NEWSLETTER

Tamson Instruments

February 2024

ASTM D1837 apparatus available

Tamson is happy to announce that we have launched an apparatus for ASTM D1837 and ASTM D2158. These test methods are to measure the relative purity of the various types of liquefied petroleum (LP) gases and helps to ensure suitable volatility performance. The Tamson D1837 apparatus is used to cool down the sample and holds the weathering tube in a vertical position. The TCC-B D1837 is a single adjustable circulator bath with space for one cooling coil. A cover with lid is in the scope of supply. The apparatus is based on the well-known TCC-B and more information about the instrument and the accessories we supply can be found on the specification sheet.

The Tamson liquid D1837 apparatus has several advantages compared to a dry ice system:

-No need to buy CO2 bottles,

-In hot climates the dry ice will evaporate fast, and it will be very hard and time consuming to make,

-The cooling coil is installed in a closed and isolated bath chamber which will minimize the heat loss for more efficiency in the liquidation process of the LPG, so it will not lose the volatile compounds which will affect the test results,

-No moving parts as everything is built-in, so less need for maintenance

-Completely conform the ASTM requirements, so you don't have to assemble or purchase anything besides this configuration.

The first batch of four D1837 systems have been shipped to a country in the Middle East after a successful factory acceptance test by the customer at Tamson.

Gauge for copper strips

Based on market feedback, Tamson has developed a gauge to check the required dimensions of a copper corrosion strip used the test corrosiveness to copper from petroleum products. The copper strips may be used repeatedly but shall be discarded when the dimensions for the copper strip fall outside the specified limits. The gauge is a handy tool to quickly check, if after repeatedly polishing, the copper strip still meets the minimum dimensions for length, width and thickness. With this tool, the user can immediately see if the copper strip is still within its minimum requirements for dimensions.

Foam verification kit

Tamson is happy to introduce a foam verification kit (P/N 31T0071) to test for maximum pore diameter and permeability of gas diffusers conform ASTM D892 Annex 1, ASTM D6082 Annex A, IP 146 Annex A and ISO 6247. The kit is suitable for Mott diffusers (cylindrical metal diffuser) and Norton stones (spherical diffuser).

The verification kit consists of three parts:

-A H2O manometer set comprising a glass U-tube water manometer, support, necessary tubing and connectors to read the pressure differential over 800 mm of water.

-An assembly to test the permeability of the diffuser consisting of a filtering flask with 45/50 neck, Delrin stopper with single hole, air inlet tube, necessary tubing, stand base and rod with clamps to hold the filtering flask in the same position.

-An assembly to test the maximum pore diameter consisting of a cylinder with 45/50 neck, Delrin stopper, inlet tube, necessary tubing and adapters, stand base and rod with clamps to hold the cylinder in the same position.

An air pump and wet gas meter are not included, but can be bought as an accessory if needed. We assume the customer already has those items as it is required for foaming tests.

TC10B production will stop

The production of TC10B (P/N 00T0150 & 00T0155) will come to an end in Q1, 2024. The final production batch has been sold out, hence we cannot accept new orders for TC10B anymore. The yearly sales of the TC10Bs have been too low to keep two different models in our product range. To achieve better economies of scale, Tamson will solely manufacture the TC20B from now on. The only difference is the bath volume (ten versus twenty litres). A TC16 (16 L bath volume) can also be used as alternative. If you have a pending project for a TC10B, please contact our sales team.