

# Newsletter

# October 2011

## News Headlines:

- ✓ **NEW** TV2000 and TV7000
- ✓ **NEW** design for TV4000LT and TV7000LT
- ✓ **NEW** TV15000 for pH measurements

## NEW design and electronics for TV2000 and TV7000

The well known TV2000 and TV7000, introduced in the late eighties, were using the TMC50 microprocessor board since 1995. Both baths are used for viscosity measurements. The TV7000 is also being used for the calibration of master viscometers or long thermometers in labs of national metrology institutes...



...The TV2000 and TV7000 are now equipped with the Tamson TMC70 microprocessor board. This controller is now being used in almost all our other thermostatic baths. The two visibility baths have the same dimensions and characteristics as they did previously. Moreover, they offer some additional new features:

- They are now equipped with a 0.01°C display readout.
- The baths have a boost heater for quick heating to a high set point.
- They now can be emptied via the drain tap located at the back of the apparatus.
- If the fluid level is too high, the fluid will leave the bath via the overflow outlet protecting electronics from damage.
- The outer window panels can be removed in order to clean the inner windows when these are contaminated.
- Ambient drift, offset and long term stability have been improved with the use of the TMC70 electronics.
- The baths can be optionally equipped with a three decimal display.

The new baths, that have more features than ever before, are available at the same price as the previous ones. The new spare part numbers of the TV2000 are 00T0782 (230V/50-60Hz) and 00T0784 (115V/50-60Hz). The new spare part numbers of the TV7000 are 00T0792 (230V/50-60Hz) and 00T0794 (115V/50-60Hz). As production of the new models is standard now, the old part numbers are not produced anymore. The last units were shipped in September 2011. We will continue to deliver spare parts for the "old" TV2000 and TV7000.

### NEW design for TV4000LT/TV7000LT

Our low temperature visibility baths with integrated cooling have recently been updated with a new design in order to give these baths the same layout as our new TV7000 and TV16000. These baths are mainly used in calibration labs to calibrate (long) thermometers. With the same design, users can easily recognize the Tamson baths. The big advantage of both systems is the wide temperature range from  $-40^{\circ}\text{C}$  up to  $+100^{\circ}\text{C}$  offering a very precise temperature stability. The baths have the same nice features as the TV7000 which are described in the previous paragraph above. If you want to calibrate thermometers and probes, Tamson can supply you with the right bath and accessories to hold the thermometers stable and vertically in the bath.



### New TV15000 bath for pH measurements

Tamson has introduced a new bath to measure pH according to IUPAC recommendations 2002 "Measurement of pH. Definition, standards, and procedures". In this document IUPAC recommends definitions, procedures, and terminology relating to pH measurements in dilute aqueous solutions in the temperature range from  $5^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ .

The TV15000 has unique windows of 79 x 58 cm and has a temperature range from  $5^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  with an accuracy of  $\pm 0.01^{\circ}\text{C}$ . The resolution of the display is in two decimals ( $0.01^{\circ}\text{C}$ ). The bath volume is 153 litres. With this unique bath you can measure the pH at  $5^{\circ}\text{C}$ ,  $15^{\circ}\text{C}$ ,  $25^{\circ}\text{C}$ ,  $37^{\circ}\text{C}$ , and  $50^{\circ}\text{C}$  degrees, where the temperature has to be maintained within  $0.01^{\circ}\text{C}$ . The bath is equipped with integrated cooling. Thus a separate cooling device is not necessary.

Users of this bath are national metrological institutions where the TV15000 is used for experiments that are part of international comparison of pH at specific temperatures where the stability should be maintained within  $0.01^{\circ}\text{C}$ . Tamson is the only producer of this kind of bath, given the precise temperature stability and size of the windows. The first unit has successfully been delivered to the National Metrology Institute of Bulgaria.



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