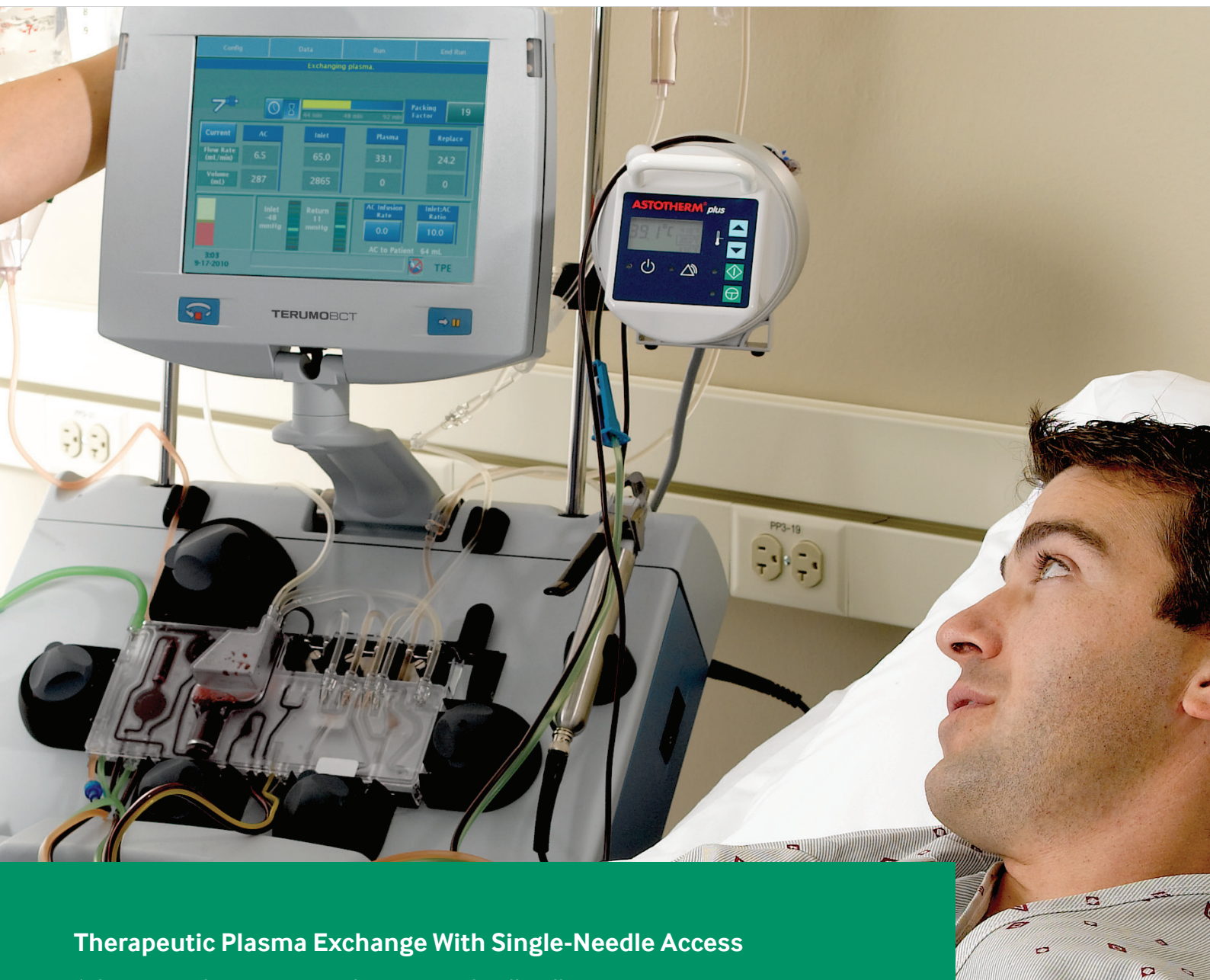




Therapeutic Plasma Exchange With Single-Needle Access

Advancing therapeutic apheresis and cell collections
to the next level of patient care

Spectra Optia® Apheresis System

Availability of the AstoTherm Plus Blood Warmer in each country is subject to relevant regulatory approval.

Bringing versatility to your procedures

By giving you the ability to switch to single-needle access at any time during a therapeutic plasma exchange (TPE) procedure, we help you provide exceptional patient care.

Procedure and System Highlights	
Single-needle software	Allows you to choose the single-needle option at the beginning or at any time during the procedure
No additional hardware	Eliminates the need for a single-needle flow controller and disposable bag Makes the transition to single-needle access simple, with minimal setup time and no loss in system mobility
Reliable performance	Delivers plasma removal efficiency equivalent to dual-needle access procedures Utilizes the same platelet-sparing technology as with dual-needle access
Intuitive graphical user interface	Guides you through each step of the procedure



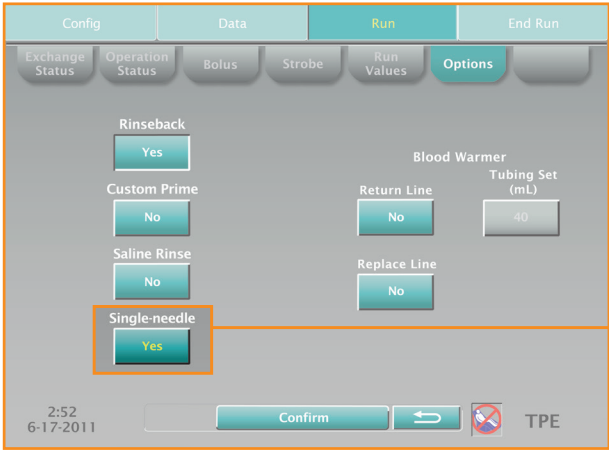
“Y” CONNECTOR

This small disposable is the only additional item needed to perform TPE with single-needle access. It includes three easily removable end caps.



How it works

The intuitive graphical user interface guides you through each step of the procedure. The examples below demonstrate the ease of setting up and running TPE with single-needle access.

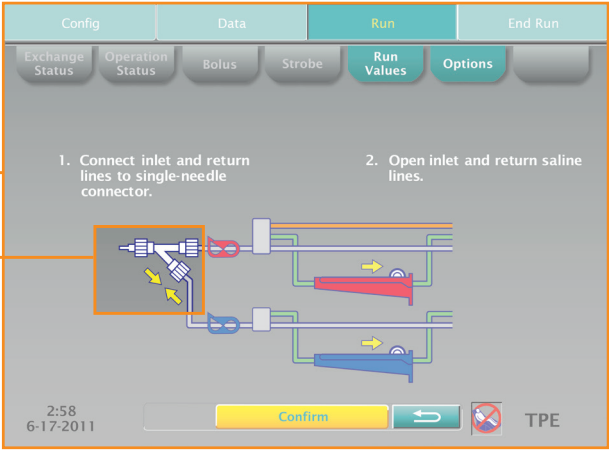


Selecting the single-needle option

Simply select “Yes” to choose single-needle access at the beginning or at any time during the procedure

Attaching the connector

On-screen instructions and diagrams guide you through attaching the single-needle “Y” connector



Monitoring the procedure

Once you select the single-needle option, this icon indicates the system is operating in the single-needle mode

Working with you

Every interaction we have with you is important. By fostering open and ongoing relationships, we bring more value to you and the patients we're all focused on serving.

Even after the technology is in place, we continue to serve you with:

- Education and training
- Technical support
- Clinical and scientific support
- Customer support
- User groups and professional networks



Shown with a tubing set for therapeutic plasma exchange procedures.

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Terumo Blood and Cell Technologies is a medical technology company. Our products, software, and services enable customers to collect and prepare blood and cells to help treat challenging diseases and conditions. Our employees around the world believe in the potential of blood and cells to do even more for patients than they do today. [TerumoBCT.com](https://www.terumobct.com)

Terumo BCT, Inc.
Lakewood, CO, USA
+1.303.231.4357

Terumo BCT Europe N.V.
Zaventem, Belgium
+32.2.715.0590

Terumo BCT Asia Pte. Ltd.
Singapore
+65.6715.3778

Terumo BCT Latin America S.A.
Buenos Aires, Argentina
+54.11.5530.5200

Terumo BCT Japan, Inc.
Tokyo, Japan
+81.3.6743.7890