enFlow™ IV fluid and blood warming system





Product Codes and	980121EU	enFlov	w™ Controller Model 121				
Product Description	980105VS	enFlow™ IV Fluid/Blood Warmer Model 100					
	980202EU	enFlov	w™ Disposable IV Fluid/ Blo	ood Warmer Cartridge wi	th IV Exter	nsion Model 202	
	980200EU	enFlov	w™ Disposable IV Fluid / Bl	ood Warmer Cartridge M	lodel 200		
General Product Description	The enFlow™ IV fluid/blood warming system consists of the enFlow™ Warmer (Model 100 series), the enFlow™ Controller (Model 121 series), the enFlow™ Disposable Cartridge with IV extension set (Model 202) or without IV extension set (Model 200). Within seconds, this warming system delivers normothermic infusate to the patient at flow rates of Keep Vein Open (KVO defined as 2 mL/min) to 200 mL/min when input fluid temperature is 20°C.						
Pack factor	980121EU/ 980	105VS		1 per Box			
	980202EU/ 980	0200EU		30 per pack			
EAN/GTIN	980121EU	EA	10190752125803	980105VS	EA	10190752125780	
	980202EU	EA	10190752147102	980200EU	EA	10190752178281	
Intended Use	The enFlow IV fluid/blood warming system's intended use is for warming blood, blood products and intravenous solutions prior to administration. It is designed to be used by healthcare professionals in hospital, clinical and field environments to help prevent hypothermia.						
Instructions for Use	Please refer to the System Manual.						
Characteristics	The cartridges are single-use and are indicated for use by trained medical personnel Simple to operate. Prime, insert the cartridge Turn on and fluids will be warmed to target temperature of 40°C occurs in seconds Small, disposable cartridge, with the ability to easily transfer between systems, meaning less waste Thin parylene cartridge coating to prevent the leaching of aluminum to IV liquids Low priming volume of 4mL reduces the time needed to reach the temperature set point Designed to move easily with the patient, enabling you to warm fluids in all care areas, using only one disposable cartridge Helps lessen complications and speed up recovery time Helps shorten patient stays and reduce hospital costs Low maintenance. Vyaire recommends a functional test every year						
Compatibility	Disposable Cartridge connects to the IV extension set or any infusion set employing standard luer connectors compatible to ISO 80369-7:2016						
	Power cord, 91000170 (continental EU), 91000172 (UK). The 10' power cord plug into the back of the controller to supply power to the system.						
Regulation	Classifications:						
	EU – Cartridge class 2a, warmer and controller class 2b.						
	Products are compliant with REACH and RoHs directives.						
Biocompatibility	enFlow Disposable cartridges have been tested and assessed against the below biocompatibility standards. Chemistry E&L - ISO 10993-18 Second edition 2020-01 Cytotoxicity Test - ISO 10993-5 Third edition 2009-06-01 Hemocompatibility Test - ISO 10993-4 Third edition 2017-04 Systemic Toxicity - MMP ISO 10993-11 Third edition 2017-09 Systemic Toxicity - Acute Systemic Toxicity and Subchronic Systemic Toxicity ISO 10993-11 Third edition 2017-09 Sensitization ISO 10993-10 Third Edition 2010-08-01 Irritation ISO 10993-10 Third Edition 2010-08-01 Infusion extension set compatible with ISO 8536-4 Particulate Testing ISO 8536-4 Sixth edition 2019-09						

enFlow™ IV fluid and blood warming system





Storage	Temp (C°): -30 - 70(C°) Relative Humidity Range											
	Warmer: 10-90%											
	Controller: 10–90% Disposable cartridge: 10–90% Altitude: Up to 4,572 m (15,000ft)											
							Air pressure: 570 hPa, (17 inHg) to 1,060 hPa (31 inHg)					
							Controller (980121EU)	PC Lexan 920 Polycarbonate, glass fiber, silicone				
	Materials											
Warmer (980105VS)	Warmer Mount PC Lexan 920											
Materials	Heater Housing, Top	PC Lexan 920										
	Litepipe	Optical grade acrylic										
	Heater Housing, Bottom	PC Lexan 920										
	Plug, Lower Warmer Housing	PC Lexan 920										
	Thermophase-Kapton	Laird Thermogont T-Gard K52-2										
	Cable Strain Relief Overmold	PVC and Pellethane										
	Warmer Door	Polycarbonate, glass fiber, silicone										
	Wrist Strap Ski	LEXAN 121										
	Rubber Bushing	Silicone										
	Hubbell Plug	Nylon										
Disposable Cartridge	Aluminum Extrusion	6063 Aluminum										
(980200EU) Materials		Paryfree coating										
	Disposable Housing	LEXAN™ HPS1 resin										
	Luer Lock	LEXAN™ HPS1 resin										
	Female Luer Lock	LDPE NA207-66										
	Male Luer Lock	HDPE LH606										
	Adhesive	Adhesive- Dymax 1180-M-T										
Disposable Cartridge IV Extension Set (980202EU)	Aluminum Extrusion	6063 Aluminum										
Materials	Disposable Housing	Paryfree coating LEXAN™ HPS1 resin										
	Disposable Housing Luer Lock	LEXAN™ HPS1 resin										
	Female Luer Lock	LDPE NA207-66										
	Male Luer Lock	HDPE LH606										
	Adhesive	Adhesive- Dymax 1180-M-T										
	Extension Assembly	N/A										
	Extension Tube	PVC 7477G-015										
	Male Luier cap Extension	HDPE LH606										
	Female Luer cap extension	LDPE NA207-66										
	Female Luer Extension	Makrolon RX-1805 451118										
	Male Luer Extension	Makrolon RX-1805 451118										
GMDN Code	47616 - Warmer and Controller											
	47619 - Cartridge											
Operating	Temp (C°): -5 - 50(C°)											
Disposal	The Disposable Cartridge may be a potential biohazard during or after use. Handle and dispose of in accordance with acceptable medical practice and applicable regulations. See manual for cautions on warmer and controller disposal.											

Country availability is dependent on registration with the local authority. Please contact a Vyaire sales representative for country availability.

© 2021 Vyaire. Vyaire, the Vyaire logo and all other trademarks or registered trademarks are property of Vyaire Medical, Inc., or one of its affiliates. Medical devices class I according to Medical Devices Directive 93/42/EEC. Measurements are approximations and may vary. Please read the complete Instructions For Use that come with the devices or follow the instructions on the product labelling. VYR-GBL-2100255

enFlow™ IV fluid and blood warming system

Technical Data Sheet



Does it contain PVC, DEHP and/or Latex	Disposable Cartridge with IV extension set are radiation sterilized and non-pyrogenic, not made with natural rubber latex or DEHP. Extension cable of 980202EU contains PVC				
Country of Origin	China				
Legal Manufacturer	Vyaire Medical				
Type of protection against electrical shock	Class I or internally powered				
Degree of protection against electrical shock	Type BF, defibrillation-proof				
Mode of operation	Continuous				
Disposable cartridge priming volume	4 mL				
Disposable cartridge sterility	Gamma sterilized				
Fluid temperature output	40°C ± 2°C				
Flow rate range	KVO to 200 mL/min				
Input voltage	Warmer: 28.5 VDC at a maximum of 350 watts. Controller: 100-240 VAC				
Temperature set point	40°C				
Warming element	Parylene coated aluminum				
Input current	5 A				
Over-temperature set point	ASTM F-2172-02				
Alarms	IEC60601-1-8				
Water resistance	Warmer: IEC 529 IP67 30 min immersion at a depth of 91.4 cm (36") Controller: IEC 529 IP31 dripping water Disposable cartridge: IEC 529 IP68 continuous immersion				
	Warmer: IEC 529 IP67 dust tight Controller: IEC 529 IP31 ≥ 2.5 mm diameter against ingress of solid foreign bodies Disposable cartridge: IEC 529 IP68 dust tight				
Electrical safety	CAN/CSA C22.2 No. 60601-1:14 AAMI/IEC 60601-1:2005 + AMD 1:2012, AMD1:2012				

GLOBAL HEADQUARTERS

Vyaire Medical, Inc. 26125 N. Riverwoods Blvd. Mettawa, IL 60045 USA



Vyaire Medical, Inc. 26125 North Riverwoods Blvd Mettawa, IL 60045 USA



EMERGO EUROPE Prinsessegracht 20 2514 AP The Hague The Netherlands

AUSTRALIAN SPONSOR

Vyaire Medical Pty Ltd Level 5, 7 Eden Park Drive Macquarie Park, NSW, 2113 Australia



vyaire.com