

# AmiCORE

## A New Level of Platelet Collection

### TriVision

TriVision provides precise optical monitoring of the cellular interface to enhance platelet separation and produce high quality platelet products.

Three high resolution optical fibers provide clear "Vision" of cellular separation within the centrifuge. TriVision enables the system to detect the interface position quickly and precisely, which helps to maintain consistent separation stability.

Platelet yield:  $3.5 \pm 1.1 \times 10^{11}$  platelets  
 Residual leukocyte:  $0.070 \pm 0.1 \times 10^6$  WBCs per unit  
 Collection efficiency:  $78.4 \pm 5.4\%$   
 Collection time:  $49 \pm 10.8$  minutes  
 Actual to Target Ratio:  $0.9 \pm 0.1$

*Source: "Data on file at Fresenius Kabi"*

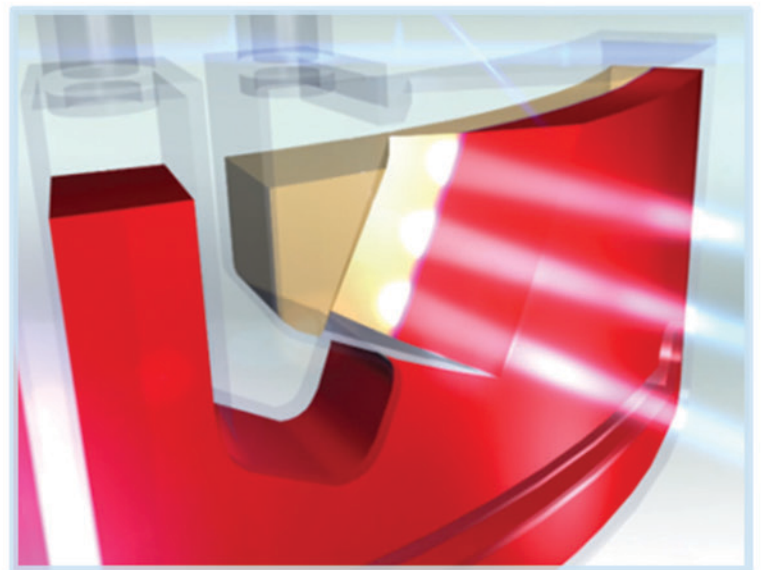
Accurate donor post-count allows selection of target yields consistent with donor safety.

Laboratory measured	$208.9 \pm 43.9 \times 10^3 / \mu\text{L}$
AmiCORE estimated	$199.6 \pm 44.6 \times 10^3 / \mu\text{L}$
Accuracy	$95.7 \pm 7.2\%$

*Source: "Data on File at Fresenius Kabi"*

Refer to AmiCORE Operator's Manual for a full list of warnings and cautions associated with the use of the AmiCORE device.

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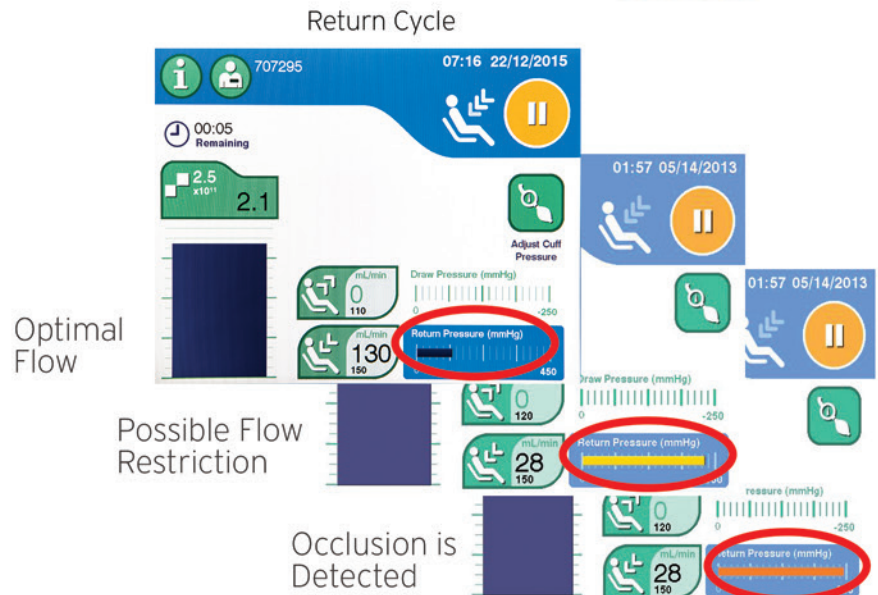


### Spleen Factor

Fresenius Kabi apheresis separation technology takes into account platelets released into the bloodstream by the spleen during apheresis to improve the accuracy of the post-apheresis platelet count estimate.



Real-time pressure monitoring and numerical flow rate control help protect the donor's vein and maintain comfort



## Intelligent Flow Control (IFC)

Intelligent Flow Control (IFC) automatically establishes optimal donor flow rates which helps to minimize occlusions while reducing overall collection time. IFC will increase or decrease the draw rate and adjust the cuff pressure in response to venous pressure changes. When AmiCORE detects a draw occlusion, the system will momentarily pause drawing whole blood to allow the vein to rest and then resume with a lower draw rate or higher cuff pressure. AmiCORE continuously monitors the pressure within the vein and will slowly increase the draw rate to help minimize collection time if the vein is capable.

## Saline Infusion

Saline Infusion replaces fluid during donation as the replacement of saline has been shown to reduce donor reactions and increase donor comfort.

Gruber, et al wrote about vasovagal reactions:

*"Blood centers should be aware of their reaction rates, particularly when using collection methods that do not allow for replacement saline (a method known to significantly reduce vasovagal reactions)."*<sup>1</sup>

Kamel, et al wrote about loss of consciousness:

*"We defined significant variables associated with LOC [loss-of-consciousness] reaction in ACs [automated collection] as ICT [intended collection type], draw time, and donation status. ICTs when no volume replacement with saline is administered were strongly associated with LOC reaction. The majority of injuries occurred after the donor leaves the donation chair."*<sup>2</sup>

<sup>1</sup>Gruber L, McCarty M, Gottschall J. Vasovagal reactions: apheresis platelets vs. apheresis platelets plus concomitant plasma. Transfusion 2014; 54 Supplement:37A - 38A.

<sup>2</sup> Kamel H, Bravo MD, Custer B, Tomasulo PA. Loss of consciousness associated with automated collections. Transfusion 2014; 54 Supplement:122A.