



# BLOOD BANK ACCESSORIES

## HEMOSCALE MODEL AB-20

HEMOSCALE model AB-20 is the blood collection device that combines scale and mixer functions. Its flexible system meets any demands for total quality control in blood management.

### • Battery Operation for Mobile Use

Built-in rechargeable battery enables AB-20 to operate for 10 hours without any power supply. Remaining battery capacity is shown on the display all the time.

### • Flexible Data Management Capability

AB-20 can comply with any kind of data management on the blood collection scene. With a simple set-up program on PC, you can easily customize AB-20. Up to 1,000 donations of such data together with barcode information are stored in the memory and output from standard RS485 for networking.

### • Bar Code Reading Function

RS232 interface is installed for connection of barcode reader, which assists to input various kinds of data to AB-20 easily and quickly.

### • Simplified Operations

Two preset values can be programmed for quick choice of blood collection volume. Only by pressing START button, AB-20 automatically starts and completes blood collection.

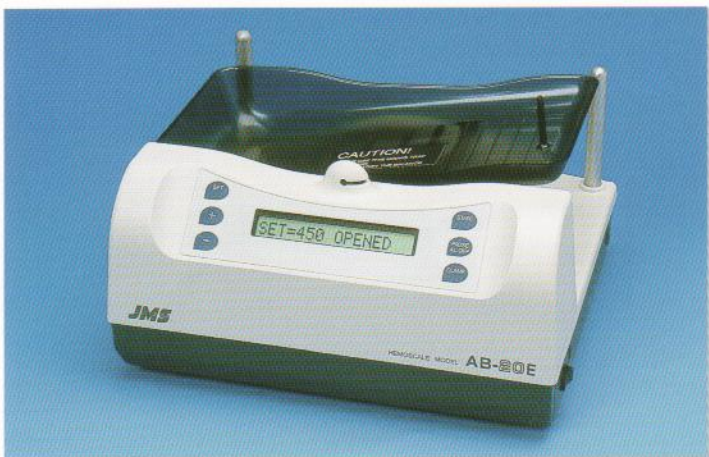


## Specifications

Power required	115/230 VAC - 14 VDC/600 mA
Battery	Included 12 VDC/3.5 AH
Power consumption	Max. 10 VA
Continuous operating time by battery	10 hours
Accuracy	< 1 % of max. weight $\pm$ 1 mL
Measuring range	Up to 999 mL
Taring range	0 ~ 600 g
Mixing condition	Seesaw motion in 16 cycles/min.
Alarms	Low Battery, Under Weight, Over Weight Taring Error, Set-up Error, Motor Error Memory Error, Abnormal Blood Flow Data Input Error, Time Over, Abnormal Clock
Interfaces	RS232 for Programming by PC for Bar Code Reader RS485 for Network Cable 6/6 Modular for External Display (optional)
Option	Bar Code Reader
Operation conditions	10 ~ 40°C, relative humidity 10 ~ 95 % (not condensing)
Storage conditions	- 40 ~ 70°C, relative humidity 10 ~ 95 % (not condensing)
Dimensions	290 (W) X 253 (D) X 150 (H) mm
Weight	4.8 kgs. (including battery)
Electric shock protective type	Class II type B
Compliance standards	EN60601-1, EN60601-1-2
Code No.	93-00-406-00

# HEMOSCALE MODEL AB-20E

HEMOSCALE model AB-20E succeeds highly reliable structure of AB-20, and offers efficient support of blood collection at reasonable cost.



## • Continuous Blood Flow Checking

AB-20E observes blood flow continuously during the collection. Should abnormal blood flow be detected, both visible and audible alarms are activated to inform of the condition.

## • Battery Operation for Mobile Use

Built-in rechargeable battery enables AB-20E to operate for 10 hours without any power supply.

## • Automatic Blood Collection

Two preset values can be programmed for quick choice of blood collection volume. Automatic Taring is carried out when the blood collection starts. During blood collection, well-tested seesaw motion of the tray assures mixing blood and anticoagulant thoroughly. When the predetermined volume has been collected, the tube clamp closes automatically and an audible alarm informs of the completion.

## • Precise Blood Volume Measuring

The collected blood is measured with a weighing sensor and converted to volume with the specific gravity of 1.06. The measuring accuracy is better than  $\pm 1\%$ .

## Specifications

Power required	115/230 VAC - 14 VDC/600 mA
Battery	Included 12 VDC/3.5 AH
Power consumption	Max. 10 VA
Continuous operating time by battery	10 hours
Accuracy	< 1 % of max. weight $\pm 1$ mL
Measuring range	Up to 999 mL
Taring range	0 ~ 600 g
Mixing condition	Seesaw motion in 16 cycles/min.
Alarms	Low Battery, Under Weight, Over Weight Taring Error, Set-up Error, Motor Error Abnormal Blood Flow, Time Over
Interface	6/6 Modular for External Display (optional)
Option	Not available
Operation conditions	10 ~ 40°C, relative humidity 10 ~ 95 % (not condensing)
Storage conditions	- 40 ~ 70°C, relative humidity 10 ~ 95 % (not condensing)
Dimensions	290 (W) X 253 (D) X 150 (H) mm
Weight	4.8 kgs. (including battery)
Electric shock protective type	Class II type B
Compliance standards	EN60601-1, EN60601-1-2
Code No.	93-00-411-00



<http://www.jms.cc>

JMS CO.,LTD.

Tokyo Headquarters  
3-10-6 Hatchobori, Chuo-ku, Tokyo 104-0032, Japan  
Phone: +81-(0)3-5543-3091 Fax: +81-(0)3-5543-3096

Hiroshima Headquarters  
12-17 Kako-machi, Naka-ku, Hiroshima 730-8652, Japan  
Phone: +81-(0)82-243-5505 Fax: +81-(0)82-243-1976