



EMSAS®

MEDICAL COOLING & HEATING SYSTEMS

www.emsas-as.com.tr

EKN Serie

(+2 °C/+8 °C)



EKN 300

400

PCS

- The outer surface of the device has been produced of galvanized sheet with electrostatic paint resistant to rust and the inner surface is produced of stainless steel sheet.
- The device operates with 195-230V/50 Hz network voltage.
- The door of the device has double thermal glazing, it can be locked and has magnetic seal rings. Thus, it provides an opportunity to trace the stocks.
- Each drawer in the cabinet is 450 ml of whole blood. The devices takes 25, 60, 120, 240, 400 and 672 pieces of bags according to the capacity of the device.
- The device has a pool type stainless steel drawer system. There is a plexi-glass protector in front of each drawer. This mobile drawer system can be easily moved.
- There are separators inside the drawers helping the blood bags to be placed and stocked easily.
- The device operates between +2/+8°C, which is the ideal storage temperature of blood ingredients, and it is set to +4°C.
- The device provides equal temperature distribution with the strengthened fan system it contains.
- The lightening of the inner cabin of the device is carried out with LED lights.
- The device has full automatic defrost system in order to protect the productivity of the cooling evaporator.
- 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.
- 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 are 2 probs in the blood bank refrigerator. One of these probs measures the inner cabin temperature and the other measures the temperature of the sample liquid at the blood density. This information can be traced on the digital screen.
- There is an accumulator system charged automatically at the control panel of the device. This system allows the control panel and thermal printer to operate for 24 hours when the electricity cuts off.
- The EKN serie has Thermal Printer and 5.5" Touch Screen Display as standard. The numerical printout of the data recorded can taken with the thermal printer. The temperature/time graph of the last 140 minutes can be seen on the touch screen of the device. Every step is done with encryption method in order to prevent unauthorized people from using the device. And, the touch screen display can show 2 alarm status same time.
- While the blood bank refrigerator is working the device gives alerts with the visual and audio signal when the lower and upper temperature limits are exceeded, the door of the device is left open, and there is electricity cut off or low voltage problems.
- The cooling system and the insulation system of the device do not contain CFC gas that is harmful for OZONE.
- There are two castors with braked and two regular castors under the device to provide easy portability.
- All medical devices produced by Emsas A.S. are guaranteed for 2 years.
- There is an external probe input on the device for connection to the heat tracking system.
- All our products are produced in line with the ISO 9001:2008, TSE service place competence certificates. Our blood bank refrigerators have CE certificates.



OPTIONAL GRAPHICAL CHART RECORDER



STANDARD TOUCH SCREEN DISPLAY



OPTIONAL THERMAL PRINTER



OPTIONAL BLOCK 3XGLASS DOOR

BLOOD BANK REFRIGERATOR



MODEL	EKN 25 / EKN 25	EKN 50 / EKN 50	EKN 100 / EKN 100	EKN 200 / EKN 200	EKN 300 / EKN 300	EKN 600 / EKN 600
Temperature Range	+2 / +8 °C	+2 / +8 °C	+2 / +8 °C	+2 / +8 °C	+2 / +8 °C	+2 / +8 °C
Set Point	+4°C	+4°C	+4°C	+4°C	+4°C	+4°C
External Dimensions (WxLxH) mm	452x843x768	600x690x1161	600x690x1361	600x690x1936	765x850x1936	1450x850x1936
Internal Dimensions (WxLxH) mm	370x367x520	518x546x590	518x546x795	518x546x1385	662x713x1346	1362x717x1346
Volume	70 Liters / 25 Pcs Bags	167 Liters / 60 Pcs Bags	225 Liters / 120 Pcs Bags	388 Liters / 240 Pcs Bags	700 Liters / 400 Pcs Bags	1320 Liters / 672 Pcs Bags
Polyurathane (mm)	41 mm	42.5 mm	42.5 mm	42.5 mm	51.5 mm	40 mm
Packaging Dimensions (WxLxH) mm	580x790x890	605x700x1270	730x690x1550	730x690x2100	900x950x2150	940x1570x2150
Gross KG	65 Kg	97 Kg	128 Kg	175 Kg	229 Kg	380 Kg
Interior Lighting	+	-	+	+	-	+
Door Lock	+	+	+	+	+	+
Alarm	+	-	-	+	-	-
Internal Surface	Stainless Steel Cr-Ni 304	Stainless Steel Cr-Ni 304	Stainless Steel Cr-Ni 304	Stainless Steel Cr-Ni 304	Stainless Steel Cr-Ni 304	Stainless Steel Cr-Ni 304
External Surface	Galvanized sheet with electrostatic paint	Galvanized sheet with electrostatic paint	Galvanized sheet with electrostatic paint	Galvanized sheet with electrostatic paint	Galvanized sheet with electrostatic paint	Galvanized sheet with electrostatic paint
Heating / Cooling System	Fan System	Fan System	Fan System	Fan System	Fan System	Fan System
Insulation	CFC Free - Polyurathane	CFC Free - Polyurathane	CFC Free - Polyurathane	CFC Free - Polyurathane	CFC Free - Polyurathane	CFC Free - Polyurathane
Drawers	2 Pcs	2 Pcs	3 Pcs	6 Pcs	7 Pcs	12 Pcs
Block Door	Optional	Optional	Optional	Optional	Optional	Optional
Thermal Printer	Standard	Standard	Standard	Standard	Standard	Standard
SMS and E-MAIL MODUL	Optional	Optional	Optional	Optional	Optional	Optional
PC Connection	USB	USB	USB	USB	USB	USB
Castors	2 Braked , 2 Regular	2 Braked , 2 Regular	2 Braked , 2 Regular	2 Braked , 2 Regular	2 Braked , 2 Regular	2 Braked , 2 Regular
Temperature Sensor	NTC	NTC	NTC	NTC	NTC	NTC
Control System	Microprocessor Control	Microprocessor Control	Microprocessor Control	Microprocessor Control	Microprocessor Control	Microprocessor Control
Voltage	220v-50hz	220v-50hz	220v-50hz	220v-50hz	220v-50hz	220v-50hz
Cooling Gas	R134a	R134a	R134a	R134a	R134a	R134a
Power	230 Watt	230 Watt	230 Watt	277 Watt	400 Watt	400 Watt
Natural Gas	Optional	Optional	Optional	Optional	Optional	Optional



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ISO 9001:2008
ISO 13485



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