



## // ARCHIE 105

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

**TE I**nstruments is proud to introduce our 105 positions robotic auto sampler, **ARCHIE-105**.

Unlike previous generation liquids samplers, the **ARCHIE 105** uses a 100 µl syringe to inject the sample with utmost precision into a

vertical designed liquid module at controlled speed, forming a perfect match with the **XPLORER** analyzer.

[www.TE Instruments.com](http://www.TE Instruments.com)

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## Truly a unique concept

The **ARCHIE 105** automatically picks up a sample from the assigned vial position and delivers it to the liquids introduction module. In between samples, it washes the syringe and needle, utilizing a special dual wash & drain station tray, mounted beside the 105 sample tray. Next it picks up 100 µl from the assigned sample vial to pre-rinse the syringe with the sample at hand.

Even before you observed what steps it performs, it already starts to inject the sample into the liquids module. Just a few minutes later the first result appears on your monitor

### Features

- Recognizes an empty vial position
- Dual wash position
- Viscosity delay
- Programmable solvent plug
- Draw & Injection speed 0.1 -500 µl/s
- 105 Positions
- Small bench space
- Improved RSD
- 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 H<sub>2</sub>SO<sub>4</sub> scrubber
  - o Reduction in H<sub>2</sub>SO<sub>4</sub> waste

### ARCHIE-105 Specification

Dimensions (WxHxD):	42 x 60 x 36 cm (16,5 x 23,6 x 14,2 inch)
Weight (inc accessories):	11,15 kg (24,5 lbs)
Voltage:	100 - 240V, 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, LAN
I/O (Option Control):	Digital- and Instr. I/O



screen and the sampler is busy again, picking up the repeated or next vial position.

The basic sampler is set up to work with all standard 2 ml vials. Amongst the future options are heated and cooled vial trays.

An audible signal, LED (RGB) color code and messages in TEIS (software) will indicate 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
- Hardly takes up extra space
- Higher accuracy
- Broadens application range
- Perfect budget match; reduced down time
- Zero down time
- Future proof
- Extreme user friendly

