

The Pickering Onyx PCX is a post-column derivatisation instrument built on 35 years of specialised expertise, combining a pulse-free ceramic syringe pump, programmable temperature gradient, and quick-change reactor cartridges in one factory-tested system.

SPECIFICATIONS

Pump type	Pulse-free syringe pump with single-piece ceramic barrel
Flow rate range	50–1,500 µL/min
Max pump pressure	500 psi (35 bar)
Reactor temp range	Ambient+5°C to 130°C (±0.5°C stability)
Column heater range	Ambient+5°C to 75°C (programmable gradient)
Dwell volume options	0.1–3.0 mL (knitted and standard coils)
Configurations	Single-pump and dual-pump
Dimensions	56.9 × 30.5 × 48.6 cm (H × W × D)
Weight	23 kg (single pump) / 27 kg (dual pump)
Power	100–120 VAC or 200–240 VAC, 50/60 Hz, 200 W max (factory-configured)
Interface	USB + relay; PCX Control Software (Windows)
Detector compatibility	Fluorescence (FLD), UV-Vis, any post-column detector

APPLICATIONS

- ▶ Amino acids, OPA (primary) and TRIONE Ninhydrin (secondary/proline) in food, feed, pharmaceutical, and clinical matrices
- ▶ Mycotoxins, Aflatoxins, Fumonisin, Trichothecenes
- ▶ Carbamate pesticides and Glyphosate herbicides
- ▶ Paralytic Shellfish Toxins (PST/PSP)

FEATURES

- ▶ Pulse-free ceramic syringe pump, no check valves, no baseline noise
- ▶ Flow rate range: 50–1,500 µL/min; maximum pressure 500 psi
- ▶ Quick-change reactor cartridges (0.1–3.0 mL dwell volume, knitted and standard coils)
- ▶ Programmable column temperature gradient (ambient+5°C to 75°C)
- ▶ Reactor coil oven: ambient+5°C to 130°C, ±0.5°C stability
- ▶ Automated piston wash and programmable flush cycles
- ▶ Single-pump and dual-pump configurations available
- ▶ Inert flow path prevents metal contamination of sensitive analytes
- ▶ Front-panel fluidics with removable reagent trays and secondary containment
- ▶ PCX Control Software: method creation, sequence scheduling, Agilent OpenLab integration
- ▶ USB and relay connection to any HPLC system
- ▶ Colour LCD display (800 × 480 px) with real-time status
- ▶ 1-year warranty; Elite Service Plans available