

# Reinforced Dual Lumen Catheters

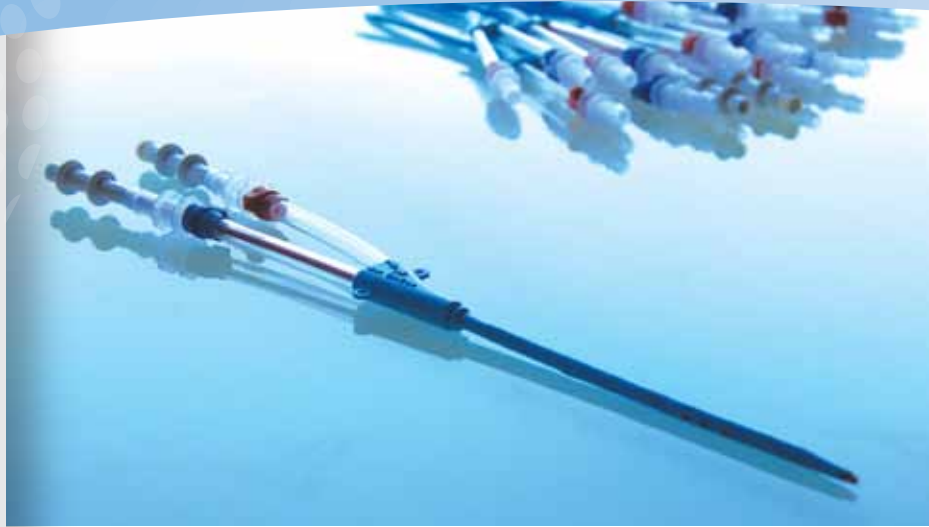
OriGen dual lumen catheters are indicated for use as a single cannula for both venous drainage and re-infusion of blood via the internal jugular vein during extracorporeal life support procedures.

The OriGen reinforced dual lumen catheter will be available in the following sizes: 13F, 16F, 19F, 23F, 28F and 32F.

Each catheter is made of wire-reinforced PEBAX® and is supplied with a blunt introducer. This new catheter is an improvement from the previous design, and these new features include:

- A softer polymer material, called PEBAX®, to improve recovery from kinking.
- Wire-reinforcing along the body of the cannula to increase the resistance to collapse and kinking.
- A new tip and reinfusion port design to reduce recirculation.

The OriGen reinforced dual lumen catheter is ideally suited for the simultaneous drainage and re-infusion of blood through the internal jugular vein during ECMO procedures. This new catheter design has the right combination of flexibility, bend radius, collapse resistance and recovery from kinking to be ideal for ECMO with centrifugal pumps.



**Introducer:** Each dual lumen catheter is supplied with a blunt introducer to aid in catheter placement via cutdown. If cutdown is not desired, a separate percutaneous introducer kit is available with all the necessary guidewires and introducers.

**Recirculation:** The drainage and re-infusion ports have been placed to reduce recirculation. Computer flow simulation<sup>1</sup> and animal studies have been performed to support this.

**Tip diameter:** The dual lumen catheter has a consistent diameter over the length of the body, but there is some extra reinforcement at the hub.

**Lumen size:** The inserted tip is divided internally so that the drainage lumen has a cross-section area roughly twice that of the return lumen.

Separated return,  
drain lumens



**Material:** The dual lumen catheter is PEBAX® except for the polyurethane and polycarbonate connector tubes. The tip section is radiopaque.

**Priming:** The reinfusion lumen is supplied with a self-sealing vent plug to vent air and then seal during insertion, without having to clamp the catheter, to help de-air the catheter.

**OriGen**  
BIOMEDICAL

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## Product Code

Product Code	Tip Diameter (F)	Inserted Length (cm)
VV13F	13F	8.2
VV16F	16F	9.5
VV19F	19F	13.7
VV23F	23F	18.2
VV28F	28F	22.5
VV32F	32F	25.0

CAUTION: US Federal law restricts the sale and use of these devices by or on the order of a physician. Supplied sterile. For single use only. Read Instructions for Use before clinical use.

For percutaneous placement, all necessary guidewires, sharps and introducers are available packaged together. (Product Code: PCTa for catheters 13F through 19F)

Larger Sizes Available Soon

Pebax is a registered trademark of Arkema.

# OriGen

BIOMEDICAL

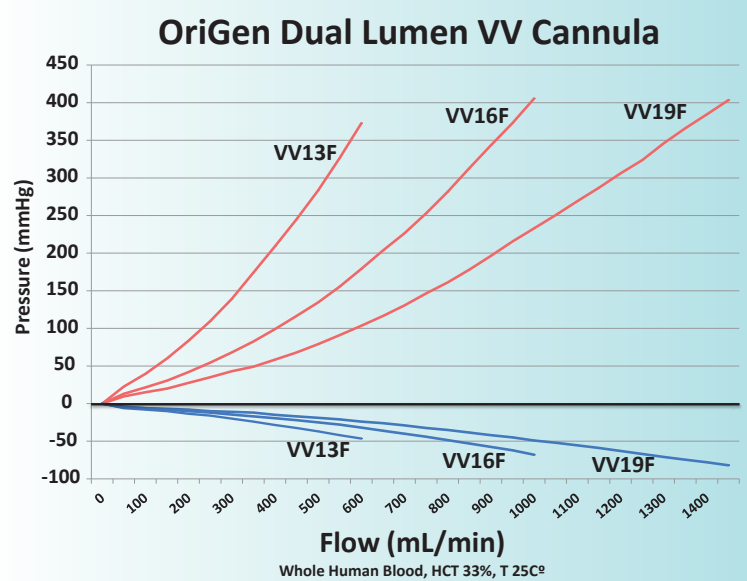
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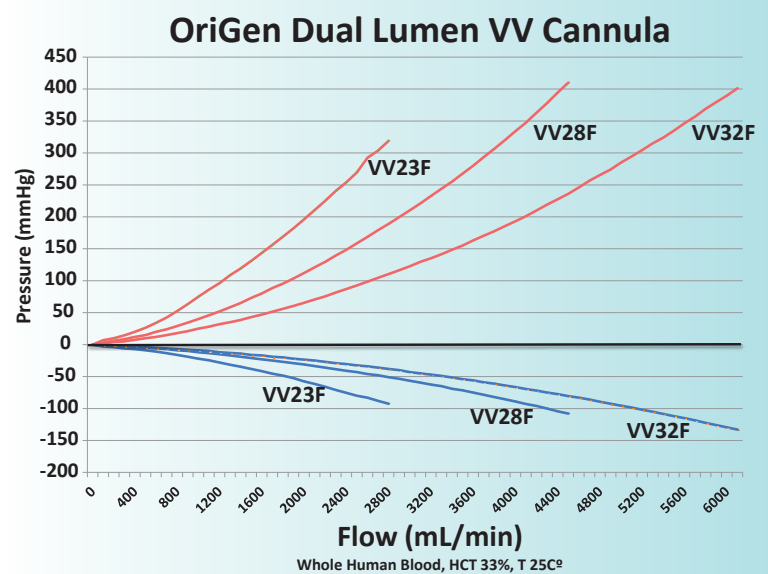
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## Flow Characteristics (VV13F - VV19F)



## Flow Characteristics (VV23F - VV32F)



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