



M3 MicroLC and M3 MicroLC-TE Specifications

The SCIEX M3 MicroLC Systems' microflow rate regime improves the sensitivity of LC-MS workflows. By injecting the same mass of sample on column, LLOQs are lowered up to 10X.

SYSTEM SPECIFICATIONS	VALUE
PUMP	
Flow rate range	
Analytical gradient	5-50 $\mu\text{L}/\text{min}$ or 20-200 $\mu\text{L}/\text{min}$ (depending on model)
Loading gradient (TE model only)	20-200 $\mu\text{L}/\text{min}$
Maximum pressure	10,000 PSI
Retention time reproducibility	< 0.5% RSD (@20 $\mu\text{L}/\text{min}$; 5-50 $\mu\text{L}/\text{min}$ model)
Gradient delay volume	< 3 μL
Wetted parts	Stainless steel, titanium, PEEK, Fused Silica, FEP, PTFE, and ceramic
AUTOSAMPLER	
Sample capacity	6 micro titer plates (96 or 384 well) 6 vial adapters for 54 x 2 ml vial
Injection/auxiliary valve (TE model only)	6 port 6-32 thread size (1/32") Port-to-port volume < 60 nL
Injection needle	Stainless steel; 22S gauge (0.15 mm ID)
Syringe	100 μL
Injection volume range	2-50 μL
Injection volume precision	< 1% RSD full loop < 2% RSD partial loop
Carryover	< 0.005% (benzophenone)
Sample compartment temperature range	4 - 40° C (ambient must be 24° C or less to reach 4° C)
Wetted parts	Stainless steel, PEEK, FEP, glass
OVEN	
Temperature range	Ambient +5°C to 60 °C
Outside dimensions (L x W x D)	10" x 1.5" x 1.5" (25 x 4 x 4 cm)
Inside dimensions (L x W x D)	8" x 3/4" x 5/8" (20 x 1.9 x 1.6 cm)
SYSTEM	
Dimensions (L x W x D)	33.5" x 22.8" x 27.6" (85 cm x 58 cm x 70 cm) Add 14 cm (5.6 inches) to width for the optional bottle rack
Weight	110 pounds (50 kg) 140 pounds (64 kg), TE model

SYSTEM SPECIFICATIONS	VALUE
SYSTEM (continued)	
Power	100 V - 240V AC; 250 VA
Working temperature	15-30 °C
I/O	
Communication	USB
TTL	Run in
Contact closure	Ready out/Run out/Valve out/2 programmable auxiliary
Instrument control	Controlled by SCIEX Analyst® 1.6.2 software or higher, and TF 1.7 software or higher

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