

ACC-3000 Autosampler Column Compartment



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Thermo Scientific brand

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UHPLC⁺
focused

Dionex products are UHPLC compatible by design, establishing a new standard in conventional LC. Integrating hardware, software, and separation chemistry, Dionex offers UHPLC to everyone—for all needs.

The UltiMate[®] ACC-3000 Autosampler Column Compartment is a cost-effective solution ideally suited for routine analyses in the pharmaceutical, food and beverage, and environmental industries. A variety of different sample formats, combined with large sample capacity, support a wide range of routine applications. The integrated autosampler and column oven module offers performance and flexibility that exceed the requirements of most analytical methods; even UHPLC applications up to 620 bar operating pressures are supported. As a combined module, it reduces the height and the cost of the automated system.

Optimal Performance

- Precise, accurate injections with low carryover: The rugged pulled-loop design ensures optimal performance across a wide range of sample volumes. The integrated wash port cleans both inner and outer needle surfaces to eliminate carryover.
- Application flexibility: Five different sample vial formats can be combined in the same autosampling sequence.
- Sample protection: A patented temperature control design protects thermally sensitive samples by eliminating destructive temperature gradients in the sample carousel compartment. A movable cover protects light sensitive analytes from UV radiation.
- Reliable thermal performance: Accurate column temperature control for reproducible chromatographic results.
- Eluent preheating: Built-in eluent temperature control option for reliable chromatographic results even at high temperatures.
- Easy access: All fluidic components can be accessed from the front panel of the autosampler without moving other modules.
- Minimized wear: Few moving parts for trouble-free operation and low cost of ownership.
- Automated qualification: Qualification procedures can be automated with Chromeleon[®] Chromatography Data System (CDS) Software.
- Intuitive troubleshooting: Predefined diagnostic tests and troubleshooting guides within the CDS help to identify and promptly resolve operational interruptions.



Passion. Power. Productivity.

SPECIFICATIONS

Injection principle:

Pulled loop

Injection modes:

Full loop, partial loop

Full loop injection volumes:

20, 50, and 200 μL

Injection volume range:

0–50% of installed sample loop in partial loop mode

Syringe sizes:

250 and 1000 μL

Linearity:

Corr. coeff. > 0.9995, RSD < 1% in partial loop mode for 1–10 μL (20 μL loop)

Corr. coeff. > 0.9995, RSD < 0.5% in partial loop mode for 10–100 μL (200 μL loop)

Injection volume precision:

< 0.25% RSD in full loop mode (20 μL loop)

Typically < 0.3% RSD in partial loop mode at 5 μL (20 μL loop)

Carryover:

< 0.02% (caffeine)

Sample temperature range:

8–40 $^{\circ}\text{C}$, max. 15 $^{\circ}\text{C}$ below ambient

Sample formats:

3 \times 40 vials (1.8 mL) or

3 \times 72 vials (1.2 mL) or

3 \times 22 vials (4 mL) or

3 \times 10 vials (10 mL)

plus 3 \times 5 vials (10 mL)

Column temperature range:

5 $^{\circ}\text{C}$ above ambient to 50 $^{\circ}\text{C}$

Maximum operating pressure:

62 MPa/9000 psi

Software control:

Chromeleon Chromatography Data System (CDS)

Stand alone control:

Liquid crystal display with four magnetic keys to support installation, maintenance, and diagnostics

Safety and maintenance:

Power-up diagnostics of all sensors, actors, and electronics. leak detection and safe leak drainage.

GLP/ Predictive Performance/Wellness:

- Usage of all wear parts
- Movement of all drives
- Movement of the valves
- Power-up time, workload
- Leak detection

Wetted material:

Tefzel, SST

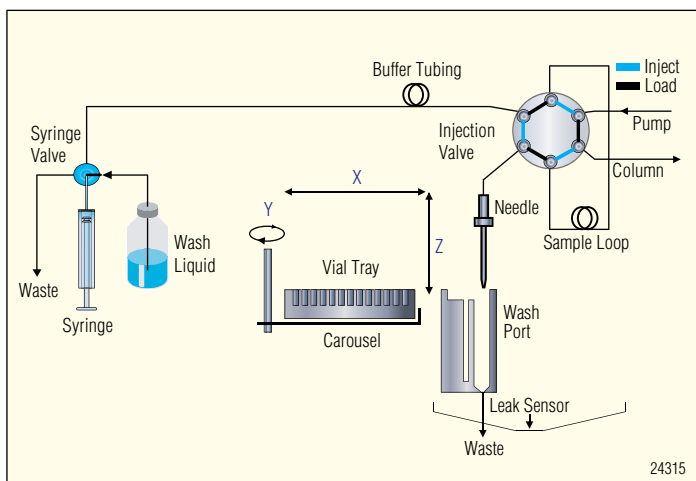


Figure 1. The pulled-loop injection principle of the ACC-3000 provides optimal performance across a wide range of injection volumes and requires minimal maintenance.

ORDERING INFORMATION

To order, use the following part numbers and contact your local Dionex office or distributor nearest you. In the U.S., call (800) 346-6390. In other regions, refer to the phone numbers below.

ACC-3000 Instruments

ACC-3000 Autosampler Column Compartment	5830.0010
ACC-3000T Autosampler Column Compartment with sample thermostating	5830.0020

Accessories

10 mL rack	6820.4086
4 mL rack	6820.4084
2 mL rack	6820.4070
2 mL rack inserts for analytical, conical 1.1 mL vials	6820.4081
1.2 mL rack for mini vials	6820.4090
20 μL sample loop	6830.2440
50 μL sample loop	6830.2442
200 μL sample loop	6830.2443
250 μL syringe	6822.0003
1000 μL syringe	6822.0005
Magnetic pen	6300.0100

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