

ultra low freezer series



ULT serie -86



ULT <mark>730</mark>

-86 ultra low freezers:

- Ultra low freezers have net volume of 470 and 730 liters.
- The temperature set value can be adjusted the range of -50°c and -86°c on the device's screen.
- The device roll out from our factory by being set to -86°c.
- The inner surface of the device is made of cr-ni alloyed stainless steel material. The outer surface is made of sheet material painted with antibacterial electrostatic powder paint.
- The thermostat which sends data to the control panel of the device, measures with sensitivity of 0.1°c.
- The inner cabin is cooled by the static direct cooling method with the cooling pipes surrounding the cabin.
 The device has cascade cooling system.
- The temperature/time graph of the last 140 minutes can be seen on the screen of the device.

• The device has usb port for recording temperature data. 30 days of temperature data can be recorded to usb memory.

- Pt100 temperature sensor is used in the device.
- 12 cm polyurethane foam is used for good insulation in the device.
- There are two sealing gaskets in order to improve the insulation on the door part of the device.
- Insulating material covers are used in the cubicle of the device, so that the temperature in the cabin does not rise too much when the door of the device is opened.

• Covers with insulating material are used in the cell of the device so that the temperature inside the cabinet does not rise too much when the door of the device is opened.

- The device is microprocessor controlled.
- Every step is done with encryption method in order to prevent unauthorized people from using the device.
- There are 2 free wheels and 2 stoppers wheels for easy transport of the device.

• There is an automatically charged accumulator system on the control panel of the device. This system ensures that the digital control panel continues to operate for 72 hours in case of power failure.

• The device gives warning with visual and audible warning signals when the upper and lower temperature limits are exceeded, when the door of the device is left open, when there is a power cut or low voltage problem while the ultra low freezers are operating. It sends the error codes to the screen, the thermal printer and the files received from the usb.





YULT 400

MODEL		ULT 200	ULT 470	ULT 730	YULT 400
Temperature Range	°C	-50°c/-86°c	-50°c/-86°c	-50°c/-86°c	-50°c/-86°c
Set Point	°C	-80°c	-80°c	-80°c	-80°c
Internal Dimensions (W*d*h) Mm		670*595*550	670*595*1205	750*750*1280	1057*515*612 Mm
External Dimensions (W*d*h) Mm		910*870*1300	910*870*1930	990*1000*1980	1300*755*828 Mm
Screen		5,5 "Touch Tft Screen	5,5 "Touch Tft Screen	5,5 "Touch Tft Screen	5,5 "Touch Tft Screen /lcd
Net Volume (L)		288 Liter	470 Liter	730 Liter	400 Liters
Insulating Material		Cfc-free Polyurethane Foam	Cfc-free Polyurethane Foam	Cfc-free Polyurethane Foam	Cfc-free Polyurethane Foam
Temperature Sensor		Pt100	Pt100	Pt100	Pt100
Gas		R404a/r508b	R404a/r508b	R404a/r508b	R404a/r508b
Alarm System		Audio And Visual	Audio And Visual	Audio And Visual	Audio And Visual
Control System		Microprocessor Controlled	Microprocessor Controlled	Microprocessor Controlled	Microprocessor Controlled
Wheels		2 Free Wheels / 2 Stopper Wheels			
Graphic Screen		Yes	Yes	Yes	Yes
Internal Surface		Cr-ni Stainless Alloy	Cr-ni Stainless Alloy	Cr-ni Stainless Alloy	Cr-ni Stainless Alloy
External Surface		Electrostatic Powder Painted Stainless Steel			
Number Of Shelves		Cr-ni Alloy Stainless Steel 4 Shelves (Optionally Can Be Increased)	Cr-ni Alloy Stainless Steel 4 Shelves (Optionally Can Be Increased)	Cr-ni Alloy Stainless Steel 4 Shelves (Optionally Can Be Increased)	Cr-ni Alloy Stainless Steel 4 Shelves (Optionally Can Be Increased)



laboratory freezer - plasma freezer

-40

LOW FREEZER

EF 600

EPISAS EF-600

STE :

EF 300

EF serie -40







YEF 300



Our laboratory freezers are produced with 3 different capacity option.

• The outer surface of the device is made of galvanized steel, painted with electrostatic paint toprotect against rust. The inner surface is produced of stainless steel.

• The device operates with 195-230 V/50 Hz network voltage.

• The door of the device comes with a high density polyurethane filling insulation, which has a heating surface and magnetic seal rings to provide impermeability. • The inner shelf system has been produced of stainless steel material. It has been designed

inergonomics for speeding up the air circulation.

• The deep freezer provides the opportunity to store between -20°C /-40°C.

• The insulation of the deep freezer is provided with a high density of polyurethane material.

The device works smooth and quietly.

• The lightening of the inner cabin of the device is carried out with LED lights. • The user-friendly digital control panel, which carried out with a micro processor, enables to

keep the data in memory for 30 days.

• There is a USB socket to transfer the cabinet temperature information to the computer

whenrequested. In this way, the 10 year old temperature records can be transferred to the PC in excel format.

• There is an accumulator system charged automatically at the control panel of the device. This system allows the control panel and thermal printer (if available) to operate for 24 hours when the electricity cutts off.

• The freezer alerts you with visual and audio signals when the lower and upper temparature limits are exceeded, the door of the device is left open, low voltage and/or electricity cut off problems occurs.

• The refrigerant and the insulation of the deep freezer do not contain CFC gas which is harmful for the OZONE.

• There are two braked and two regular castors on the device that provide easy portability.

• As per request of the user, a thermal printer can be installed at the device. The numerical printout of the recorded data can be taken with the thermal printer.

• All medical devices produced by Emsaş A.Ş. are guaranteed for 2 years.

• All our products are produced in line with the ISO 9001:2008, TSE service place competence certificates. Our deep freezers have CE certificates.

MODEL		YEF 300	EF 150	EF 300	EF 600
Temperature Sensor		-5°c/-45°c	PT 100	PT 100	PT 100
Temperature Adjustment Range °C		-40°c	-20/-40 °C	-20/-40 °C	-20/-40 °C
Cooling System		R404a	R404A	R404A	R404A
Alarm (temperature, Open Door, Electricity)		Audio And Visual	Visual and Auido	Visual and Auido	Visual and Auido
Insulation mm		100	100	100	80
Digital Microprocessor Control		+	+	+	+
Thermal Printer		Optional	Optional	Optional	Optional
PC Connection		Ntc	USB	USB	USB
Voltage		230 V - 50 Hz			
Internal Surface Structure		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
External Surface Structure		Epoxy-Polyester Electrostatic Painted Stainless Steel			
External Dimensions	WxLxH mm	1300*755*828 Mm	600x650x1700	765x820x2000	923x820x2000
Internal Dimensions	WxLxH mm	1086*558*660 Mm	450x460x1000	565x540x1190	753x630x1427
Packed Dimensions	WxLxH mm	1310*755*828 Mm	610x700x1800	775x865x2020	943x840x2020
Gross Volume	L	340	207	363	677
Net Volume	L	335	180	180 320 590	
Weight	Kg	150	120	165	200

laboratory freezer - plasma freezer



EE serie -30





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• The device operates with 195-230 V/50 Hz network voltage.

The door of the device comes with a high density polyurethane filling insulation, which has a
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The inner shelf system has been produced of stainless steel material. It has been designed in ergonomics for speeding up the air circulation.

• The deep freezer provides the opportunity to store between -5°C /-30°C.

- The insulation of the deep freezer is provided with a high density of polyurethane material.
- The device works smooth and quietly.

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 There is a filter warning indicator showing the air filter status on the front control panel of the

device. The air filter is easily removable and washable.The device has full automaticdefrost system in order to protect the productivity of the cooling

evaporator. • The lightening of the inner cabin of the device is carried out with LED lights.

• A user-friendly digital control panel with a micro processor has been used on the device. This system can keep the data in memory for 30 days.

 EE 300

• There is a USB socket to transfer the cabinet temperature information to the computer when requested. In this way, the 10 year old temperature records can be transferred to the PC in excel format.

The thermostat at the control panel of the device can make measurements with 0.1 degree sensitivity.
 There is an accumulator system charged automatically at the control panel of the device. This system allows the control panel and thermal printer (if available) to operate for 24 hours when the electricity cutts off.

• The freezer alerts you with visual and audio signals when the lower and upper temparature limits are exceeded, the door of the device is left open, low voltage and/or electricity cut off problems occurs.

• The refrigerant and the insulation of the deep freezer do not contain CFC gas which is harmful for the OZONE.

There are two braked and two regular castors on the device that provide easy portability.
As per request of the user, a thermal printer can be installed at the device. The numerical printout of the recorded data can be taken with the thermal printer.

• All medical devices produced by Emsas are guaranteed for 2 years.

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MODEL		EE 150	EE 300	EE 600
Cooling System		Direct Air Cooling	Direct Air Cooling	Direct Air Cooling
Temperature Sensor		PT 100	PT 100	PT 100
Temperature Adjustment Range °C		-5/-30 °C	-5/-30 °C	-5/-30 °C
Cooling Gas		R404A	R404A	R404A
Alarm (temperature, Open Door, Electricity)		Visual and Auido	Visual and Auido	Visual and Auido
Insulation	mm	100	100	100
Digital Microprocessor Control		+	+	+
Thermal Printer		Optional	Optional	Optional
PC Connection		USB	USB	USB
Internal Surface Structure		Stainless Steel	Stainless Steel	Stainless Steel
External Surface Structure		Epoxy-Polyester Electrostatic Painted Stainless Steel	Epoxy-Polyester Electrostatic Painted Stainless Steel	Epoxy-Polyester Electrostatic Painted Stainless Stee
External Dimensio	ns W x L x H mm	600x650x1700	765x820x2000	923x820x2000
Internal Dimension	ns W x L x H mm	450x460x1000	565x540x1190	753x630x1427
Packed Dimension	s WxLxHmm	610x700x1800	775x865x2020	943x840x2020
Gross Volume	L	207	363	677
Net Volume	L	180	320	590
Weight	Kg	120	165	200





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- MEDICAL COOLING 🗙 HEATING SYSTEMS

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