

NEWSLETTER

Tamson Instruments

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Tamson ASTM D86 Sample Preparation Bath

A common issue with ASTM D86 distillation tests is that 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 when 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 chamber temperature of 12-18°C (55-65°F). Proper sample conditioning prevents these errors and faulty test results.

Because of this problem, Tamson presents the TLB50 D86 sample preparation bath for storage or conditioning below 10°C (50°F), as required for group 1 and group 2 samples. The TLB50 D86 bath is equipped with a levelling platform that offers space for up to 12 bottles of 1L each. Also, the TLB50 is equipped with bottle holders that prevent the floating and movement of bottles in the bath.

The TLB50 has an operating range of -5°C up to +80°C. The benchtop bath with integrated cooling can replace the combination of a water bath with an external cooling circulator. This not only saves bench space but also costs because of its high cooling efficiency. The primary use of the TLB50 is sample preparation. Before most samples are analysed they must be conditioned to a specified temperature as described in a test method.



The TLB50 can be used for any test method which require sample preparation prior to the test, like ASTM D323 (Reid Vapor pressure).

Primary benefits of utilizing the TLB50 for ASTM D86 sample preparation:

- Group 1 and group 2 compliance
- Faster time to temperature than a refrigerator
- Improved temperature stability
- Replicate sampling
- Intrinsically safe
- Confidence in temperature consistency
- Much less expensive than C1D2 compliant explosion-proof refrigerators

If you are interested in our TLB50 D86 sample preparation bath, please contact your local Tamson dealer, or contact us at sales@tamson.nl.



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