

# autoLog®

Autotransfusion System



# Medtronic: A Pioneer in Blood Component Technologies

Medtronic has been a key participant in the area of blood component therapies for more than a decade. We are committed to setting the industry standard by providing innovative, cost-effective products designed to meet your needs and enable you to continue to provide the best possible care.

# The Medtronic Mission

To contribute to human welfare by the application of biomedical engineering in the research, design, manufacture, and sale of instruments or appliances that alleviate pain, restore health and extend life.

# Sophisticated, Effective Processing System

- The autoLog Autotransfusion System's fully automated design consistently produces a high-quality end product.
- The System's preset operating program completes one processing cycle (fill, wash, empty) in approximately three minutes and returns approximately 135 ml of blood to the holding bag.
- The autoLog System uses a two-stage filling process capable of first stage fill speed of 600 ml/min followed by a second stage fill speed at either 600 or 250 ml/min based on incoming volume.
- While a processing cycle can be initiated manually, the autoLog System has a unique self-start feature.

### A Source of High-Quality Blood Product

- The autoLog System is designed to consistently produce a blood product with a hematocrit of 50% or greater.
- The autoLog System's unique bowl design packs blood tightly to produce an increased hematocrit and allows blood to enter at a moderate G-force to minimize hemolysis. The end product remains consistent and is independent of the type of surgical procedure.
- The variable speed wash process, coupled with the unique design of the bowl, promotes the effective removal of free-plasma hemoglobin, residual anticoagulant agents, activated platelets, white blood cells, and activated clotting factors of 90% or greater in accordance with AABB guidelines.<sup>6</sup>

### Simplicity of Operation

- Continuous software monitoring improves quality of end product and speed of processing.
- Easy system set-up and intuitive feature design increase efficiency and save time for system operators.
- The autoLog® System is an all-inclusive processing system, saving you money, storage space and time on inventory management.





#### REFERENCES

- LeGrand, Richard. American Red Cross letter to customers, January 2003, available at: http://www.redcross.org/services/biomed/profess/legrand.pdf
- American Red Cross. American Red Cross Statement on Blood Pricing. May 24, 2001 press release available at: http://www.redcross.org/press/biomed/bm\_pr/010524price.htm
- 3. American Red Cross. Blood Banking Community Issues National Appeal for Immediate Donations. January 12, 2004 press release available at: http://www.redcross.org/pressrelease/0,1077,0\_114\_2164,00.html
- 4. Speiss, BD. Transfusion and outcome in heart surgery. Ann Thorac Surg 2002; 74(4):986-7.
- 5. Hannon, Timothy. Medtronic autoLog™ Autotransfusion System: Comparative Wash Quality and Clinical Assessment. *Technical Concept Paper* published by
- 6. Guidance for Standards for Perioperative Autologous Blood Collection and Administration. First Edition. American Association of Blood Banks Sec. 5.1.2, p. 21.

"From a clinical standpoint, the compact design, economy, ease of set-up, and simplicity of operation are major advantages of the autoLog Autotransfusion System. Combined with our controlled laboratory data showing its wash program to be fast, sophisticated and quite efficient, the autoLog has proved to be a very capable and desirable autotransfusion machine." <sup>5</sup>



### autoLog® Autotransfusion System Specifications

#### **Electrical Classification**

Class I, Type B, Ordinary, Continuous Operation

**Power** 

Voltage: 110/120 or 220/240 V

Cycles: 50-60 Hz Phase: Single

Current: 1.6/0.8 amps (depending upon

voltage selection)

Fuses: 4 AT/240 V

Power cord: 2 wires plus ground (earth) connector;

3-prong hospital grade (USA only)

**Speed and Flow Rate Specifications** 

 Centrifuge:
 0-10,000 RPM (±5%)

 Pump:
 0-600 ml/min (±5%)

 Vacuum:
 200-280 mbar

**Dimensions** 

 Width:
 33 cm (13 inches)

 Height:
 75 cm (30 inches)

 Depth:
 22 cm (9 inches)

**Weight** 32 kg (70 lb.)

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**Temperature Limit** 

Operational: 10°C-30°C (50°F-86°F) Storage: 5°C-30°C (41°F-86°F)

**Humidity Range** 

Operational: 10-95% non-condensing Storage: 10-95% non-condensing

NOTE: Technical data, features, and options referenced are based on the latest information available at the time of printing. Medtronic reserves the right to change specifications without notice.

**Caution:** Federal law (USA) restricts this device to sale by or on the order of a physician.

For more information contact your local Medtronic Revascularization and Surgical Therapies Sales Representative or call Customer Service toll-free at 1-800-328-1357.

### Ordering Information

autoLog® System Product Codes

Part #	Description	Qty
ATLG	autoLog® Autotransfusion System	1
VR702	Vacuum Regulator	1
ATL2001	Wash Kit	6
BT725	Suction/Anticoagulation Line	10
BT1000SC	Blood Holding Bag	24
ELUWB1	Waste Bag	10
EL2120	Hardshell Blood Collection Reservoir with 120 micron filter	6
EL240	Hardshell Blood Collection Reservoir with 40 micron filter	6
EL400	4 Liter Hardshell Cardiotomy Reservoir with 120 micron filter	6
EL402	4 Liter Hardshell Cardiotomy Reservoir with 20 micron filter	6
EL404	4 Liter Hardshell Cardiotomy Reservoir with 40 micron filter	6
ATLHB	Hardshell Reservoir Bracket	1
ATLHBI	Hardshell Reservoir Bracket-International	1
ATBAG300	Autologous Transfer Bag - 300 mL	48
ATBAG600	Autologous Transfer Bag - 600 mL	48
ATBAG1000	Autologous Transfer Bag - 1000 mL	48

#### **One Source Packs**

Part #	Description	Qty
ATLS21 ATL2001 BT725	Includes One of Each Wash Kit Suction/Anticoagulant Line	4
EL2120	4 Liter Hardshell Blood Collection Reservoir with 120 micron	filter
ATLS24 ATL2001 BT725 EL240	Includes One of Each Wash Kit Suction/Anticoagulant Line 4 Liter Hardshell Blood Collection Reservoir with 40 micron f	4 ilter
ATLS00 ATL2001 BT725 EL400	Includes One of Each Wash Kit Suction/Anticoagulant Line 4 Liter Hardshell Cardiotomy Reservoir with 120 micron filter; ¼" and ¾" prime ports	4
ATLS02 ATL2001 BT725 EL402	Includes One of Each Wash Kit Suction/Anticoagulant Line 4 Liter Hardshell Cardiotomy Reservoir with 20 micron filter; ¼" and ¾" prime ports	4
ATLS04 ATL2001 BT725 EL404	Includes One of Each Wash Kit Suction/Anticoagulant Line 4 Liter Hardshell Cardiotomy Reservoir with 40 micron filter; ¼" and ¾" prime ports	4

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# Why Use Autologous Red Blood Cell Salvage?

Autologous red blood cell salvage is a safe, reliable, cost effective method of returning red blood cells back to patients. The autologous red cell salvage procedure maximizes patient safety, overall cost savings, and blood quality.

#### Additional benefits include:

- Eliminates the risk of clerical errors during blood handling.
- Minimizes costs associated with the use of allogenic blood transfusion.
- Minimizes the use of banked blood products, thereby reducing the risk for transmission of blood-borne diseases, lowering the risk of transfusion reaction, and providing an option for those with religious objections to transfusions.
- Addresses the issue of blood shortages. Blood shortages are common and will become more acute in the next few years.<sup>4</sup>
- Provides red blood cells with normal 2, 3 DPG levels and viability superior to preoperative autologous blood donation.<sup>5</sup>



### Facts on Blood Prices and Supply

- Blood product prices have increased significantly due to the rising costs of safety measures and requirements for the blood supply. 1,2
- National blood inventory levels have dropped well below a safe and adequate supply. Certain critical blood types are not routinely available and as a result some elective surgeries have been postponed or cancelled.<sup>3</sup>
- Transfusion for cardiac surgery utilizes approximately 20% of the United States' blood supply.4