

The mission of Fluence Analytics is to optimize efficiency and quality in the production of polymeric materials and biopharmaceuticals by deploying innovative products leveraging continuous, realtime data streams.

Who We Are

Fluence Analytics is a manufacturer of industrial and laboratory monitoring solutions that produce continuous data streams. The company has two product lines, ACOMP and ARGEN. Combined with powerful, proprietary analytical tools, the confluence of data from the company's measurements enable realtime optimization leading to improved process control and faster R&D for polymer and biopharmaceutical manufacturers.

Fluence Analytics, formerly Advanced Polymer Monitoring Technologies (APMT), was founded in 2012 to commercialize technologies developed at Tulane University's PolyRMC, a research and development center active in fundamental and applied polymer research. The company rebranded as Fluence Analytics in 2017 to emphasize its focus on continuous process analytics and to better reflect its vision for the future of polymer and biopharmaceutical manufacturing.

Fluence Analytics is a privately-held company headquartered in New Orleans, Louisiana, USA.

Company Values



Innovation

We are pushing the boundaries of what's possible, one dataset at a time.



Quality

From our highly skilled and professional team to the technologies and analyses we produce, we strive for excellence in all that we do.



Accuracy & Reliability

Precision is of utmost importance to our processes and systems, as such, we always endeavor to deliver outputs that are accurate and dependable.



Insight

Because of our dogged determination to perform thorough analysis of research and production processes, we deliver the insights and takeaways that transform companies.



Integrity

Our people, our products, and our analyses are all reinforced by a commitment to honesty, empiricism, and science.



Fluence Analytics

realtime data.

realtime optimization.



Fluence Analytics

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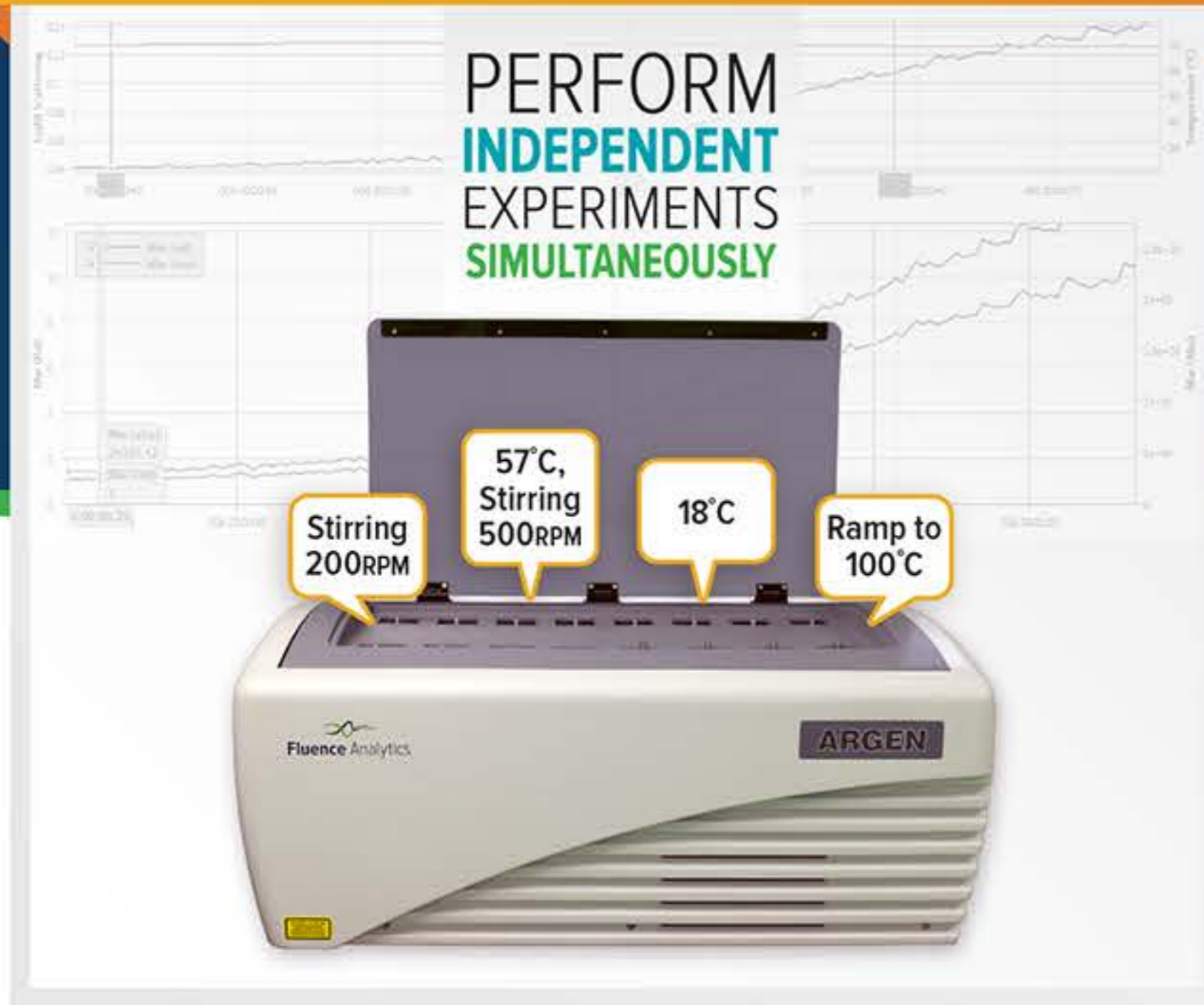
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ARGEN

Aggregation Rate Generator



ARGEN is a powerful tool for biopharmaceutical and polymer scientists. With 16 sample cells, each independently capable of precise control of thermal, chemical and mechanical stress, and via static light scattering, ARGEN measures the pharmaceutical stability of therapeutic proteins and peptides and the quality of natural and synthetic polymers.

BENEFITS

- Smarter Product Development
- Early Detection of Aggregation
- Rank Protein and Peptide Stability
- Understand Impact of Thermal, Chemical, and Mechanical Stress

Industries Served

Chemical

- Synthetic Polymer Manufacturing and R&D
- Natural Polymer Manufacturing and R&D

Pharmaceutical

- Biosimilar R&D
- Biopharmaceutical R&D
- Formulation Development

ACOMP

Automatic Continuous Online Monitoring of Polymerization



ACOMP is a smart manufacturing system that continuously analyzes polymers during production. This automated monitoring solution produces realtime data about reaction kinetics and polymer properties such as residual monomer, monomer conversion, polymer composition, molecular weight and intrinsic viscosity.

BENEFITS

- Increased Polymer Yield, Quality, and Consistency
- Optimized Process Control
- Reduced Cycle Times, VOCs, and Material Usage
- Anomaly Detection During Production

Lab ACOMP

ACOMP for Lab and Pilot Plant Scale Reactions



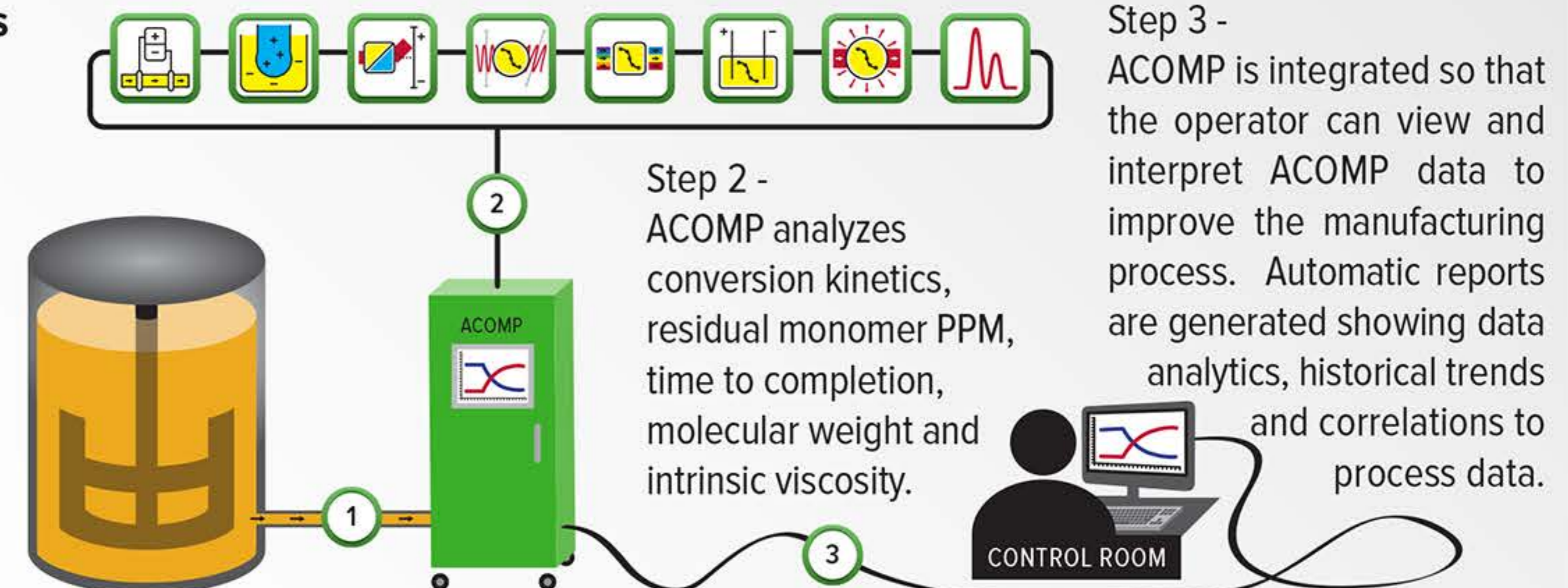
Lab ACOMP is an essential R&D product used to monitor the synthesis of new polymer products or optimize existing processes at the bench and pilot plant scale. Lab ACOMP continuously analyzes polymer during reactions, yielding realtime data about polymer properties, reaction kinetics and process anomalies.

BENEFITS

- Accelerated Product Development
- Faster Recipe Optimization
- Better Product Quality
- Improved Scale-up

How ACOMP Works

Step 1 - A stream of polymer is extracted from the reactor, and ACOMP continuously quenches, dilutes and conditions the polymer stream for characterization.



Step 2 - ACOMP analyzes conversion kinetics, residual monomer PPM, time to completion, molecular weight and intrinsic viscosity.

Step 3 - ACOMP is integrated so that the operator can view and interpret ACOMP data to improve the manufacturing process. Automatic reports are generated showing data analytics, historical trends and correlations to process data.