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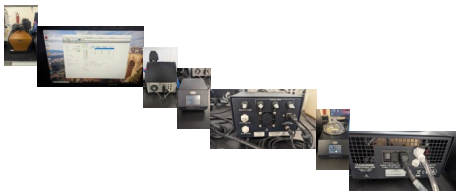
TA Instruments Affinity ITC





Operating range 2 °C to 80 °C with high temperature stability

Rating: Not Rated Yet
Price
Sales price $23,500.00

Ask a question about this product

Description
The TA Instruments (Waters) Affinity ITC is a high-sensitivity isothermal titration calorimeter for label-free measurement of molecular binding interactions (binding constants, stoichiometry, enthalpy, and entropy). It uses a precision syringe for controlled injections into a fixed cylindrical cell and delivers high-quality data for drug discovery, protein interactions, and related applications. This configuration includes automated cleaning but does not include the optional 96-well autosampler.

Key Features / Specifications

Cell options: Fixed cylindrical cell available as standard volume (1.0 mL) or low volume (190 µL); 24K gold (or Hastelloy options).
Temperature control: Solid-state active heating and cooling; operating range 2 °C to 80 °C with high temperature stability.
Sensitivity: Minimum detectable heat as low as 0.05–0.1 µJ (low-volume); low noise and baseline stability of 0.02 µW/hr.
Injection system: Syringe volume up to 250 µL with 0.01 µL precision; AccuShot™ technology delivers titrant to the optimal location for mixing.
Stirring: FlexSpin™ technology enables efficient mixing at slow speeds (0–200 rpm) for higher sensitivity and sample protection.
Automated cleaning: Fully automated, user-selectable syringe cleaning/rinsing routines; multiple wash/rinse solvent ports (4 on instrument) to reduce run-to-run contamination.
Degassing: Features the TA Degassing Station accessory (stand-alone unit for vacuum degassing of samples in vials/tubes or a 96-well plate prior to analysis, with temperature control and stirring).
Intelligent Hardware Positioning: Ensures precise, reliable syringe placement and reduces alignment or damage issues.
Response time: As fast as ~4.4–13 seconds depending on cell volume.
Software: ITCRun and NanoAnalyze for method setup, real-time analysis, model fitting, batch processing, graphing, and data export. No 96-well liquid-handling autosampler is included in this configuration.

Comes with our 90-day warranty.

Biotech Equipment Sales, Inc.: based in South San Francisco, the Biotech capital of the world, since 2009. We are dedicated to bringing high-quality pre-owned laboratory instrumentation to our scientific community.

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