

Product Models

R-E



R-DE



R99-E



R99-EJM *



R100-E



R-104A High/Low Speed Precision Microliter Syringe Pump



PHM-100VS



PHM-102 Triple infusion pump



Applications

Basic infusion at a constant rate	Dual site infusion at constant rate	Variable speed infusion	Variable Speed infusion – wider range of infusion rates	Multiple speed variable rate programmable injections; ramp infusion; start/stop infusion	Precision injection of small volumes	Variable Speed Timed Infusion	Home cage infusion of saline as well as any periodic infusion application
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Prime Features

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| <ul style="list-style-type: none"> • Single speed synchronous motor • Stop switch disconnects power when the plunger reaches the end of the syringe • Most economical option available • Interchangeable motors available from .008 - 20 RPM (See Web site for details) • Accuracy within 2% • Stainless steel and aluminum frame | <ul style="list-style-type: none"> • 2 R-E pumps mounted on a common base • Single speed synchronous motor • Stop switch disconnects power when the plunger reaches the end of the syringe • Interchangeable motors available from .008 - 20 RPM (See Web site for details) | <ul style="list-style-type: none"> • Multiple speed • Critical stainless steel components • On/off lighted rocker switch • Accuracy within 2% • Stop switch disconnects power when the plunger reaches the end of the syringe • Infusion rate is set on a 2-digit selector | <ul style="list-style-type: none"> • Infusion rate is set on a 4-digit selector • Stop switch disconnects power when the plunger reaches the end of the syringe • Critical stainless steel components • On/Off lighted rocker switch • Accuracy within 2% • Shown with RACC-6 option | <ul style="list-style-type: none"> • Precision infusion rate control • LCD Display • Syringe manufacturer & capacity selection option • External operation option • USB control option • Critical stainless steel components • Accuracy within 2% • Stop switch disconnects power when the plunger reaches the end of the syringe | <ul style="list-style-type: none"> • Uses high quality Hamilton MICROLITER™ glass syringes to ensure precise, accurate delivery • Supports three syringe sizes: 10 µl, 100 µl (included) and 500 µl • Wide range of injection rates • Unprecedented injections speeds; for example, using a 500 µl syringe, an injection volume of 100 µl can be delivered in under 100 ms • Able to inject the entire syringe volume during a single injection • USB operation facilitates use; no extra controllers required | <ul style="list-style-type: none"> • Variable Speed Syringe pump • Digitally controlled stepper motor and microprocessor controller permitting both speed and infusion time to be user-defined using switches on front panel • Selector speeds range from 0.5 – 20.0 RPM • Infusion times range from 0.1 – 99.9 seconds in 0.1 second increments • Unit connected to a 28V DC output. | <ul style="list-style-type: none"> • Ability to infuse up to 3 animals simultaneously • Flush push button • Provides infusions from 1 – 99 seconds at intervals from 1 – 99 minutes • 3.33 RPM motor • Indicator lights to identify cycle activation and infusion activation • Includes single injection mode |
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Base Price

\$289	\$552	\$552	\$599	\$799	\$1295	\$524	\$625
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Voltage

115/230 V	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V
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Infusion Rate

0.0017 – 24 ml/min 0.1 – 1440 ml/hr	0.0017 – 24 ml/min 0.1 – 1440 ml/hr	0.004 – 2.3 ml/min 0.254 – 143 ml/hr	0.0004 – 6.9 ml/min 0.025 – 414 ml/hr	0.6 µl/hr – 467 ml/hr 0.01 ml/min – 7.78 ml/min	19 – 1300 µl/sec 1.14 – 78 ml/hr	0.106 – 24.1 ml/min 6.35 – 1446 ml/hr	2.63 ml/min 158.0 ml/hr
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Syringe Size

5 ml – 60 ml	5 ml – 60 ml	5 ml – 60 ml	5 ml – 60 ml	5 ml – 60 ml	10 µl – 500 µl	5 ml – 60 ml	30 ml
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Optional Upgrade

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| <ul style="list-style-type: none"> • 230 V - \$37 • R-ACC-6 Multi Micro Syringe Adapter - \$99 • Remote Operation, Switch Closure, TTL or 28V DC: 115V - \$105 230V - \$89 • Additional motors: 115V - \$53 230V - \$63 • Insert for micro (1 ml) syringe - \$32 Rates down to .0003 ml/min (0.017 ml/hr) | <ul style="list-style-type: none"> • 230V - \$42 • Adapter to drive five 50 ml syringes - \$99 • Adapter to drive five 10 ml syringes - \$199 • Insert for micro (1 ml) syringe - \$32 Rates down to .0003 ml/min (0.017 ml/hr) • Additional motors | <ul style="list-style-type: none"> • Option J to allow flow rate to be increased by 3 times to 0.25 – 430 ml/hr - \$31 • 230 V - \$27 • Both the above - \$47 • Option M to allow the infusion rate to be decreased to 0.1 the normal rate (0.025 ml/hr – 143 ml/hr) - \$31 • Reversing Switch for Withdrawal - \$37 • Empty Syringe Alarm option - \$63 • R-ACC-6 Multi Micro (1 ml) Syringe Adapter - \$99, Rates down to 0.0007 ml/min (.04 ml/hr) • 115 V Battery Pack for Auxiliary Power - \$214 • 230 V Battery Pack for Auxiliary Power - \$263 • Computer controllable RS-232 interface and software - \$81 • Insert for micro (1 ml) syringe - \$32; Rates down to .0003 ml/min (0.017 ml/hr) | <ul style="list-style-type: none"> • 230 V - \$37 • Computer controllable RS-232 interface and software - \$81 • Combined 230 V and above - \$100 • Reversing Switch for Withdrawal - \$37 • Empty syringe alarm option - \$63 • R-ACC-6 Multi Micro (1 ml) Syringe Adapter - \$99 Rates down to 0.00007 ml/min (.004 ml/hr) • 115 V Battery Pack for Auxiliary Power - \$214 • 230 V Battery Pack for Auxiliary Power - \$263 • Insert for micro (1 ml) syringe - \$32 Rates down to .0003 ml/min (0.017 ml/hr) | <ul style="list-style-type: none"> • Computer controllable USB interface and API Software - \$99 • Reversing Switch for withdrawal - \$37 • R-ACC-6 Multi Micro (1 ml) Syringe Adapter - \$99 Rates down to 0.01 ml/hr (.00016 ml/min) • Remote Operation, Switch Closure, TTL or 28V DC - \$120 • Infusion Pump Control (IPC) Software - \$99 Rates down to 0.01 ml/hr (0.00016 ml/min) • Insert for micro (1 ml) syringe - \$32 Rates down to .0003 ml/min (0.017 ml/hr) | <ul style="list-style-type: none"> • Extra Syringes: 10 µl - \$94 100 µl - \$73 500 µl - \$75 | <ul style="list-style-type: none"> • 230 V - \$27 • Insert for micro (1 ml) syringe - \$32 Rates down to 0.017 ml/min (1.03 ml/hr) • R-ACC-6 Multi Micro (1 ml) Syringe Adapter - \$99 Rates down to 0.01 ml/hr (.00016 ml/min) | <ul style="list-style-type: none"> • 230 V - \$32 |
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