

# Information for Clinical Choice

## Blood and Fluid Warming

### Support Document

#### Introduction

Information for Clinical Choice (ICC) has been developed to assist Clinicians in the decision-making process when assessing the suitability of a product by providing a clear illustration and description of the features of a range of similar products supplied through NHS Supply Chain.

The criteria provided, in the form of a Product Matrix and Support Document, is the result of a product review conducted by the clinical team in the Category Management Service Provider with support from clinical stakeholders from across the NHS as part of our assurance process.








The aim, alongside delivering savings back into NHS frontline services, is to ensure that clinical choice remains at the forefront of any product switching decision.

#### **Patient Temperature Management: Blood and Fluid Warming Rapid and High Flow**

Blood and Fluid Warming can help maintain normothermia and will contribute to a positive patient outcome by providing consistent normothermic blood and fluid at all flow rates. It has been shown maintaining normothermia results in benefits to the patient. In the NICE guidelines it states, "All intravenous fluids given should be warmed to 37°C."

When using High flow warming units they should have a reliable system to avoid the risk for air embolism to the patient. Also provide an accurate and safe intravenous blood and fluid warming. They are used in conjunction with pressure chambers that will go up to 300mmHg assisting to achieve the maximum flow rate."

This ICC is one of a number that will enable clinicians to make an informed decision when choosing blood /fluid with Rapid and High flow systems. There are differences in rapid/high flow warming machines with their dedicated consumables. Rapid/high flow is measured to the maximum flow that the machine can deliver the warmed fluid/blood. The key considerations are as follows, as they are similar but there are differences. The rapid/fast flow is or 20-750ml/min or KVO-500 depending on the system used. The consumables have a bubble trap.

Blood and Fluid Warming - Rapid and High Flow							
Supplier	3M UNITED KINGDOM PLC	3M UNITED KINGDOM PLC	3M UNITED KINGDOM PLC	CENTRAL MEDICAL SUPPLIES LTD (CMS)	CENTRAL MEDICAL SUPPLIES LTD (CMS)	GBUK Ltd	GBUK Ltd
Brand	Ranger	Ranger	Arizant	Fluido	Fluido	AutoMer	AutoMer
MPC	24507	24355	24370	TSC-FLU655230-C	TSC-FLU671500	E2MZ00001	KM2M00001
NPC	FFF897	FSB658	FFF430	FFF900	VCB522	VCB85196	VCB85204
Description	Blood and fluid warming High flow rate control unit	Blood and fluid warming High flow disposable set for Ranger blood and fluid warmer	Hybrid High Flow Disposable Sets with Patient Line	Blood and fluid warming High flow rate control unit with air detection unit	Blood and fluid warming Fluido trauma set flow rates 20-750ml/min	IV Fluid and Blood Warmer	Patient Temperature Management High Flow Set
Picture							
Flow rate	500ml/min	500ml/min	500ml/min	750ml/min	20-750ml/min	500ml/min	500ml/min
Route	eDirect	Stocked	Stocked	eDirect	eDirect	eDirect	eDirect
UOI	1	1	10	1	Box of 30	1	10
Latex Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Country of manufacture	USA	Mexico	Mexico	Netherlands	Netherlands	Korea	Korea

**References:**

If you have any questions, would like further information, or have feedback to share, please contact:

**Raymond Pukacz** – Clinical Engagement and Implementation Manager, Patient Temperature Management

[raymond.pukacz@supplychain.nhs.uk](mailto:raymond.pukacz@supplychain.nhs.uk)

**Keith Johnson** – Category Manager, Patient Temperature Management

[keith.johnson@supplychain.nhs.uk](mailto:keith.johnson@supplychain.nhs.uk)

