



Precision Liquid Control Move It - Control It - Measure It

LAB PROCESS INTEGRATION

NovaSync™ DUAL 2-1



The NovaSync™ Dual channel pump is the newest addition to the Encynova pump line made by Car-May LLC.

The exceptionally accurate NovaSync™ is housed in a durable chemically resistant enclosure with a power supply, touch screen controller and backlit display. The simple user interfaces guides you through Metering and Dispensing menus for accurate liquid delivery every time.

The pump can be used as two separate channels with rates of 0-60 ml/min each. Or in the NovaSync™ mode at 0-120 ml/min. In either mode pressures as high as 250psi can be achieved.

With the Dilution software module the NovaSync can perform simple, serial and other dilutions using the on screen menu functions.

The Profile Dispense software module allows users to set up to ten separate dispense steps for crystallizations. Dispense profiles may be named, edited and saved.

Mode of Operation	Description	Range	Data Entry Units
Two channel Metering	Two separate fluid channels with individual rate control	10* uL/min – 60 mL/min per channel	uL/sec, uL/min mL/min
NovaSync Metering	Continuous single flow of fluid with reduced pulsation	1* uL/min – 120 mL/min	uL/sec, uL/min mL/min
Two channel Dispensing	Two separate fluid channels with individual volume and time controls	10* uL – 10 L	Vol: uL or mL Time: 0.1sec, seconds, Minutes, hours
NovaSync Dispensing	Single fluid channel with volume and time controls, with reduced pulsation	1 uL – 10 L	Vol: uL or mL Time: 0.1sec, seconds, Minutes, hours

* Exact lower limit dependant on software modules loaded

Features NOW AVAILABLE WITH DILUTION FUNCTIONS OR PROFILE DISPENSE (CRYSTALLIZATION) SOFTWARE!!!

- Two channels OR one low pulsation channel
- No valves to clog or jam!
- Pressures up to 250 psi (18bar)
- Self Priming; Good for a Wide range of fluid viscosities
- Seal life >20 million cycles – field re-buildable in minutes!
- Control using touch screen or RS-485/232 ASCII commands

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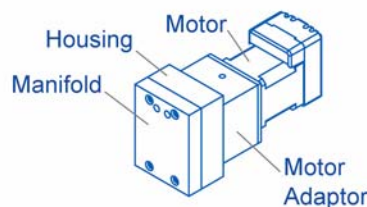
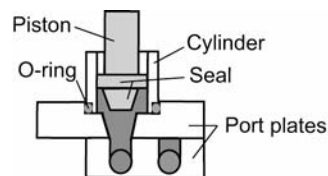
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Materials

The wetted parts of "Standard configuration" System Modules are made from chemically-resistant materials, creating a versatile, durable fluid control system. For applications that require the use of more aggressive fluids, an even more robust "Inert" wetted parts option is available. Please call us for compatibility information for specific aggressive chemicals.

Wetted Parts Materials

		Standard	Inert
Housing	2-series	Delrin™	PEEK
	16-series	Ertalyte™	Ertalyte™
Manifold		PEEK, Tefzel™,	PEEK, Tefzel™,
		316L stainless steel	316L stainless steel
Manifold O-rings		Viton™	Perfluoroelastomer
Port Plates		Ceramic Al2O3	Ceramic Al2O3
Piston Seal		Teflon™ or UHMW	Teflon™ or UHMW
Cylinder/ fluid chamber		Pyrex™ glass	Pyrex™ glass



DUAL 2-1 PUMP SIDE VIEW 1



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