

Attana A100[®] and A100[®] C-Fast System



ATTANA: BALANCING POWER AND SIMPLICITY IN MOLECULAR INTERACTION STUDIES

Based in Stockholm, Sweden, Attana is a pioneer in the development of continuous-flow Quartz Crystal Microbalance (QCM) systems for real time, label-free molecular interaction studies. Our systems have since 2003 been employed at leading universities and biotech companies in a wide variety of research fields within the life sciences.

ATTANA A100[®] AND ATTANA A100[®] C-FAST

The Attana A100 is a label-free, temperature controlled, continuous-flow system for manual (A100) or automated (A100 C-Fast) analysis of molecular interactions. The system is delivered operation ready and includes: biosensor, computer, software and accessories such as syringes, vials and buffer bottles.

The A100 system is characterized by high stability and low noise resulting in accurate and high quality data. Furthermore, precise temperature control, robust fluidics, a variety of immobilization options and surface chemistries combine to provide assay flexibility and high throughput.

The QCM core technology enables the study of biomolecules of varying species such as proteins, nucleic acids and carbohydrates and also binding moieties of vastly different sizes, ranging from peptides to cells.

WORKING WITH SENSITIVE SAMPLES AND MAXIMIZING PRODUCTIVITY

The enhanced features of the optional A100 C-Fast system maximize productivity by allowing unattended analysis of up to 192 samples. Fast and intuitive set-up includes pre-programmed methods and templates, further demonstrating the system's efficiency. For compatibility and convenience, samples may be loaded in the microtitre plate format (MTP). For sensitive samples or extended operation, an optional cooling tray is available controlling sample storage temperature at 4-40°C.

APPLICATIONS

- Kinetic & Affinity Characterization
- Kinetic & Off-rate Screening
- Crude Samples
- Epitope Mapping
- Active Concentration Determination
- Thermodynamic Studies
- Ligand Fishing

BENEFITS AND USE

The Attana A100 system provides the ability to continuously view all phases of the interaction, giving information on binding specificity, matrix effects and epitope competition. Providing on- and off-rate constants rather than just affinities, the system offers higher resolution and the possibility to select directly based on the off-rate. The system is not only a powerful tool for kinetic analysis, but can also be used within quality control in the manufacturing industry as well as assay development and troubleshooting in the in vitro diagnostics industry. Within academic research, the Attana A100 system is a compliment to other technologies offering versatility in the capacity to study proteins, nucleic acids and carbohydrates, adding information about dynamics.

KEY FEATURES

- Quartz Crystal Microbalance (QCM) technology
- Real time, label-free molecular interaction analysis
- Rapid and accurate temperature control
- Integrated degasser
- Robust fluidics



Balancing **Power** and **Simplicity** in Molecular Interaction Studies

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PRODUCT SPECIFICATIONS

Detection technology	Quartz Crystal Microbalance(QCM)
Chamber volume	1.25 µl
Flow rate	1-150 µl/min
Sample volume	≥ 50 µl
Molecular weight detection	≥ 1KDa
Temperature control	4-40°C ± 0.1°C
Sample capacity	192 samples
Referencing	Yes
Integrated degasser	Yes
Dimensions (LxWxH mm)	166x503x337
Weight	~ 22 kg (excluding computer)
Computer OS	MS Windows XP
Attana software	Attester™ & Attester™ Evaluation
Autosampler (C-Fast)	2 x 96 MTP format. Other configurations and temperature controlled sample tray are optional



ORDERING INFORMATION

Attana System	Item Code	
Attana A100 [®] System: Attana A100 Biosensor with temperature control, integrated degasser, Attester software, computer, telephone and e-mail support, 1-day on-site training, 1-year Premium Service Agreement	3725-3001	
Attana A100 [®] C-Fast System: Attana A100 Biosensor with integrated automated sample handling, temperature control, integrated degasser, Attester software, computer, telephone and e-mail support, 1-day on-site training and 1-year Premium Service Agreement	3726-3001	
Attana Sensor Chips	Item Code <i>Pack of 3</i>	Item Code <i>Pack of 10</i>
Attana Carboxyl Sensor Chip	3616-3033	3616-3103
Attana Biotin Sensor Chip	3613-3033	3613-3103
Attana Polystyrene Sensor Chip	3611-3033	3610-3103
Attana Gold Sensor Chip	3610-3033	3610-3103
Services and Upgrades	Item Code	
A100 Premium Service, 1 Year	3725-5001	
A100 C-fast Premium Service, 1 Year	3726-5001	
C-fast Upgrade: from 3725-3001 to 3726-3001	3727-3001	
C-Fast Sample Tray Cooler	3930-3001	

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