MEDICAL DEVICES



**CATSmart** Continuous Autotransfusion System

## SIMPLY BRILLIANT. BRILLIANTLY SIMPLE.

- Technology that gets you up and running quickly
- Design that helps you operate smoothly
- Performance that lets you deliver for every patient



At the heart of CATSmart is our proprietary continuous-flow technology. Unlike bowl-based systems, its one-size-fits-all kit multi-tasks all process steps. Coupled with situation-specific wash programs, an Auto-Start function, and a PRC pump sensor, you can set up fast and be certain PRC is available when your patient needs it.

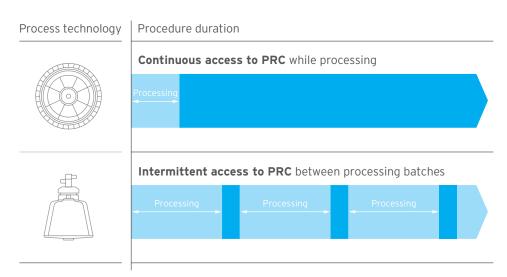
# Quick to start technology

### Wash Programs and Auto-Start Clear settings for swift selections.

CATSmart's three wash programs – Smart, Low Volume, and Emergency – simplify your set-up and in-process changes.

The Auto-Start function can be preset based on the expected amount and speed of blood loss, so you can focus on your patient rather than monitoring the collection reservoir.





#### PRC Sensor

## Reinfusion-ready with minimal mLs.

CATSmart's PRC sensor directs the system to start pumping to the reinfusion bag when PRC volume in the washing chamber registers at as little as 30 mL. Once in the bag, PRC can be accessed for patient use, immediately or whenever required, by pausing the system.

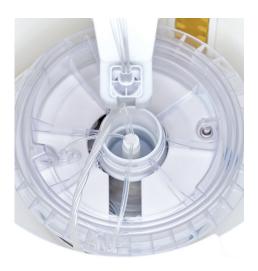
### Continuous Processing

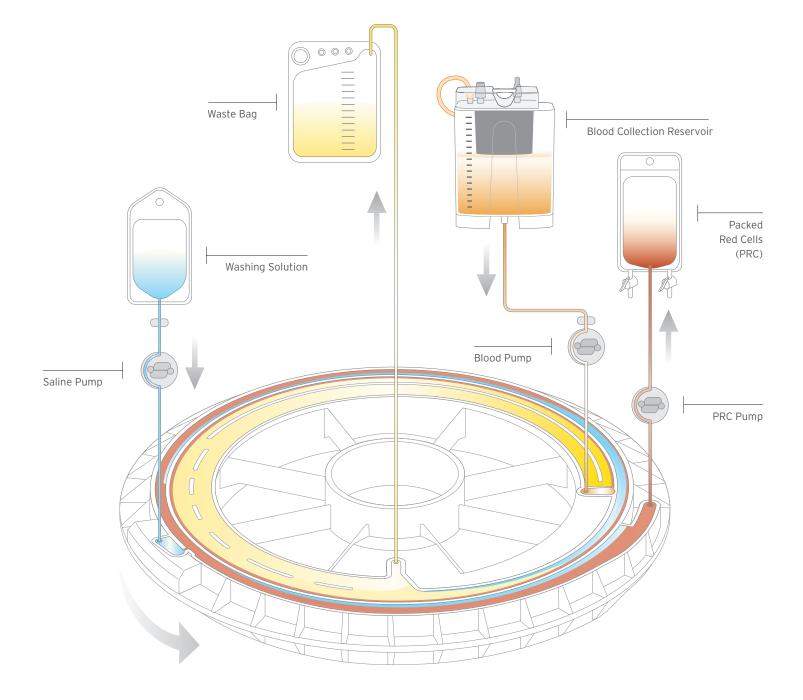
## All-at-once ease. Non-stop results.

CATSmart continuously pushes shed blood through the spiral channel of the washing chamber and simultaneously separates, washes, and packs red cells. The PRC sensor monitors the RBC interface and auto-adjusts pump flow rates, for optimal results, every time.

## AT3 Kit One-size-fits-all efficiency.

CATSmart's AT3 kit simplifies inventory, decision-making, and set up. The single-sized washing chamber can process any volume of shed blood – an easy choice for every patient or procedure. And with all components pre-connected, including the new hematocrit sensor, installation is equally easy.





CATSmart's features and functions include a lighter, slimmer, more agile, and fully adjustable body, a tablet-sized display, quiet-run acoustics, and accessible data management tools.\* All specifically designed to take into account your unique workflow, work style, and work space.

# Easy to operate design

#### Acoustics

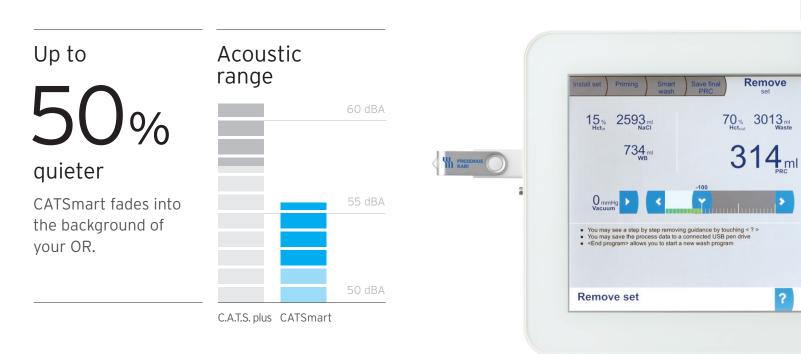
## Runs quiet, so you can stay focused.

CATSmart's enhanced soundproofing surrounding both the washing chamber and vacuum pump minimizes equipmentrelated distractions in your OR – it takes three CATSmart devices running side-by-side to generate the decibel level of one C.A.T.S. plus.

### Data Management

## In-reach tools. Complete reports.

CATSmart's USB interface and optional barcode scanner and matrix printer add speed and simplify accurate data collection and transfer to meet rising reporting needs.



## <sup>Body</sup> Light, slim, agile. For stunning mobility.

Weighing 17lbs lighter and measuring 9" shorter than its predecessor – with smooth-glide, 360°-spin wheels and a bi-pedal, fast-brake system – CATSmart's body is easy to adjust and nimble to maneuver.

CATSmart

#### Display

## Quick-glance data. Glove-touch controls.

CATSmart's full-color interface makes it easy to see patient data in any light and simple to access all functionality – including Set-up and Help – even in gloved hands.

### Adjustability

W .....

## Sitting or standing, it's all within reach.

CATSmart lets you position control right at your fingertips – and eye level. The body raises or lowers to one of five comfort-set heights and the display arm swings smoothly for a clear line of sight to procedure data.

Turn and pull the knob located at the rear of the device to unlock CATSmart's spring-assisted body.

Regardless of the wash program you select, CATSmart delivers PRC with high hematocrit and washout rates – including non-emulsified fat – for every patient and every program, while its on-board vacuum and suction system give you the control to manage hemolysis.

# Sure to deliver performance



## HCT Sensor Keeps an eye on quality.

CATSmart's two ultrasonic sensors continuously measure incoming and outgoing hematocrit levels. All captured data is visualized, real-time, on the display and can be recorded for post-op reporting or review.

#### Vacuum Pump

## On-board for on-demand viability.

CATSmart makes it easy for you with a built-in, optional vacuum pump that's controlled through the touchscreen display.



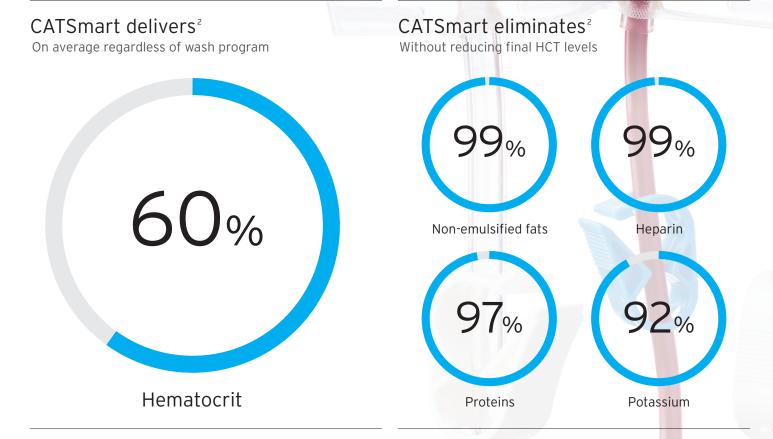
## PRC Quality High HCT. Low fat. No tradeoffs.

All three of CATSmart's wash programs deliver RBC recovery levels above 85% along with impressive HCT and washout rates. You will never need to sacrifice high HCT for low nonemulsified fat – CATSmart provides both, at the same time, minimizing patient risk of postoperative cognitive decline and fat embolisms.<sup>1</sup>

	Wash Program		
	Low Volume 200mL   700mL	<b>Smart</b> 1000mL	<b>Emergency</b> 1000mL
Hematocrit	56   62	64	57
Non-emulsified fats	>99*	>99	>99
Heparin	>99*	>99	>99
Albumin	99   97	99	95
Proteins	98   97	99	94
Potassium	92   92	94	90
Hemolysis	.15   .06	.04	.02

Values above are %

\* Starting volume was 400mL for Low Volume wash



Data on file at Fresenius Kabi.
As demonstrated in published studies.

#### **Technical Information**

Wash Programs	PRC Flow	
Low Volume Wash	25 mL/min	
Smart Wash	20 - 40 mL/min	
Emergency Wash	50 - 100 mL/min	

<b>Delivery Flow Rates</b>		
Red Blood Cell Pump	0 - 190 mL/min	
Shed Blood Pump	0 - 350 mL/min	
Washing Solution Pump	0 - 400 mL/min	

Centrifuge Speed 0 - 2400 rpm

DESIGNED AND MANUFACTURED BY FRESENIUS KABI IN FREIDBERG, GERMANY.

#### Fresenius Kabi USA

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### **FRESENIUS** KABI caring for life

**INFUSE ~ TRANSFUSE ~ NOURISH** 

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#### **Order Information**

Order Number	Description	Units/Case		
Hardware and Hardware Accessories				
9005901	CATSmart Autotransfusion System	1		
9005861	CATSmart Auto-Start Reservoir Holder	1		
M690991	CATSmart ATH Reservoir Holder	1		
9005761	CATSmart Tray	1		
M695501	Centrifuge Lid Cover	1		
9005781	CATSmart Scanner	1		
9005771	CATSmart Matrix Printer	1		
9005801	CATSmart Black Ribbon for Matrix Printer	1		
9005791	CATSmart Paper for Matrix Printer	1		
Aspiration Assembly				
9005851	CATSmart Vacuum Pump	1		
9108554	ATV Vacuum Line (70cm)	15		
9108544	ATV Vacuum Line (180cm)	12		
M649951	Overflow Protector	1		
6799181	Hydrophobic Filter	1		
M679011	Smoke Filter	1		
6780881	Bacterial Filter	100		
Disposable Sets				
9108444	ATF 40 Fast Start Kit (AT3) Includes AT3 Set, 40 micron collection reservoir, ATS Suction Line, 10L Waste Bag, PRC Reinfusion Bag	4		
9104444	ATF 120 Fast Start Kit (AT3) Includes AT3 Set, 120 micron collection reservoir, ATS Suction Line, 10L Waste Bag, PRC Reinfusion Bag	4		
9108494	ATF 40 Fast Start Kit (AT1) Includes AT1 Set, 40 micron collection reservoir, ATS Suction Line, 10L Waste Bag, PRC Reinfusion Bag	4		
9108504	ATF 120 Fast Start Kit (AT1) Includes AT1 Set, 120 micron collection reservoir, ATS Suction Line, 10L Waste Bag, PRC Reinfusion Bag	4		
Individual Components and Accessories				
9005444	AT3 Autotransfusion Set	8		
9005104	AT1 Autotransfusion Set	8		
9108414	ATR 40 Collection Reservoir	8		
9108474	ATR 120 Collection Reservoir	8		
9108484	ATS Suction Line	8		
9108434	ATO Oxygenator Line	20		
9006284	Waste Bag 10 L	20		
9005204	Reinfusion Bag 1000mL	20		

Reinfusion Bag 1000mL w/Y Adapter

ATY Y Adapter

ATR Cap Set

20

8

120