



AVVETA[®]
Technology Private Limited

**BLOOD BANK
EQUIPMENTS**

DONOR COUCH MOTORISED



Dual actuator-based Blood Donor Couch is specially designed to make blood withdrawals easier, safe and provide comfortable position for the Blood Donor. Donor's position can be easily adjusted to form either a comfortable easy chair or a bed. All surfaces are clean and smooth, easily accessible and can be kept clean. Electrical and Mechanical accessories are housed inside the structure making the product safer. Seat elements are designed with ergonomic consideration to maximize donor comfort. Facility for Blood Collection from both sides, based on hemodynamic principles.

KEY FEATURES

- Two Geared Actuator, Ensuring safety and comfort to the Donor
- Heavy Duty tilt adjustment can be done by using remote control
- Battery Powered
- Provided a comfortable position for the donor
- Lockable castors Wheel for easy mobility
- Comfortable chair type with soft Cushioning and rexin cover.

OPTIONAL ACCESSORIES

- IV pole with 2 trays for Blood Collection Monitor / BP Apparatus, etc...

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-DC30	ME-DC40
Model No.	DC30	DC40
Input	220-240 VAC/ 50Hz	
Lifting Capacity	Max 150Kg	
Control	Corded Remote	
Power Consumption	100W	
Movement Actuation	DC actuator	
Battery Backup	-NA-	Up to 50Cycles
Size in Normal Condition (WxDxH)	620x2050x1440 mm	
Size in Stretched Condition (WxDxH)	620x2050x1100 mm	
Size of Arm Rest (LXW)	60x15 cm	
Weight	60Kg	62Kg

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BLOOD COLLECTION MONITOR



Portable Blood Collection Monitor, ideally suited for blood collections in donation room as well as outdoor camps. Microprocessor based controls ensure smooth & gentle mixing process, volume accuracy, precise monitoring of time & flow rate. The user friendly, help phlebotomist to have complete control on donation process, thus ensuring donor safety & comfort.

KEY FEATURES

- **Microprocessor based controller system with accuracy of ± 1 ml**
- **Meant for stationary and mobile use for easy & safe blood collection**
- **Pre-selection of volume / 16x2 jumbo LCD display with White Backlight**
- **Mixing oscillation speed 12 to 14 cycles / Minute for smooth mixing with anticoagulant**
- **End to end gentle blood mixing with coagulant and control of collection time**
- **Audio and visual alarm for High / Low flow rate. High flow (>180 ml/min)
Low flow (<20 ml/min)**
- **Auto tare facility / Auto release function with removable Magnetic Tray**
- **Automatic check on Blood Flow rate and Collection time**
- **Motorized clamping with manual pause**
- **Display of Set volume, Process volume, Weight, Flow rate, Time, Current Status & Battery percentage**
- **Volume can be set up to 999ml**
- **Provision for Pause the collection and change program during collection**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-CM10	ME-CM20
Model No.	BCM 10	BCM 20
Input	220-240 VAC/ 50Hz	
Oscillation	12±2Cycle/Min	
Maximum Volume	Up to 999ml	
Taring Volume	Up to 999gm	
Alarm	Audio Visual	
Battery Backup	-NA-	Up to 10hrs
Size External (WxDxH)	26x28x14 cm	
Weight	4.5Kg	6 Kg

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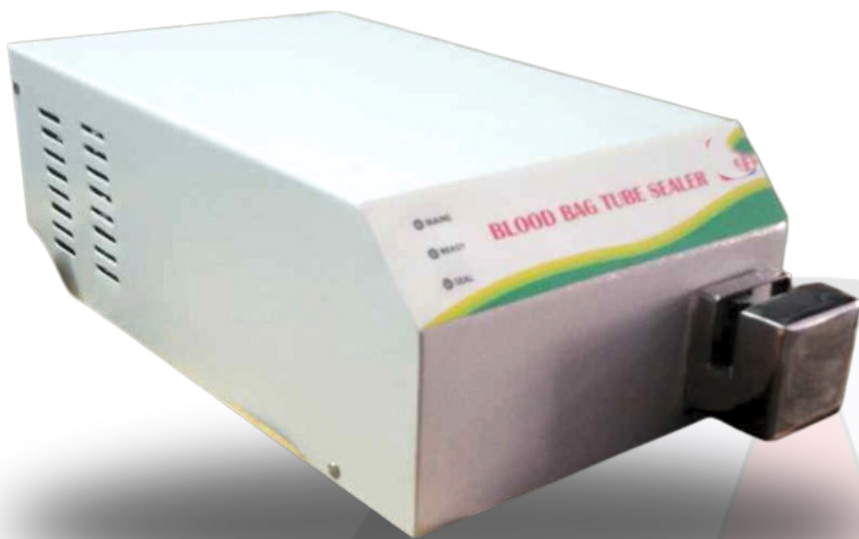
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TUBE SEALER



Blood Bag Tube Sealer designed to seal the PVC Blood Bag tube by using Radio Frequency to avoid Hemolysis and Leakage. The Sealing can be achieved in less than 3 Seconds per seal. Compatible with tubes of various manufactures.

KEY FEATURES

- **RF Technology gives hermetic seals of the most exceptional quality**
- **Hermetic sealing which minimizes hemolysis of blood**
- **Compatible with tubes of various manufactures**
- **Easy separation of the tube segments after sealing.**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-TS40
Model No.	TS40
Input	100-240 VAC/ 50Hz
RF output frequency	40.68 Mhz
Sealing Time	Lesser than 3 Seconds
Power consumption	100W
Size (WxDxH)	180x215x245mm
Weight	5 Kg

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Blood Bag Tube Sealer designed to seal the PVC Blood Bag tube by using Radio Frequency to avoid Hemolysis and Leakage. The Sealing can be achieved in less than 3 Seconds per seal. Compatible with tubes of various manufactures.

KEY FEATURES

- **RF Technology gives hermetic seals of the most exceptional quality**
- **Hermetic sealing which minimizes hemolysis of blood**
- **Compatible with tubes of various manufactures**
- **Easy separation of the tube segments after sealing.**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-TS41
Model No.	TS41
Input	100-240 VAC/ 50Hz
RF output frequency	40.68 Mhz
Sealing Time	Lesser than 3 Seconds
Power consumption	100W
Size (WxDxH)	180x215x245mm
Weight	5 Kg

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BLOOD BANK REFRIGERATOR



Blood Bank Refrigerators are available in Six different sizes and designed to meet strict requirements for storage of Whole Blood and Red Packed Cell. The instruments outer body is made of heavy gauge mild steel duly powder coated with stainless steel inner chamber and prompt PUF insulation to ensure accurate cooling inside the chamber.

KEY FEATURES

- **Micro Controlled Temperature controller with Audio Visual alarm for High/Low Temperature & Door Open.**
- **Heavy Duty Stainless Steel (304) Baskets**
- **Display of Set & Process Temperature value**
- **ECO friendly, non-CFC refrigeration system**
- **Castor wheel for easy mobility**
- **PUF (Poly Urethane Foam) Insulation to ensure Temperature stability and save power consumption.**
- **Battery Backup for Display controller up to 6Hrs**
- **7days circular Temperature Recorder with Battery Backup**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-BR60	ME-BR120	ME-BR200
Model No.	BR60	BR120	BR200
Capacity/ Blood Bag	60/350ml	120/350ml	200/350ml
Capacity/ Volume	90 liters	180 liters	350 liters
Input	220 - 240VAC/ 50HZ/ Single Phase		
Display	Microcontroller Based LED Display		
Size External (WxDxH)	40x36x63 cm	50x51x83 cm	58x50x120 cm
Temperature	3-5°C ±0.5°C		
Temp. Recorder	7days Circular Chart Recorder		
No. of Baskets	Three	Four	Five
Power Load	1KVA	1KVA	2KVA

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TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-BR250	ME-BR300	ME-BR350
Model No.	BR250	ME-BR300	BR350
Capacity/ Blood Bag	250/350ml	425/350ml	500/350ml
Capacity/ Volume	390 liters	600 liters	1200 liters
Input	220 - 240VAC/ 50HZ/ Single Phase		
Display	Microcontroller Based LED Display		
Size External (WxDxH)	64x60x102 cm	64x66x143 cm	128x66x143 cm
Temperature	3-5°C ±0.5°C		
Temp. Recorder	7days Circular Chart Recorder		
No. of Baskets	Five	Seven	Fourteen
Power Load	2KVA	3KVA	3KVA

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DEEP FREEZER

DEEP FREEZER /
PLASMA FREEZER



Deep Freezer / Plasma Freezer are designed to meet strict requirements for the preservation of Plasma and Test Samples. The instruments outer body is made of heavy gauge mild steel duly powder coated with stainless steel inner chamber. This unit designed to maintain stable and uniform temperature -20°C to -80°C .

User friendly design includes a built-in PUF insulated stainless steel inner door.

KEY FEATURES

- Micro Controlled Temperature controller with Audio Visual alarm for High/Low Temperature & Door Open.
- Heavy Duty Stainless Steel (304) Baskets
- Display of Set & Process Temperature value
- ECO friendly, non-CFC refrigeration system
- Castor wheel for easy mobility
- PUF (Poly Urethane Foam) Insulation to ensure Temperature stability and save power consumption.
- Battery Backup for Display controller up to 6Hrs
- 7days circular Temperature Recorder with Battery Backup

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-F4100	ME-F4150	ME-F4300	ME-F4400
Model No.	DF 4100	DF 4150	DF 4300	DF 4400
Capacity/ Volume	100liters	150liters	300 liters	400liters
Input	220 - 240VAC/ 50HZ/ Single Phase			
Display	Microcontroller Based LED Display			
Size External (WxDxH)	42x38x57 cm	50x43x85 cm	58x50x102 cm	58x51x120 cm
Temperature	-20°C to -40°C ±0.5°C			
Temp. Recorder	7days Circular Chart Recorder			
No. of Baskets	Two	Four	Four	Six
Recommended Voltage Stabilizer	2KVA	2KVA	2KVA	2KVA

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TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-F8100	ME-F8150	ME-F8300	ME-F8400
Model No.	DF 8100	DF 8150	DF 8300	DF 8400
Capacity/ Volume	100liters	150liters	300 liters	400liters
Input	220 - 240VAC/ 50HZ/ Single Phase			
Display	Microcontroller Based LED Display			
Size External (WxDxH)	42x38x57 cm	50x43x85 cm	58x50x102 cm	58x51x120 cm
Temperature	-50°C to -80°C ±0.5°C			
Temp. Recorder	7days Circular Chart Recorder			
No. of Baskets	Two	Four	Four	Six
Recommended Voltage Stabilizer	4KVA	4KVA	4KVA	4KVA

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PLATELET INCUBATOR & AGITATOR



Platelet Incubator and Agitator provides an ideal Storing environment for the Platelets. This unit Designed to maintain a stable and uniform temperature of 22.0°C. Instrument outer body is made of heavy gauge mild steel duly powder coated with stainless Steel (304) inner chamber. The user-friendly design includes an acrylic inner door and see through outer door. Platelet Agitator designed to maintain Platelets in continues motion at a fixed speed of 70 Cycles/ Minute.

KEY FEATURES

- **Micro Controlled Temperature controller with Audio visual alarm for high & low temperature & Door open.**
- **Heavy-Duty Stainless-Steel Basket**
- **Display of set and process value**
- **Extra-strength non-CFC refrigeration system**
- **The unit is mounted on caster wheel for easy mobility**
- **CFC free PUF (Poly Urethane Foam) insulation to ensure temperature stability and save power consumption.**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-PI50 (INCUBATOR)
Model No	PI 50
Input	220-240 VAC/ 50Hz
Internal Volume	180Liters
Display Controller	Microcontroller based LED
Temperature	22°C ±1°C
Temp. Recorder	7days Circular Chart Recorder
Battery Backup (Controller)	6 Hrs
Size (WxDxH)	58X46X46cm
Recommended Voltage Stabilizer	1KVA

PRODUCT CODE	ME-PA48 (AGITATOR)
Model No	PA 48
Input	220-240 VAC/ 50Hz
Agitation (Strokes)	70 Cycles / Minute ±5
Trays	8 number
Capacity	48 Bags
Size (WxDxH)	440X410X380 mm

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DUAL PAN BALANCE



Micro controller based Dual Pan Balance is designed to weigh centrifuge bucket with Blood Bag for accurate Balancing the weight. Two stainless steel pans, on which differential weight of two buckets of centrifuges is weighed.

KEY FEATURES

- **Bright jumbo 16x2 inches LCD display**
- **Weighing accuracy of ± 1 gram**
- **Rechargeable Battery operated**
- **Tare option to account for the weight of the Blood Bag**
- **Micro controller-based technology for high accuracy**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-DP80
Model No.	DP 80
Input	100-240 VAC/ 50Hz
Capacity	10Kg ± 1gm
Power consumption	15W
Size (WxDxH)	
Weight	4.5Kg

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REFRIGERATED CENTRIFUGE FOR BLOOD BAG



Microprocessor controlled Blood Bag Centrifuge designed for Blood components separation, The Instruments is specialized in separate Blood Component like Packed cells, Platelet Rich Plasma, Platelet Concentrate, Cryoprecipitate and buffy coat separation.

The instruments outer body is made of heavy gauge mild steel duly powder coated with stainless steel inner chamber and prompt PUF insulation to ensure accurate cooling inside the chamber and built in Brush-less induction drive motor ensures low level of vibration and noise with smooth acceleration / deceleration.

KEY FEATURES

- **Program up to 9, Password protected parameter settings for authorized access.**
- **Pre-setting of speed, temperature and time**
- **Precise speed control and reproducibility, Imbalance detector with cut-off.**
- **Audiovisual alarm for process status indication**
- **Brush-less induction motor with frequency drive**
- **Safety lid interlock to prevent cover opening during centrifuge**
- **Multicolor TFT Graphic/ HMI Display of set and process value of RPM, Temp., Time.**
- **Acceleration & Deceleration with RCF indicator**
- **Integrated soft key LID opening system with Extra safety manual opening in case of power failure view port for RPM calibration.**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-RC04	ME-RC06	ME-RC08	ME-RCENT12
Model No.	RC04	RC06	RC08	RC12
Capacity	4 STD. Blood Bag	6 STD. Blood Bag	8 STD. Blood Bag	12 STD. Blood Bag
Input	220 - 240VAC/ 50HZ/ Single Ø	220 - 240VAC/ 50HZ/ Single Ø	220 - 240VAC/ 50HZ/ Single Ø	220 - 240VAC/ 50HZ/ Single Ø
Display	Multicolor TFT Graphic Touch Screen			
Size External (WxDxH)	30x34x32 inches	30x34x32 inches	30x34x32 inches	33x36x32 inches
Weight	250Kg	250Kg	270Kg	300Kg
Max. Speed	4400rpm	4400rpm	4400rpm	4400rpm
Lowest Temp.	0°C	0°C	0°C	0°C
Power Load	6KVA	6KVA	10KVA	10KVA

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LAMINAR AIR FLOW BENCH



Laminar Air Flow bench is designed to provide working space comprising as standard futures HEPA filter having efficiency of 99.997% down to 0.3% microns, pre filter 90% down to 5 microns, suitable motor blowing assemblies, Stainless Steel working table top, Side acrylic panel, Florescent tube light and pressure differential Manometer. The Instruments is available in both version Vertical and Horizontal.

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-LAF2	ME-LAF3	ME-LAF4
Model No.	LAF B2	LAF B3	LAF B4
Working Area	2x2x2	3x2x2	4x2x2
Size of filter	2x2x6	3x2x6	4x2x6
HEPA Filter	1no	1no	1no
Pre Filter	1no	1no	1no
Fluorescent Tube	1 x 20W	2 x 20 W	2 x 40 W
U.V. Tube	2 Feet (1no)	2 Feet (1no)	4 Feet (1 no)



PLASMA EXPRESSOR



Plasma Expressor designed to extract Blood component from Blood Bags. The spring-loaded front plate applies pressure on the Blood bag to separate its component. Its sturdy construction makes it durable, reliable and easy to use and portable.

KEY FEATURES

- **Operation Manual method spring loaded mechanism, durable and reliable**
- **Portable and easy to use.**
- **Accommodate all types of Blood Bags**
- **Handle with ball end provides a comfortable grip**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-EMV1
Model No.	PE MV1
Mode of Operation	Manual
Pressing Mechanism	Spring loaded front 10mm Acrylic plate
Weight	2.5Kg (Approx)
Boady	MS powder coated finish



CRYO BATH



Cryo Bath specially designed to Thaw Frozen Plasma at +4°C. Inner Chamber made of Stainless Steel (304) and Outer Body MS duly powder coated with built in heavy duty industrial pump to circulate the water throughout the chamber to get maximum accuracy.

KEY FEATURES

- **Micro Controlled Temperature controller with Audio visual alarm for high & low temperature**
- **Heavy-Duty Stainless-Steel Basket**
- **Display of set and process value**
- **Built-in Heavy-duty water circulating pump for better water circulation & uniform Temperature.**
- **Non-CFC refrigeration system**
- **Easy to shift, comes with Four lockable Casters wheel.**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-CB60
Model No.	CB70
Input	220-240 VAC/ 50Hz
Capacity	10 Bag
Tray	Removable Stainless-Steel trays
Display Controller	Microcontroller based LED
Temperature	4°C ±1°C
Water Heater	1500W
Size (WxDxH)	650x375x600mm

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PLASMA BATH



Plasma Bath specially designed to Thaw Frozen Plasma at +37°C. Inner Chamber made of Stainless Steel (304) and Outer Body MS duly powder coated with built in heavy duty industrial pump to circulate the water throughout the chamber to get maximum accuracy.

KEY FEATURES

- **Micro Controlled Temperature controller with Audio visual alarm for high & low temperature**
- **Heavy-Duty Stainless-Steel Basket**
- **Display of set and process value**
- **Built-in Heavy-duty water circulating pump for better water circulation & uniform Temperature**

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-PB60
Model No.	PB60
Input	220-240 VAC/ 50Hz
Capacity	10 Bag
Tray	Removable Stainless-Steel trays
Display Controller	Microcontroller based LED
Temperature	37°C ±1°C
Water Heatersm	1500W
Size (WxDxH)	600x275x300mmprox)

CENTRAL MONITORING SYSTEM (TEMPERATURE DATA LOGGER)



Temperature Data Logger available in Two version 8 Channel and 16 Channel. Designed for Monitoring, reading, print out and store the data of instruments in Blood Bank. The stored data is secured and can not be manipulated by user. Networkable using Ethernet port and Wi-Fi.

Key Features	Benefits
8 or 16 universal inputs (RTD, Thermocouple, 0-5Vdc, 0-20mA or 4-20 mA input signals)	Easy to configure analog input type with front end TFT touchscreen
Onboard 32000 reading per channel storage	Logged data is secured as storage media is inside the unit
Parallel Port	Helps to connect any type of dot matrix printer
Individual Hi/ Lo alarm with 2 relay outputs	Relay output for control or activating external alarms
Additional relay outputs with optional relay card	Individual alarm relay (Hi/ Lo) can be provided for all 16 channels
Networkable using Ethernet port & Wi-Fi	Data accessible via LAN & Wi-Fi
Free PC based data acquisition software	Not necessary to pay extra cost
21 CFR part 11 (Optional)	Logged data is secured and can not be manipulated by user
Front end IP65 protection	Panel mounting enclosure which can sustain in harsh environment
3.5inch TFT with Touch Screen Control	Easy to use icon menu for setting user parameters with touch interface
Onboard USB port (Memory Stick)	Logged data can be downloaded to memory stick and transfer to PC.

TECHNICAL SPECIFICATIONS

PRODUCT CODE	ME-DL35
Model No.	DL 35
Input Power	100-240 VAC/ 50Hz, 20VA max
Input Channel	8 or 16 channel direct universal input
Measurement Rate	4channels per second on all direct input channels
Output	2 relay output (normally open, Close & Pole contact)
Temp. Range	-199°C to 300°C
Display	Color Active-Matrix TFT Liquid Crystal Display
Communications	Wi-Fi, Ethernet, Isolated RS485/RS232, Parallel Port for Dot Matrix Printer, USB port for external memory.
Data Storage	512kb Internal memory and Data can be moved to memory stick.
Data Scaling and Statistics	By PC software
Operating Range	
Size (WxDxH)	110x101x150 mm
Weight	Approx. 1.5 Kg
Safety	Meet the requirement of EN61010-1

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