



Fast and versatile analytical HPLC autosampler

Three different injection modes for high-precision and fast injection

Sample injection

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| Autosampler Flow Path | Analytical |
| Maximum back pressure | 862 bar |
| Vial/plate dimensions | well plate dimensions according to ANSI SLAS 4-2004 (formerly ANSI/SBS 4-2004) max. plate/vial height: 47 mm (incl. septa or capmat) |
| Injection volume range | 0.1 µl–10 ml depending on sample loop |
| Sample loop | 100 µl |
| Dispenser syringe | 250 µl |
| Headspace pressure | built-in compressor, only for sample vials with septum |
| Switching time inj. valve | < 100 ms |
| Piercing needle precision | ± 0.6 mm |
| Sample tray cooling | none |
| Vial detection | missing vial/well plate detection by sensor |
| Wetted materials | ETFE (buffer & needle tubing), stainless steel (sample needle, valve stator), Vespel (rotor seal), Kel-F (syringe valve), glass (syringe), PTFE (tip of syringe plunger) |



Analytical performance

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| Injection modes | full loop filling, partial loop filling and microliter pickup; PASA™ (pressure-assisted sample aspiration) |
| Injection accuracy | 0.2 µl for 250 µl injection syringe |
| Injection precision | RSD (Rel. Standard Deviation): full loop injection: < 0.3 %, partial loop injection at volumes > 5 µl: < 0.5 %, microliter pickup injection at volumes > 5 µl: < 1.0 % |
| Sample carryover | < 0.0015 % for partial loop (chlorhexidine) < 0.0003 % with extended needle wash (s. Technical Note VTN0004) |
| Injections per vial | max. 9 injections |
| Injection cycle time | minimum 7 s from the same vial, 14 s from different vials; < 60 s for >100 µl sample injection in all injection modes, incl. 300 µl needle wash |
| Analysis time | max. 9 h, 59 min, 59 s |

Communication

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| Inputs | 2 programmable TTL inputs (next injection, freeze, stop) |
| Outputs | 1 programmable relay output (inject marker, auxiliary, alarm) |
| Control | Ethernet (LAN) |
| Interfaces | LAN, analog |



Technical parameters

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| Ambient conditions | temperature range: 10–40 °C; 50–104 °F air humidity: 20–80% |
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General

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| Power supply | 95–240 V AC |
| Dimensions | 361 x 375 x 570 mm (W x H x D) |
| Weight | 30 kg |