

## ■ AUTOMATIC TITRATOR FLASH

### STEROGLASS

5437

Automatic titrator Flash has been designed to simply and precisely satisfy and 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 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 d×l×h 294x215x308mm

#### AUTOMATIC TITRATOR MAIN FEATURES:

- COMPACT: Flash is a compact-modular instrument and can be both upgraded and configured to satisfy the ever-changing 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 ONLY 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)

#### AUTOMATIC TITRATOR 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 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.

Delivery: 1ml/sec

Internal tube: noprone

External tube: PVC and PTFE

Accessories: Printer; Single analyses stand; Sampler: 16 and 35 positions; Automatic degasser; Software for data management on external PC

- Internal memory: 50 analyses, 10 calibrations; 30 methods
- Data export: date, hour, operator ID, sample ID, method, result, titrant volume
- pH calibration: a) 1 buffer calibration (7) b) 2 buffers calibration (7, 4 or 10) c) Theoretical (Nernst equation) d) Oenologi-cal: 2 buffers calibration (7, 3), Temperature compensation with pt100 probe during pH Calibration; Buffer auto-recognition; Refusal defective electrodes; Notice expired calibration

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Codice	Codice	Description
SQTR078630	Steroglass Fornitore	FLASH JUICES pH/Ac/Ascorbic Acid AS24 sampler
SQTR078631		FLASH BASIC SAUCE pH/Ac/Chloride SINGLE POSITION
SQTR073728		FLASH WINE pH/TA/SO <sub>2</sub> WITH AS24 SAMPLER AND DEGASSER
SQTR073729		FLASH WINE pH/TA WITH AS24 MICRO SAMPLER
SQTR078628		FLASH BASIC JUICES pH/Ac/Ascorbic Acid SINGLE POSITION
SQTR073727		FLASH WINE pH/TA WITH AS24 SAMPLER AND DEGASSER

SQTR073725		FLASH WINE SO2 WITH AS24 SAMPLER
SQTR073723		FLASH WINE pH/TA/SO2 SINGLE POSITION WITH DEGASSER
SQTR073720		FLASH WINE SO2 SINGLE POSITION
SQTR078629	KC28104	FLASH JUICES pH/Ac/Ascorbic Acid SINGLE POSITION
SQTR073730		FLASH WINE SO2 WITH AS24 MICRO SAMPLER
SQTR073731		FLASH WINE pH/TA/SO2 WITH AS24 MICRO SAMPLER
SQTR073732		FLASH WINE pH/TA WITH AS24 MICRO SAMPLER AND DEGASSER
SQTR073719		FLASH WINE pH/TA SINGLE POSITION
SQTR073724		FLASH WINE pH/TA WITH AS24 SAMPLER
SQTR076926		FLASH OIL pH/Ac/Peroxide AS24 sampler
SQTR073726		FLASH WINE pH/TA/SO2 WITH AS24 SAMPLER
SQTR073722		FLASH WINE pH/TA SINGLE POSITION WITH DEGASSER
SQTR078632		FLASH SAUCE pH/Ac/Chloride SINGLE POSITION
SQTR078621		FLASH BASIC WINE pH/Ac/SO2 SINGLE POSITION
SQTR078624		FLASH POST KJELDAHL NITROGEN SINGLE POSITION
SQTR078626		FLASH BASIC MILK pH/Ac/Chloride SINGLE POSITION
SQTR078627		FLASH MILK pH/Ac/Chloride AS24 sampler
SQTJ076925		FLASH OIL pH/Ac/Peroxide SINGLE POSITION
SQTR078625		FLASH BASIC MILK pH/Ac/Chloride SINGLE POSITION
SQTR073721		FLASH WINE pH/TA/SO2 SINGLE POSITION
SQTR078634		FLASH BASIC OIL pH/Ac/Peroxide SINGLE POSITION
SQTR078633		FLASH CONSERVE pH/Ac/Chloride AS24 sampler
SQTR073733		FLASH WINE pH/TA/SO2 WITH AS24 MICRO SAMPLER AND DEGASSER