓	✓	✗	✓	✗	AUT	Hot Gas	No Frost	opt	opt
5100 NFN	+5 / -25 °C	76x64x204	66x54x130	460	80	R 507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	✓	✗	AUT	Hot Gas	No Frost	opt	opt
9100 NFN	+5 / -25 °C	90x64x204	80x54x130	560	97	R 507A	Hemetic 3/4 HP	700	5	opt	✓	✓	✗	✓	✗	AUT	Hot Gas	No Frost	opt	opt
7100 NFN	+5 / -25 °C	132x64x204	122x54x130	820	110	R 507A	Hemetic 1 HP	800	5	5+5 opt	✓	✗	✓	✓	✗	AUT	Hot Gas	No Frost	opt	opt
7100 XL NFN	+5 / -25 °C	132x76x204	122x66x130	1040	120	R 507A	Hemetic 1 1/4 HP	1.000	5	5+5 opt	✓	✗	✓	✓	✗	AUT	Hot Gas	No Frost	opt	opt
9120 NFN	+5 / -25 °C	90x64x204	2x36x54x130	250+250	110	R 507A	2 x Hemetic 1/2 HP	2x400	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot Gas	No Frost	opt	opt

Series PM

NFN +5 / -25 °C

8100



5010



10000



1510



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
8100 NFN	+5 / -25 °C	132x64x204	2x57x54x130	2x400	140	R 507A	2 x Hemetic 1/2 HP	2x500	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
5010 NFN	+5 / -25 °C	67x89x204	57x79x130	590	75	R 507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	✓	✗	AUT	Hot gas	No Frost	opt	opt
5020 NFN	+5 / -25 °C	83x89x204	73x79x130	750	80	R 507A	Hemetic 3/4 HP	700	5	opt	✓	✓	✗	✓	✗	AUT	Hot gas	No Frost	opt	opt
5030 NFN	+5 / -25 °C	95x89x204	85x79x130	880	90	R 507A	Hemetic 1 HP	800	5	opt	✓	✓	✗	✓	✗	AUT	Hot gas	No Frost	opt	opt
10010 NFN	+5 / -25 °C	132x89x204	2x57x79x130	2x590	160	R 507A	2 x Hemetic 1/2+ HP	2x600	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
9501 NFN	+5 / -25 °C	132x89x204	122x79x130	1250	140	R 507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
9502 NFN	+5 / -25 °C	164x89x204	154x79x130	1580	150	R 507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
10000 NFN	+5 / -25 °C	150x64x204	2x66x54x130	2x470	160	R 507A	2 x Hemetic 1/2 HP	2x500	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
9018 NFN	+5 / -25 °C	178x64x204	168x54x130	1180	140	R 507A	Hemetic 1 1/4 HP	1200	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
1510 NFN	+5 / -25 °C	197x64x204	187x54x130	1310	190	R507A	2 x Hemetic 3/4 HP	2x700	5+5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
2010 NFN	+5 / -25 °C	266x64x204	3x80x54x130	3x560	240	R507A	3 x Hemetic 1/2 HP	3x600	5+5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt

Series PM NFP +2 / +10 °C



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
LP460 NFP	+2 / +10 °C	46x55x108	36x45x600	100	210	R507A	Hemetic 1/4 HP	350	2	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
LP670 NFP	+2 / +10 °C	67x55x108	57x45x600	150	60	R507A	Hemetic 1/3 HP	400	2	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
0021 NFP	+2 / +10 °C	46x64x140	36x54x600	120	67	R507A	Hemetic 1/3 HP	450	3	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
0041 NFP	+2 / +10 °C	67x64x140	57x54x680	210	70	R507A	Hemetic 1/3+ HP	450	3	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
0051 NFP	+2 / +10 °C	76x64x140	66x54x680	240	75	R507A	Hemetic 1/3+ HP	450	3	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
2100 NFP	+2 / +10 °C	46x64x204	36x54x130	250	85	R507A	Hemetic 1/3+ HP	450	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
4100 NFP	+2 / +10 °C	67x64x204	57x54x130	400	80	R507A	Hemetic 1/2 HP	450	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
5100 NFP	+2 / +10 °C	76x64x204	66x54x130	460	97	R507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
9100 NFP	+2 / +10 °C	90x64x204	80x54x130	560	110	R507A	Hemetic 3/4 HP	600	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
7100 NFP	+2 / +10 °C	132x64x204	122x54x130	820	120	R507A	Hemetic 1 HP	700	5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
7100 XL NFP	+2 / +10 °C	132x76x204	122x66x130	1040	110	R507A	Hemetic 1 1/4 HP	800	5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
9120 NFP	+2 / +10 °C	90x64x204	2x36x54x130	250+250	120	R507A	2 x Hemetic 1/2 HP	2x400	5+5	opt	✓	✗	✓	✓	✗	AUT	Electric	No Frost	opt	opt

Series PM

NFP +2 / +10 °C



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
8100 NFP	+2 / +10 °C	132x64x204	2x57x54x130	2x400	140	R507A	2 x Hemetic 1/2 HP	2x500	5+5	opt	✓	✗	✓	✓	✗	AUT	Electric	No Frost	opt	opt
5010 NFP	+2 / +10 °C	67x89x204	57x79x130	590	75	R507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
5020 NFP	+2 / +10 °C	83x89x204	73x79x130	750	80	R507A	Hemetic 3/4 HP	700	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
5030 NFP	+2 / +10 °C	95x89x204	85x79x130	880	90	R507A	Hemetic 1 HP	800	5	opt	✓	✓	✓	✓	✗	AUT	Electric	No Frost	opt	opt
10010 NFP	+2 / +10 °C	132x89x204	2x57x79x130	2x590	160	R507A	2 x Hemetic 1/2+ HP	2x600	5+5	opt	✓	✗	✓	✓	✗	AUT	Electric	No Frost	opt	opt
9501 NFP	+2 / +10 °C	132x89x204	122x79x130	1250	140	R507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
9502 NFP	+2 / +10 °C	164x89x204	154x79x130	1580	150	R507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
10000 NFP	+2 / +10 °C	150x64x204	2x66x54x130	2x470	160	R507A	2 x Hemetic 1/2 HP	2x500	5+5	opt	✓	✗	✓	✓	✗	AUT	Electric	No Frost	opt	opt
9018 NFP	+2 / +10 °C	178x64x204	168x54x130	1180	140	R507A	Hemetic 1 1/4 HP	1200	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
1510 NFP	+2 / +10 °C	197x64x204	187x54x130	1312	170	R507A	Hemetic 1 1/4 HP	1000	5+5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
2010 NFP	+2 / +10 °C	266x64x204	3x80x54x130	3x560	240	R507A	3 x Hemetic 1/2 HP	3x600	5+5+5	opt	✓	✗	✓	✓	✗	AUT	Electric	No Frost	opt	opt
9100-s NFP	+2 / +10 °C	90x55x204	80x45x130	470	75	R507A	Hemetic 1/2+ HP	600	5	✗	✓	✗	sliding	✓	✗	AUT	Electric	No Frost	opt	opt
7100-s NFP	+2 / +10 °C	132x55x204	122x45x130	710	95	R507A	Hemetic 3/4 HP	700	5	✗	✓	✗	sliding	✓	✗	AUT	Electric	No Frost	opt	opt
10100-s NFP	+2 / +10 °C	150x55x204	140x45x130	820	130	R507A	Hemetic 1 HP	800	5+5	✗	✓	✗	sliding	✓	✗	AUT	Electric	No Frost	opt	opt
9018-s NFP	+2 / +10 °C	178x55x204	168x45x130	980	130	R507A	Hemetic 1 HP	800	5+5	✗	✓	✗	sliding	✓	✗	AUT	Electric	No Frost	opt	opt

Lab Line

The LAB LINE is projected for an intensive LAB Use. The Hermetic compressors are over-dimensioned in order to assure a rapid temperature recovery even with frequent door opening.

LAB LINE refrigerators and freezers are made in **S/Steel Laminated Plate** for a **Bacteria-static activity** or in **AISI 304**.

They can be configured with Drawers (CS1, CS2), Pull-out Shelves (SH1, SH2) or S/Steel Shelves or Grids, according to the user specifications. Also, in each one, freezer or refrigerator, can be installed a Glass or Solid door (standard).

The doors, upon request, are equipped with a **Self-Closing System** for easy and safe.

All of them are equipped with a **TOUCH SCREEN DATA LOGGER** which can assure the highest standard of safe storage and a complete control of all functions allowing a prompt action in case of faults. From a USB door the user can download reports and graphics time by time.

Inside each LAB LINE refrigerator and freezer is installed a **PT100 Probe** and the refrigerators are controlled by **Micro-processor DUAL CORE**.

On any refrigerators and freezers LAB LINE can be installed an **Access Control System** by Password which allow to open the Electronic Lock and check every door opening recording on a SD Card a complete **Event List**.

CE Certified.



Optional



Series LB

NFN +5 / -25 °C



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
LP460 NFN	+2 / +10 °C	46x55x108	36x45x600	100	210	R507A	Hemetic 1/4 HP	350	2	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
LP670 NFN	+2 / +10 °C	67x55x108	57x45x600	150	60	R507A	Hemetic 1/3 HP	400	2	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
0020 NFN0020 NFN	+5 / -25 °C	46x64x140	36x54x600	120	50	R507A	Hemetic 1/3 HP	350	3	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
0040 NFN0040 NFN	+5 / -25 °C	67x64x140	57x54x680	210	55	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
0050 NFN0050 NFN	+5 / -25 °C	76x64x140	66x54x680	240	60	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
4000 NFN4000 NFN	+5 / -25 °C	67x64x204	57x54x130	400	70	R507A	Hemetic 1/2+ HP	450	5	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
5000 NFN5000 NFN	+5 / -25 °C	76x64x204	66x54x130	460	75	R507A	Hemetic 1/2+ HP	450	5	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
5010 NFN5010 NFN	+5 / -25 °C	67x89x204	57x79x130	590	85	R507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
5020 NFN5020 NFN	+5 / -25 °C	83x89x204	73x79x130	750	95	R507A	Hemetic 3/4 HP	600	5	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
5030 NFN5030 NFN	+5 / -25 °C	95x89x204	85x79x130	880	105	R507A	Hemetic 3/4 HP	700	5	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
7000 NFN7000 NFN	+5 / -25 °C	132x64x204	122x54x130	820	110	R507A	Hemetic 1 HP	900	5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt
7000 XL NFN7000 XL NFN	+5 / -25 °C	132x76x204	122x66x130	1040	120	R507A	Hemetic 1 HP	900	5+5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt
9000 NFN/	+5 / -25 °C	90x64x204	80x54x130	560	85	R507A	Hemetic 3/4 HP	450	5	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
8000 NFN8000 NFN	+5 / -25 °C	132x64x204	2x57x54x130	2x400	125	R507A	2 x Hemetic 1/2 HP	2x400	5+5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt
10000 NFN10000 NFN	+5 / -25 °C	150x64x204	2x66x54x130	2x470	130	R507A	2 x Hemetic 1/2 HP	2x500	5+5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt
9501 NFN	+5 / -25 °C	132x89x204	122x79x130	1250	130	R507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt
9502 NFN	+5 / -25 °C	164x89x204	154x79x130	1580	140	R507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt

Series LB

NFP +2 / +10 °C



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
LP460 NFP	+2 / +10 °C	46x55x108	36x45x600	100	210	R507A	Hemetic 1/4 HP	350	2	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
LP670 NFP	+2 / +10 °C	67x55x108	57x45x600	150	60	R507A	Hemetic 1/3 HP	400	2	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
0020 NFP0020 NFP	+2 / +10 °C	46x64x140	36x54x600	120	55	R507A	Hemetic 1/3 HP	350	3	opt	✓	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
0040 NFP0040 NFP	+2 / +10 °C	67x64x140	57x54x680	210	60	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
0050 NFP0050 NFP	+2 / +10 °C	76x64x140	66x54x680	240	70	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
4000 NFP4000 NFP	+2 / +10 °C	67x64x204	57x54x130	400	75	R507A	Hemetic 1/2+ HP	450	5	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
5000 NFP5000 NFP	+2 / +10 °C	76x64x204	66x54x130	460	85	R507A	Hemetic 1/2+ HP	450	5	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
5010 NFP5010 NFP	+2 / +10 °C	67x89x204	57x79x130	590	95	R507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
5020 NFP5020 NFP	+2 / +10 °C	83x89x204	73x79x130	750	105	R507A	Hemetic 3/4 HP	600	5	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
5030 NFP5030 NFP	+2 / +10 °C	95x89x204	85x79x130	880	110	R507A	Hemetic 3/4 HP	700	5	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
7000 NFP7000 NFP	+2 / +10 °C	132x64x204	122x54x130	820	120	R507A	Hemetic 1 HP	900	5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt
7000 XL NFP7000 XL NFP	+2 / +10 °C	132x76x204	122x66x130	1040	85	R507A	Hemetic 1 HP	900	5+5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt
9000 NFP	+2 / +10 °C	90x64x204	80x54x130	560	125	R507A	Hemetic 3/4 HP	450	5	opt	✓	✓	✗	✗	✓	AUT	Electric	No Frost	opt	opt
8000 NFP8000 NFP	+2 / +10 °C	132x64x204	2x57x54x130	2x400	130	R507A	2 x Hemetic 1/2 HP	2x400	5+5	opt	✓	✗	✓	✗	✓	AUT	Electric	No Frost	opt	opt
10000 NFP10000 NFP	+2 / +10 °C	150x64x204	2x66x54x130	2x470	130	R507A	2 x Hemetic 1/2 HP	2x500	5+5	opt	✓	✗	✓	✗	✓	AUT	Electric	No Frost	opt	opt
9501 NFP	+2 / +10 °C	132x89x204	122x79x130	1250	140	R507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt
9502 NFP	+2 / +10 °C	164x89x204	154x79x130	1580	150	R507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt

Double and multiple temperature line

The DOUBLE and MULTIPLE TEMPERATURE LINE has been created for Pharmacy and Laboratory use where is necessary to storage different kind of organic materials, samples or medication.

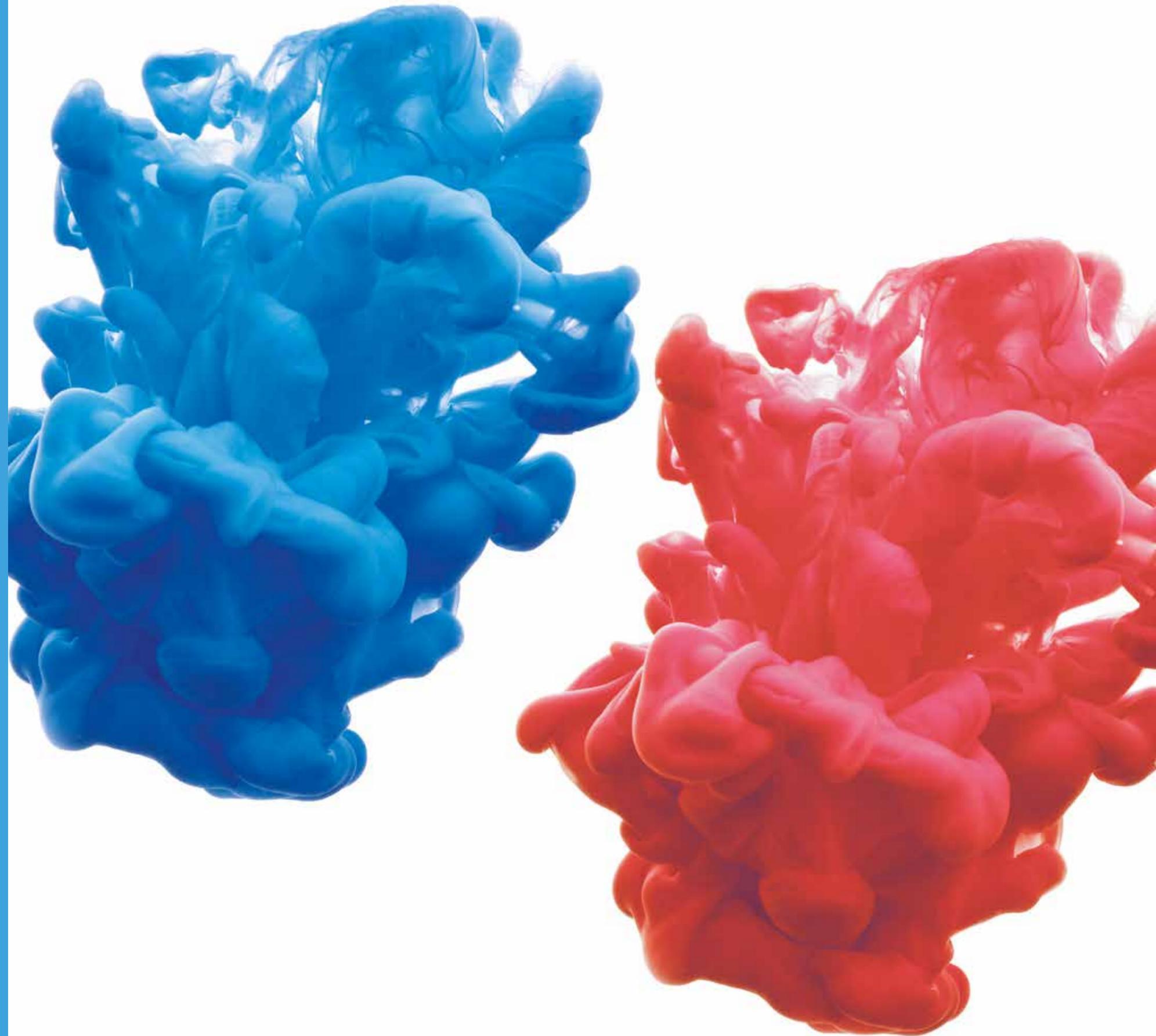
These particular refrigerators combine the characteristics of the PHARMA & MEDICAL LINE and the LAB LINE offering to the user a compact and extremely useful solution to storage any material or product for medical, hospital and laboratory use **saving space** and **power consumption**.

They can be equipped with **1, 2 or 4 hermetic compressors** in order to assure a rapid temperature recovery. Each one work independently and they can work as Back-up unit too in case of fault.

In each compartment is installed a **PT100 Probe** and the refrigerators are controlled by **Micro-processor DUAL CORE**. The installed **DATA LOGGER TOUCH SCREEN 5"** is technologically advanced and extremely user friendly showing the different temperature on the monitor.

From a USB door the user can download reports and graphics time by time.

CE Certified.



Optional

Series MT



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
2102 CB2102 CB	+5 / -25 °C +2 / +10 °C	46x64x204	36x54x35 36x54x70	70 130	90	R507A	Hemetic 1/2 HP	400	1+4	opt	1	✗	✓	✓	✗	AUT	Hot gas electric	No Frost	opt	opt
2000 CB2000 CB	+5 / -25 °C +2 / +10 °C	46x64x204	36x54x35 36x54x70	70 130	85	R507A	Hemetic 1/2 HP	400	1+4	opt	1	✗	✓	✗	✓	AUT	Hot gas electric	No Frost	opt	opt
4102 CB4102 CB	+5 / -25 °C +2 / +10 °C	67x64x204	57x54x35 57x54x78	110 220	105	R507A	Hemetic 1/2+ HP	450	1+4	opt	1	✗	✓	✓	✗	AUT	Hot gas electric	No Frost	opt	opt
4000 CB4000 CB	+5 / -25 °C +2 / +10 °C	67x64x204	57x54x35 57x54x78	110 220	100	R507A	Hemetic 1/2+ HP	450	1+4	opt	1	✗	✓	✗	✓	AUT	Hot gas electric	No Frost	opt	opt
9102 CB9102 CB	+5 / -25 °C +2 / +10 °C	90x64x204	80x54x35 80x54x78	150 340	115	R507A	Hemetic 3/4 HP	600	1+4	opt	1	✗	✓	✓	✗	AUT	Hot gas electric	No Frost	opt	opt
9000 CB9000 CB	+5 / -25 °C +2 / +10 °C	90x64x204	80x54x35 80x54x78	150 340	110	R507A	Hemetic 3/4 HP	600	1+4	opt	1	✗	✓	✗	✓	AUT	Hot gas electric	No Frost	opt	opt
9120 CB9120 CB	+5 / -25 °C +2 / +10 °C	90x64x204	36x54x130 36x54x130	250 250	115	R507A	2 x Hemetic 1/2 HP	2 x 400	5+5	opt	1	✗	✓	✓	✗	AUT	Hot gas electric	No Frost	opt	opt
9020 CB9020 CB	+5 / -25 °C +2 / +10 °C	90x64x204	36x54x130 36x54x130	250 250	100	R507A	2 x Hemetic 1/2 HP	3 x 400	5+5	opt	1	✗	✓	✗	✓	AUT	Hot gas electric	No Frost	opt	opt
5010 CB	+5 / -25 °C +2 / +10 °C	67x89x204	57x79x35 57x79x78	160 350	210	R507A	Hemetic 3/4 HP	700	1+4	opt	1	✗	✓	opt	✓	AUT	Hot gas electric	No Frost	opt	opt
5020 CB	+5 / -25 °C +2 / +10 °C	83x89x204	72x79x35 72x79x78	200 440	210	R507A	Hemetic 1 HP	900	1+4	opt	1	✗	✓	opt	✓	AUT	Hot gas electric	No Frost	opt	opt
5030 CB5030 CB	+5 / -25 °C +2 / +10 °C	95x89x204	85x79x35 85x79x78	235 530	210	R507A	Hemetic 1 HP	900	1+4	opt	1	✗	✓	opt	✓	AUT	Hot gas electric	No Frost	opt	opt
8000 4T8000 4T	+5 / -25 °C +2 / +10 °C	132x64x204	2x57x54x35 2x57x54x78	2x110 2x220	210	R507A	2 x Hemetic 3/4 HP	2 x 600	1+4 1+4	opt	1	✗	✓	✓	✗	AUT	Hot gas electric	No Frost	opt	opt
8100 4T8100 4T	+5 / -25 °C +2 / +10 °C	132x64x204	2x57x54x35 2x57x54x78	2x110 2x220	210	R507A	2 x Hemetic 3/4 HP	2 x 600	1+4 1+4	opt	1	✗	4	✗	✓	AUT	Hot gas electric	No Frost	opt	opt
8100 4T slim	+5 / -25 °C +2 / +10 °C	132x55x204	2x57x44x35 2x57x44x78	2x85 2x190	210	R507A	2 x Hemetic 3/4 HP	2 x 600	1+4 1+4	opt	1	✗	4	✓	✗	AUT	Hot gas electric	No Frost	opt	opt
8000 4T slim	+5 / -25 °C +2 / +10 °C	132x55x204	2x57x44x35 2x57x44x78	2x85 2x190	210	R507A	2 x Hemetic 3/4 HP	2 x 600	1+4 1+4	opt	1	✗	4	✗	✓	AUT	Hot gas electric	No Frost	opt	opt
10010 4T	+5 / -25 °C +2 / +10 °C	132x89x204	2x57x79x35 2x57x79x78	2x160 2x350	210	R507A	2 x Hemetic 1 HP	2 x 900	1+4 1+4	opt	1	✗	4	opt	✓	AUT	Hot gas electric	No Frost	opt	opt

Blood Line “Emo”

The characteristics of this series represent the answer to all conservation requirements of blood samples, blood bags, platelets and red blood cells. TEKNA has realized complete series of blood bank refrigerators starting from **80lts up to 1600lt** and above in order to satisfy requests of little and big blood transfusion centers for hospitals, care houses, analysis laboratories, surgery rooms, etc. The temperature SET POINT is **+4 °C** with a maximum **DELTA of 1 °C**. Extremely stable.

All our refrigerators Series EMO are made in **S/Steel Laminated Plate** for a **Bacteria-static activity** or in **AISI 304**. They can be equipped with **Dual Cooling System (TC)** in order to assure a rapid temperature recovery and a Back-up unit in case of fault. In each one of them is installed a **PT100 Probe** and the refrigerators are controlled by **Micro-processor DUAL CORE**. The installed **DATA LOGGER TOUCH SCREEN 5”** is technologically advanced and extremely user friendly. From a USB door the user can download daily, weekly, monthly or yearly reports and graphics.

The refrigerators Series EMO use an **Access Control System** by Password which allow to open the Electronic Lock and check every door opening recording on a SD Card a complete **Event List**.

The **Ventilated Cooling System** ensures a uniform temperature inside the chamber and the **NO FROST System** avoids any condensing water inside or on the glass door.

The Blood Line Series EMO refrigerators can be validated, following GMP rules, as regards T uniformity and stability.

All our refrigerators Blood Bank, like all the others models, can be connected to the **BMS** and **ONLINE** through a **WI-FI** or a **3G BRIDGE** for a remote control.

CE Certified. Medical Device CLASS IIA.



Optional



Series BB NFP +4 °C



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
0021 NFP EMO	+4 °C	46x64x140	36x54x600	120	55	R507A	Hemetic 1/3 HP	350	3	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
0041 NFP EMO	+4 °C	67x64x140	57x54x680	210	60	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
0051 NFP EMO	+4 °C	76x64x140	66x54x680	240	70	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
2100 NFP EMO	+4 °C	46x64x204	36x54x130	250	85	R507A	Hemetic 1/3+ HP	450	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
4100 NFP EMO	+4 °C	67x64x204	57x54x130	400	80	R507A	Hemetic 1/2 HP	450	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
5010 NFP EMO	+4 °C	67x89x204	57x79x130	590	95	R507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
5020 NFP EMO	+4 °C	83x89x204	73x79x130	750	105	R507A	Hemetic 3/4 HP	600	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
5030 NFP EMO	+4 °C	95x89x204	85x79x130	880	110	R507A	Hemetic 3/4 HP	700	5	opt	✓	✓	✗	✓	✗	AUT	Electric	No Frost	opt	opt
7100 NFP EMO	+4 °C	132x64x204	122x54x130	820	120	R507A	Hemetic 1 HP	900	5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
7100 XL NFP EMO	+4 °C	132x76x204	122x66x130	1040	85	R507A	Hemetic 1 HP	900	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
9501 NFP EMO	+4 °C	132x89x204	122x79x130	1250	140	R507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt
9502 NFP EMO	+4 °C	164x89x204	154x79x130	1580	150	R507A	Hemetic 1 1/4 HP	1000	5+5	opt	✓	✗	✓	✓	✗	AUT	Hot gas	No Frost	opt	opt

Deep Freezers and Plasma Freezers

This range of freezer is suitable to storage medical product, samples or frozen plasma bags till $-40\text{ }^{\circ}\text{C}$. It is a range of Deep Freezers created to offer a competitive solution to laboratories, blood and plasma centers. Our Freezers are easy to use and extremely safe guaranteeing **low power consumption**. They are not made to freeze the Plasma but to storage it **respecting the EU and WHO rules** and recommendations, in fact the plasma bags can be storage to a temperature between **$-30\text{ }^{\circ}\text{C}$ and $-35\text{ }^{\circ}\text{C}$** for a maximum period of **1 year and half**.

All our DEEP AND PLASMA FREEZERS are made in **S/Steel Laminated Plate** for a **Bacteria-static activity** or in AISI 304. They are equipped with Dual Cooling System (TC) and Dual Fan on the Evaporator in order to assure a rapid temperature recovery and a Back-up unit in case of fault. In each one of them is installed a **PT100 Probe** and the refrigerators are controlled by **Micro-processor DUAL CORE**. The installed **DATA LOGGER TOUCH SCREEN 5"** is technologically advanced and extremely user friendly. From a USB door the user can download daily, weekly, monthly or yearly reports and graphics.

They can be configured with Drawers (CS1, CS2), S/Steel Shelves or Grids, according to the user specifications. All the doors are Solid and the **Ventilated Cooling System** ensure a uniform temperature inside the chamber and the **NO FROST System** which avoid any icy water condensation.

CE Certified.



Optional



Series DFP NFA +0 / -40 °C



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
1SBM NFA	+0 / -40 °C	111x55x88	57x45x60	105	55	R507A	Hemetic 1 HP	900	2	✗	opt	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
0040 NFA	+0 / -40 °C	67x64x140	57x54x680	210	60	R507A	Hemetic 1 HP	900	2	✗	opt	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
0050 NFA	+0 / -40 °C	76x64x140	66x54x680	240	70	R507A	Hemetic 1 HP	900	2	✗	opt	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
4000 NFA	+0 / -40 °C	67x64x204	57x54x130	400	80	R507A	Hemetic 1 1/4 HP	1000	5	✗	opt	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
5000 NFA	+0 / -40 °C	76x64x204	66x54x130	460	85	R507A	Hemetic 1 1/4 HP	1000	5	✗	opt	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
5010 NFA	+0 / -40 °C	67x89x204	57x79x130	590	100	R507A	2 x Hemetic 1 HP	2x900	5	✗	opt	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
5020 NFA	+0 / -40 °C	83x89x204	73x79x130	750	110	R507A	2 x Hemetic 1 HP	2x900	5	✗	opt	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
5030 NFA	+0 / -40 °C	95x89x204	85x79x130	810	130	R507A	2 x Hemetic 1 HP	2x900	5	✗	opt	✓	✗	✗	✓	AUT	Hot gas	No Frost	opt	opt
10010 NFA	+0 / -40 °C	132x89x204	2x57x79x130	120	180	R507A	4 x Hemetic 1 HP	4x900	5+5	✗	opt	✗	✓	✗	✓	AUT	Hot gas	No Frost	opt	opt

Pass-Through

TEKNALAB **PASS-THROUGH LINE** has been studied to satisfy the necessities of the most advanced laboratory and blood centers. They have the same characteristics of the Medical Line but in addition **the door opening is alternated** and it is **controlled by the electronic board**. This will assure a **complete insulation between the rooms** where the refrigerator is located. The access also can be restricted and a password will be required to open the electronic locks.

The **PASS-THROUGH** refrigerators are made in **S/Steel Laminated Plate** for a **Bacteria-static activity** or in **AISI 304**.

They can be configured with Pull-out Shelves (SH1, SH2), S/Steel Shelves or Grids.

The **Ventilated Cooling System** ensures a uniform temperature inside the chamber and the **NO FROST System** avoids any condensing water inside or on the glass door.

The doors of Pass-Through refrigerators have a **Self-Closing System** for a fast and safe closing.

The **TOUCH SCREEN DATA LOGGER** assures a complete control of all functions allowing a prompt action in case of faults and it controls any access to the Pass-Through reporting a **complete accesses report**. From a USB door the user can download reports and graphics time by time.

Every Pass-Through can be mounted on **wheels** or on **feet** according to customer specifications and laboratory requirements.

LED light are installed on both side for the **maximum visibility of the products temporary stored inside**.

CE Certified.



Optional

Series PT



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
4100 PT	+2 / +10 °C	67x64x204	57x54x130	400	80	R507A	Hemetic 1/2 HP	450	5	opt	✓	✓	✗	✓	opt	AUT	Electric	No Frost	opt	opt
5010 PT	+2 / +10 °C	67x89x204	57x79x130	590	95	R507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	opt	✓	AUT	Electric	No Frost	opt	opt
5020 PT	+2 / +10 °C	83x89x204	73x79x130	750	105	R507A	Hemetic 3/4 HP	600	5	opt	✓	✓	✗	opt	✓	AUT	Electric	No Frost	opt	opt
5030 PT	+2 / +10 °C	95x89x204	85x79x130	880	110	R507A	Hemetic 3/4 HP	700	5	opt	✓	✓	✗	opt	✓	AUT	Electric	No Frost	opt	opt
8100 PT	+2 / +10 °C	132x64x204	2x57x54x130	2x400	130	R507A	2 x Hemetic 1/2 HP	2x400	5+5	opt	✓	✗	✓	✓	opt	AUT	Electric	No Frost	opt	opt
10010 PT	+2 / +10 °C	132x89x204	2x57x79x130	2x590	160	R507A	2 x Hemetic 1/2+ HP	2x600	5+5	opt	✓	✗	✓	opt	✓	AUT	Electric	No Frost	opt	opt

Ultra Low Freezer

-86 °C

TEKNALAB is always innovative and gets inspiration by the news from informatics, electronics and thermodynamics. TEKNALAB has thought a controller with a technology based on micro-processor **ARM9 Dual Core** and it has an Operative System Linux and it is a true on-board computer. The new controller has a graphic interface touch screen **TFT DISPLAY**.

This processor has a high capacity of memory RAM and it has an user interface so direct, that anyone will find it really user-friendly. In order to **guarantying the maximum connectivity and traceability** the Ultra Low Temperature Freezers **Series HPL**, with the new smart controller, **can have a full connectivity with the laboratory and hospital environmental, by means of:**

Slot USB, Slot SIM, Wi-Fi, Ethernet wired, and RS485 port with ModBus protocol. Above all, the Wi-Fi connection will make the HPL freezer visible in the LAN of the hospital or of the industrial laboratory. **From a PC workstation, connected in the same network as the freezer, through the browser, you can connect with the refrigeration unit by typing the IP address of the same. Or, from any Internet terminal in the world will be able to connect to the refrigeration unit accessing the static IP address of the company, whose network is connected in the freezer, of course having the login credentials, which may be granted by the administrator corporate network.**

The controller also warrants a full traceability, since the system continuously records, at high frequency, the functional data, bar codes, or other forms of coding, combining them with the freezing or cryo preservation process, etc. The user, without needing any specific SW, will be able to transfer the data to PC and/or to LAN in a very friendly way thanks to the standards which are developed in compliance with Windows. The smart controller has been designed to guarantee an integrated safety about all the functions, through the regulation and the management of the refrigeration power. The data recording complies with the most evolved standards, like GMP, JACIE, FACT, and so on. **There is also the availability of a temperature – time graphic, with no need to install a specific recorder.**

The new controller assures safer procedures, automatic recording of the data and shorter working time for the technician.

In fact it obtains the maximum saving for the procedures of freezing, storage, by the automatic writing of the introduced items, by the automatic recording of materials and thermal cycle, and their association. In this way it obtains to amend many errors and many not conformities of the laboratory processes, and in last analysis it gives a sensible saving of the indirect costs.

Structure. The external cabinet is a plasticized, zinc-plated steel sheet with

rounded edges for maximum ergonomics; **Internal casing in AISI 304 S/Steel** (or AISI 316 upon request) with rounded angles for easy cleaning; no.4 insulated internal counter doors (n.5 upon request) for upright models; the handle has an ergonomic design and key lock; pivoting wheels to facilitate transportation and placement inside the laboratory; not heated pressure-compensation valve to facilitate the operation of opening the door, Insulation is in CFC- and HCFC-free polyurethane resin foamed on site, with a density of **40 Kg. /m³ and with an average thickness of 140 mm or more.**

Gaskets. Triple silicone rubber seal, welded joints, heated by the refrigerant itself and with virtually unlimited duration.

Cooling System at -86 °C.

The refrigeration system is fully sealed; it uses a cascade circuit with innovative components and fluids to obtain, together, maximum cooling reliability and performance; 2 silent, airtight compressors (dB <55) with a high refrigeration capacity; the refrigerants are non-toxic, non-flammable, non-explosive and environmentally friendly. The condensation is obtained with forced air circulation; on request, water condenser.

Voltage stabilizer. 4,000-VA voltage regulation, capable of compensating the fluctuations of the utility power supply ($\pm 15\%$), protecting the compressors and guaranteeing a long useful life.

Medical Device.
CE Certified Class IIA.



Optional



Series UF

TK55



TK60



TK58



TK62



MODELS	TYPE	TEMPERATURE	OUTER DIMENSIONS	CAPACITY (LT)	SHELVES/COMPARTMENTS	208/230 60 HZ	115/60 hz
TK57	UPRIGHT	-40 / -86 °C	80x79x132	125	2/2	opt	opt
TK56	UPRIGHT	-40 / -86 °C	80x79x188	250	4/4	opt	opt
TK58	UPRIGHT	-40 / -86 °C	96x80x188	354	4/4	opt	opt
TK60	UPRIGHT	-40 / -86 °C	97x96x184	505	4/4	opt	opt
TK62	UPRIGHT	-40 / -86 °C	106x90x199	604	4/4	opt	opt
TK64	UPRIGHT	-40 / -86 °C	106x100x199	706	4/4	opt	opt
TK66	UPRIGHT	-40 / -86 °C	110x103x199	806	4/4	opt	opt
TKC52	HORIZONTAL	-40 / -86 °C	90x100x124	110	---	opt	opt
TKC54	HORIZONTAL	-40 / -86 °C	150x86x124	230	---	opt	opt
TKC55	HORIZONTAL	-40 / -86 °C	195x88x112	480	---	opt	opt
TKC5578	HORIZONTAL	-40 / -86 °C	249x96,5x112	785	---	opt	opt

Rapid Freezers

TEKNALAB in addition to the -40 °C liquid bath freezer, proposes an alternative solution, satisfying however the technical advices and the normative in place, on the freezing time of the plasma bags.

The adapted principal of thermal exchange, in this case, does not use a cold bath at - 40 °C, but -75 °C/-80 °C surfaces, with which the bags are in direct contact.

The plasma bags, to be frozen, are immersed, vertically, in wells in which the walls are at least -75 °C -80 °C. The geometry of the wells is conical, to simplify extraction and formation of the solid bag, without any impediment for the increase in volume which happens when there is a passing in state from liquid to solid.

RAPIDITY FREEZING. The bag is in contact with the surfaces of the wells and intense extraction of thermal energy is obtained in this manner, **minimizing in this way the freezing time: < 45 ' for 24 or 48 (450 ml.)** nominal standard bags, with a net content of plasma of at least 230 cc. and an initial temperature between + 25 °C and + 30 °C TEKNALAB has undertaken tests with bags with a mass of 260 gr. each.

These data confirm the good quality of frozen fresh plasma, with freezing quick system of TEKNALAB Fast Freezer.

The storage solution in vertical encounters, in fact, all the freezing advantages of the horizontal freezers, leaving the vertical placement of the plasma bags salvaged. The surface of the wells is smooth and in **INOX Steel**, without edges, and therefore permit the safe storage against accidental breaks or bumps of the bags; permits furthermore the eventual download of liquids exiting due to breakage, from the bottom, or the successive condensation to a freezing

and maintenance stop, be means of outlets (one for each well), all gathered and leading to a single external tube.

TEMPERATURE UNIFORMITY.

Minimum alteration of the internal T during the loading phase of the plasma bags seeing as the movement is minimal from the internal cold air, that tends to remain on the bottom of the wells guaranteeing good cooling – freezing during the bag contact – well walls.

VERTICAL FREEZING. Simplifies the bag immersion seeing as the operator does not feel the intense coldness from the wells and no air bubble inside the bags, with minimum breakage risk of the bags; the shape of frozen bag is like a tile, so the following phase of storage is easier.

SPATIAL DISTRIBUTION of BAGS.

In conventional freezer, with horizontal shelves, the plasma bags are often stored on one another and air distribution is not perfect. It follows that freezing of the individual pockets varies considerably. In contrast, the freezing procedure proposed by KW guarantees identical conditions of freezing for each individual bag, with consequent higher yields of factor VIII and more reliable. The shape of the bag is very compact, in the form of a thin parallelepiped, and allows easy storage.

BAGS TEMPERATURE RECORDER.

The “Bag Temperature Recorder” device, from now on called RTS System, use the tab touch TFT display 7“ with dedicated software and the quick freezer board with dedicated firmware, as acquirer of temperature together with the

compatibility of the application for PC Freezing Tracer for reading the graphs of the freezing process and the codes of pockets Functionality:

Reading and recording up to a maximum of 8 PT100 channels (6 + 2).

Association of barcodes relative to the bags in abatement related to the circuit temperature air/sample bag (there is a differentiation of the air probe and probe pockets sample).

Selection through display of the probe of active registration; with exclusion of the visualization and tracking of the remaining probes excluded, with the exception of the probe in the cabinet that remains always enabled.

On the side of the display mentioned, there are functional leds:

COOLING indicates that the refrigerator installation is working.

ALARM indicates the process value is out of acceptable range of T, with respect to the set point, having to do with the min / max alarm T default T set 10°C. This alarm is both optical and visual and may be turned off by acting on the BUZZER OFF indicates the visual alarm (red led turned on) persists until the system does not exit from the alarm conditions.

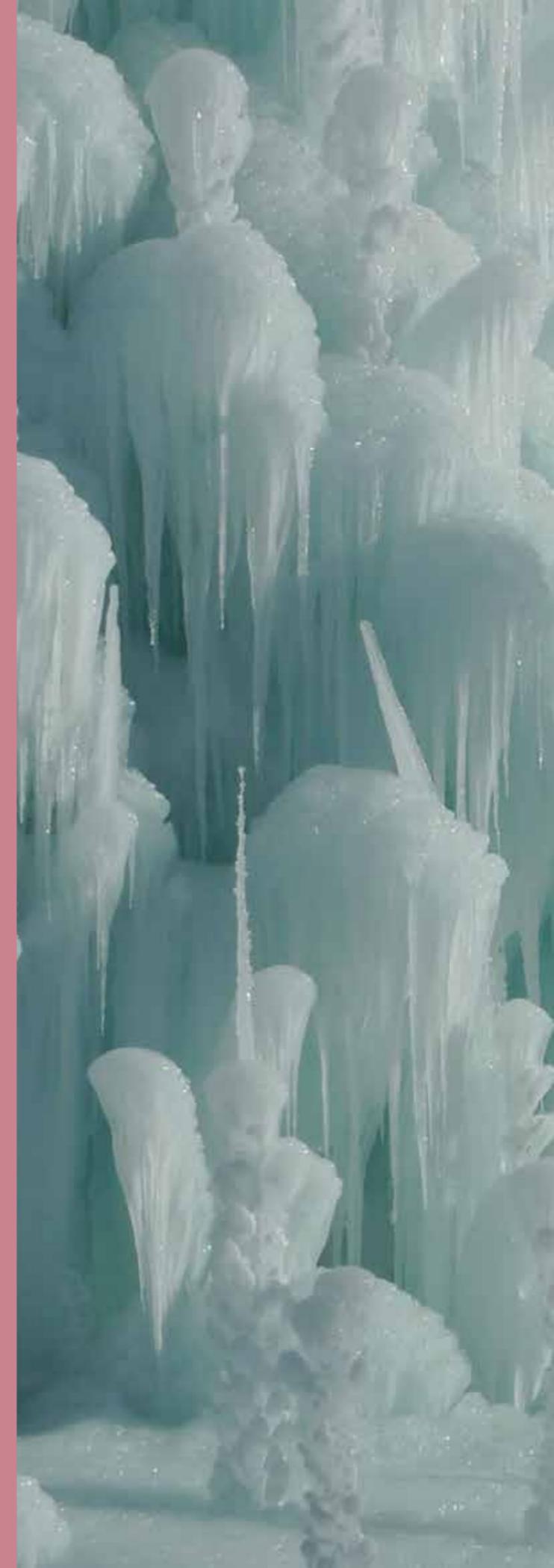
Enable output on/off switch to stop the cycle of freezing when the pre-set temperature is reached in all pockets connected during the test cycle of freezing data management

Historization cycles/codes on SD Card
Export of cycles/codes via USB port
Reading and printing cycles/codes through the application Freezing Tracer

Medical Device.
CE Certified Class IIA.



Optional



Series PF

TKPFF24B



TKPFF48B

MODELS	TYPE	TEMPERATURE	OUTER DIMENSIONS	BAG CAPACITY	POWER SUPPLY	208/230 60 HZ	400/3/60+N+E
TKPFF24B	HORIZONTAL	-40 / -86 °C	120x84x126	24	230/1/50	opt	opt
TKPFF48B	HORIZONTAL	-40 / -86 °C	179x84x126	48	400/3/50+N+E	opt	opt

Under-counters

TEKNALAB is proud to introduce its UNDER-COUNTERS LINE for LABORATORY and MEDICAL USE. Our under-counters refrigerators and freezers offer a wide range of solution to match the necessities of the modern laboratories, hospitals and medical centers starting from the single door compact unit like the model TKC200 UC to and up with the model 4SBM CB UC.

TEKNALINE under-counters are available in different configuration: **NEGATIVE, POSITIVE or DUAL TEMPERATURES** and are available with **1, 2, 3 or 4 doors and independent compartments**.

The cooling system, in the SBM line, is accessible from the front side and it allows the technicians to operate in easy way when the service should be required, in fact there is not necessity to move or shift the under-counter from its own position to work on the condensing unit or on the compressor.

On each door have the self-closing system, safety lock and **on the SBM Line can be installed a work top made in INOX, AISI 304 S/Steel or CORIAN** and according to the user specifications **with or without back splash**. It is very important because each one of our under-counter can be coordinated to the laboratory set-up.

They are equipped with a **TOUCH SCREEN DATA LOGGER 5"** which can assure the highest standard of safe storage and a complete control of all functions allowing a prompt action in case of faults and from a USB door the user can download reports and graphics time by time. Also they can operate with a **DIGITAL TEMPERATURE CONTROLLER** in addition to an **INKLESS CHART RECORDER**.

All the refrigerators can be connected to the **BMS** and **ONLINE** through a **WI-FI** or a **3G BRIDGE** for remote control.

CE Certified.



Optional

Series UC



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
0 SBM NFP	+2 / +10 °C	90x55x88	36x45x60	100	55	R507A	Hemetic 1/3 HP	350	1	✗	✓	✓	✗	✓	opt	AUT	Electric	No Frost	opt	opt
0 SBM NFN	+5 / -25 °C	90x55x88	36x45x60	100	55	R507A	Hemetic 1/3 HP	350	1	✗	✓	✓	✗	✓	opt	AUT	Hot gas	No Frost	opt	opt
1 SBM NFP	+2 / +10 °C	111x55x88	57x45x60	150	75	R507A	Hemetic 1/2 HP	400	1	✗	✓	✓	✗	✓	opt	AUT	Electric	No Frost	opt	opt
1 SBM NFN	+5 / -25 °C	111x55x88	57x45x60	150	75	R507A	Hemetic 1/2 HP	400	1	✗	✓	✓	✗	✓	opt	AUT	Hot gas	No Frost	opt	opt
2 SBM NFP	+2 / +10 °C	134x55x88	80x45x60	210	90	R507A	Hemetic 1/2+ HP	600	1	✗	✓	✗	✓	✓	opt	AUT	Electric	No Frost	opt	opt
2 SBM NFN	+5 / -25 °C	134x55x88	80x45x60	210	90	R507A	Hemetic 1/2+ HP	600	1	✗	✓	✗	✓	✓	opt	AUT	Hot gas	No Frost	opt	opt
2 SBM CB	+5 / -25 °C +2 / +10 °C	134x55x88	36x45x60 36x45x60	100 100	95	R507A	Hemetic 3/4 HP	600	1+1	✗	✓	✗	✓	✓	opt	AUT	Hot gas electric	No Frost	opt	opt
3 SBM NFP	+2 / +10 °C	178x55x88	115x45x60	325	110	R507A	Hemetic 1 1/4 HP	1000	1	✗	✓	✗	✓	✓	opt	AUT	Electric	No Frost	opt	opt
3 SBM NFN	+5 / -25 °C	178x55x88	115x45x60	325	110	R507A	Hemetic 1 1/4 HP	1000	1	✗	✓	✗	✓	✓	opt	AUT	Hot gas	No Frost	opt	opt
3 SBM CB	+5 / -25 °C +2 / +10 °C	178x55x88	80x45x60 36x45x60	210 100	115	R507A	Hemetic 3/4 HP	600	1+1	✗	✓	✗	✓	✓	opt	AUT	Hot gas electric	No Frost	opt	opt
4 SBM NFP	+2 / +10 °C	220x55x88	170x45x60	460	130	R507A	Hemetic 3/4 HP	600	2	✗	✓	✗	✓	✓	opt	AUT	Electric	No Frost	opt	opt
4 SBM NFN	+5 / -25 °C	220x55x88	170x45x60	460	130	R507A	Hemetic 3/4 HP	600	2	✗	✓	✗	✓	✓	opt	AUT	Hot gas	No Frost	opt	opt
4 SBM CB	+5 / -25 °C +2 / +10 °C	220x55x88	80x45x60 80x45x60	210 210	140	R507A	Hemetic 1 HP	900	1+1	✗	✓	✗	✓	✓	opt	AUT	Hot gas electric	No Frost	opt	opt
TKL200	+2 / +10 °C	60x62x83	48x50x64	150	50	R600A	Hemetic 1/4 HP	200	2	✗	✓	✓	✗	✓	opt	AUT	Electric	No Frost	opt	opt

Refrigerated Transportable Containers

The **REFRIGERATED TRANSPORTABLE CONTAINERS** are available in 3 different models and volumes.

Made of **High-strength Polyethylene**, using a roto-molding system, they offer the **best durability and efficiency in an aseptic condition, even with high external temperature (until +45 °C)**.

The Refrigerated Transportable Refrigerators are made **to shift and transport biological materials and samples, blood bags, plasma bags, organs and any kind of vaccine or medication**.

They are provided with **foldable handles** for easy carrying and are installed, using sturdy metal pins **to avoid sudden breakage**.

Inside, each refrigerator, is **equipped with a coated wire basket** that is useful for loading and removing the stored materials in a **safely way**. Inside, also, is installed a **High Efficiency LED Light** in order to operate in any condition. The refrigerators are equipped with a separate **S/Steel locking bracket to keep the refrigerator in place while underway, especially if is transported by helicopter, ambulance or if are transported on fractured roads**.

All the refrigerators are available with USB door and they can work with the following power range:

12 Volts, 24 Volts, 110 Volts, 230 Volts 50 or 60 Hz

AC and DC

The temperature is always stable thank to the **powerful cooling system**, which operate with a Hermetic Compressor and a **High Efficiency and Professional Evaporator**.

The temperature is always under control too. Depending on the type of portable refrigerator, there are thermostat choices for the maintenance of desired internal temperature:

MECHANICAL THERMOSTAT or LED THERMOSTAT, suitable for medication or medicine.

DIGITAL THERMOSTAT, suitable for blood, plasma, organs and reagents. Accuracy 0.1 °C

Definitely the best and most safe and reliable solution for the transport on the road or by air.

CE Certified.

Series RC



MODELS	CAPACITY (LT)	TEMPERATURE	POWER WATT
TKC29M 12-24	29	+10 / -15 °C	48
TKC29M 12-220	29	+10 / -15 °C	48
TKC29D 12-24	29	+10 / -15 °C	48
TKC29D 12-220	29	+10 / -15 °C	48
TKC41L 12-24	41	+10 / -15 °C	43
TKC41L 12-220	41	+10 / -15 °C	43
TKC41D 12-24	41	+10 / -15 °C	43
TKC41D 12-220	41	+10 / -15 °C	43
TKC65L 12-24	65	+10 / -20 °C	45
TKC65L 12-220	665	+10 / -20 °C	45
TKC65D 12-24	65	+10 / -20 °C	45
TKC65D 12-220	65	+10 / -20 °C	45



Optional

Warming cabinets

Being admitted to a medical facility can be stressful for any patient. Not only are patients often faced with the uncertainty of their health and well-being, they're also forced to spend time away from the comfort of their home. To help make their treatment and recuperation at your facility as comfortable and relaxed as possible, provide them with hospitable amenities, such as our medical blanket warmers. It may seem like a trivial detail, but a warm blanket or gown can work wonders in soothing and calming a nervous patient.

Whether **they are being used in emergency, delivery or recovery rooms, medical blanket warmers** will be a valuable addition to your facility. A useful tool for **increasing a patient's body temperature, heated blankets and linens can be used in numerous applications throughout any medical facility.**

Also, thanks their inside structure and to the installed **Digital Temperature Controllers and Timers they are used as Fluids Warmer and Breast Milk Warmer.**

TEKNALAB WARMING CABINETS can be made with **single or independent compartments** allowing the user to **set 2 different temperature at the same time or re-heat 2 different things.** They are designed to elevate blanket, breast milk or fluids temperature.

Features:

- Constructed with **Laminated Plate Steel exterior casing and S/Steel AISI 304 inside**
- Safety coated interior

- **Window glass or solid doors**
- The cabinet is warmed using the patented **TEKNA HOT SYSTEM®** with **HOT GAS** and low-heat-density electro-thermal cable, mounted on the bottom
- Each compartment can be equipped with **epoxy-coated blanket support assembly, S/Steel grids or shelves and drawers for fluids, breast milk and bottles.**
- Mounted on swivel wheels, two locking feet.

Controller:

- Each compartment is controlled by one electronic control which consists of a digit **L.E.D. display, ON/OFF key, heat indicator L.E.D., INCREASE and DECREASE keys, integrated LOCK** feature and a series of prompt sequence indicators
- Each control has an adjustable temperature range of **25° to 80 °C**
- Controls can easily be set to operate in **Celsius or Fahrenheit**
- Timer key allows the user to **program the control to automatically turn on and off once during a 24 hour period** at selected times
- In the event of a power failure, the **cabinet will remember its programming** and begin to operate as before
- A **warming shutoff system**, separate from the electronic control, prevents overheating

CE Certified.



Optional

Series WAC

HOT +25 / +80 °C



MODELS	TEMPERATURE	OUTER DIMENSIONS	INNER DIMENSIONS	CAPACITY (LT)	NET WEIGHT (KG)	GAS	COMPRESSOR TYPE	WATT	INNER SETTING			DOOR				DEFROST	DEFROST TYPE	REFRIGERATION TYPE	208/230 60 HZ	115/60 HZ
									GRIDS	DRAWERS	LED LIGHT	SINGLE	DOUBLE	GLASS	SOLID					
0020 HOT	+25 / +80 °C	46x64x140	36x54x600	120	55	R507A	Hemetic 1/3 HP	350	3	opt	✓	✓	✗	✗	✓	NO	---	---	opt	opt
0040 HOT	+25 / +80 °C	67x64x140	57x54x680	210	60	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✗	✓	NO	---	---	opt	opt
0050 HOT	+25 / +80 °C	76x64x140	66x54x680	240	70	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✗	✓	NO	---	---	opt	opt
0090 HOT	+25 / +80 °C	90x64x140	80x54x680	290	80	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✗	✓	NO	---	---	opt	opt
2000 HOT	+25 / +80 °C	46x64x204	36x54x130	250	85	R507A	Hemetic 1/3+ HP	450	5	opt	✓	✓	✗	✗	✓	NO	---	---	opt	opt
4000 HOT	+25 / +80 °C	67x64x204	57x54x130	400	80	R507A	Hemetic 1/2 HP	450	5	opt	✓	✓	✗	✗	✓	NO	---	---	opt	opt
5010 HOT	+25 / +80 °C	67x89x204	57x79x130	590	95	R507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	✗	✓	NO	---	---	opt	opt
2002 HOT	+25 / +80 °C +25 / +80 °C	46x64x204	36x54x35 36x54x70	70 130	85	R507A	Hemetic 1/2 HP	400	1+4	opt	1	✗	✓	✗	✓	NO	---	---	opt	opt
4002 HOT	+25 / +80 °C +25 / +80 °C	67x64x204	57x54x35 57x54x78	110 220	100	R507A	Hemetic 1/2+ HP	450	1+4	opt	1	✗	✓	✗	✓	NO	---	---	opt	opt
9020 HOT	+25 / +80 °C +25 / +80 °C	90x64x204	80x54x35 80x54x78	150 340	110	R507A	Hemetic 3/4 HP	600	1+4	opt	1	✗	✓	✗	✓	NO	---	---	opt	opt
0021 HOT	+25 / +80 °C	46x64x140	36x54x600	120	55	R507A	Hemetic 1/3 HP	350	3	opt	✓	✓	✗	✓	✗	NO	---	---	opt	opt
0041 HOT	+25 / +80 °C	67x64x140	57x54x680	210	60	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✓	✗	NO	---	---	opt	opt
0051 HOT	+25 / +80 °C	76x64x140	66x54x680	240	70	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✓	✗	NO	---	---	opt	opt
0091 HOT	+25 / +80 °C	90x64x140	80x54x680	290	80	R507A	Hemetic 1/2 HP	400	3	opt	✓	✓	✗	✓	✗	NO	---	---	opt	opt
2100 HOT	+25 / +80 °C	46x64x204	36x54x130	250	85	R507A	Hemetic 1/3+ HP	450	5	opt	✓	✓	✗	✓	✗	NO	---	---	opt	opt
4100 HOT	+25 / +80 °C	67x64x204	57x54x130	400	80	R507A	Hemetic 1/2 HP	450	5	opt	✓	✓	✗	✓	✗	NO	---	---	opt	opt
5010V HOT	+25 / +80 °C	67x89x204	57x79x130	590	95	R507A	Hemetic 1/2+ HP	600	5	opt	✓	✓	✗	✓	✗	NO	---	---	opt	opt
2102 HOT	+25 / +80 °C +25 / +80 °C	46x64x204	36x54x35 36x54x70	70 130	90	R507A	Hemetic 1/2 HP	400	1+4	opt	1	✗	✓	✓	✗	NO	---	---	opt	opt
4102 HOT	+25 / +80 °C +25 / +80 °C	67x64x204	57x54x35 57x54x78	110 220	105	R507A	Hemetic 1/2+ HP	450	1+4	opt	1	✗	✓	✓	✗	NO	---	---	opt	opt
9120HOT	+25 / +80 °C +25 / +80 °C	90x64x204	36x54x130 36x54x130	250 250	115	R507A	2 x Hemetic 1/2 HP	2 x 400	5+5	opt	1	✗	✓	✓	✗	NO	---	---	opt	opt

Incubators and Agitators

TEKNALAB has developed a new line of platelet incubators/ agitators that offers solutions with many capacities in free-standing and bench-top models. They are certified as **Medical Device**, in accordance with CEE Directive 93/42 and subsequent amendments and integrations.

Structure and system. External structure and door in sheet steel pre-painted or plastic-coated in zinc; on model W85RF an external structure made entirely of AISI 304 stainless steel is an optional feature.

Insulation in natural mineral fibers, with high insulating power (**energy saving**), for models TKW18RT and TKW85RF; insulation with polyurethane expanded in situ with a density of 40 kg/mc, for models TKW48RT and TKW96RT. The higher capacity model is fitted with a **LED light** that turns on when the door is opened.

Internal chamber and shelves in AISI 304 stainless steel; with rounded edges; the shelves can be positioned as desired through mobile supports on racks; these are placed on the internal walls.

All models have a transparent door (in toughened glass), fitted with magnetic PVC seal.

This allows observation of the platelets without altering the internal T.

The door is key-lockable for the utmost safety.

All WR incubators are easy to clean and decontaminate.

The heating is obtained with special heating elements with low thermal density, for maximum temperature stability; cooling is achieved by a special KW designed evaporator; all heat exchangers are placed in an area separated from the internal chamber, in order to create a very uniform temperature control in the working volume. The temperature control flow is driven by a high efficiency helical fan; in the TKW85RF model, the temperature control flow can be regulated with an angular speed variator of the fan itself (optional).

The refrigeration system is composed of an air condensing unit, with expansion by means of a capillary tube.

There is plenty of condensing surface to allow it to function correctly even at very high ambient temperatures (> +32 °C) and/or in environments with little ventilation and poor air exchange.

There is a device that collects and evaporates the condensation water.

The refrigerants used are non-toxic, non-flammable, non-explosive and above all eco-friendly (ODP=0).

Display for setting and reading temperature and humidity values:

The graphic video interface shows a TFT 7" touch screen color display; ARM 9 microprocessor technology, the same used for smartphones and working with

Linux operative system; touch menu with multiple windows and temperature graphs;

On /Off: the access is controlled by the user with a pass-worded electronic key

Control system: Control, registration, supervision, full traceability of any parameters and events, full connectivity with the environment, very high operating and access security.

Use of two RTD PT 100 Ohm independent probes to detect

humidity: the first for temperature alarms and the second for humidity alarms.

Automatic regulation of temperatures, humidity and alarms; registration in real time of the operating variables on SD card; USB interface on the front panel for the download of thermo-registration data and updates; **Ni - MH buff erbattery, power back-up and recharge circuit.**

Access to the menu sensible data and parameters: controller access to the software through the use of the

electronic key with password for the highest security and compliance with lab standards and procedures.

Set point and alarm threshold

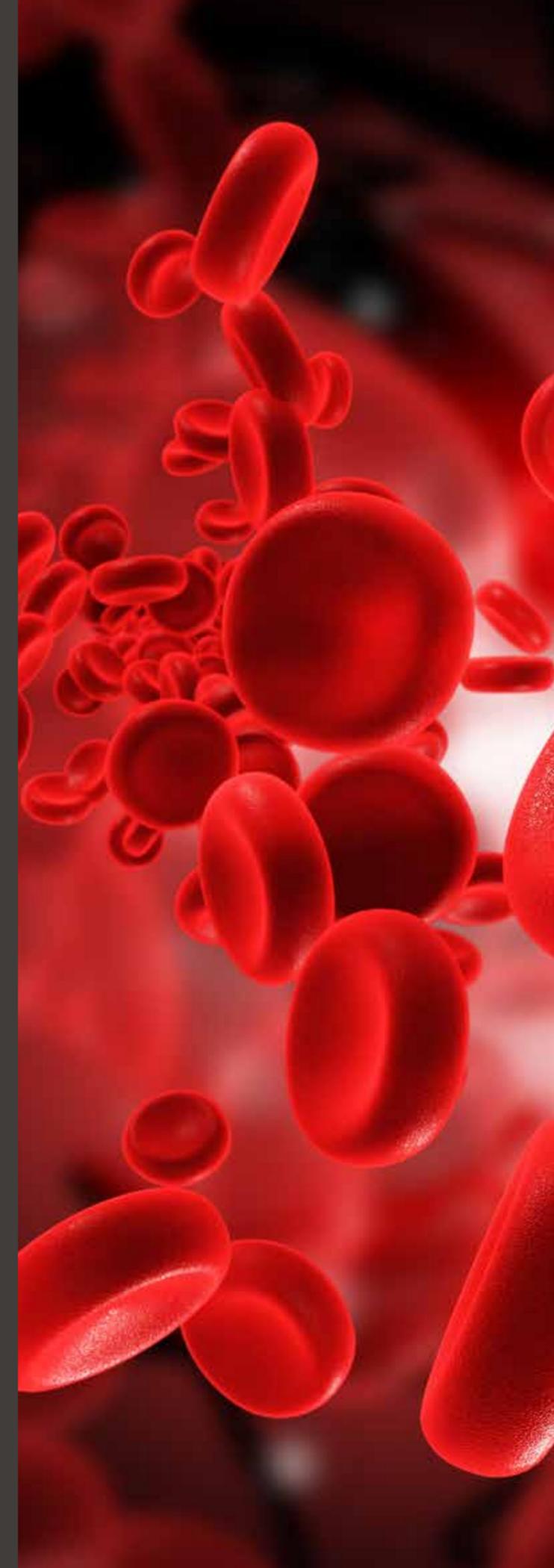
modifications: controlled modification through the electronic key with password against intrusions, fortuitous handling and better traceability:

Medical Device.

CE Certified Class IIA.



Optional



Series IN



MODELS	TYPE	TEMPERATURE	OUTER DIMENSIONS	CAPACITY (LT)	NET WEIGHT	208/230 60 HZ
TKW96RT	TABLE TOP-UPRIGHT	+22 °C ±1 °C	98x65x105	260	70	opt
TLWRV700	UPRIGHT	+22 °C ±1 °C	72x80x202	700	130	opt
TKWR1500	UPRIGHT	+22 °C ±1 °C	144x80x202	1500	210	opt

Series PA



MODELS	TYPE	DIMENSIONS	BAG 450 ML	NET WEIGHT
TKKWAP48	---	52x37x43	48	30
TKWAP54	---	70x49x67	54	50
TKWAP96	---	70x49x67	96	40
TKKWAP108	---	98x65x110	108	80

Plasma thawer

The THAWER LINE has been developed thanks to partnership work with KW Apparecchi Scientifici, in which TEKNALAB, involved different skills, right from the start of the project: from clinical and medical competence to industrial and scientific research, combining them with its thorough manufacturing know-how. TKW-PFD is a completely innovative machine, both from the point of view of the choice of materials and in the way it works.

In fact, using this thawer it is possible to trace every step of the process; by reading the bar code or other forms of identification, the machine can recognise the operator, the type of bag and then from the bag trace the donor. Through the electronic control unit with touch screen it is possible to transfer the information in the user's local network or file all the defrosting plan data on SD cards.

Unlike other appliances on the market, which only measure the temperature of the bath, the TEKNALAB thawer, which has several sensors in each pocket, continuously keeps the temperature of each bag under control, ensuring:

Total traceability of everything that has occurred during defrosting.

Validation of the entire defrosting process.

Perfect homogeneity of the plasma defrosted with Hydro-pump massager

i.e. the machine can subject the bag to a hydro-massage treatment, so that at the end of defrosting the plasma is homogenised reaching a better quality. **Asynchronous defrosting of several units** of fresh frozen plasma or of several units of stem cells; the thawer is fitted with different independent heating units, so it is possible to activate the heating processes asynchronously and in a fully independent way.

No stoppage of laboratory activity, except for exceptional events. Should any problems arise in a defrosting pocket, or if a bag breaks, the contents would in any case remain inside the pocket without contaminating the heating fluid. The pocket can easily be removed, washed under running water and then refitted without stopping the heating process of the other pockets. **High machine productivity** due to all the reasons mentioned above.

The TKW-PFD, TKW-SCFD line is a veritable challenge to common sense in terms of size, structure and information available.

The TEKNALAB fast defrosting system for plasma and stem cells represents the new point of reference for the user interface and for the functions of medical equipment, where a high visual impact is combined with sophisticated management of the bag preparation unit.

CE Certified.

Series PTK

WPFD 3-6



MODELS	TYPE	DIMENSIONS	BAG 450 ML	WEIGHT (KG)
WPFD 1-2	TABLE TOP	516x600x562	2	20
WPFD 3-6	TABLE TOP	540x370x562	6	30



Optional

Ice Maker

TEKNALAB complete his range of products studied for Medical and Hospital Use with a range of **ICE CUBE** and **FLAKES MAKERS** developed in collaboration with a market leader Italian Company.

So, TEKNALAB, is proud to offer a **High Quality** and extremely **Fast Production** range of Ice Makers. **Completely made in AISI 304 S/Steel** are the best solution for an daily use in every hospital, medical center and laboratory.

The Ice Makers are available in different sizes in order to be placed almost everywhere. Just plug the water connection and they are ready to work. All the models have a Air Condensation System.

Series IM



TKCB640



TKCB249

MODELS	TYPE	DIMENSIONS	CAPACITY (LT)	WEIGHT (KG.)
TKCB184	I-CUBE	UNDER-COUNTER	22Kg - 4Kg	30
TKCB249	I-CUBE	UNDER-COUNTER	29Kg - 9Kg	31
TKCB425	I-CUBE	UNDER-COUNTER	47Kg - 25Kg	32
TKCB640	I-CUBE	FREE-STANDING	67Kg - 40Kg	33
TKGB601	I-FLAKES	UNDER-COUNTER	60Kg - 9Kg	34
TKGB902	I-FLAKES	UNDER-COUNTER	95Kg - 20Kg	35
TKGB1540	I-FLAKES	FREE-STANDING	155Kg - 40Kg	36
TKTB852	I-PEBBLES	UNDER-COUNTER	85Kg - 20Kg	37



Optional

TEKNA
Headquarter and production

+39 0331 960474



+39 0331 960166



info@teknaline.com



www.teknaline.com/teknalab



Tekna s.r.l.
via Verdi 35
21021 Angera (VA) Italy



TEKNA
Middle East and Africa

+971 (0)52 8307635

renato.furlani@teknaline.com

www.teknaline.com/teknalab

DWC - Dubai Aviation City
Office n° 420 -
P.O. Box 390667- Dubai (U.A.E.)

