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# FLASH AUTOMATIC TITRATOR

progetto grafico M&P

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## FLASH AUTOMATIC TITRATOR

Automatic analysis  
in oenological products

pH  
Acidity  
SO<sub>2</sub>



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# FLASH AUTOMATIC TITRATOR



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## Features:

**Flash Automatic Titrator** has been designed to simply and precisely perform the widest range of potentiometric titrations.

Up to two automatic burettes for titrant delivery and three peristaltic pumps can be installed. Automatic pH, acidity and SO<sub>2</sub> analyses are made easy and simple.

Both a single analysis stand and 16 or 35 positions autosamplers can be connected to **Flash**.

The instrument has been designed to optimize the sample auto-level analysis procedure speeding up the whole preparation. The new optional degassing system ensures a complete automatic analysis procedure with no external sample pre-treatment needed.

Its new design features light weight and small footprint.  
Dimensions: dxlxh 294 x 215 x 308mm

### Compact

**Flash** is a compact-modular instrument and can be both upgraded and configured to satisfy the everchanging laboratory needs

### Easy-to-use

The colored touchscreen display guides the user in each programming, analysis and data interpretation phase

### On-line graphics

During the titration process, a graph giving the analysis trend is displayed in real time

### Specific programs for oenological analyses:

- **pH and total acidity:** performed with a pH electrode on tel quel sample (editable pH end-point titration)
- **Free, total and combined SO<sub>2</sub>:** performed with double platinum electrode on tel quel sample (Ripper method)
- **pH calibration and reagents standardization:** optional calibration with several buffers (e.g. 7/3pH)



## Peripheral units:

### Automatic burettes:

Up to 2 burettes can be installed:

- Burette equipped with 12.000 high definition stepper motor
- 10ml clear glass syringe and tip made of interchangeable PTFE
- Three-way valve (titrant/cleaning reactant suction, titrant delivery, syringe) made of anti-corrosive material

### Pumps

- Very often a titration process requires addition of auxiliary reagents (which are not included in the reaction stochiometry) such as acid for acidifying, water for diluting, etc.. With up to a maximum of 3 peristaltic pumps, operated together or separately, every phase of the titration process can be made totally automatic. The final result is obtained by simply inserting the sample and pressing a key.

Features:

Delivery: 1ml/sec; Internal tube: neoprene, External tube: PVC and PTFE

## Optional devices:

### AS24 Autosampler

- 16-position autosampler (15 working and 1 fixed washing).
- Designed to optimize auto-level sample procedure, in order to speed up sample preparation.
- Light weight and small footprint.

### Autocampionatore AS24 MICRO

- 35-position autosampler (34 working and 1 fixed washing) for cylindrical plastic test tubes.
- Works with 5ml sample for SO<sub>2</sub> analysis and 10ml for pH and acidity analysis.

### Automatic degassing system

- Nitrogen valve for sample degassing

### Printer

- Epson TN-T20II

### Bluetooth

- For PC or printer connection

### Software

- Data management software via external PC