



Product Guide

Blood Bank Equipment

Products

- Blood Collection Mixer
- Tube Sealer
- Plasma Thawing Water Bath
- Plasma Separator
- Centrifuge Balance

The Company

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BLOOD COLLECTION MIXER

Model CM735A



Features

- Automatically clamps blood bag tubing when collected blood volume reaches preset volume. Preset volume is user-selectable.
- Rocks to mix collected blood with anticoagulant in the blood bag.
- LCD panel displays collected blood volume, preset volume to collect, total weight of collected blood and blood bags, elapsed time of donation and alarm symbols.
- Audible and visual alarm signals at the end of collection, at abnormal blood flow and at low battery condition.
- Large tray. Up to quadruple blood bags can be used.
- Automatically tares weight of blood bags to measure net volume of collected blood.
- Clamping module is detachable, so can be mounted either left side or right side.
- Fully portable with a rechargeable and replaceable battery pack.
- Both built-in charger and a separate charger unit included.
- Canvas carrying bag included.
- Lightweight, battery operation, carrying bag - a convenient machine for mobile units.
- UL, CE, CSA certified.

Control Panel



Display font



Operation Sequence

Target volume was preset.
Now ready to start a cycle.



Blood bag is loaded.
It shows bag weight.



START button pressed.
It counts up from 0 ml.



Collection continues.
It shows blood volume.



It reached target volume.
Clamp closes.

END button pressed.
It shows total weight.



To start a new cycle

(*) Auxiliary displays



Alarm status display



Elapsed time display

Replaceable battery pack



Clamp module can be mounted at the left or at the right.



Tray removed to be stowed in the canvas carrying bag.

Specification

- (1) Collected volume : 0 - 999 ml, with 1 ml step
(2) Total weight display : 0 - 1,199 gram, with 1 gram step
(3) Elapsed time display : 0 - 19 minute 59 second
(4) Target volume set
- Range : 0 - 995 ml, with 5 ml step
- Set method : UP, DOWN and PRESET buttons
- Preset figures : 350, 400, 450, 500 ml (may vary upon request)
- Default figure : 450 ml (may vary upon request)
(5) Alarm : low battery, low flow (30 ml/min), tray off, long collection
(6) Tray rocking : 36 cycle/min, +/-12.5 °
(7) Accuracy : collected volume: -0 - +3 ml, total weight: -0 - +3 gram
(8) Control : POWER, START, END, TIME, CLAMP, PRESET, UP, DOWN
(9) Indication panel : LCD display
(10) Power source : Battery pack or AC power adapter
(11) AC power adapter : 100-120/220-240 VAC, 18 VDC/1 Amp out
(12) Battery pack : Ni-Cd, 12 VDC/2AH
(13) Battery charging : built-in charger and separate charger unit
(14) Power consumption : 2 W
(15) Dimension : W 203 x H 140 x D 292 mm (W 8.0" x H 5.5" x D 11.5")
(16) Weight : 3.2 Kg (7.0 lb)
(17) Temperature - operation : 0 - 40 °C (32 - 104 °F)
storage : -20 - 70 °C (-4 - 158 °F)

Accessories



Battery pack



Charger unit



Power adapter



Carrying bag

Optional Unit



Battery Charger BC162

- charges 6 battery packs same time.
- 1 pack with fast charging in 1 hour, 5 packs with standard charging.
- has thorough-discharging feature that refreshes used battery packs.

TUBE SEALER

Model SE250



Features

- AC-powered, integrated sealing head - suitable for bench-top use.
- Seals wide range of blood bag tubing - good for tubing diameter 2-6 mm (1/4").
- Fast sealing in one second. No warm-up required.
- Makes a notch at the center of seal - easier for segmenting.
- Starts working when tubing is placed in the sealing head.
- Designed for high volume workload.
- Head protector warrants safe and easy operation. Detachable for head cleaning.
- Splashguard included for protection of users from accidental blood splash.
- UL, CE certified.

TUBE SEALER

Model SE450



Features

- AC-powered, with handheld sealing unit.
- Sealing unit cable is 1.8 meters (6 feet) long.
- Seals wide range of blood bag tubing - good for tubing diameter 2-6 mm (1/4").
- Fast sealing in one second. No warm-up required.
- Makes seals with a notch at the center for easy segmenting of tubing.
- Head protector is detachable for sealing head cleaning.
- Suitable at collection sites or laboratories where multiple users should share a machine.
- CE certified.

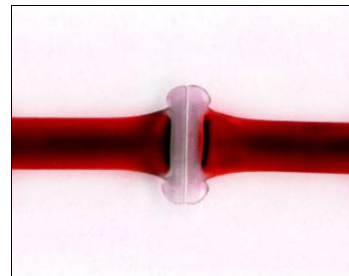
Specification

- | | |
|------------------------------|--|
| (1) Sealing time | : 1 - 2 second |
| (2) Tubing diameter | : 6 mm (1/4") diameter max |
| (3) RF cable length | : 1.8 meters (6 feet) |
| (4) Indication lamp | : POWER, SEALING |
| (5) Operation frequency | : 40.68 MHz |
| (6) Power source | : 100-120/220-240 VAC |
| (7) Power consumption | : operating - 250 W, standby - 10 W |
| (8) Dimension - main unit | : W 106 x H 150 x D 260 mm (W 4.2" x H 5.9" x D 10.2") |
| - hand unit | : W 28 x H 44 x D 204 mm (W 1.1" x H 1.8" x D 8.1") |
| (9) Weight - main unit | : 3.5 Kg (7.7 lb) |
| - hand unit | : 0.2 Kg (0.5 lb) |
| (10) Temperature - operation | : 0 - 40 °C (32 - 104 °F) |
| storage | : -20 - 70 °C (-4 - 158 °F) |

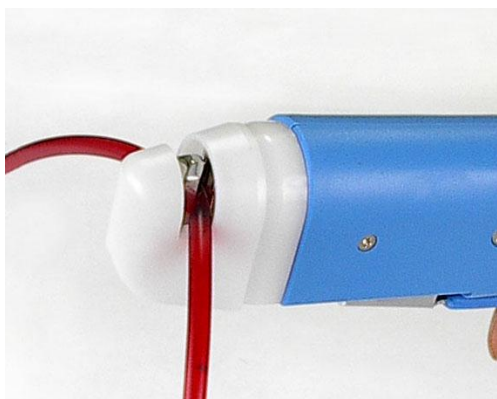
Accessories



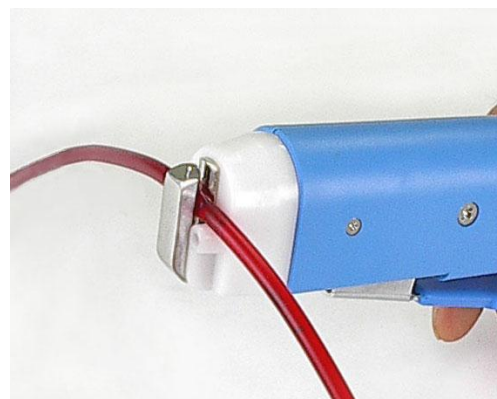
RF cable



A notched seal



A neon illuminates in head during sealing.



Head protector taken off

TUBE SEALER

Model SE700



Features

- Battery-powered, compact and lightweight.
- Seals at handheld sealing unit.
- Sealing unit cable is 1.8 meters (6 feet) long.
- Seals wide range of blood bag tubing - good for tubing diameter 2-6 mm (1/4").
- Fast sealing in one second. No warm-up required.
- Makes seals with a notch at the center for easy segmenting of tubing.
- Full charging in 6 hours. Battery level meter indicates charge level and charging status.
- Battery pack is rechargeable and replaceable. Battery charger is built-in in the unit.
- Head protector is detachable for sealing head cleaning.
- Canvas carrying bag is included. The bag carries all parts.
- Lightweight, battery operation and carrying bag - an ideal device for mobile use.
- UL, CE certified.

Specification

- (1) Sealing time : 1 - 2 second
- (2) Tubing diameter : 6 mm (1/4") diameter max
- (3) RF cable length : 1.8 m (6 feet)
- (4) Indication lamp : BATTERY LEVEL, CHARGING, SEAL, SEALING
- (5) Operation frequency : 40.68 MHz
- (6) Power source : battery pack (NiMH, 12VDC/4.5AH)
- (7) Battery charger unit : 100-120/220-240 VAC, 18 VDC/1 Amp out, 25 W
- (8) Battery charging : full charging in 6 hours
- (9) Dimension - main unit : W 148 x H 34 x D 252 mm (W 5.8" x H 1.4" x D 9.9")
- hand unit : W 28 x H 44 x D 204 mm (W 1.1" x H 1.8" x D 8.1")
- (10) Weight - main unit : 1.7 Kg (3.8 lb)
- hand unit : 0.2 Kg (0.5 lb)
- (11) Temperature - operation : 0 - 40 °C (32 - 104 °F)
storage : -20 - 70 °C (-4 - 158 °F)

Accessories



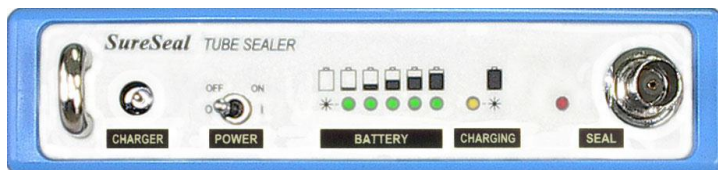
RF cable



Charging adapter



Carrying bag



Battery charge level is displayed on the panel.



The carrying bag houses all parts.

TUBE SEALER

Model SE840, SE850, SE860



Features

- Convenient tube sealing machines to get 4, 5, 6-point seals for segmentation.
- Fast sealing by simultaneous operation of all sealing heads.
- Seals wide range of blood bag tubing - good for tubing diameter 2-6 mm (1/4").
- All notched seals made for easy segmenting of tubing.
- Spacing between heads is 80 mm.
- Automatically works when tubing is placed in sealing heads.
- Remote triggering is possible with use of an external foot switch.
- Head protectors warrant safe and easy operation. Detachable for head cleaning.
- Splashguard equipped for protection of users from accidental blood splash.
- CE certified.



SE850

Specification

- (1) Distance between heads : 80 mm (3 1/8")
- (2) Tubing diameter : 6 mm (1/4") diameter max
- (3) RF frequency : 40.68 MHz
- (4) Overall sealing time : 1 - 3 second
- (5) Output RF power : effective level - 30 watts per each sealing head
- (6) Starting of sealing : depressing trigger lever in #1 head or an external foot switch
- (7) Lamp color indication : green - ready to seal
red - sealing in progress
amber - protector not in place
- (8) Alarm : audible beeps when sealing is incomplete
- (9) Selections and adjustment
 - ON/OFF of working heads : ON/OFF switches on rear panel
 - Operation sequence of heads : 'Left → Right' or 'Right → Left' switch on rear panel
 - Time interval of head starts : adjustable between 60-160 milliseconds on circuit board
 - Timing of head returns : 'Simultaneous' or 'Individual' switch on circuit board
 - Adjustment of seal thickness : adjustable screws on front panel

(10) Power source

Model	SE840A	SE840E	SE850A	SE850E	SE860A	SE860E
Nominal voltage	AN*	EN*	AN*	EN*	AN*	EN*
Working voltage	AW*	EW*	AW*	EW*	AW*	EW*
Power wattage	800 W	800 W	1,000 W	1,000 W	1,200 W	1,200 W
Current rating	8 A	4 A	10 A	5 A	12 A	6 A
Current protection	recoverable circuit breaker					

AN*: 100-120 VAC, 50/60 Hz, 1 phase

EN*: 200-240 VAC, 50/60 Hz, 1 phase

AW*: 90-132 VAC, 47-63 Hz, 1 phase

EW*: 180-264 VAC, 47-63 Hz, 1 phase

(11) Dimension and weight

Model	SE840A, SE840E	SE850A, SE850E	SE860A, SE860E
Number of head	4	5	6
Dimension (WxHxD)	457x244x380 mm (18.0"x9.6"x15.0")	561x244x380 mm (22.1"x9.6"x15.0")	665x244x380 mm (26.2"x9.6"x15.0")
Weight	12.6 Kg (27.8 lb)	15.2 Kg (33.6 lb)	17.8 Kg (39.3 lb)

(12) Temperature - operation : 0 - 40 °C (32 - 104 °F)

storage : -20 - 70 °C (-4 - 158 °F)

Accessories



Foot switch



A head protector removed

PLASMA THAWING WATER BATH

Model GE2006



Features

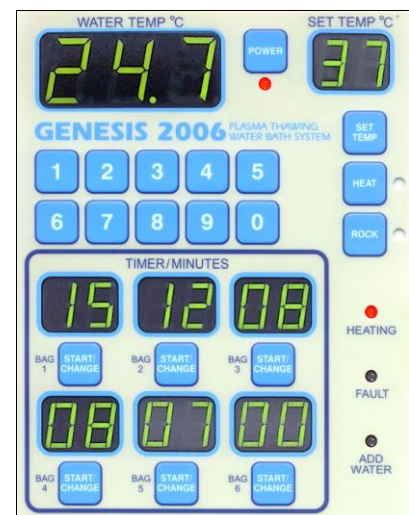
- Thaws 6 plasma bags simultaneously.
- Thaws standard size plasma as well as cryoprecipitate.
- Individual time setting for each bag location.
- Forced water circulation with gentle rocking motion.
- Quick heating - in approximately 18 minutes: from ambient to 37 °C.
- Variable setting between ambient to 56 °C. Accurate water temperature control.
- Disposable plastic overwrap bags included for keeping plasma bags dry.
- Displays remaining time to reach set temperature. Gives audible completion signal.
- Numerous safety features and alarms. Float switch prevents operation without water.
- Tub is removable, so easy to fill with water and easy to clean.
- Simple to operate, easy to read LED display.
- Compact size saves valuable bench space.

Specification

- (1) Number of bags to thaw : 6 bags
- (2) Tub volume : 15 liters (3.7 gallons)
- (3) Power requirement : 1,500 W, 110-120/220-240 VAC
- (4) Heating power : 1,250 W
- (5) Thawing time : 18 minutes
- (6) Default temperature set : 37 °C
- (7) Temperature control : ambient - 56 °C
- (8) Temperature accuracy : +/-0.3 °C
- (9) Dimension - main unit : W 244 x H 335 x D 675 mm (W 9.6" x H 13.2" x D 26.6")
- (10) Tub size : W 203 x H 190 x D 457 mm (W 8.0" x H 7.5" x D 18.0")
- (11) Weight : 11 Kg (24 lb)
- (12) Temperature - operation : 0 - 40 °C (32 - 104 °F)
storage : -20 - 70 °C (-4 - 158 °F)

Accessories

- Plastic overwrap bag (1000 pieces)
- Bag holder
- Reference glass thermometer



Control panel



Plasma bags are put in plastic bags.



Tub can be taken out to change water.

PLASMA SEPARATOR

Model ES315



Features

- A semi-automatic press for plasma separation from centrifuged whole blood.
- Equipped with optical sensor, clamping unit and control electronics.
- With conventional mechanical plasma separators, operators should continuously watch tubing to stop plasma transfer not to allow red cells passing into plasma bag. But with this device, operators can be free from continuous watching time and labor as it automatically clamps tubing when the first red cells appear in tubing at the end of plasma transfer. One operator can handle about 10 to 20 units. Great way of labor saving.
- RBC sensing sensitivity is user-adjustable.
- Gives audible and visual alarms.
- Good reproducibility and easy to use.
- CE certified.

Specification

- (1) Clamp closing speed : in 1 second from sensing
- (2) Control : POWER, OPEN, CLOSE, START, SENSITIVITY
- (3) Indication lamp : POWER, CLOSE, START
- (4) Sensor type : infra-red beam interruption sensor
- (5) Clamping power source : geared motor
- (6) Power source : AC power adapter (100-120/220-240 VAC, 18 VDC out)
- (7) Power consumption : 10 W
- (8) Dimension : W 181 x H 285.3 x D 236 mm (W 7.1" x H 11.2" x D 9.3")
- (9) Weight : 3.7 Kg (8.2 lb)
- (10) Temperature - operation : 0 - 40 °C (32 - 104 °F)
storage : -20 - 70 °C (-4 - 158 °F)

Accessories



Power adapter



Control panel



Sensor and clamping unit



It detects RBC to clamp tubing immediately.

CENTRIFUGE BALANCE

Model CB220



What's it for

- This device is a specially-designed electronic 'differential scale' for a peculiar use in blood banks. It measures two weights independently and displays how much which side is lighter than the other side.
- For plasma separation from whole blood, blood bags are loaded in high-speed centrifuges. It is an essential process in blood banks that, before being loaded into centrifuges, weight of the two loads (each blood bag + bucket) has to be matched to be same or very close, otherwise weight unbalance could damage the centrifuges.
- This simple device makes weight-balancing process very simple, accurate and speedy. It will be a perfect way to save valuable centrifuge machines, as well as labor.

Features

- Has two independent weight sensors, and displays weight difference.
- How to use:
 - Operators put two buckets (with blood bags in each bucket) on both plates.
 - Display shows weight difference and an indication lamp at the lighter side turns on.
 - Operators just add a few weight-chips (e.g. 1 gram each) into bucket until 'GOOD' lamp turns on. The lamp turns on when weight difference becomes less than allowance.
- Accurate, simple and very easy to use.

Specification

- (1) Range of weight measurement : 0 - 2,500 gram
- (2) Weight difference to be displayed : 0 - 2,500 gram
- (3) Weight difference for GOOD lamp : 2 gram (may vary upon request)
- (4) Weight display panel : 4-digit LED display
- (5) Indication lamps : GOOD, A, B
- (6) Weight sensors : Load cell
- (7) Control : POWER, ZERO
- (8) Accuracy : +/- 2 gram
- (9) Power source : AC power adapter (100-120/220-240 VAC, 18VDC out)
- (10) Power consumption : 5 W
- (11) Dimension : W 330 x H 130 x D 180 mm (W 13.0" x H 5.1" x D 7.1")
- (12) Weight : 3.2 Kg (7.1 lb)
- (13) Temperature - operation : 0 - 40 °C (32 - 104 °F)
storage : -20 - 70 °C (-4 - 158 °F)

Accessories



Power adapter



It's simple and speedy.



B-side is lighter by 4 grams. Adding a few weight-chips in B will make GOOD lamp light.

The Company

Centron

Centron Technologies Corporation

- Specialized solely in blood bank equipment since 1991
- In-house R&D and manufacturing
- ISO 13485 Quality system

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