



Trace Elemental
Instruments



ARCHIE autosampler 210 positions and conditioning*

// ARCHIE

TE Instruments robotic X-Y-Z liquids sampler lives up to its expectations.

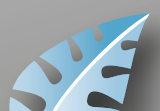
TE Instruments offers a robotic liquids auto sampler for your combustion analyzer, the **ARCHIE**.

Unlike previous generation liquids samplers, the **ARCHIE** uses a 100 μ L syringe to inject the

sample with utmost precision into a vertical liquids, or boat introduction module at controlled speed, forming a perfect match with the **XPLORER** analyzer.

www.TE Instruments.com

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Ultimate sample control

The **ARCHIE** automatically picks up sample from the assigned vial position and delivers it to the introduction module. In between analysis of samples, standards, and blanks, the syringe and needle are cleaned in a special dual wash & drain station tray to avoid cross contamination.

Even before you observe which steps it performs, it already starts to inject the sample into the introduction module. Just a few minutes later the first result appears on your screen and the sampler picks up the replicate or next sample. The sampler is set up to work with all standard 2 mL vials on one or two vial trays of 105 positions each. Both vial trays can be equipped as temperature controlled vial

Features

- Recognizes an empty vial position
- Dual wash position
- Viscosity delay
- Programmable solvent plug
- Draw & Injection speed 0.1 - 300 $\mu\text{L/s}$
- 105 or 210 positions
- Autodilution, creation of standards out of a single CRM
- Small bench space
- Improved RSD's
- Enhanced detection limit
- No need for external syringe pump, no valves
- Easy to use and maintain
- Modular design
- Easy calibration. Push into position and confirm!

Compared to indirect injection technique:

- o Shorter injection time, faster analysis
- o Less use of wash solution
- o Less production of organic waste
- o Increased up-time of H_2SO_4 scrubber
- o Reduction in H_2SO_4 waste

ARCHIE Specification

Dimensions (W x H x D)	55 x 60 x 36 cm (21.7 x 23.6 x 14.2 inch)
ARCHIE and XPLOER	Extra width from 20 cm depending tray config. (7.9 inch)
Weight	10.6 - 15.7 kg (23.4 - 34.6 lbs)
Voltage	100 - 240 V, 50 -60 Hz (Switching power supply, 36 Vdc)
Power requirement (max)	120 W
Software control	TEIS Software
Ambient temperature	5 - 35 °C (41 - 95 °F)
Connection protocols	RS232, USB 2.0 or higher

*Used images are examples of configurations which may deviate from ordered configurations.



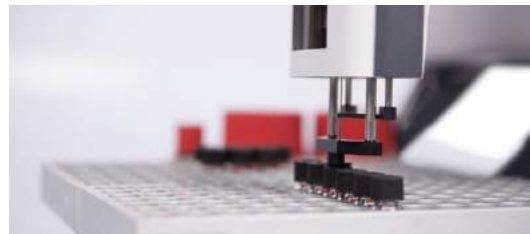
XPLOER with ARCHIE autosampler 210 positions and conditioning*

trays for both cooling 10 °C degrees below ambient temperature and heating up to 60 °C.

An audible signal, LED (RGB) color code and messages in TEIS (software) will indicate the sampler status and performance parameters.

Benefits

- Increased productivity
- Zero memory effect
- Accurate sample pick-up and delivery
- High accuracy even with low volumes
- Broad range of liquid samples
- High productivity
- Time saving, reduced errors
- Hardly takes up extra space
- Higher accuracy
- Broadens application range
- Perfect budget match
- Reduced down time
- Future proof
- Extremely user friendly



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