



## AABB Fact Sheet

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The following information demonstrates that the Bair Hugger® Ranger™ blood/fluid warming system meets all American Association of Blood Banks (AABB) Standards for warming blood. As published in the new 18<sup>th</sup> Edition Standards for Blood Banks and Transfusion Services, the warming standards state:

**Standard J8.200 Warming:**

**When blood is warmed, it must be done so as not to cause hemolysis.**

**J8.210 Warming of blood should be accomplished using an FDA-cleared blood warming device.**

*Ranger System: Arizant Healthcare Inc. received 510(k) clearance to market the Ranger blood/fluid warming system on May 5, 1998. As part of our FDA product submission, Arizant Healthcare Inc. conducted extensive blood testing to confirm that the Ranger System does not cause hemolysis. The Ranger System was tested to determine the amount of hemolysis based on mechanical stress, heat reaction and chemical testing. In all cases, the Ranger System achieved acceptable test results.*

**J8.211 A unit of blood should not be attached to a blood warming device for more than 4 hours.**

*Ranger System: This is a practice guideline that applies to all fluid warming devices including the Ranger System.*

**J8.212 The warming device must be equipped with a visible thermometer and an audible warning system to detect malfunctions.**

*Ranger System: The Ranger warming unit is equipped with an LED temperature display and redundant (audible/visible) safety alarm systems.*

If you have additional questions, please feel free to contact Arizant Healthcare Inc. Customer Service at 1-800-733-7775 for more information.