

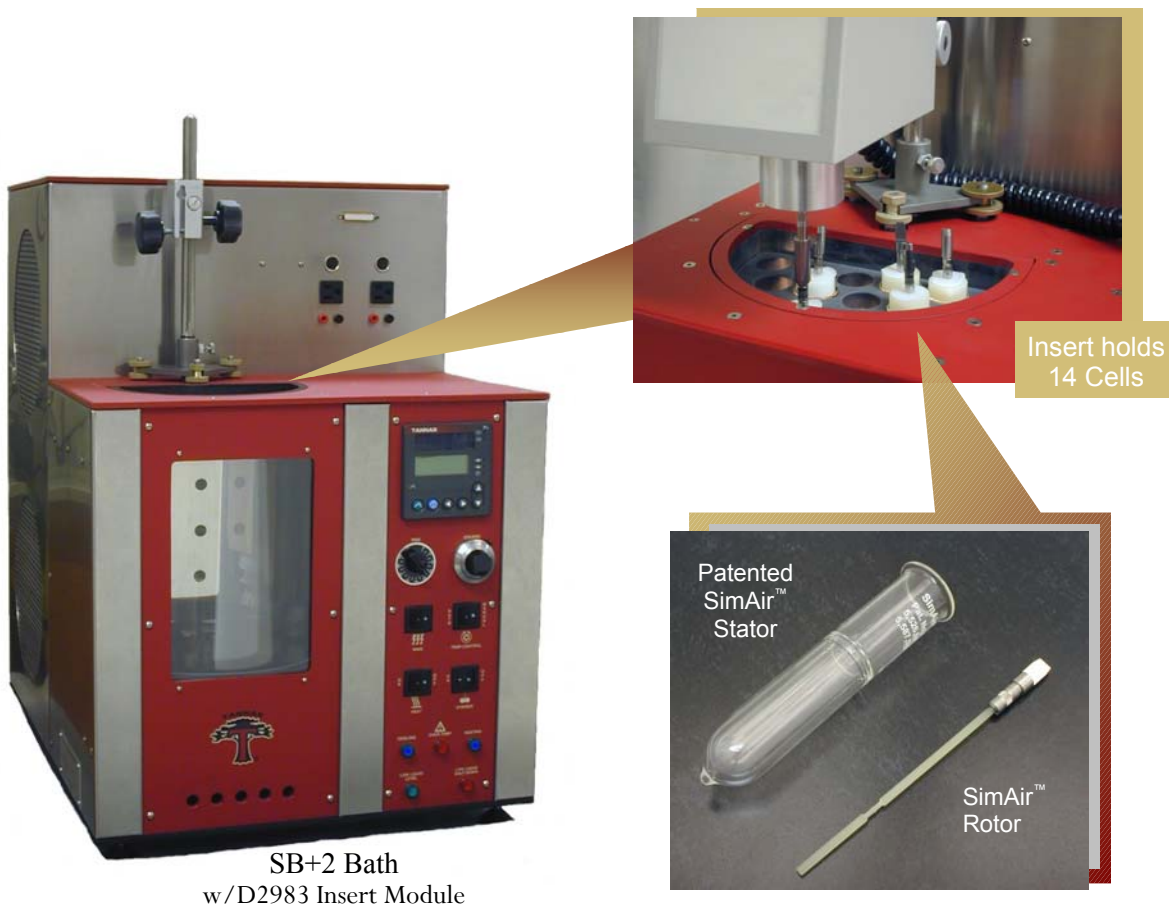
The SimAir™ Cell

for
ASTM D 2983

Simple, precise, and faster data acquisition for low-temperature analysis of ATF's, gear oils, and hydraulic fluids – *“first major method improvement since the development of the method 45 years ago!”**

Notable Advantages:

- The **SimAir™** Cell simulates the cooling rate of the air bath (see graph on reverse)
- Liquid bath is held at the desired test temperature
- Each **SimAir™** Cell is independent and can be added at any time for a complete analysis – no need for grouping samples unless desired
- Improved precision, rapid turn-around time, and ease of analysis
- Available exclusively with *Tannas SB+2* and King Refrigeration liquid baths.



* Statement by the original developer of the Brookfield Viscosity method – Reference paper: “Automatic Transmission Fluid Viscosity at Low Temperature”, SAE Transactions, Vol. 68, pp 457-467, 1960.



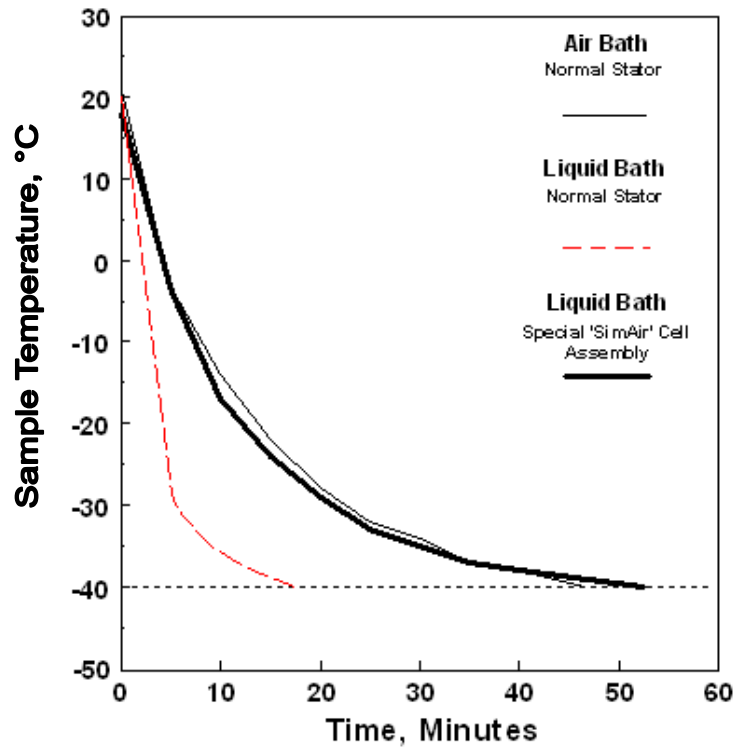
Principle:

The patented SimAir™ cell containing the sample is immersed in a liquid bath held at the exact temperature desired for final analysis. With no bath cooling program, the SimAir™ cell modifies heat transfer to the sample and closely simulates the cooling influence of the air bath – permitting the sample to develop the same viscometric characteristics as in the air bath at cooling rates of greater than 60°C/hour.

This graph clearly demonstrates the effectiveness of a liquid bath in simulating air bath results when using the patented Tannas D2983 SimAir™ Test Cell... meeting Annex 2 cooling rate requirements of ASTM D2983.

Comparison of Air Bath to Liquid Bath Cooling to -40°C

Normal Stator/Spindle vs. Special 'SimAir' Cell Assembly



For more information on the SimAir™ Test Cell and the equipment accepting their use, please contact Tannas Co. for a distributor near you.



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