

**Detalii specifice și standarde tehnice**

**LOT: „Congelator pentru laborator (Ultra Low-freezer), vertical, 680-750 L, - 50-86 °C”:**

		<b>Specificatii tehnice solicitate</b>	<b>Specificatii tehnice oferite</b>
	<b>Model</b>		<b>K64 HPL</b>
	<b>Producător</b>		<b>KW Aparecchi Scientifici S.r.l.</b>
	<b>Cod produs</b>		<b>K64 HPL</b>
<b>I.</b>	<b>Description of function and use</b>		
	<b>Main function</b>	<b><u>Congelator pentru laborator (Ultra Low-freezer), vertical, 680-750 L, - 50-86 °C// Vertical Deep Freezer - 50-86 °C, 680-750L, with 3 racks</u> suitable for use in scientific research, cryogenic test on special materials, blood plasma cryopreservation, low temperature resistance test on biological materials, biological products, etc. Suitable for use in research institutions, hospitals, the health &amp; disease prevention system, laboratories, etc.</b>	<b><u>Congelator pentru laborator (Ultra Low-freezer), vertical, 708 L, - 40-86 °C// Vertical Deep Freezer - 40-86 °C, 708L, with 3 racks</u> suitable for use in scientific research, cryogenic test on special materials, blood plasma cryopreservation, low temperature resistance test on biological materials, biological products, etc. Suitable for use in research institutions, hospitals, the health &amp; disease prevention system, laboratories, etc.</b>
<b>II.</b>	<b>Main specifications</b>		
	Temperature range:	- -50 °C - 86 °C.	- -40 °C - 86 °C.
	Configuration:	- Vertical.	- Vertical.
	Capacity:	- 680 -750 L.	- 708 L.
	Externa Door:	- 1 external door. - Lockable door, with key lock.	- 1 external door. - Lockable door, with key lock.
	Shelves:	- 3 pieces, closed with a freezing flap	- n°3 adjustable shelves in AISI 304 stainless steel + base for dividing the inner chamber into 4 compartments. Each compartment is sealed by an insulated inner door (4 inner doors in total)

	<b>Wheels:</b>	<ul style="list-style-type: none"> <li>- Equipped with 4 wheels, to be easily moved.</li> <li>- Adjustable feet for levelling.</li> </ul>	<ul style="list-style-type: none"> <li>- Equipped with 4 wheels, to be easily moved</li> <li>- Each wheel has an in-built leveling feet</li> </ul>
	<b>Interior Material:</b>	<ul style="list-style-type: none"> <li>- Stainless steels.</li> </ul>	<ul style="list-style-type: none"> <li>- AISI 304 stainless steel</li> </ul>
	<b>External Material:</b>	<ul style="list-style-type: none"> <li>- Cold-rolled steel with anti-corrosive coating.</li> </ul>	<ul style="list-style-type: none"> <li>- Cold-rolled steel with anti-corrosive coating</li> </ul>
	<b>Temperature display:</b>	<ul style="list-style-type: none"> <li>- Digital.</li> </ul>	<ul style="list-style-type: none"> <li>- Digital</li> </ul>
	<b>Screen:</b>	<ul style="list-style-type: none"> <li>- LED.</li> <li>- Graphic display.</li> </ul>	<ul style="list-style-type: none"> <li>- LED.</li> <li>- Graphic display.</li> </ul>
	<b>Alarm System:</b>	<ul style="list-style-type: none"> <li>- Acoustic.</li> <li>- Visual - High and low temperature.</li> <li>- Door open.</li> <li>- Power failure.</li> <li>- Voltage abnormal.</li> <li>- Ambient temperature abnormal.</li> </ul>	<ul style="list-style-type: none"> <li>- Acoustic.</li> <li>- Visual - High and low temperature.</li> <li>- Door open.</li> <li>- Power failure.</li> <li>- Voltage abnormal.</li> <li>- Ambient temperature abnormal</li> </ul>
	<b>Alarm setting options:</b>	<ul style="list-style-type: none"> <li>- Maximum temperature limit.</li> <li>- Minimum temperature limit.</li> </ul>	<ul style="list-style-type: none"> <li>- Maximum temperature limit.</li> <li>- Minimum temperature limit</li> </ul>
	<b>Internal battery for alarm and alarm data retention:</b>	<ul style="list-style-type: none"> <li>- Yes, minimum 48 hours.</li> </ul>	<ul style="list-style-type: none"> <li>- Yes, 48 hours</li> </ul>
	<b>Cooling system:</b>	<ul style="list-style-type: none"> <li>- Ventilated or static.</li> </ul>	<ul style="list-style-type: none"> <li>- Static</li> </ul>
	<b>Refrigerant:</b>	<ul style="list-style-type: none"> <li>- Without CFC / HCFC.</li> </ul>	<ul style="list-style-type: none"> <li>- Without CFC / HCFC</li> </ul>
	<b>Noise level:</b>	<ul style="list-style-type: none"> <li>- ≤ 60 db.</li> </ul>	<ul style="list-style-type: none"> <li>- 52 db.</li> </ul>
<b>III.</b>	<b>Electricity requirements</b>		
	<b>Supply voltage:</b>	<ul style="list-style-type: none"> <li>- 230 ± 10 V</li> <li>- Voltage and plugs type adapted to meet the requirement of electrical system in Moldova.</li> </ul>	<ul style="list-style-type: none"> <li>- 230 ± 10 V</li> <li>- Voltage and plugs type adapted to meet the requirement of electrical system in Moldova</li> </ul>
	<b>Frequency:</b>	<ul style="list-style-type: none"> <li>- 50/60 Hz.</li> </ul>	<ul style="list-style-type: none"> <li>- 50/60 Hz.</li> </ul>

<b>IV.</b>	<b>Documentation</b>		
	Manufacturer's certificate	<ul style="list-style-type: none"> <li>- ISO 13485:2016 - Quality Management Systems for Medical Devices – mandatory.</li> <li>- CE Marking - Indicating compliance with European Union regulations and directives related to medical devices.</li> </ul>	<ul style="list-style-type: none"> <li>- ISO 13485:2016 - Quality Management Systems for Medical Devices – mandatory.</li> <li>- CE Marking - Indicating compliance with European Union regulations and directives related to medical devices.</li> </ul>
	Quality and safety standards	<p>EU Electrical Safety Standards Compliance:</p> <ul style="list-style-type: none"> <li>- EN 60601-1: Medical Electrical Equipment - General Requirements for Basic Safety and Essential Performance</li> <li>- IEC 61010-1: Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use</li> <li>- EN 55014 - Electromagnetic compatibility.</li> <li>- Protection class (in accordance with EN 60529).</li> </ul>	<p>EU Electrical Safety Standards Compliance:</p> <ul style="list-style-type: none"> <li>- EN 60601-1: Medical Electrical Equipment - General Requirements for Basic Safety and Essential Performance</li> <li>- IEC 61010-1: Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use</li> <li>- Compliant with the EMC (Electromagnetic Compatibility) EN 61326-1. EN55014 is not applicable to this kind of freezer applies to conducted or radiated radio disturbances coming from equipment whose main functions are carried out by motors or switching or regulating devices.</li> <li>- The EN 60529 standard is not applicable to this type of freezer, as it refers to the casings of electrical products with a nominal voltage lower than 72.5 kV. The IP code (Degree of Protection) indicates the level of protection against access to dangerous parts inside the casing itself and against the penetration of solid foreign bodies, including dust, and water.</li> </ul>
<b>V.</b>	<b>Accessories</b>		
	<b>Freezer racks</b>		
	Quantity	- 12	- 12
	External dimensions	- To be compatible with the internal size of the freezer	- Each rack can be easily accommodate inside the freezer (max 5 racks for each compartment). It's possible to store up to 20 racks in total
	Internal dimensions	- To be compatible with freezers box 133*133*52 mm	- Each rack is able to accommodate up to 25 cryoboxes of dimensions 133x133x52 mm
	Material	- Made of corrosion-resistant stainless steel, it can be frozen and thawed repeatedly and stored for a long time.	- All racks are made in AISI 304 stainless steel
<b>VI.</b>	<b>Operation, maintenance and installation</b>		

	Operation and maintenance manual:	<ul style="list-style-type: none"> <li>- At least one set of operation, maintenance and service manuals for each equipment. The manuals to include instructions for: <ul style="list-style-type: none"> <li>o setting up the equipment</li> <li>o routine cleaning and maintenance</li> <li>o planning for periodic maintenance.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- At least one set of operation, maintenance and service manuals for each equipment. The manuals to include instructions for: <ul style="list-style-type: none"> <li>o setting up the equipment</li> <li>o routine cleaning and maintenance</li> <li>o planning for periodic maintenance.</li> </ul> </li> </ul>
	Language of documentation:	<ul style="list-style-type: none"> <li>- Written in United Nations languages: <ul style="list-style-type: none"> <li>o at least in English and</li> <li>o mandatory in Romanian.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Written in United Nations languages: <ul style="list-style-type: none"> <li>o at least in English and</li> <li>o mandatory in Romanian.</li> </ul> </li> </ul>
	Installation and maintenance:	<ul style="list-style-type: none"> <li>- The bidder must arrange for the equipment to be <b>installed by certified</b> or qualified personnel. Any prerequisites for installation will be communicated to the beneficiary in advance, described in detail in written form.</li> <li>- The bidder will provide a comprehensive <b>maintenance plan</b>. The cost of the maintenance plan to be defined and guaranteed over the period of warranty.</li> <li>- The supplier will provide an <b>after-sale service</b>.</li> <li>- The service to have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints and to repair or replace within 14 days.</li> </ul>	<ul style="list-style-type: none"> <li>- The bidder must arrange for the equipment to be installed by certified or qualified personnel. Any prerequisites for installation will be communicated to the beneficiary in advance, described in detail in written form.</li> <li>- The bidder will provide a comprehensive maintenance plan. The cost of the maintenance plan to be defined and guaranteed over the period of warranty.</li> <li>- The supplier will provide an after-sale service.</li> <li>- The service to have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints and to repair or replace within 14 days.</li> </ul>
	Training:	<ul style="list-style-type: none"> <li>- The bidder will provide <b>user training</b> (including how to use and maintain the equipment).</li> </ul>	<ul style="list-style-type: none"> <li>- The bidder will provide user training (including how to use and maintain the equipment).</li> </ul>
	Standard maintenance tools:	<ul style="list-style-type: none"> <li>- All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication material, to be included in the offer. <ul style="list-style-type: none"> <li>o Bidders to specify the quantity of every item included in their offer (including items not specified above).</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication material, to be included in the offer.</li> <li>- Bidders to specify the quantity of every item included in their offer (including items not specified above).</li> </ul>
	Spare parts:	<ul style="list-style-type: none"> <li>- Each assembled equipment to be accompanied by an authorized list of spare parts.</li> </ul>	<ul style="list-style-type: none"> <li>- Each assembled equipment to be accompanied by an authorized list of spare parts.</li> </ul>
	Warranty:	<ul style="list-style-type: none"> <li>- At least <b>3 years</b>.</li> </ul>	<ul style="list-style-type: none"> <li>- <b>3 years</b></li> </ul>

	Remarks above:	<ul style="list-style-type: none"> <li>- The equipment offered, including its power supply, to be designed and constructed to operate properly and continuously in the conditions of the Republic of Moldova.</li> <li>- The equipment may need to tolerate high humidity (as high as 90% at 35 °C), ambient temperatures of 5–40 °C, fungi, and spikes in the electricity supply.</li> </ul>	<ul style="list-style-type: none"> <li>- The equipment offered, including its power supply, to be designed and constructed to operate properly and continuously in the conditions of the Republic of Moldova.</li> <li>- The equipment may need to tolerate high humidity (as high as 90% at 35 °C), ambient temperatures of 5–40 °C, fungi, and spikes in the electricity supply.</li> </ul>
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**Toate bunurile vor fi testate de beneficiar. Acceptarea bunurilor și semnarea actelor de recepție va avea loc după testarea pozitivă efectuată de beneficiar.**

În calitate de ofertant, confirmăm prin semnătura noastră de mai jos, că ne asumăm responsabilitatea pentru informațiile prezentate în cadrul acestei achiziții.

NUMELE FURNIZORULUI SRL “Dialab Solutions”

Semnătura și ștampila autorizate \_\_\_\_\_

Locul: mun. Chișinău

Data: 03.05.2024