

WHITE PAPER:

What to Avoid When Purchasing a Moisture Analyzer

Insights for Accurate and Reliable Moisture Analysis



Repeatable



Reliable



Accurate

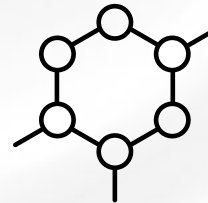
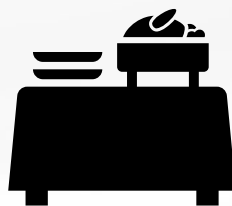
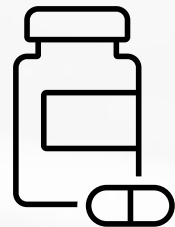
What to Avoid When Purchasing a Moisture Analyzer

1. Overlooking the Specific Needs of Your Application

Pitfall: Many buyers make the mistake of choosing a one-size-fits-all solution without considering their industry's unique requirements.

What to Avoid: Avoid analyzers that do not support the moisture content range or sample types specific to your industry, as this can lead to inaccurate results.

Solution: Computrac analyzers offer high versatility across sectors such as plastics, food, pharmaceuticals, and chemicals, accommodating unique moisture profiles and sample handling needs.



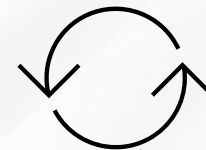
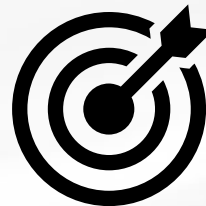
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2. Neglecting Accuracy and Sensitivity Requirements

Pitfall: Analyzers with insufficient sensitivity or outdated technology can result in inaccurate measurements, impacting quality and compliance.

What to Avoid: Avoid purchasing analyzers with limited accuracy or that lack detection capabilities for low moisture levels or trace amounts, which are essential in industries like plastics or pharmaceuticals.

Solution: Computrac's advanced technology delivers accurate, sensitive measurements, which can detect low moisture levels accurately, ensuring compliance and reliability.



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3. Assuming All Moisture Analyzers Offer Comparable Speed

Pitfall: Some testing methods may yield accurate results but at the cost of extended test times, which can delay production and reduce lab efficiency. For instance, oven methods typically require significantly more time compared to moisture analyzers. While Computrac analyzers are comparable in speed to most moisture balances, they notably outperform oven methods in time efficiency. They also outlast the competition with robust design and tend to be more accurate.

What to Avoid: Avoid technologies with lengthy sample preparation or extended testing times, especially with traditional oven methods and titration, which can create bottlenecks in high-throughput environments.

Solution: Computrac analyzers deliver rapid results without compromising accuracy, which is ideal for high-throughput environments or applications where speed is critical.



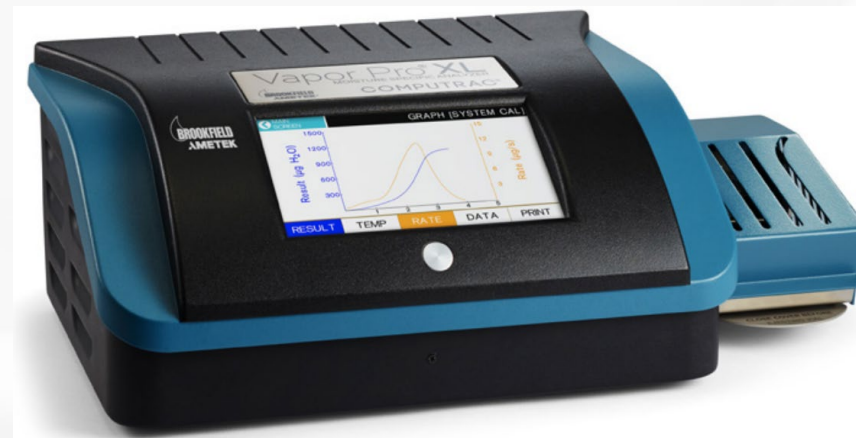
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4. Underestimating Operational and Maintenance Costs

Pitfall: Some moisture analyzers come with hidden costs related to regular maintenance, consumable parts, or costly reagents, such as halogen bulbs and titration chemicals, which can drive up long-term expenses.

What to Avoid: Avoid analyzers with consumable reagents or frequent maintenance requirements, which add ongoing costs and impact ROI.

Solution: Computrac analyzers, like the VPXL, offer a cost-effective alternative by eliminating the need for consumable reagents and halogen bulbs—unlike Karl Fischer titration—significantly lowering the total cost of ownership and minimizing downtime.



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5. Ignoring Instrument Reliability and Durability

Pitfall: Instrument breakdowns can be costly, especially if they require extensive repairs or replacement parts.

What to Avoid: Avoid analyzers with a history of reliability issues, especially if your environment demands robust, continuous operation.

Solution: Computrac analyzers are known for their durability, with minimal moving parts that reduce maintenance needs and extend the instrument's lifespan in rigorous environments.



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6. Selecting an Analyzer Without Flexible Data Management and Integration

Pitfall: Limited data management features or lack of integration with existing systems can hinder lab efficiency, data accessibility, and compliance with quality control standards.

What to Avoid: Avoid instruments without modern data transfer options, such as digital storage or capabilities that facilitate process monitoring. Without these, it becomes challenging to maintain efficient quality control workflows.

Solution: Computrac analyzers provide essential data transfer options, including USB and webserver connectivity, making data logging and transfer straightforward. While direct LIMS integration is not supported and the webserver is not 21 CFR Part 11 compliant, these capabilities support efficient data management, helping labs improve workflow while aligning with general industry standards.



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7. Failing to Account for Regulatory Compliance Needs

Pitfall: In regulated industries, instruments must comply with specific standards and pass audits.

What to Avoid: Avoid analyzers that do not support your industry's regulatory requirements, such as 21 CFR Part 11 in pharmaceuticals.

Solution: Computrac analyzers are designed to meet regulatory compliance standards, reducing audit risks and ensuring reliable documentation practices.



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8. Overlooking Training and Technical Support Requirements

Pitfall: Lack of adequate training or technical support can lead to user errors and reduced instrument effectiveness.

What to Avoid: Avoid analyzers that lack comprehensive training resources or responsive technical support, as these are essential for optimal operation.

Solution: AMETEK Brookfield provides ongoing support for Computrac analyzers, including extensive training, ensuring users maximize the instrument's potential.



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Conclusion

Selecting a moisture analyzer is a critical decision that impacts quality control, regulatory compliance, and operational efficiency. By understanding and avoiding the pitfalls of other moisture analyzers, buyers can make informed decisions, choosing a solution that aligns with their operational needs and industry standards. Computrac moisture analyzers offer a robust, cost-effective alternative to traditional methods, designed to meet the demands of modern laboratories.



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About Computrac®

Computrac moisture analyzers by AMETEK Brookfield are engineered to provide accurate, reliable results for diverse applications. With a focus on quality, efficiency, and customer support, Computrac is at the forefront of moisture analysis technology, offering solutions that meet the unique challenges faced by today's industries.

For questions or more information, our sales and support teams are ready to help with consultations and demonstrations. AMETEK Brookfield is committed to supporting every phase of your moisture analysis journey, helping you achieve accurate, reliable results with our innovative solutions.

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