



Distributor Connection

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Direct Cool II Introduction

We are so delighted to announce a new addition to our instrument line, the Direct Cool II, the latest model in the Scanning Brookfield Technique (SBT) instrument line utilizing Thermoelectric Cooling. This model is a second generation of the first non-liquid SBT bath introduced in 2007, the original SBT Direct Cool, designed to eliminate the use of flammable bath mediums and integrate the Sample Pre-heating step. It too offers a small, dual-position, bench-top footprint, making it ideal for any laboratory setting.

The Direct Cool II performs the two SBT tests ASTM D5133 and D7110, measuring apparent viscosity of fresh, sooted, or highly oxidized engine oils at low temperatures and automatically generating the critical Gelation Index for identifying low-temperature pumpability problems leading to engine failure. Developed and made available exclusively by Tannas in the 1980's, the Scanning Brookfield Technique determines the susceptibility of engine oils to flow-limited and air-binding responses during slow cooling conditions – providing continuous rheological data over a broad temperature range (+90°C to below -40°C) – and has been included in numerous automotive engine oil specifications since the 1990's.

Additionally, the multi-purpose Direct Cool II can be used for running the automated low-temperature viscosity test for ATF, hydraulic fluids and gear oils per the new **ASTM D2983**, Procedure D technique. The dual-position design allows operators to test two samples simultaneously, or the ability to run a reference sample alongside an unknown sample as indicated in the ASTM method.

For more information, please contact our Marketing and Sales Manager, Rob Gordon, at rgordon@savantgroup.com.





Noack NCO-12 Reference Oil

The evaporation loss/volatility of lubricating oils is of particular importance in engine lubrication. Where high temperatures occur, portions of the oil can evaporate. Evaporation may contribute to oil consumption in an engine and can lead to changes in the properties of the lubricant. The ASTM D5800 method is used to determine the evaporation loss of lubricating oils and is a critical performance test parameter for modern engine oil formulations.

Per ASTM D5800, it is recommended that a reference fluid be tested to confirm proper operating performance at the beginning of each day. For the Tannas instruments (according to Procedures D and C), reference/calibration fluids are used to calibrate (tune) the instrument to lab environments by making adjustments to the Orifice size as necessary. Although the PAC instruments per Procedure B are not tunable, the daily verification run is still recommended to ensure the instrument is in proper operation for the day.

The NCO-12 oil has been recently added to D5800 as the recommended daily verification check oil with target evaporation loss values for all four D5800 Procedures included on the label. The SNL-75 and SNA-130 are also reference/calibration fluids available with target evaporation loss values for all four D5800 Procedures. Each of these fluids are produced by Tannas and available in pint, quart, half-gallon and gallon sized containers.



Virtual Training Reminder

During these difficult times of travel, our sales, engineering, and technical service staff are available for live instrument training and troubleshooting via Microsoft Teams, Zoom, FaceTime, Skype, or FB Messenger. Please contact Rob Gordon to request a session time.

CEC L-40 Announcement



We have terrific news to share! After nearly three years of industry meetings and round-robin testing work, the Tannas Noack S2® has been officially accepted into the CEC L-40 Noack test standard.

We have already been notified by the Chairman of the CEC L-40 working group from France of their upcoming purchase! Please notify those customers that have been awaiting this acceptance so they may complete their instrument orders. Currently, we have units in production and can ship in less than 4 weeks.

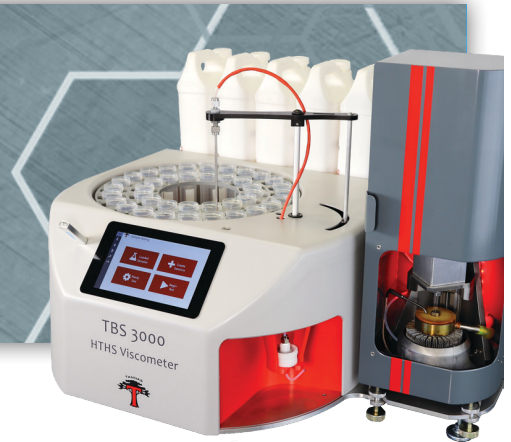
CP610 & KV Baths Discontinued

Please note that both the King Kinematic Viscosity Bath (KV Bath) and the Cloud & Pour Point Bath (CP610) have been discontinued from our instrument line.

Our engineering and technical service team still plan on answering any questions or concerns that you may have with these instruments. Please contact Rob Gordon at service@tannasco.com with any questions.



TBS 3000 HTHS Viscometer



A QUICK UPDATE ON THE TBS 3000

The new TBS 3000 HTHS Viscometer model is now in full production mode with numerous instruments operating in the field worldwide. Please notify your customers of this good news so they can replace their older TBS models.

In case you missed it, the TBS 3000 is primarily being promoted at this time as an effective replacement for the TBS 2100E model for standard, routine HTHS Quality Control and Quality Assurance testing purposes for meeting D4683, D6616, and CEC L-36 test methods between 80C and 150C at shear rates between 500,000 and 3 million sec⁻¹. If customers are interested in HTHS studies beyond these parameters for research purposes, the current model TBS 2100E is recommended at this time.

Foam Tendency Digital Exit Air Device

The Digital Exit Air Meter (DEAM) is a digital air totalizer for use with the Tannas Foam Air Bath (TFAB) or any device for measuring foam characteristics. By totalizing the air used during the 5-minute flow period, the DEAM ensures there are no leaks in the system and verifies the proper volume of air has adequately passed through the Diffuser and into each sample being tested.



The use of a device such as the DEAM is required, per ASTM D892, which states, "The total volume of air leaving the foaming test apparatus shall be measured by a volume measuring device capable of measuring gas volumes of about 470 mL." The only exception is when applying the Alternative Procedure section of the D892 method. Since the method requires an airflow rate of 94 mL \pm 5 mL over a 5-minute blowing period, the value reported by the DEAM must be 470 mL \pm 25 mL for the test run to conform to the method.

ASTM D6082 does not require the use of the DEAM, but states that the use of such a device helps detect leaks. The ASTM D6082 method requires the total volume of air after a test be 1000 mL \pm 25 mL since it requires an airflow rate of 200 mL \pm 5 mL over a 5-minute blowing period.

The DEAM features an LCD display for enhanced readability and ease of use, as well as an in-line filter to ensure the wetted materials of the sensor stay oil-free.

The marketing brochure for the DEAM, along with other Tannas Co. and King Refrigeration products, can be found in the distributor portal under Marketing & Sales -> Brochures.