

For more information, please contact us:

[ExpotechUSA](#)
[10700 Rockley Road](#)
[Houston, Texas 77099](#)
[USA](#)

[281-496-0900 \[voice\]](#)

[281-496-0400 \[fax\]](#)

E-mail: sales@expotechusa.com

Website: www.ExpotechUSA.com

Orion Sage® Syringe Pumps

Orion Sage Syringe Pumps are driven by a precision stepper motor to deliver or withdraw accurate volumes. These pumps can be used to accurately and reproducibly inject samples or other solutions into a variety of analytical systems.



Orion Sage Syringe Pumps Orion 365/362/361

- Sage Ruggedness and Reliability
- Easy-to-use
- Versatile Pump Used in a Variety of Industries

Rugged, user-friendly Sage pumps are used to inject samples into analytical equipment, such as AA spectrophotometers, or in biomedical research. Driven by a precision stepper motor with self-lubricating gears for long life, the pumps maintain uniform flow at all speeds. Accommodates one syringe from 10 μ L to 100 mL, or any three syringes up to 60 mL each. Spring-loaded holder secures syringe

in position. Adjustable endpoint limiter to protect syringe during infusion or withdrawal. The durable pump case is molded from high-impact resin. Syringes must be ordered separately. Not for use on humans.

Orion Sage[®] Syringe Pumps

Orion 365, 362 & 361 Selection Guide

Orion #	M365	M362	M361
Infusion	•	•	•
Withdrawal	–	•	–
Direct Dialed Flow Rate	•	•	–

Orion 365, 362 & 361 Specifications

Orion #	M365	M362	M361
Modes	Infusion	Infusion/withdrawal	Infusion
Syringe Size Accepted	10 µL to 100 mL	10 µL to 100 mL	10 µL to 100 mL
Range Using a 60 mL Syringe	0 - 77.4 mL/min 4 ranges	0 - 100 mL/min 6 ranges	0.34 - 20 mL/min 0.34 - 20 mL/hr
Steps within Range	1000	1000	11
Maximum Back Pressure (60 mL Syringe)	240 kPa	240 kPa	150 kPa
Flow Accuracy	± 4% of setting ± 1% of full scale	± 4% of setting ± 1% of full scale	± 5% of nominal
Dimensions	13" x 10.2" x 5"	13" x 10.2" x 5"	13" x 10.2" x 5"
Power Requirements	AC line, 110 V or 220 V	AC line, 110 V or 220 V	AC line, 110 V or 220 V

Above data generated under optimal/controlled circumstances.

Orion 365, 362 & 361 Ordering Information

Packages #	M365	M362	M361
110V Pump	M365	M362	M361
220V Pump	M365F	M362F	M361F