# VINALYZER LAB

# LAB INSTRUMENT TO MEASURE ALCOHOL AND ACIDITY

THE FASTEST AND MOST PRECISE INSTRUMENT FOR VINEGAR PRODUCERS ON THE MARKET

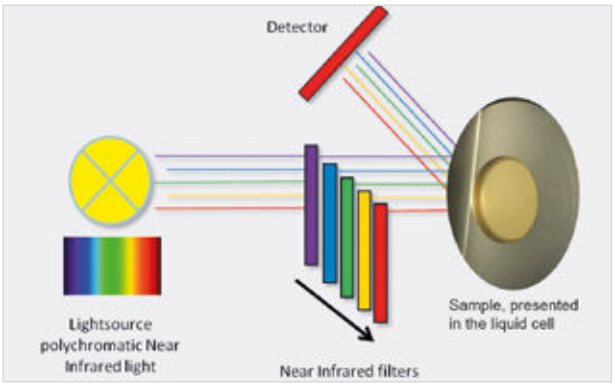

**Key features**

- Analysis of two parameters in vinegar samples in 60 seconds with zero sample preparation
- Measure alcohol and acetic acid in different alcohols, denaturated alcohol, mash, wines and vinegars
- Comes with methods tailored for spirit vinegar mash, spirit vinegar and high alcohol samples
- Determination of acetic acid in mash and wine (0-5 % [w/v]) and vinegar (0-22 % [w/v])
- Determination of ethanol in mash and wine (0-20% [v/v]), vinegar (0-6 % [v/v]) and alcohol solution (5-96 % [v/v])
- Option for customized methods for specialty vinegars

# VINALYZER LAB

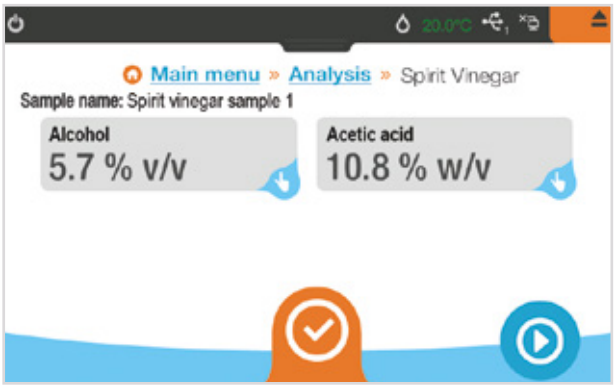
## LAB INSTRUMENT TO MEASURE ALCOHOL AND ACIDITY

The VINalyzer lab is the ideal solution for analysing the most important quality parameters in a vinegar factory - alcohol and acetic acid with one sample injection only, using Infrared (NIR) spectroscopy with a repeatability of 0,01 - 0,02% absolute.

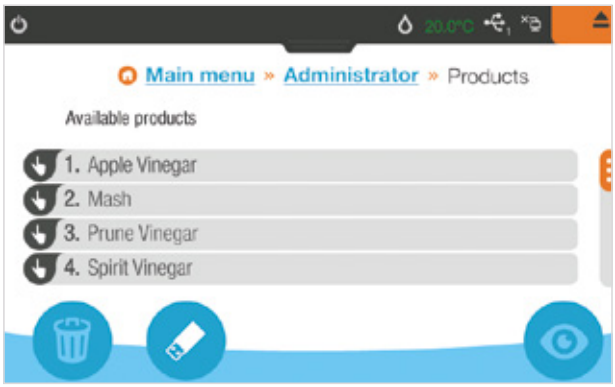



Principle of NIR - filter spectrometers


Main overview




Analysis data




Method selection

As an autonomous system, the VINalyzer lab is easy and intuitive to operate. The robust design and unique optical sample/reference light pathway ensures reliable, precise and reproducible operation, even in areas with varying temperatures.

As a modular system, the VINalyzer lab offers the option to establish calibrations and methods for specialty vinegars or even further parameters, such as biomass.
Comprehensive sample naming, result storage and export of the sample history are implemented.

- Compact design, optimised for table-top applications
- User interface with TFT (touch screen) for easy and hygienic operation
- NIR technology for highly-sensitive measurements with long-term stability
- Includes calibrations for the most important raw materials and products of vinegar manufacturing
- user-friendly and safe injection of small (5 mL) sample volumes
- Out-of-the-box operation set-up, commissioning and operation


Heinrich Frings GmbH & Co. KG
Boschstraße 32, D-53359 Rheinbach
Phone: +49 (0)22 26 89 29 - 400
Fax: +49 (0)22 26 89 29 - 401
marketing@frings.com
www.frings.com