Newsletter Spring 2014

News Headlines:

- ✓ New TLB50 Bath
- ✓ New Backlight Illuminators
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- ✓ New Laboratory

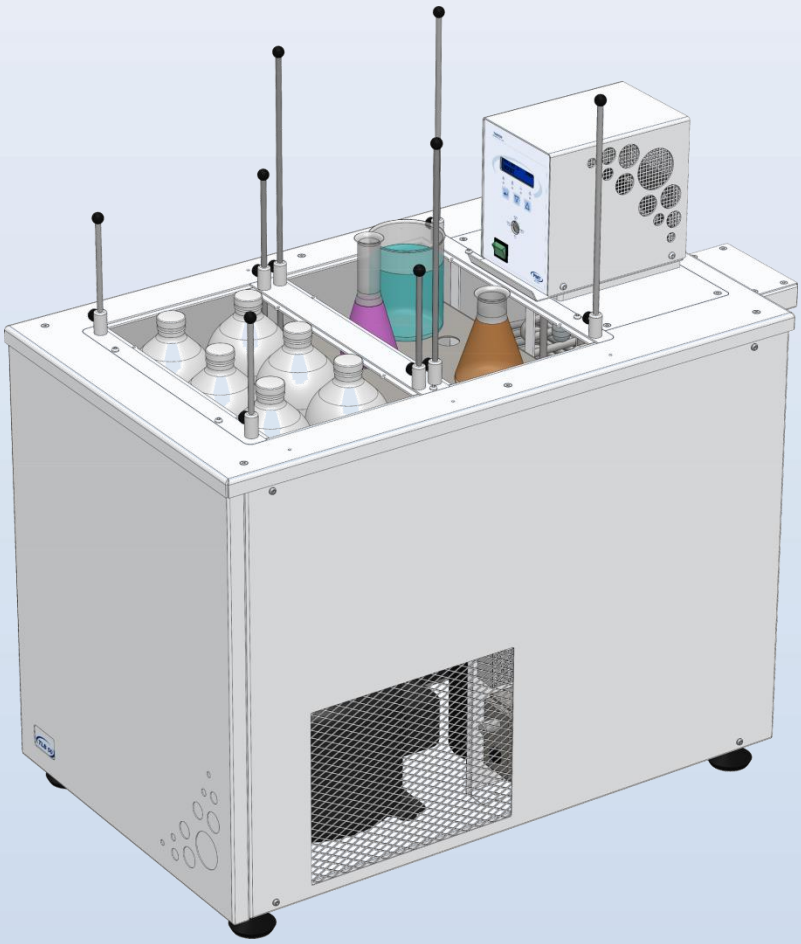
New TLB50 Bath

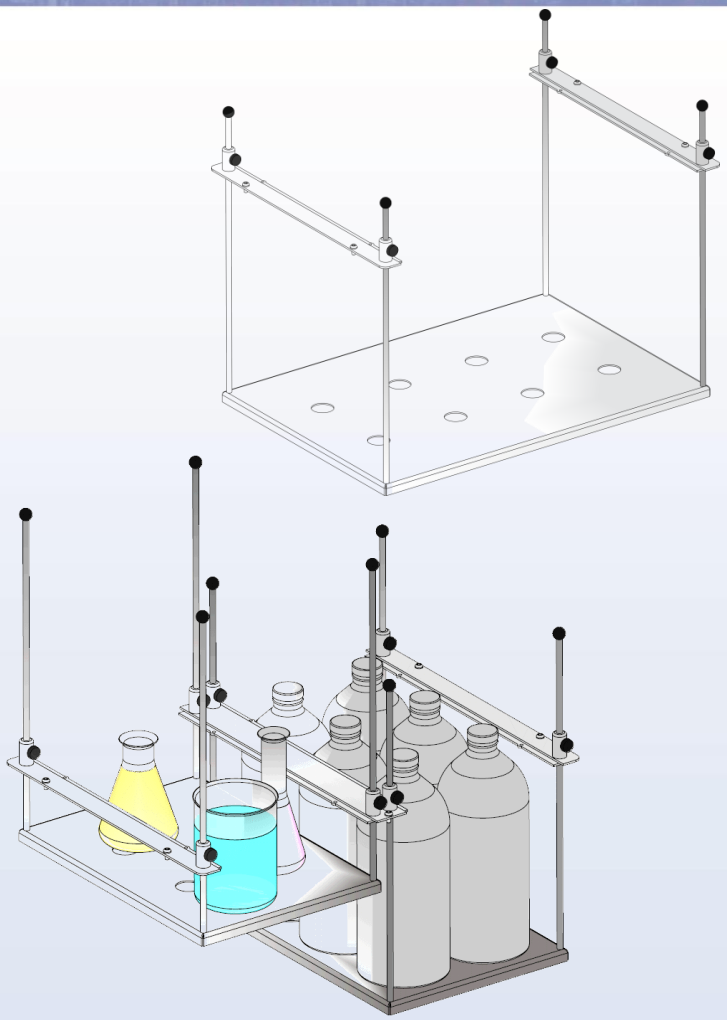
Tamson is pleased to announce a new low-temperature bath. The TLB50 is developed as a thawing bath for conditioning and sample preparation. The bench top bath with integrated cooling, replaces the combination water bath with external cooling circulator. The bath has an operating range of -10°C to +120°C. The TLB has a wide bath opening and several options including a fixed or split levelling platform and adjustable rack systems. The bath can be custom adjusted to hold different sized bottles from a few ml bottle up to 12 Boston round bottles each containing 1-ltr. The rack system fixes the bottles in position and prevents them from floating...

...The primary use of the TLB50 is sample preconditioning. Before most samples are analyzed, they are required to be conditioned to a specified temperature as described in each test method. Some examples are:

- ASTM D323 Reid Vapor Pressure Test between 0 to 1°C (32 to 34°F).
- ASTM D5 Penetration Tests for Bitumen.
- Long-term storage of Gasoline <10°C or <20°C (<50° or 68°F).

The TLB50 Bath will also be able to accommodate D86 Atmospheric Distillation samples for storage or conditioning. It can be set to 0-1°C (32°-34°F) for the storage of gasoline (GROUP 1) or the corresponding D86 receiver chamber temperature. Samples are easily conditioned prior to the distillation test. A common issue is gasoline samples are run immediately after Reid Vapor Pressure tests while the sample is still at 0-1°C (32-34°F) and not at the specified temperature of 12-18°C (55-65°F). The problem occurs that the test results reflect abnormally high recoveries, for example 99.8% on winter blends of gasolines. The abnormally high results are often caused by charging at the wrong sample temperature (0-1°C or 32-34°F) and collecting at a receiver camber temperature of 12-18°C (55-65°F). Proper sample conditioning prevent these errors and faulty test results.





... The TLB50 bath has standard, built-in, mechanical safety over-temperature protection systems. In case of electronic failure, the bath will be mechanically powered down when the temperature rises above a specified set point temperature. A redundant over-temperature safety alarms when the bath exceeds a higher temperature than the maximum allowed programmed temperature by the user, is optional. When working with flammable samples, it is strongly recommend that this option is purchased. This option ensures safe, around-the-clock operation. Also, external contacts are available for connecting the over-temperature warning to a laboratory alarm system.

The complete stainless steel bath is equipped with a bath drain. It also has an overflow protection system when submerging bottles. A special cooling feature switches the bath to an energy-friendly mode when the desired set-point temperature is achieved. In comparison to standard equipment, this feature can provide significant energy savings. The specially designed cooling system offers rapid cool-down while running at its set-point temperature consuming as little power as possible.

The high-resolution temperature control offers excellent stability. The TLB50 bath can control within +/- 0.02°C. For more information, please contact our sales team.

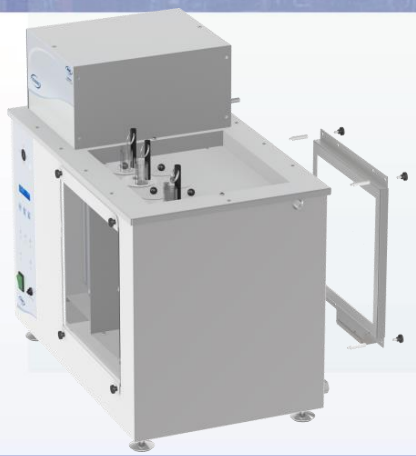
New Backlight Illuminators

Tamson has introduced a new design using energy efficient and more robust LED Technology, discontinuing our Z41 backlight illuminators which employed a circular TL lamp (Illuminators with part numbers 00T0900 and 00T0905). The new Z41 stand-alone illuminator has several advantages compared to the previous model. The part number is 00T0909. Features include:

- Highly energy-efficient (6 Watts vs. 22 Watts)
- LED panel gives a much brighter light resulting in better visibility
- Wide range of inputs from 85V up to 250V/ 50~60Hz
- LED panel is adjustable in height for use in a variety of test method applications
- LED panel has a much longer expected lifetime than a TL lamp...

…Another version of the new Z41 illuminator is available for the TV2000MKII and TV4000MKII as a back panel. This LED back panel with part number 00T0908 can be mounted on the back of the viscosity baths resulting in excellent bath visibility.

New part numbers and prices are listed on our website and in our 2014 price list.



New Website

Our website, www.tamson.com, has been updated. We have changed the layout of the menu to make it easier to visit our website using your mobile phone or tablet! Also, the payment of your Webshop order will take place in a fully-secured environment. We strongly recommend that you create a Webshop account on our website. This account allows access to pricing information and your net sales pricing. The Webshop is open 24/7.

Our Newly-built Laboratory Offers Training and High-resolution Temperature Calibration

Tamson has built and commissioned a new laboratory which expands our existing facilities. The state-of-the-art lab supports technical training for our distributors and customers. The new lab will also provide additional testing services, technical development, and calibration activities.

The laboratory is specially climatized to optimize temperature measurement. A set-up provides ultra-stable temperatures ranging from -40°C up to +140°C (-40 to 284°F). Over this range, temperature can be controlled with an accuracy of plus or minus 1 milli Kelvin (± 0.001°K). A UKAS calibrated Fluke-Superthermometer 1594 helps us to verify and calibrate thermometers with three digit accuracy….

…In October 2017, the use of mercury will be prohibited. The use of old-fashioned mercury liquid in glass (LIG) thermometers will also be prohibited. Tamson has developed the TT-3 thermometer as an alternative. This thermometer replaces LIG-thermometers and fully conforms to the new ASTM E20-9 method. The ASTM E20-9 method fully describes the use of digital contact thermometers (also called RTD) which stands for resistive thermometer device.

Digital contact thermometers are non-toxic, fast, and more accurate. Also, our TT3 has built- in communication and memory. It offers a three digit, live temperature display or real-time, and logging of your process. The temperature curve also can be stored and retrieved afterwards.

For further information please contact our Sales Team via sales@tamson.com or visit our Website www.tamson.com