

## News Headlines:

- ✓ New ASTM D565/ASTM D612 Apparatus
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- ✓ New Products and Pricelist
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## New ASTM D565/ASTM D612 Apparatus

Tamson is pleased to introduce an apparatus for ASTM D565 and ASTM D612 test methods.

The ASTM D565 (mineral oil) and ASTM D612 (paraffin wax) test methods cover the determination whether a sample conforms to the standard quality required for pharmaceutical use as defined by the United States Pharmacopeia, the National Formulary, or the Food and Drug Administration. For the test, either mineral oil (ASTM D565) or melted wax (ASTM D612) is treated with concentrated sulphuric acid ( $H_2SO_4$ ) and heated under prescribed conditions. The resulting colour is compared with a reference standard to determine whether it passes or fails the test.

For the ASTM D565/D612 apparatus, the robust Tamson TC16 with a temperature range from ambient to 250°C is used. In 2009, the TC16 was adapted for other petroleum tests, including ASTM D130, ASTM D6468, and ASTM D4870. The design of the TC16 and the construction of its stirrer have proven themselves, over several decades, to be very reliable even when operated for long periods of time at high temperatures. When run at high temperatures, the vapour and heat of the bath fluid will damage the bearings and motor of the stirrer as competitors use cheaper designs as most applications for their thermostatic water baths are done below 80°C. This stirrer issue is a well-known problem with other brands and users in petrochemical labs are desperately looking for a reliable brand as an alternative. Tamson is familiar with the specific applications and requirements needed for petroleum tests. The TC16 therefore, is extremely well-suited for 24/7 use in petroleum and petrochemical labs.



The TC16 can be used for immersing eight ASTM D565/D612 test tubes. The levelling platform (P/N 07T0210) keeps the test tubes above the 10 mL line and is required for operation. A special stainless steel cover (P/N 03T2314) with eight 16 Ø mm holes is required to suspend the test tubes in the bath.

Please download the latest specification sheet from our website ([www.tamson.com](http://www.tamson.com)). Should you require further information, please contact our sales team ([sales@tamson.com](mailto:sales@tamson.com)).

## Introduction of TV7000DCSP with Special Temperature Range

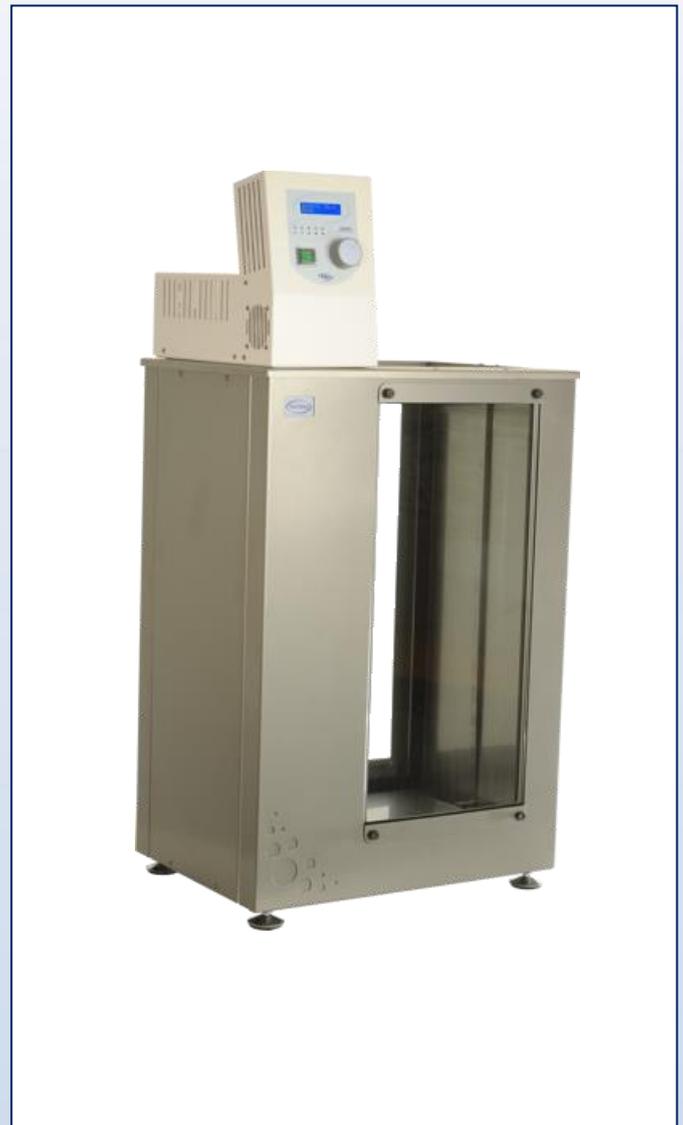
In 2016, Tamson introduced the TV7000DC replacing the previous version of the TV7000. The TV7000DC is equipped with a state-of-the-art heating control that provides very precise and accurate temperature stability. Temperature instability is one of the major errors causing inaccurate kinematic viscosity measurement results or resulting in significant errors during calibration procedures.

The TV7000DC offers a unique temperature stability of  $\pm 0.007\text{K}$  @  $40^\circ\text{C}$ ,  $\pm 0.007$  @  $80^\circ\text{C}$  and  $\pm 0.01\text{ K}$  @  $150^\circ\text{C}$ . This stability was measured using a calibrated high performance thermometer, the Fluke ® 1594A Super Thermometer. The accuracy of control is given as the maximum and minimum value over a time period of one hour which in practice is sufficient to perform a calibration or measurement. The results of the measurements are shown in our specification sheet. Tamson does not calculate standard deviations to determine the temperature stability of its products like some other companies do when promoting the stability of their thermostatic baths. Other standard features of the TV7000DC are a three decimal readout on the display, a standard bath drain for emptying the bath, an overflow outlet to protect electronics from damage and removable outside window panels to clean the inner windows. Operating temperature range is from ambient up to  $230^\circ\text{C}$ .

The TV7000DC conforms to ASTM D445, ISO 3104, IP 71, and DIN 51366. It is also used by the National Metrological Institutes (NMIs) to calibrate master viscometers and to produce primary viscosity standards conforming to ASTM practice D2162.

For customers who don't require a temperature range above  $100^\circ\text{C}$ , for example, NMIs only calibrating hydrometers at  $15^\circ\text{C}$  or  $20^\circ\text{C}$ , we introduce our new TV7000DCSP with a temperature range from ambient to  $100^\circ\text{C}$ . Part numbers for the TV7000DCSP are 00T0806 (230V) and 00T0808 (115V).

Please check our website at [www.tamson.com](http://www.tamson.com) for the latest brochure.



### Float for Tamson Viscosity Baths

Tamson products are known for safety and robustness. A number of precautions are provided to ensure safe, around-the-clock operation of the bath. These features protect the equipment, the bath fluid temperature and the workplace. In all Tamson baths, a mechanical over-temperature protection thermostat will automatically switch-off the entire bath when its maximum value is exceeded. The stirrer mechanism also has built-in thermal protection and will switch-off the motor in case of malfunction. Both the over-temperature thermostat and motor-fuse can easily be accessed.

Additionally, several integral electronic safety checks can prompt the bath to shut-down in case of electronic or electrical error. Any activated safety system will respond with an acoustic and visible alarm. Operating faults or component failures are reported on the display. This provides a continuous check of proper bath function.

Based on market requests, a float is now available for the complete range of Tamson viscosity baths as an option. In case of a low bath fluid level, the float (level detector) will cut off power to the heating elements of the bath.

We are currently updating our specification sheets and the float option will be available for deliveries starting January 1, 2017.

### New Products and Pricelist

Tamson has provided high-accuracy, high-reliability products to the world's scientific laboratories for over 135 years. The name "Tamson" is synonymous with quality and is respected worldwide. Tamson's continuing strength since its founding is a testament to its commitment to excellence and innovation. We will continue to introduce new products in 2017, including the Tamson Immersion Cooler (TIC80), which will replace the KV80. Also, a new version of the TV2000AKV (Automated Kinematic Viscosity) will be introduced. A new low-temperature viscosity bath will be introduced for different tests at sub-zero temperatures. We will provide more details when the products are available.

Our new price list for 2017 has been sent by email. If you haven't received it, please contact us.

### Merry Christmas and Happy New Year

Tamson wishes you and your family a very Merry Christmas and a prosperous 2017. We thank our customers for their trust in Tamson products. In celebration of the holiday season, Tamson will be closed from December 24, 2016 until January 2, 2017. Please note that we can not send or receive shipments during this period. We will however reply to emails.

