[INSTRUMENT SPECIFICATIONS

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ACQUITY UPLC Process Sample Manager

The ACQUITY UPLC® Process Sample Manager (PSM) is a free-standing, self-contained instrument module. The ACQUITY UPLC PSM will accept any combination of standards, controls, or process samples in a vial format from a process operator or laboratory chemist, as well as aspirate process samples directly from a process slip-stream or process vessel. The ACQUITY UPLC PSM can verify the sample ID via a barcode reader, perform in-situ dilutions, and inject the mixture onto the column for chromatographic analysis and results reporting.

Maximum sample capacity 32 available sites for process and control samples Internal sample capacity 32 positions for standard 8-mL vials External sampling 1 port standard* Number of sample injections Up to 60 injections per sample vial Sample access Total random access Injection mode Full-loop injection only Injection loop volumes $1-\mu L$, $2-\mu L$, or $5-\mu L$ sample loops only Up to 1:100 Dilution range < or =0.5 %RSD for caffeine peak area, full-loop injection Injection precision (without dilution) Injection precision (with dilution) < or =1.0 %RSD for caffeine peak area, full-loop injection 1 to 50 dilution factor Dilution linearity > or =0.999 coefficient of deviation 1 to 50 dilution factor Sample carryover < or = 0.01% of the previous injection for caffeine Needle wash solvent consumption Variable (configured by user) Sample wash solvent consumption Variable (configured by user) Diluent solvent consumption Variable (configured by user). Minimum injection cycle time Variable depending injection mode (configured by user) Minimum on-line sample volume Variable based on injection mode, tubing I.D., and length required (configured by user)

ACOUITY UPLC PROCESS SAMPLE MANAGER

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Sample compartment temperature stability	± 0.5 °C from set point measured at the control sensor	
Sample compartment temperature accuracy	± 1.0 °C from set point measured at the control sensor	
Sample compartment temperatur distribution	$\pm 3~^\circ\text{C}$ from set point as measured in air, not in a vial	
Sample compartment cooling time	<60 minutes from 30 to 4 °C	

ENVIRONMENTAL SPECIFICATIONS

Acoustic noise	<65dBA
Operating temperature range	4.0 to 40.0 °C (39.2 to 104.0 °F)
Operating humidity range	20% to 80% non-condensing

ELECTRICAL SPECIFICATIONS Power requirement 100 to 240 VAC Line Frequency 50 to 60 Hz Power consumption 450 VAC

PHYSICAL SPECIFICATIONS		
Width	13.5 in (34.3 cm)	
Height	21.25 in (54 cm)	
Depth	26.5 in (67.3 cm)	

* Additional process/reactor lines can be added with use of an external valve



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