

# Elute UHPLC

Part No: # 1845343 Elute UHPLC system, cool/heat

## Specification sheet



### Dimensions (H x W x D) and Weight

- Elute UHPLC: 69 cm (H) x 50 cm (W), 61 cm (D), total weight: 70 kg

### Pump

- Pump: binary with HPG (High Pressure Mixing) and two channels
- Solvent Selection Valve: 2 solvents per pump module (A/B)
- Degasser: Internal vacuum degassing, 2 - channel, 480  $\mu$ L chambers, individually for each pump module (A/B)
- Separate rear piston seal wash
- Compressibility Compensation: Continuous and fully automatic
- Pressure range: 0 - 1300 bar (0 - 18855 psi) for 0 - 2000  $\mu$ L/min
- Pressure pulsation: < 1 % at 200  $\mu$ L - 2000  $\mu$ L/min (with water), or < 5 bar, whichever is greater
- Flow range: 1  $\mu$ L/min - 5000  $\mu$ L/min
- Flow resolution: 1.0  $\mu$ L/min increments
- Flow accuracy: 1 % or 10  $\mu$ L/min whichever is greater (with water for flow range 0.200 - 2.000 mL/min)
- Flow precision: RSD < 0.075 % or min SD 0.005 min.
- Gradient range: 0 - 100 %
- Gradient composition accuracy:  $\pm$  0.5 % absolute from 5 - 95 % (200  $\mu$ L - 2000  $\mu$ L/min)
- Gradient composition precision: < 0.15 % or 0.01 minute SD (200  $\mu$ L - 2000  $\mu$ L/min)
- Mixer Volume : 35  $\mu$ L (Gradient delay volume 50  $\mu$ L)
- pH range: 1.0 - 12.0 (1-10 for purge valve)

### Autosampler

- General injection modes: Full loop, partial loop fill, and  $\mu$ L pickup mode
- Injection range: 1 - 5000  $\mu$ L (depends on installed flow path, sample loop, and injection mode)
- Accuracy: < 0.5 % RSD
- Precision (RSD) (for injection volume > 5  $\mu$ L): < 0.3 % for full loop, < 0.5 % for partial loop fill, < 1 % for  $\mu$ L pick-up

1 of 2

- Sample viscosity: 0.1 – 5 cP
- Sample capacity: 2 - 96 or 2 - 384 well, 108 vial tray for 2 mL; 30 vial tray for 10 mL vials (optional)
- Sample Temperature: heating/cooling for temperature range of 4 - 40 °C (Measured as air temperature in sample compartment for maximum ambient temperature 25 °C and maximum humidity 80%)
- Carryover: < 0.001% (chlorhexidine) with programmable needle wash

**Additionally, a column oven must be selected from the following options**

**Standard Column Oven (#1845354)**

- Oven: External
- Column Temperature: Ambient +10 °C to 90 °C, with 1°C increments.
- Temperature accuracy & stability: better than 0.1 °C, measured at 30 °C in the centre of the oven compartment

**Column Oven with Cooling (#1854519)**

- All the features of #1845354
- Additionally, temperature range: Ambient -15 °C to 90 °C

**Column Oven with Selection valve & preheater (#1854520)**

- All the features of #1845354
- Additionally, a column selection valve allows using the column oven with a maximum of 6 different LC columns upto 30 cm length. With the valve, maximum temperature is limited to 75 °C.

**Column Oven with Selection valve, preheater & cooling (#1854521)**

- All the features of #1845354, 1854519, and 1854520 combined

**Power requirements and accessory**

- Power supply: 100 – 240 V / 50-60 Hz
- Power consumption: 450 VA max.

**Software**

- Bruker HyStar 4 & 5 PlugIn