

Thermo Scientific Dionex ACC-3000 Autosampler Column Compartment

Cost Effective Solution for
Routine Analysis

Thermo Scientific™ Dionex™ UltiMate™ 3000 products are UHPLC compatible by design, establishing the new standard in conventional LC. Integrating hardware, software, and separation chemistry, we offer the UHPLC to everyone—for all needs.

Cost-effective and Flexible

With the integration of the autosampler and column oven into a single module, the Thermo Scientific™ Dionex™ UltiMate™ 3000 Autosampler Column Compartment is a very cost-effective LC hardware solution. It is ideally suited for routine analyses in the pharmaceutical, food and beverage, and environmental industries.

A wide variety of different sample formats, combined with a large sample capacity, support a wide range of routine applications.

All fluidic components can be accessed from the front panel of the autosampler without moving other modules.

The performance and flexibility of the autosampler column compartment exceed the requirements of most analytical methods; even UHPLC applications up to 62 MPa (9000 psi) operating pressure are possible.

As a combined module and an integrated part, it is responsible for the reduced height and cost of the modular-based UltiMate 3000 Basic Automated LC system.



UHPLC+
focused

Thermo
SCIENTIFIC

Precise and Reliable

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.

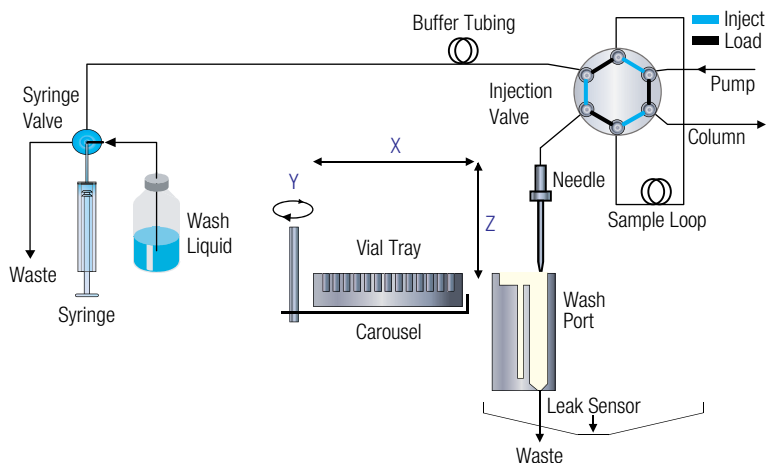
A patented temperature control design protects thermally sensitive samples by eliminating destructive temperature gradients in the sample carousel compartment. A movable cover protects light sensitive analytes from UV radiation

The accurate column temperature control and the built-in eluent preheating option guarantees reproducible chromatographic results even at high column temperatures and independent of ambient conditions.

The ACC-3000 Autosampler Column Compartment is fully supported in the Thermo Scientific™ Dionex™ Chromeleon™ Chromatography Data System (CDS) software, thus qualification procedures can be automated.

ACC-3000 Autosampler Column Compartment 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)
Sample Capacity	216 × 0.3 mL vials, 120 × 1.1 mL conical vials, 216 × 1.2 mL vials, 120 × 1.8 mL or 2.0 mL vials, 66 × 4 mL vials, 30 × 10 mL vials and/or 120 × 0.5 mL or 1.5 mL Eppendorf® tubes (open, uncapped) + 15 × 10 mL vials
Carryover	< 0.02% (caffeine)
Sample Temperature Range	8–45 °C, max. 15 °C below ambient
Column Temperature Range	5 °C above ambient to 50 °C
Dimensions (h × w × d)	36 × 42 × 51 cm (14.2 × 16.5 × 20 in.)
Maximum Operating Pressure	62 MPa/9000 psi/620 bar
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)
Safety and Maintenance	Leak sensor, automatic vial detection, internal monitoring of all mechanical operations, power-up diagnostics of all sensors, actors, and electronics. ACC-3000T: Monitoring of the function and cooling performance by three temperature sensors
Wetted Materials	Tefzel®, SST
Weight	ACC-3000 (T):18 kg (23.0 kg)
Software Control	Chromeleon Chromatography Data System
PC Connection/I/O Interfaces	USB 1.1, integrated USB hub with 3 free ports. 4 digital inputs, 4 program. relay outputs
Power Requirements	100–120 V, 60 Hz; 200–240 V, 50 Hz
User Input/Display	LCD-indicating system parameters, 4 magnetic keys to support installation, diagnostics and maintenance, standby button, 3 LEDs for status monitoring (Power, Connected, Status)
GLP	In Chromeleon: Full support of automatic equipment qualification (Thermo Scientific™ Dionex™ AutoQ™ Instrument Qualification) and system functions for estimating the lifetime of consumables, predictive performance. All system parameters are recorded in the Chromeleon Audit Trail.



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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.

PART NUMBER

5830.0010ACC-3000 Autosampler Column Compartment

5830.0020.....ACC-3000T Autosampler Column Compartment with Sample Thermostatting

Accessories

6300.0100 Magnetic Pen

6820.1427 Transparent Front Cove

6820.4070 Sample Tray for 40 Cylindrical 1.8/2 mL Vials

6820.4084 Sample Tray for 22 Cylindrical 4 mL Vials

6820.4086 Sample Tray for 10 Cylindrical 10 mL Vials

6820.4087 Sample Tray for 40 Conical 1.1 mL Vials

6820.4090 Sample Tray for 72 Cylindrical 1.2 mL Vials

6820.4091 Sample Tray for 72 Cylindrical 0.3 mL Vials

6820.4094 Sample Tray for 1.5 mL Eppendorf® Tubes

6820.4096 Sample Tray for 0.5 mL Eppendorf Tubes

6820.4097 Sample Tray for 72 Microdialysis 0.3 mL Vials

6822.0003 250 µL Syringe

6822.0005 1000 µL Syringe

6830.2414 20 µL Sample Loop, Thermo Scientific™ Dionex™ Viper™ Fitting

6830.2416 50 µL Sample Loop, Viper Fitting

6830.2418 200 µL Sample Loop, Viper Fitting

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