

**Detalii specifice și standarde tehnice**

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

		Specificatii tehnice solicitate	Specificatii tehnice oferite
	<b>Model</b>		<b>-86 °C Ultra Low Temperature Freezer, ULF86-730</b>
	<b>Producător</b>		<b>Infitek</b>
	<b>Cod produs</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></b> 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 & disease prevention system, laboratories, etc.	
<b>II.</b>	<b>Main specifications</b>		
	Temperature range:	- 50 °C - 86 °C.	- -40 ~ -86 °C
	Configuration:	- Vertical.	- Yes
	Capacity:	- 680 -750 L.	- 728L
	Externa Door:	- 1 external door. - Lockable door, with key lock.	- Yes - Yes
	Shelves:	- 3 pieces, closed with a freezing flap	- Yes, with 2 stainless steel inner doors

	Wheels:	<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>- Yes</li> <li>- Yes</li> </ul>
	Interior Material:	<ul style="list-style-type: none"> <li>- Stainless steels.</li> </ul>	<ul style="list-style-type: none"> <li>- Yes</li> </ul>
	External Material:	<ul style="list-style-type: none"> <li>- Cold-rolled steel with anti-corrosive coating.</li> </ul>	<ul style="list-style-type: none"> <li>- Yes</li> </ul>
	Temperature display:	<ul style="list-style-type: none"> <li>- Digital.</li> </ul>	<ul style="list-style-type: none"> <li>- Yes</li> </ul>
	Screen:	<ul style="list-style-type: none"> <li>- LED.</li> <li>- Graphic display.</li> </ul>	<ul style="list-style-type: none"> <li>- LCD</li> <li>- Yes</li> </ul>
	Alarm System:	<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>- Yes</li> <li>- Yes</li> <li>- Yes</li> <li>- Yes</li> <li>- Yes</li> <li>- Yes, high ambient temperature</li> </ul>
	Alarm setting options:	<ul style="list-style-type: none"> <li>- Maximum temperature limit.</li> <li>- Minimum temperature limit.</li> </ul>	<ul style="list-style-type: none"> <li>- Yes</li> <li>- Yes</li> </ul>
	Internal battery for alarm and alarm data retention:	<ul style="list-style-type: none"> <li>- Yes, minimum 48 hours.</li> </ul>	<ul style="list-style-type: none"> <li>- Yes, 72 hours</li> </ul>
	Cooling system:	<ul style="list-style-type: none"> <li>- Ventilated or static.</li> </ul>	<ul style="list-style-type: none"> <li>- Yes, static.</li> </ul>
	Refrigerant:	<ul style="list-style-type: none"> <li>- Without CFC / HCFC.</li> </ul>	<ul style="list-style-type: none"> <li>- Yes</li> </ul>
	Noise level:	<ul style="list-style-type: none"> <li>- ≤ 60 db.</li> </ul>	<ul style="list-style-type: none"> <li>- Yes</li> </ul>
<b>III.</b>	<b>Electricity requirements</b>		
	Supply voltage:	<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>- Yes</li> <li>- Yes</li> </ul>

	Frequency:	- 50/60 Hz.	- Yes
<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>- Yes</li> <li>- Yes</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>	<ul style="list-style-type: none"> <li>- Yes</li> <li>- Yes</li> <li>- Yes</li> <li>- IPX0</li> </ul>
<b>V.</b>	<b>Accessories</b>		
	<b>Freezer racks</b>		
	Quantity	- 12	- Yes, optional 24pcs, 18(5*4)+6(6*4)
	External dimensions	- To be compatible with the internal size of the freezer	- Yes
	Internal dimensions	- To be compatible with freezers box 133*133*52 mm	- Yes

	Material	- Made of corrosion-resistant stainless steel, it can be frozen and thawed repeatedly and stored for a long time.	- Yes
<b>VI.</b>	<b>Operation, maintenance and installation</b>		
	Operation and maintenance manual:	- 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>	- Yes
	Language of documentation:	- Written in United Nations languages: at least in English and mandatory in Romanian.	- English
	Installation and maintenance:	- 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. - 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. - The supplier will provide an <b>after-sale service</b> . - 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.	- Yes  - Yes  - Yes - Yes
	Training:	- The bidder will provide <b>user training</b> (including how to use and maintain the equipment).	- Yes
	Standard maintenance tools:	- 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.	- Yes

		<ul style="list-style-type: none"> <li>○ Bidders to specify the quantity of every item included in their offer (including items not specified above).</li> </ul>	
	Spare parts:	- Each assembled equipment to be accompanied by an authorized list of spare parts.	- Yes
	Warranty:	- At least <b>3 years</b> .	- Yes, warranty extended to 3 years
	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>- Yes</li> <li>- Maximum relative humidity 80%. Ambient temperature is 10°C to 32°C. For temperature up to 32°C, the humidity should be less than 60% RH.</li> </ul>

**NUMELE FURNIZORULUI**

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

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