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T-SEAL II Terumo Tube Sealer, Operation and Maintenance

Purpose This procedure provides instructions for T-SEAL II Terumo Tube Sealing device to seal different types of PVC tubing by means of a high frequency dielectric heating system.

Policy T-SEAL II Terumo tube sealing device is used to make segments from tubing (pigtail) attached to blood products for testing purposes while maintaining the integrity of the unit. Seals may also be made when dividing products for patients who may require low volume transfusions (neonates).

Materials and supplies

- 12 x 75 mm test tubes
- Plastic hemostat or clamps
- Tube stripper
- Neonatal syringe
- Transfer bag

Equipment

- T-SEAL II Terumo tube sealing device

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**Operating
Instructions**

Step	Action
1.	To turn the sealer on: <ul style="list-style-type: none"> • Connect the T-SEAL to the power supply by connecting the AC power cord to the AC power inlet and then to an earthed AC socket. • Switch the power switch on the backside of the device to “I”. The device performs a self-check and the status LED ring will blink green- off- green. • When self-check is finished, and the device is ready for sealing the LED ring will continuously illuminate green.
2.	To make a segment from blood or a blood product tubing: <ul style="list-style-type: none"> • Take the tubing and slide it against the front cover of the sealing head into the slit. • The tubing will automatically detect and seal. • During the sealing process, the status LED ring will be orange, indicating RF activation. <ul style="list-style-type: none"> ○ When the RF activation is finished, the status LED ring will flicker once in orange. ○ It will automatically turn green again when the entire process is finished. • Remove the tubing from the sealing head. <p style="background-color: yellow;">It is recommended to make three seals whenever possible.</p>

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Leak=open system
 (change expiration)

Step	Action
3.	<p>To disconnect segment or aliquot syringe/transfer pack:</p> <ul style="list-style-type: none"> • Visually inspect the seal to determine it is intact and has gone through the entire width of the tubing. • Verify there is no leakage, if leakage of product is seen the product is considered as “opened” and a modified expiration date may be required. • Carefully cut the seal (if three seals were made, cut the middle seal). • Again, verify no leakage of product. <p>Place any segments obtained in labelled test tube to proceed with testing.</p>

Cleaning and Maintenance

Step	Action
1.	<p>Always keep the T-SEAL II clean.</p> <ul style="list-style-type: none"> • Clean the surface of the T-SEAL II with a soft cloth soaked in mild detergent or a chlorhexidine gluconate solution of less than 0.5% and well squeezed as needed. • When cleaning the T-SEAL II, be careful not to spill any cleaning solution inside the instrument. If this happens, do not operate the instrument. • If any liquid (blood, blood product, cleaning solution or other fluid) have entered the internal components of the machine, contact technical support and service. <ul style="list-style-type: none"> ○ Do not attempt to dismantle the unit.
2.	<p>Cleaning the sealing head</p> <ul style="list-style-type: none"> • Keep the sealing head dry. <ul style="list-style-type: none"> ○ A dirty sealing head or a dirty optical detection sensor can lead to bad seals and errors in tube recognition. ○ If some liquid or dirt is spilled into the sealing head, dry and clean the parts immediately with a soft tissue. • To clean the electrodes and the optical detection sensor: <ul style="list-style-type: none"> ○ Remove the sealing head and clean the optical electrode, the removable electrode and fixed electrode with a cotton swab. <ul style="list-style-type: none"> ▪ Refer to T-SEAL II operator’s manual on how to remove sealing head.
3.	<p>Initial the appropriate box on the Daily Maintenance and Inspection form for the Tube Sealer.</p>

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Non-Controlled Documents

Fung, Mark K. Ed. Technical Manual, 19th Ed. AABB, 2017
 AABB Standards, current ed.
 CAP Requirements, checklist, current ed.
 T-SEAL II Instructions for use, 6/2012.

Controlled Documents

Red Blood Cells, Divided
 How to Prepare Syringe Aliquots for Infant or Pediatric Transfusions

Authors

Transfusion Service Workgroup
 Regional Blood Bank Compliance Officer

Master Control History of Change:		
Change type: new, major, minor etc.	Version #	Description of Change
NEW	1	