

KDS210C



Continuous Cycle Syringe Pump. The KDS210C can hold up to four syringes and can cycle continuously back and forth in a push-pull action. As two syringes are infusing, two syringes are withdrawing at the same rate. At the end of the set volume the direction is automatically reversed and the next cycle begins. With the use of 3-way valves the pump can empty and refill syringes for a continuous dispense.

Features

- Holds four syringes, 10 μ l to 60 ml each, With larger syringes the full volume may not be useable. [60 ml syr - 40 ml useable, 30 ml syr - full]
- Backlit LCD display
- Knob locks/unlocks drive block for effortless, drag-free adjustment
- Simple menu-driven setup:
 - select syringe size from displayed table
 - dispense volume
 - dispense flow rate
- Continuous dispense volume display
- Preset volume control and automatic shut-off
- Settings can be reviewed or changed during operation
- Stall detection
- Choice of unit selection
- Last settings stored in permanent memory
- Built-in RS232C interface for computer "daisy chaining" up to 100 pumps
- TTL interface for foot switch, timer, relay control, outputs for run indicator, valve control.

Specifications

Pump Type:	<ul style="list-style-type: none"> • Infusion / Withdrawal
Max. No. of Syringes	<ul style="list-style-type: none"> • Four
Syringe Size	<ul style="list-style-type: none"> • 10 μl to 30 ml
Dimensions	<ul style="list-style-type: none"> • 11 x 9 x 5.5 in. • 28 x 23 x 1414 cm
Weight	<ul style="list-style-type: none"> • 9 lb (4 kg)
Linear Force	<ul style="list-style-type: none"> • 40 lb (18 kg)
Advance Per Microstep	<ul style="list-style-type: none"> • 0.165 micron (1/16 step)
Max Step Rate (1/2 Step)	<ul style="list-style-type: none"> • 1600/sec
Min Step Rate	<ul style="list-style-type: none"> • 1 step / 30 sec.
Accuracy	<ul style="list-style-type: none"> • \pm < 1%
Reproducibility	<ul style="list-style-type: none"> • \pm 0.1%
Audible Alarm	<ul style="list-style-type: none"> • (Optional) **

Flow Rates

Syringe	Minimum	Maximum
10 ml	0.001 ml/h	22.98 ml/min
25 ml	0.001 ml /h	0.884 ml/min
50 ml	0.001 ml/h	105.8 ml/min
100 ml	0.001 ml /h	212.6 ml/min
250 ml	0.001 ml/h	527.6 ml/min
500 ml	0.001 ml /h	1.06 ml/min
1 ml	0.001 ml/h	2.203 ml/min
3 ml	0.001 ml /h	7.36 ml/min
5 ml	0.001 ml/h	14.33 ml/min
10 ml	0.001 ml /h	20.91 ml/min
20 ml	0.001 ml/h	36.19 ml/min
30 ml	0.001 ml /h	46.49 ml/min