



Flow-Through Housing Model 93505

For single use only

Concept/Description

When used in conjunction with the Injectate Temperature Probe, the Flow-Through Housing (Model 93505) allows direct temperature measurement of the thermal indicator at the proximal lumen infusion site. Measurement of the injectate temperature at the infusion site helps reduce errors frequently encountered in standard injection techniques (for example, injectate warming caused by handling the syringe). The temperature of the injectate is fed directly by the injectate temperature probe into a patient monitor for curve analysis and determination of cardiac output. An appropriate computation constant must be entered into the computer to determine the correct cardiac output. A 3-way stopcock should be placed proximal to the flow-through housing (Figure 3) for standard catheter maintenance and fluid withdrawal.

Instructions For Use

Connect Housing to Catheter and Patient Monitor (Figure 2)

Note: Use Aseptic Technique

1. Verify that the fluid path is completely free of air. Attach the flow-through housing to the catheter injectate lumen stopcock. (Figure 3)
2. Insert the reusable injectate temperature probe into the flow-through housing (Figure 4). Secure the system to minimize movement with respect to the patient.
3. Connect the injectate temperature probe cable to the "Injectate Probe" lead of the computer cable.

To Remove Flow-Through Temperature Probe (Figure 4)

Grasp the flow-through housing, gently press both tabs, and withdraw the temperature probe.

Prepare Patient Monitor for Operation

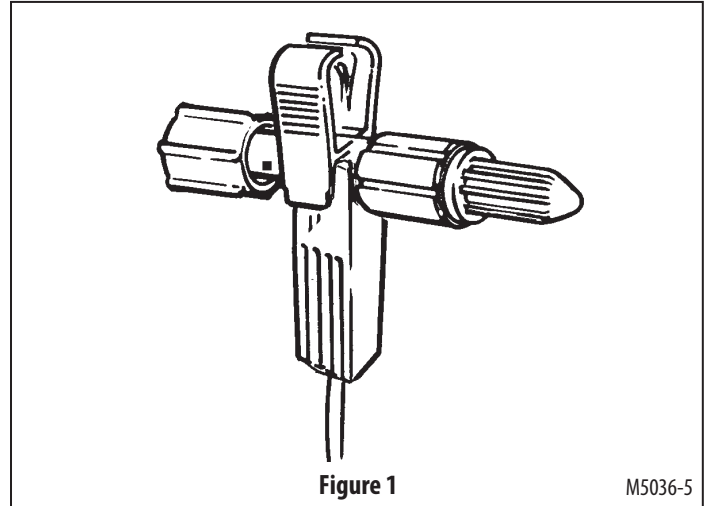
1. Select Injectate volume and catheter size on monitor to determine computation constant or enter a computation constant corresponding to injectate volume, temperature range, and catheter model being used.

Note: Refer to the catheter's instructions for use for computation constants.

2. Prepare the monitor for operation according to the directions in the Operations Manual.

To Measure Cardiac Output

1. Attach a prefilled syringe (D₅W cold injectate) to the flow-through housing.



2. Turn the stopcock at the catheter injectate hub to close the IV flush and open the fluid path between the syringe and catheter.
3. Press start on patient monitor.
4. Immediately perform injections at a rate of at least 2.5 ml/sec.
5. Perform cardiac output determinations according to the instructions in the appropriate cardiac output computer operations manual.
Note: To improve cardiac output reproducibility, space injections approximately 1 minute apart and increase injectate volume to 10 ml if not already doing so.
6. At the conclusion of measurements, return the catheter stopcock to its original (flush) position.

Injectate Temperature

Ensure that the injectate temperature falls within 6 °C to 16 °C for cold injectate and 18 °C and 25 °C for room temperature injectate.

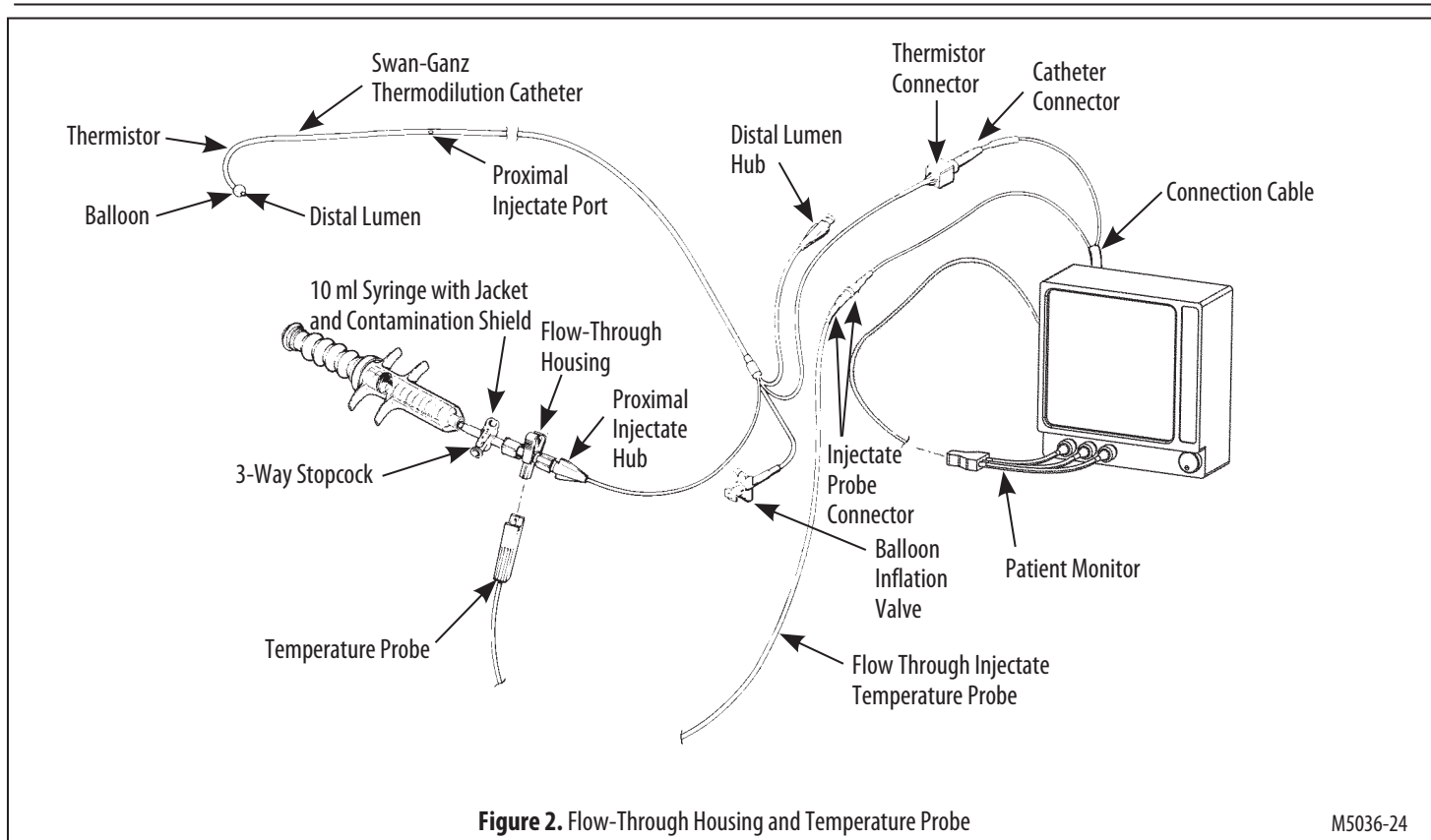
Lower or higher injectate temperatures will affect cardiac output accuracy.

Precautions

Care should be taken to avoid air entrapment during setup and use. The flow-through housing and syringe should be secured to minimize movement with respect to the patient.

How Supplied/Recommended Use

This product is supplied sterile and nonpyrogenic, and will remain so as long as the package is unopened and undamaged. Do not resterilize. It is recommended for single patient use only. It is recommended that the product be changed (replaced) for each patient according to hospital procedures for changing tubing sets containing dextrose solutions.



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Shelf Life

The recommended shelf life is as marked on each package. Resterilization will not extend the shelf life of this product.

Technical Assistance

For technical assistance, please call Edwards Technical Support at the following telephone numbers:

Inside the U.S. and Canada

(24 hours):800.822.9837

Outside the U.S. and Canada

(24 hours):949.250.2222

In the UK:0870 606 2040-Option 4

In Ireland:01 8211012 Option 4

Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.

Warning: This device is designed, intended, and distributed for single use only. **Do not re-sterilize or reuse this device.** There are no data to support the sterility, nonpyrogenicity, and functionality of the device after reprocessing.

Because of continuing product improvement, prices, specifications, and model availability are subject to change without notice.

This product is manufactured and sold under one or more of the following US patent(s): US Patent No. 6,248,077; 6,336,902; and corresponding foreign patents.

Refer to the symbol legend at the end of this document.

Product bearing the symbol:



has been sterilized using Ethylene Oxide.

Alternatively, product bearing the symbol:



has been sterilized using Irradiation.

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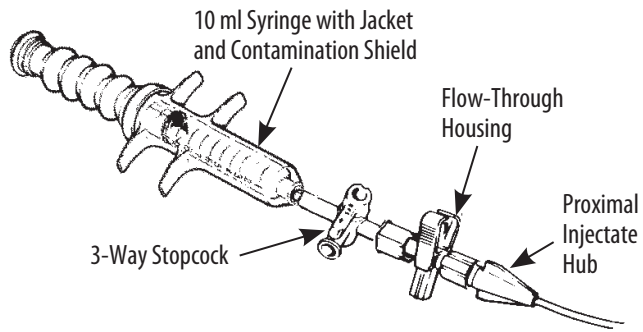


Figure 3. Flow-Through Housing Connected to Catheter Injectate Lumen

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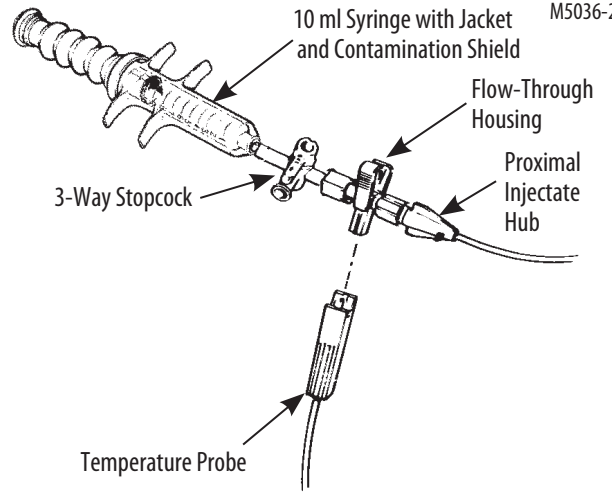


Figure 4. Temperature Probe and Flow-Through Housing

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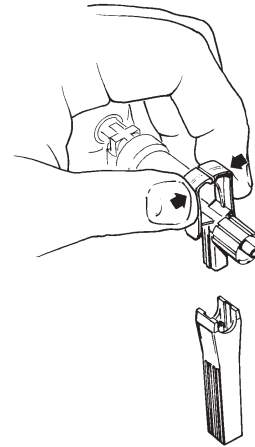
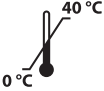


Figure 5. Removing the Temperature Probe from Housing

Computation Constants						
Temperature (°C)	Injectate Volume (ml)	181F7 & 151F7	C144F7	All 7.5F Catheters	132F5	096F6
6 - 12	10	0.561	0.570	0.574	N/A	0.558
8 - 16	5	0.259	0.271	0.287	0.285	0.277
	10	0.608	0.585	0.595	N/A	0.607
18 - 25	5	0.301	0.287	0.298	0.307	0.301

Symbol Legend

	English		English
	Contains or presence of Phthalates: bis (2-ethylhexyl) phthalate (DEHP)		Authorized representative in the European Community/European Union
	Model Number		Manufacturer
	Catalogue Number		Date of manufacture
	Do not re-use		Lot Number
	Temperature limit		Quantity
	Humidity limitation		Caution
	Keep dry		Consult instructions for use
Rx only	Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.		Non-pyrogenic
 ½" — 1½" (12.7 mm — 38.1 mm)	Bracket fits poles ½" to 1 ½" diameter		Do not use if package is damaged and consult instructions for use
	Conformité Européenne (CE Mark)		Do not resterilize
			Sterilized using ethylene oxide
	Conformité Européenne (CE Mark)		Sterilized using irradiation
	Unique device identifier		Use-by date
 eifu.edwards.com + 1 888 570 4016	Consult instructions for use on the website		Contains or presence of natural rubber latex
			Non-sterile

Note: Not all symbols may be included in the labeling of this product.

COS1EM5x7.1



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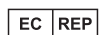


Edwards Lifesciences LLC
One Edwards Way
Irvine, CA 92614 USA



Made in Dominican Republic
CCT Critical Care Technologies, S.R.L.
Parque Industrial Itabo
Km 18.5 Carr. Sanchez
Haina, San Cristobal, Dominican Republic

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Edwards Lifesciences GmbH
Parkring 30
85748 Garching bei München
Germany

Telephone 949.250.2500
800.424.3278
FAX 949.250.2525

Web IFU

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	Title: eIFU, CO-SET, FLOW THRU HSG 93505, EM	Page: 7 of 7
	Label Item/Revision:	60051652001/B
	Visual Representation/Revision:	DOC-0555323/B
	Drawing/Specification:	N/A
	English Master/Revision:	N/A
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	Refer to supporting material for signatures.	