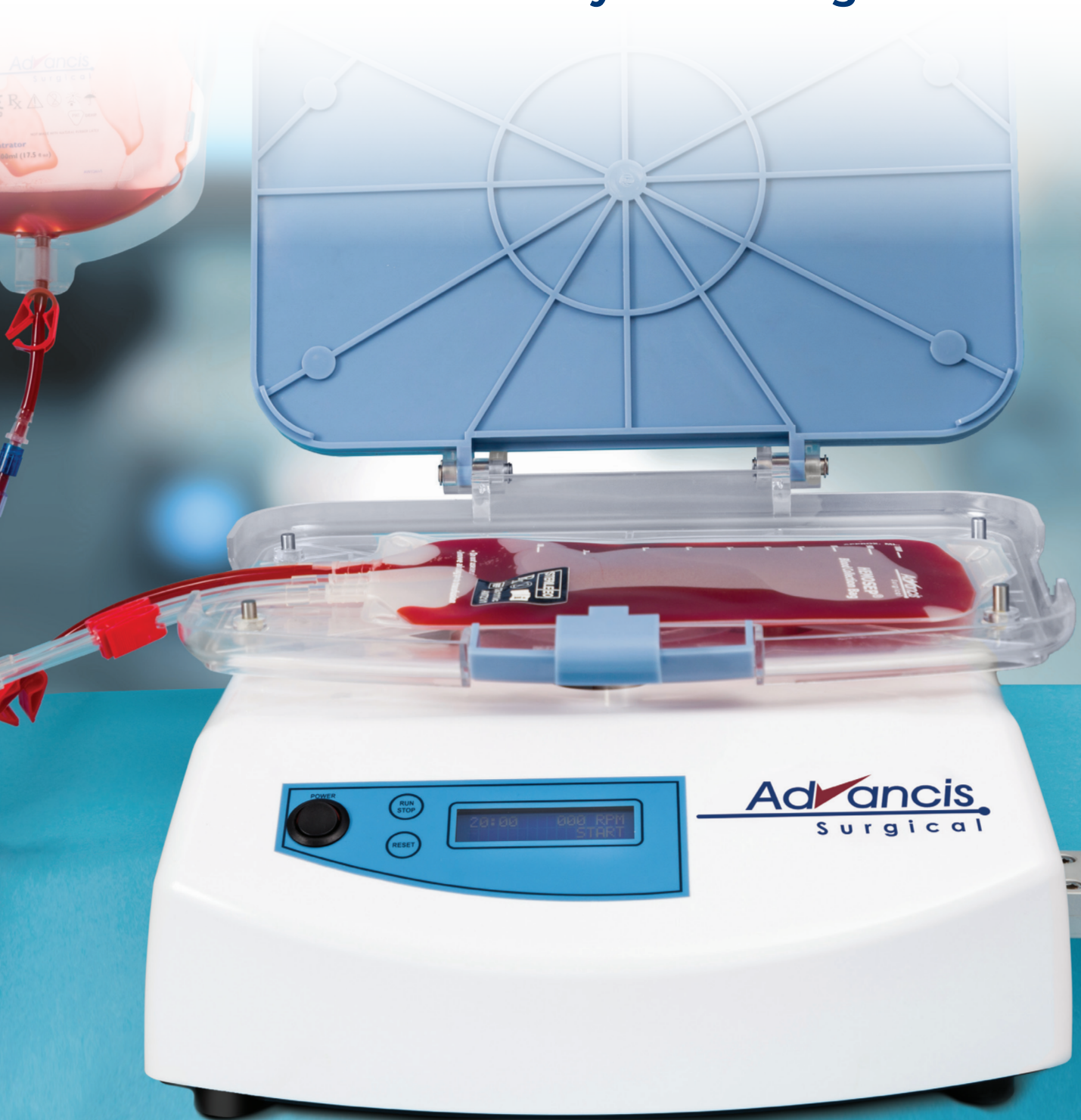


# H e m o s e p

## Revolutionary Cell Salvage



Concentrating **all blood components** from salvaged autologous blood.

## What is Hemosep<sup>®</sup>?



**Hemosep<sup>®</sup>** is different to traditional cell salvage because all blood components are saved, not just red blood cells (RBC).

**Hemosep<sup>®</sup>** is a simple and reproducible way to provide patients with a haemoconcentrated mix of all cell components, including platelets and clotting factors<sup>1,2,3,4</sup>, which are lost in traditional cell salvage techniques.

### Why use Hemosep<sup>®</sup>:

• Reduced need for donor blood products<sup>1</sup>



• Reduced post-operative bleeding<sup>1</sup>



• Reduced patient recovery time<sup>2</sup>



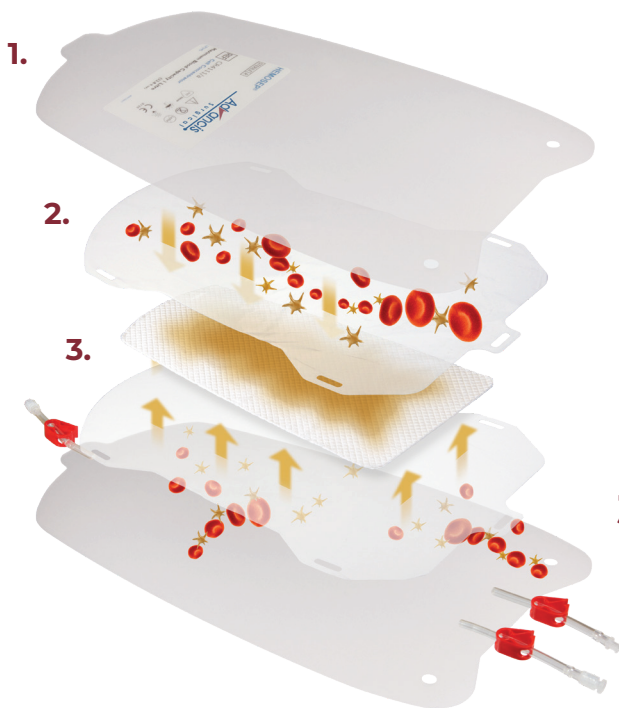
• Reduced time in ICU<sup>2</sup>



### How does Hemosep® work?

**Hemosep®** processes the patient's salvaged blood collected during medium to high blood loss procedures including cardiac, orthopaedic, spinal, renal and vascular surgeries. It uses modified separation technique, concentrating the blood through a membrane controlled superabsorber.

The **Hemosep® Cell Concentrator Bag** is the active processor of the device and consists of three parts:



#### 1. The blood bag

Houses the technology (filter membrane and super absorbent pad) and blood whilst it is filtered

#### 2. Filter membrane

A unique size pore structure to control what is able to pass through during filtration means that no cellular components can pass into the super absorbent pad

#### 3. Superabsorbent pad

The excess plasma and blood detriments that pass through the filter membrane are absorbed and turned into a gel-like substance. This allows for easy biohazard disposal.

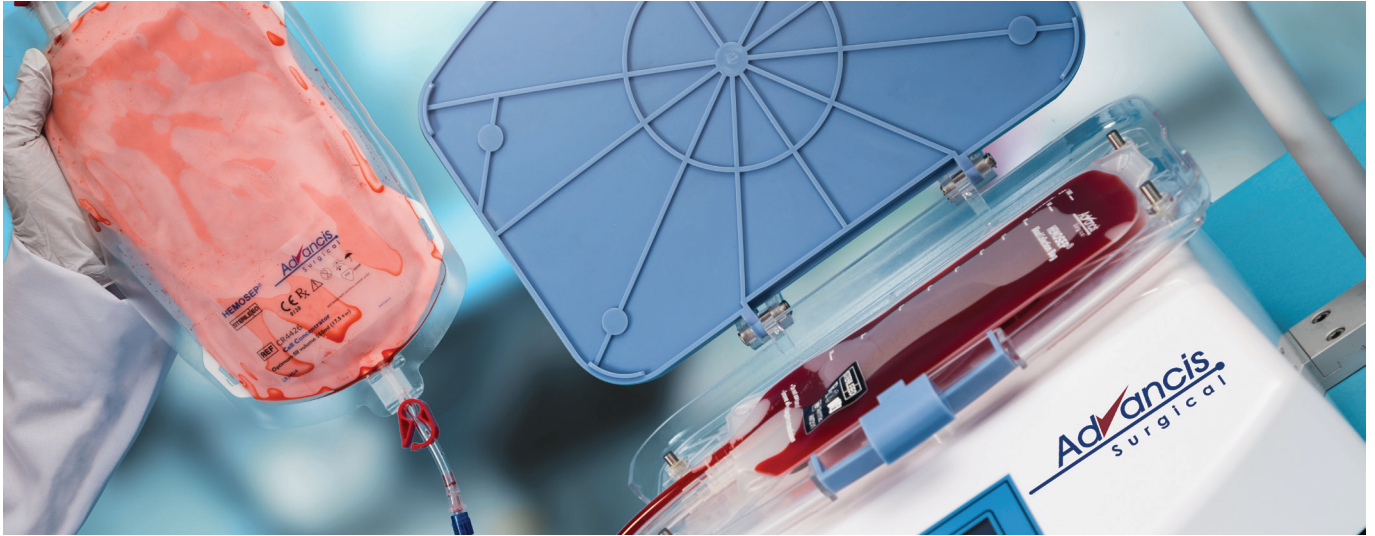
### Cardiac Applications:

**Hemosep®** can be used to collect and process both residual surgical site blood and blood from the heart-lung machine post bypass. To collect the blood left in the heart-lung machine, the **Hemosep® Cell Concentrator Bag** can simply be connected to the tubing below the reservoir for gravity fill.

### Intra-operative Applications:

With the inclusion of the intra-operative suction tool and blood reservoir, **Hemosep®** can be used during any blood loss procedure. Using the suction tool, blood is aspirated directly from the surgical site into the intra-operative blood reservoir. Here, health care professionals have the flexibility to process the blood for return to the patient or discard.

## Clinical Benefits



- Retains all cell components including red blood cells, platelets and clotting factors<sup>1,2,3,4</sup>
- Reduces the need for post-operative allogenic transfusion<sup>1</sup>
- More effective at platelet and protein preservation than traditional cell salvage<sup>3</sup>
- Fibrinogen is concentrated; important in a cardio-pulmonary bypass setting<sup>2,4</sup>
- Reinfusing all cell species can reduce post-operative bleeding<sup>1</sup>
- Filters out broken cells, plasma, saline, blood detriments and surgical debris<sup>3,4</sup>

## Patient Benefits



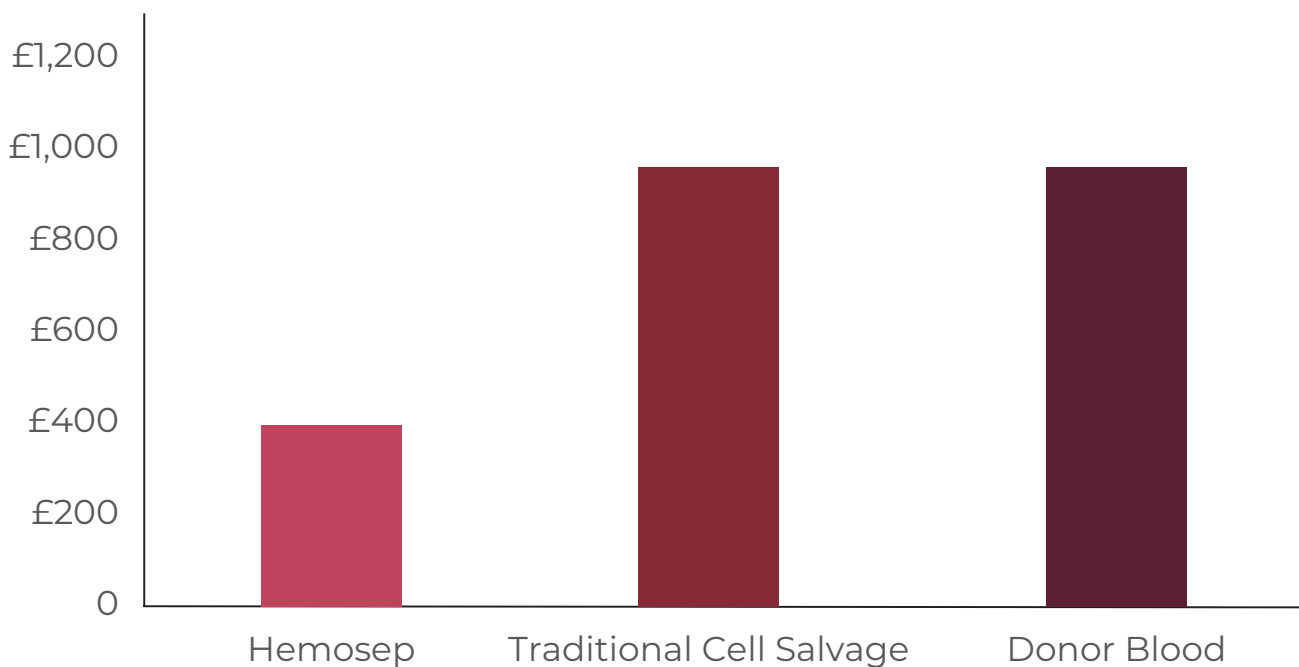
- Reduced need for donor blood products<sup>1</sup>; reduced adverse transfusion reactions
- Faster patient recovery times: could reduce ICU time by up to a day per patient<sup>2</sup>
- Offers an option for patients when making decisions on receiving blood products for cultural or religious reasons

## Cost Benefits



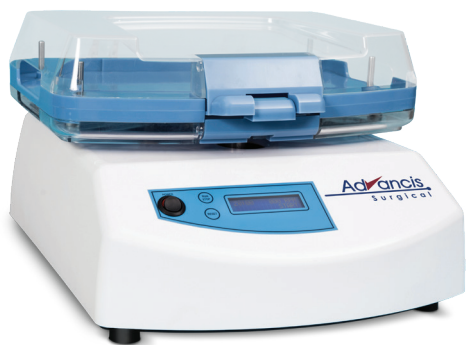
- Provides cost savings versus traditional cell salvage and donor blood (see fig. 1)
- Functions as designed without technical failures<sup>1</sup>
- Gelatinous waste product easier to dispose of than large volumes of fluid associated with traditional cell salvage

**Figure 1:** Typical cost of usage of Hemosep, traditional cell salvage and donor blood\*



\*Based on the average cost of the associated factors relevant to each method of transfusion. Based on average UK costs (cost savings may vary depending on market).

# Hemosep Product List



**Shaker Unit** Code: **CR4213**

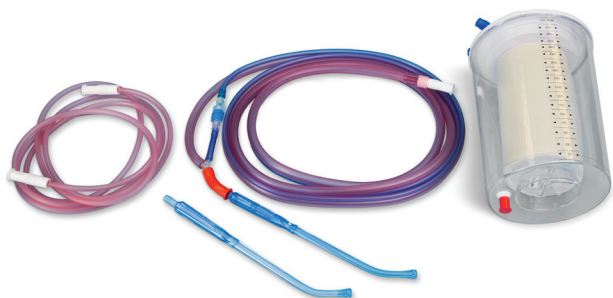
Unit of Measure: **1** Box Quantity: **1**



**Cell Concentrator Pack** Code: **CR4426**

*Including: Blood collection bag & blood processing bag*

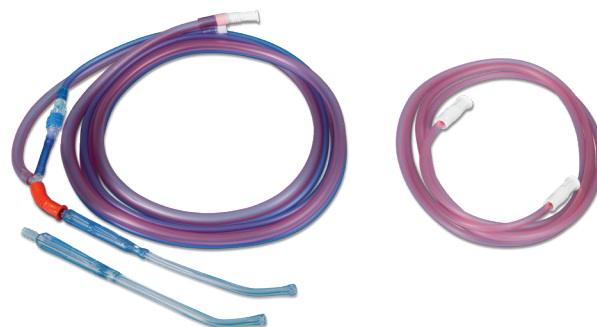
Unit of Measure: **1** Box Quantity: **1**



**Intra-Operative Kit** Code: **CR4428**

*Including: Blood Reservoir, Wand Set & Tubing*

Unit of Measure: **1** Box Quantity: **1**



**Suction Kit** Code: **CR4434**

*Including: Spare Wand Set and Tubing*

Unit of Measure: **1** Box Quantity: **1**



**Intra-Operative Stand** Code: **CR4429**

Unit of Measure: **1** Box Quantity: **1**

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### References:

1. Gunaydin S, Gourlay T.(2013) **Novel Ultrafiltration Technique for Blood Conservation in Cardiac Operations** : Ann Thoracic Surg ;95:2148-51
2. Mushtaq R, Jeganath V, Levine AJ .**Evaluation of Hemosep® Cell Salvage Device inn Cardiac Surgical Patients** –Poster Presentation
3. Data on File ( NHS BLOOD Testing)
4. Gunaydin S, Robertson C, Baran-Budak A, Gourlay T (2017) **Comparative evaluation of blood salvage techniques in patients undergoing cariac surgery with cardiopulmonary bypass**: Perfusion 33(2) 105-109



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