

TERUMO PENPOL®

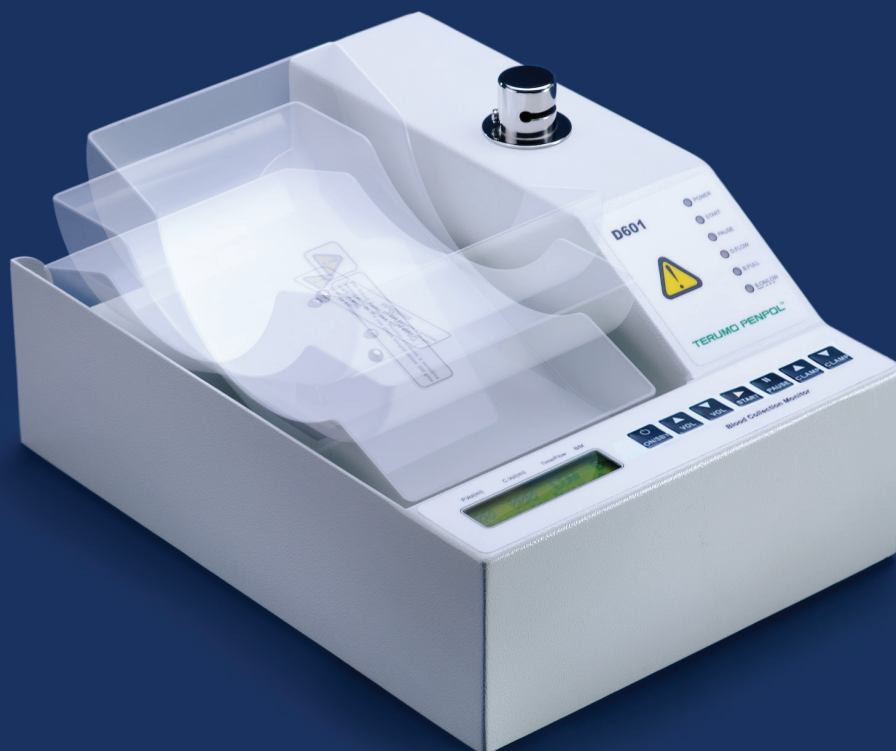
TRANSFUSION SYSTEMS

# BLOOD COLLECTION MONITOR D601

ISO 13485     Management System EN ISO 13485:2012 www.tuv.com ID: 000047281

Optimize blood care with advanced technology

Accurate weighing, mixing and  
timely blood collection



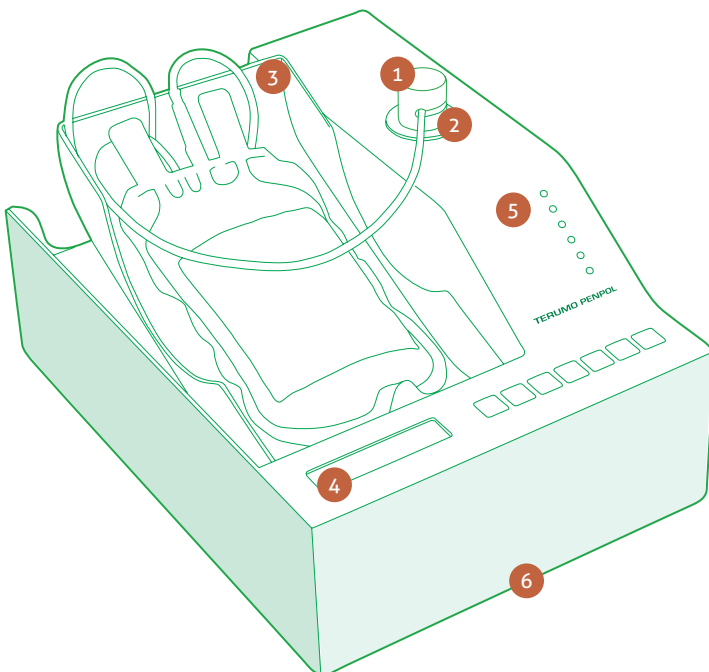
Started as the first Indian manufacturer of blood bags, Terumo Penpol Private Limited continues to be the market leader in India in the field of equipment and disposables for the Blood Transfusion industry. With a comprehensive range of products covering collection, processing, storage and issue of blood, Terumo Penpol continues to serve the leading blood banks in India and around the world. Terumo Penpol is now a subsidiary of the \$4.5 billion Terumo Corporation, Japan and is a group company of Terumo BCT, USA which leads the Blood Management business of Terumo.



## COLLECTION EQUIPMENT

The entire range of Terumo Penpol collection instruments follow the best manufacturing processes in order to make the blood collection experience safe, convenient and comfortable for the provider while assuring quality for the end user. Blood collection is done either in blood banks or donation camps. It is extremely important to make the process safe and convenient.

The blood collection process occurs in different environments. The challenge for the phlebotomist is to make each blood collection process comfortable and safe without compromising quality. Terumo Penpol Blood Collection Monitor comes into play here: It is specially designed to make standardized high quality blood collection while reducing the work load of the phlebotomist. Our Blood Collection Monitors ensure the correct volume of blood collection with constant agitation.



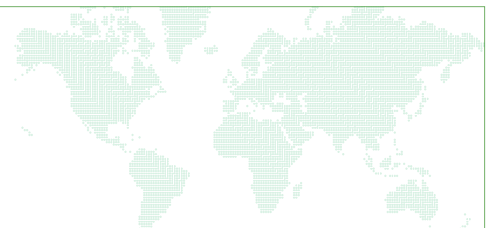
“ Units requiring more than 8 minutes to draw may not be suitable for the preparation of platelet concentrates, fresh frozen plasma or cryo-precipitate.

### ***AABB Manual***

“ Mix the blood and anticoagulant gently and periodically during the collection of blood. Mixing can be done with the blood collection monitor - scale/mixer. The volume of blood collected shall be proportionate to the anticoagulant with +/- 10%.

### ***Transfusion Medicine***

Terumo Penpol sales and service engineers are located close to you for the entire duration of the life-cycle of the equipment. With over 16640 pieces of equipment installed in India and a customer base of more than 2426 clients, Terumo Penpol's reputation for friendly and round-the-clock service is widely recognized and respected.



## FEATURES

## SPECIFICATIONS | BLOOD COLLECTION MONITOR D601

### 1 Slip free clamping

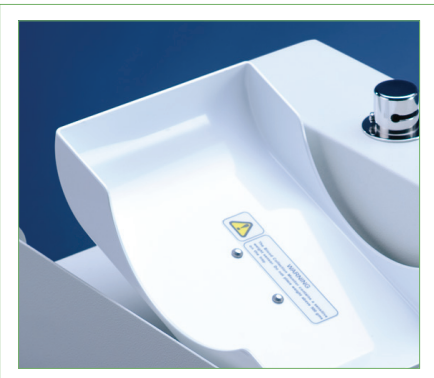


- Clamp closes automatically after the programmed volume blood collection ends
- Slot is designed to ensure that the routed tube is always inside the clamp
- Rust-free and sturdy clamp cover

### 2 Safer, secure and reliable

The automatic clamp functions if the flow rate is less than 20 ml per minute for more than 2 minutes during the blood collection.

### 3 Detachable wide tray



- Easily detachable for cleaning and disinfection
- Compatible with different bag systems like Top & Top, Top & Bottom and filter inline blood bags

<b>Input Voltage</b>	100-250VAC 50/60 Hz
<b>Electrical Safety</b>	Protection against electrical shock: Class I Type B Internally Powered
<b>Operation</b>	Continuous Operation
<b>Power</b>	26W(Max)
<b>Working Environment</b>	Temperature: 10°C to 40°C Relative humidity: 30 to 75% Atm Pressure 700 to 1060hPa
<b>Storing and Transportation</b>	Temperature: -20°C to 40°C Relative humidity: 20 to 90% Atm Pressure: 600 to 1060hPa
<b>Oscillation details</b>	12+/-2rpm, motor driven oscillation
<b>Clamping mode</b>	Motor activated clamping
<b>Volume setting ranges</b>	In steps of 5ml from 50 to 500ml, automatic storage & recall of set volume
<b>Alarms/Indications</b>	LCD, LED indication and audible alarm when the flow rate goes below 20ml/min or above 180 ml/min LED, LCD indication and audible alarm when mains power fails LED indication (blinking) with audible alarm when battery low Automatic clamping when flow rate sustains in less than 20 ml/min for more than two minutes LED/LCD indication and audible alarm at the end of collection
<b>Display</b>	16 x 2 line characters Backlit LCD display
<b>Time measurement</b>	Time of collection is indicated at the end of every collection
<b>Accuracy</b>	+/-2% of the programmed volume
<b>Dimension* (W x D x H)mm</b>	250x340x180
<b>Weight(Approx.)</b>	6.7Kg
<b>Battery</b>	12V, 2.3Ah Sealed maintenance free lead acid rechargeable battery
<b>Manufacturing standard</b>	ISO 9001: 2008, EN ISO 13485 : 2012
<b>Standards &amp; approvals</b>	CE mark, EU RoHS
<b>Medical device classification</b>	Class I
<b>Carry bag</b>	Optional

### 4 LCD display, operating keypad



Clear display of different functions such as programmed volume, collected volume, flow rate, main/battery, collection enhancement, manual clamping during emergency and pause function

- Display collection time in every 3 seconds
- Preset volumes-350/450ml

### 5 LED indications & alarms

LED indications like Power, Start Pause, Debit Flow, Battery Low and Battery Full (AV)

### 6 Suitable for donation camps

- Lightweight and handy
- 8 hours/65 continuous collections battery backup (Under test condition)
- Intelligent battery system protects the battery from over discharge and over charge

### 7 Safety

Designed to meet all international safety requirements of EN60601-1. Ensures safety against electrical shock hazards, fire hazards, mechanical hazards, electromagnetic interferences, etc.

## REGISTERED OFFICE

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## OUR PRODUCT RANGE

BLOOD BAGS

DONOR STATION

BLOOD COLLECTION MONITOR

TUBE SEALER

PORTABLE TUBE SEALER

DUAL HEAD TUBE SEALER

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COMPOSCALE + INTELLIGENT EXPRESSOR

CRYO BATH

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BLOOD BANK REFRIGERATOR

PLATELET AGITATOR AND INCUBATOR

DEEP FREEZERS

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PLASMA BATH

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FILTERS\*

BLOOD TRANSFUSION SET\*

AUTOMATIC COMPONENT EXTRACTOR\*

STERILE CONNECTING DEVICE\*

APHERESIS SYSTEM AND KITS\*

\* Additional Products for Indian market only.  
Products from Terumo Corporation / Terumo BCT