



BACCHUS 3

TECNOLOGÍA DIFUSIÓN IBÉRICA, S.L.

TEMPORARY DOCUMENTATION



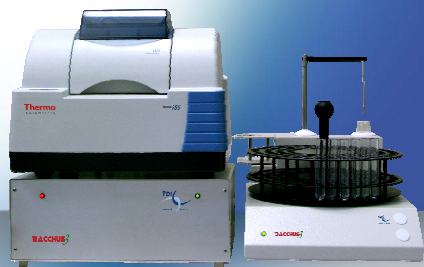
AUTOMATIC ANALYZER (FTIR - UV - VIS)

New **BACCHUS 3** is the only in the world capable of giving results simultaneously in IR-UV-VIS; and is especially designed for analysis:

*Maturity control
At reception bay level
Must and fermenting must
Finished wines
(dry, sweet, sparkling, fortified wines)*



COMPACT, RELIABLE, REVOLUTIONARY



TEMPORARY DOCUMENTATION

SYSTEM MODULES



Thermo Fisher Scientific iS5 FTIR spectrometer: absorbance reading with proprietary transmission flow cell of 25 μ . FTIR Software Nicolet EZ Omnic included.



UV/Visible module: diode-array spectrophotometer, 250—650 nm, equipped with 2 flow-cells (0.2 and 1 mm) (Only in V. MultiSpec)

- ✓ Electronic and management command module.
- ✓ Auto sampler: 117 Positions. (Optional)
- ✓ PC pack included.

PARAMETERS

The instrument is delivered with all available calibrations

- ✓ **Alcohol, Sugar (reducing, total, G/F, Saccharose), Density, Dry Extract.**
- ✓ **Total Acidity, pH, Volatile Acidity.**
- ✓ **Organic Acids: Acetic, Malic, Lactic, Tartaric, Gluconic, Succinic, Citric, Ethyl Acetate, Sorbic.**
- ✓ **Glycerol, Assimilable Nitrogen, Total SO₂, CO₂, Anthocyanins and Tannins, Butanediol.**
- ✓ **Baume, Brix, Probable Alcohol, Potassium.**
- ✓ **Colour Intensity, Tonality, DO280 IPT (Official Method), Shade, Nuance, Tristimular Coordinates.**
- ✓ **Quality index customizable by the user.**

PRECISION (Standard deviation)

Alcohol	± 0,05 %	Sugar	± 0,30 g/l
Total Acidity	± 0,07 g/l	pH	± 0,035
Volatile Acidity	± 0,04 g/l	Malic acid	± 0,15 g/l
Colour	± 0,05	IPT	± 0,20

INSTALATION

Dimensions FTIR:	L35 x D28 x H26 cm
Dimensions Sampler:	L36 x D55 x H43 cm
Weight:	~ 20 kg
Power:	220 v - 50/60 Hz

BACCHUS 3

TECHNICAL SPECIFICATIONS

- ✓ Throughput: 120 samples/hour (whatever the number of parameters)
- ✓ Universal calibrations for all types of wines and musts.
- ✓ High-technology, state of the art, optical bench: insulated optics, controlled temperature and hygrometry. Dynamic alignment.
- ✓ Transmission flow-cell. Thermo-regulation at 28°C ($\pm$ 0.1°C) with Pelletier circuitry enabling the processing of samples from 4 to 35°C.
- ✓ Online filtration and degassing.
- ✓ Dual halogen/deuterium light source (1000 hours).
- ✓ Quick change of all standard modules.
- ✓ Fully evolutionary system.

SOFTWARE

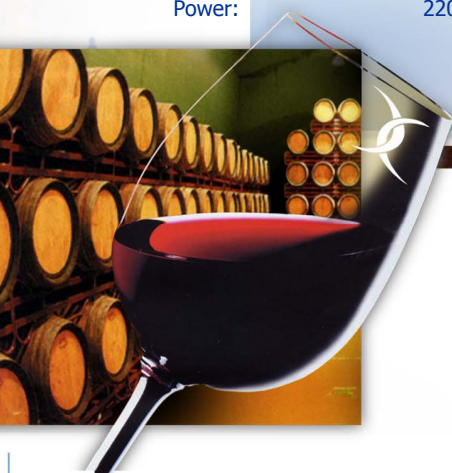
BACCHUS 3 comes with 2 powerful programs that allow a very simple and intuitive use of the system with added flexibility.

BACCHUS Analyse

- ✓ Calibration adjustment (slope and bias).
- ✓ Real time adjustment of calibrations.
- ✓ Saving of spectra and reanalysis.
- ✓ Flow-cell standardization.
- ✓ Management of urgent samples.
- ✓ Automatic identification of wine/must, dry/sweet wines with identify library.
- ✓ Troubleshooting functions (automation, optics).
- ✓ QC cards.
- ✓ Password-controlled access to critical functions.
- ✓ Result transfer via LAN or RS232, export in formats: MDB, TXT, etc.
- ✓ Custom analysis protocols: selection of calibrations and analytical parameters.
- ✓ Traceable analysis protocol parameters.
- ✓ STAT sample capability.
- ✓ Print-out of the laboratory documentation.
- ✓ Automatic and manual rinsing cycles.

BACCHUS Quant

- ✓ Development of PLS and/or MLR calibrations.
- ✓ Quantitative search calibrations.
- ✓ Display of spectra in graphics mode (overlay, zoom, cursor).
- ✓ Mathematical tools for the definition of the optimal spectral bands, cross validation, selection of the number factors, etc.



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