



Aspectrics

**Biodiesel Analyzers**

# Aspectrics Biodiesel Analyzers

## Quality control every step in the process

Aspectrics Biodiesel solutions offer you complete flexibility in deployment. Both at-line and on-line solutions are based on the principles of:

- Ease of use
- Multi-feedstock capability
- Accurate and consistent results in seconds
- Low cost of ownership

### Aspectrics 2750

The Aspectrics 2750 Biodiesel Analyzer is designed for on-line use providing biodiesel manufacturers with an easy to deploy quality assurance solution. The Aspectrics 2750 Biodiesel Analyzer combines all the precision and accuracy of an analytical laboratory instrument in a compact footprint which can be easily integrated into an on-line process environment or packaged for field deployment. A single 2750 Biodiesel Analyzer is capable of running multiple biodiesel analyses generating results in a matter of seconds without compromising accuracy. The 2750 can handle:

- Feedstock quality
- Methanol quality
- B100
- Blend determination



### Aspectrics BQA 1000

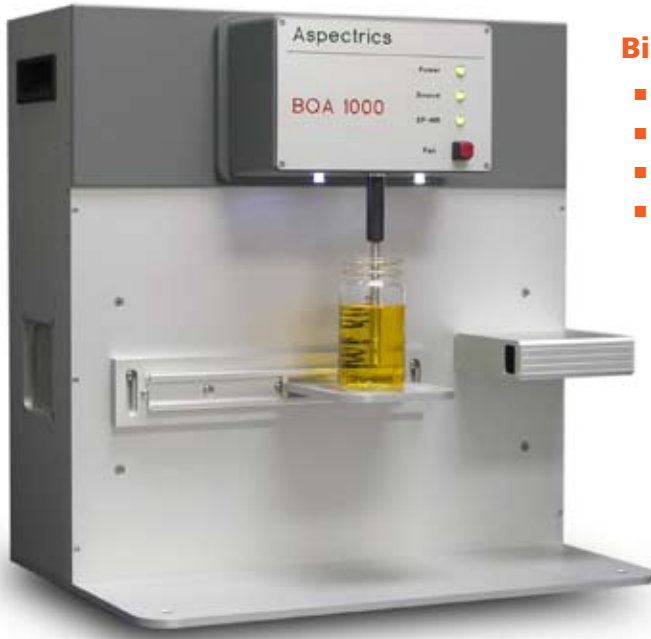
The Aspectrics Biodiesel Quality Analyzer or BQA 1000 is designed for at-line use completely integrated in a portable ergonomic case. Built on the same principles as the 2750, the BQA 1000 focuses specifically on the requirements of the biodiesel shop floor able to go wherever quality needs to be tested, whether it be for incoming feedstock or assuring the quality of the end product- B100. The BQA 1000 handles:

- Free Fatty Acids on incoming feedstock
- Moisture on incoming feedstock
- Free Glycerin in B100
- Total Glycerin in B100
- Moisture in B100
- Methanol in B100



# Introducing

## Aspectrics Biodiesel Quality Analyzer – BQA 1000



### Biodiesel quality within your control

- Pre-calibrated methods for a variety of feedstocks and B100
- Accurate results that are consistent and reproducible
- Cost effective
- Rugged industrial design

### Easy to read Pass/Fail indicators

- Operator friendly user interface
- Results in seconds
- No Internet connection required
- Sample introduction is clean and simple



*Pass or Fail results fast*

# Quality Control

## For less than one ASTM test

Aspectrics Biodiesel Quality Analyzer (BQA 1000) delivers quality results in seconds – *at-line* – wherever they matter the most to you. And the Aspectrics BQA 1000 can be purchased for less than one ASTM D6751 test per month. The BQA 1000 is pre-calibrated for a number of biodiesel production analyses. As a result, the Aspectrics BQA 1000 can help you tune your production process to improve efficiency and eliminate costly quality errors. Quickly inspect incoming feed stock materials and outgoing B100 quality from a single system. There is no need for time consuming analytical processes. The easy to clean probe can be introduced in a sample container of your choice for maximum flexibility.

The key features of the Aspectrics BQA 1000 are:

- Pre-calibrated for biodiesel analyses
- Integrated sample interface
- Operator friendly user interface



### Guaranteed Performance!

Component	Range (%w/w)	Standard Error (%w/w)
<b>B100</b>		
Moisture	0 to 0.10%	0.005%
Methanol	0 to 0.50%	0.013%
Free glycerin	0 to 0.05%	0.007%
Total glycerin	0 to 0.50%	0.024%
<b>Feedstock</b>		
FFA low range	0 to 3%	0.083%
FFA high range	0 to 11%	0.112%
Moisture	0 to 1.0%	0.002%
<b>Methanol</b>		
Water	0 to 3%	0.005%

# Turnkey Analyzers

## Pre-calibrated biodiesel analyzer

Aspectrics BQA 1000 arrives pre-calibrated for incoming oil inspection, methanol quality, and final B100 product quality. Aspectrics Professional Services team can develop custom calibrations at your facility to address changing process or reporting challenges. Aspectrics unique calibration process eliminates the need for extensive customization or data manipulation associated with other traditional laboratory instruments. The BQA 1000 is adjusted and updated in a matter of minutes as your feedstock changes. Aspectrics patented methodology removes the complexity associated with more costly laboratory analyzers.

All the calibration information resides safely on the PC that comes with your analyzer. There is no chance that you will have to wait for quality control results because of a lost Internet connection. Your production process can be up when you need it.

Aspectrics BQA 1000 is a turnkey system that delivers results needed to ensure the highest product quality.

## Cost effective at-line analyzer

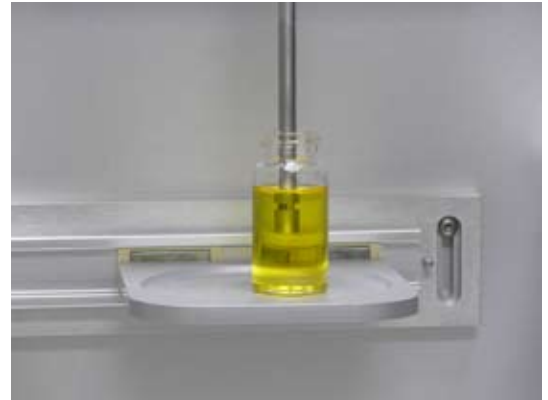
Aspectrics BQA 1000 assures reliable and consistent operation. The BQA 1000 does not require a web connection to analyze your samples. All of the calibration information resides safely on the analyzer. There is no need for costly lab tests or waiting for quality control results to continue the process. The BQA 1000 can be leased for less than one ASTM D6751 test per month.

The BQA's rugged design makes it ready for use on any shop floor. It is industrial-strength and does not need to be handled delicately like other laboratory instruments. The BQA 1000 is portable and can be used where you need it. The compact size and ergonomic handles make it transportable as well as adaptable for placement anywhere.

# Simplified Operation

## Integrated sample interface

The Aspectrics BQA 1000 sample interface was designed for simplicity and ease-of-use. The sample probe can accommodate nearly any size of sample container and is cleaned easily with standard solvents. Simply wipe the probe with a clean tissue and dry with the integrated drying accessory - that's all there is to it! The sample interface does not produce false errors. The software displays the cleanliness of the sample probe ensuring that subsequent samples are not contaminated from previous samples.



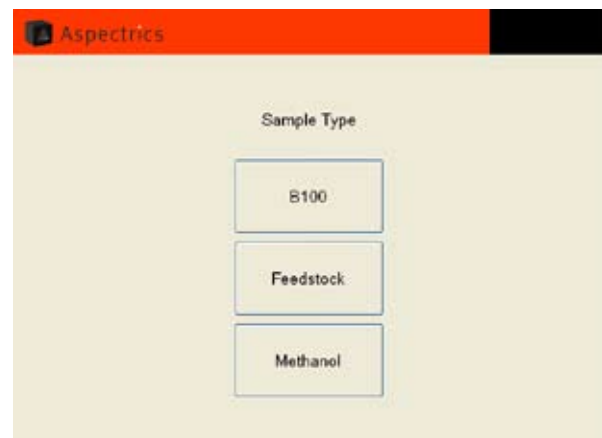
## Operator friendly user interface

The BQA 1000 is easy to operate in any environment. The graphical user interface requires little to no operational training. The pass/fail indicators mean that you do not need to know or remember complex chemical formulas. Simply select the type of analysis (feedstock, B100, or Methanol) from the main menu and in less than 60 seconds the results are displayed on the screen. In addition, green, yellow, and red graphic indicators quickly alert the user to results that are over the ASTM limits - it's that simple!

### Results in less than 60 seconds!



### Home screen - Precalibrated methods



# Flexible Platform

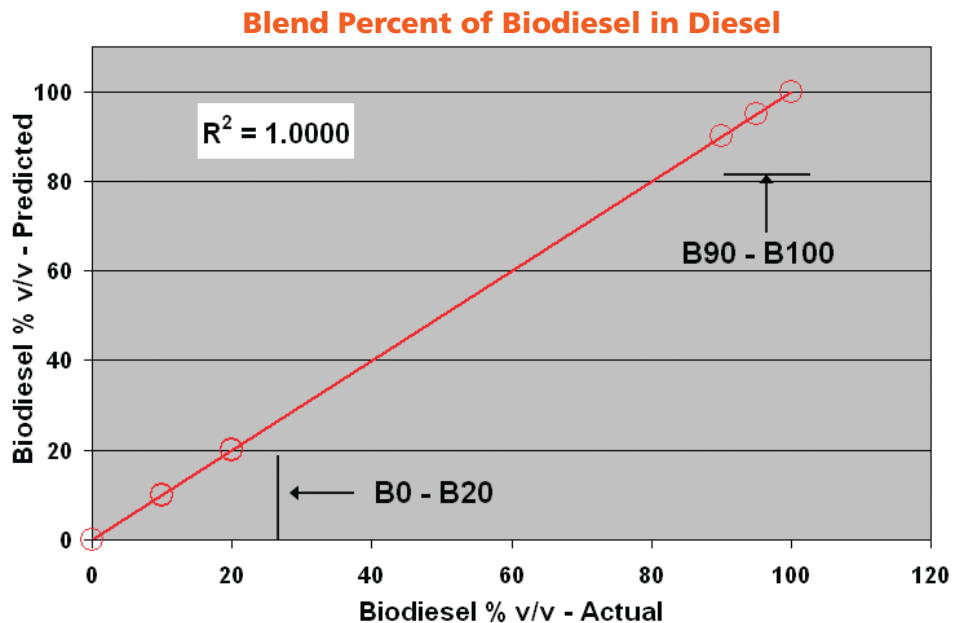
## On-line Analyzer

The Aspectrics 2750 Biodiesel Analyzer's compact and flexible components make it ideal for integrating into an on-line production process or for deployment in the field. The 2750 delivers fast, accurate results in any environment. A single analyzer is capable of running analyses for incoming feedstock and outgoing B100 without compromising quality and without the expensive cost of a laboratory ASTM test.

The 2750 Biodiesel Analyzer's rugged design has received Military certification (Mil-STD 202G, Method 204D) for resistance to vibration. The analyzer can perform under the harshest environments as well as deliver fast, real-time results.



**Rugged Design** – fast, accurate results in any environment



**Highly Accurate** – determine biodiesel blend ratios in the lab or in the field

# Customer Support

Aspectrics is pleased to include with each unit six months of free technical support. Our experienced customer support team includes application chemists and industry recognized experts. Customer success is our primary focus.

## Professional Services For Custom Requirements

Aspectrics offers customized application support, calibration services, and hardware configurations to help you address on-line production challenges. Our experienced application chemists can develop on-site calibrations specific to your process challenge. If your company is ready to make the transition to on-line process monitoring our Professional Services Group can consult with you to integrate our on-line biodiesel solution.

## Warranty

Aspectrics Analyzers are built to last and deliver results over a long period providing you with the lowest cost of ownership. Aspectrics Analyzers carry a factory repair one year warranty.

## Ordering Information

<i>Product:</i>	<i>Item Number:</i>	<i>Product:</i>	<i>Item Number:</i>
Aspectrics BQA 1000	765-0000-00	Aspectrics 2750 Biodiesel Analyzer	765-0002-00
<ul style="list-style-type: none"><li>▪ Base BQA 1000 Analyzer</li><li>▪ Integrated sample interface</li><li>▪ Notebook PC with biodiesel user interface</li><li>▪ Installation and training available</li></ul>		<ul style="list-style-type: none"><li>▪ Base Analyzer</li><li>▪ Sampling Probe</li><li>▪ Probe light (NIR) Source</li><li>▪ Notebook PC with biodiesel user interface</li><li>▪ Installation and training available</li></ul>	



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