

Valleyview, AB

Fort St. John, BC

TEL: 780-524-5954

TEL: 250-785-0453

Grande Prairie, AB

support@caroncontrols.net

TEL: 780-882-6599

## ELIMINATOR

### *Solar Chemical Pump*

Reliable and accurate chemical injection using an electrically driven pump. Our innovative design features low power consumption and utilizes a proven pump to provide a robust solution that is ideal for running off solar energy. Highly accurate with a wide adjustable range without changing fluid end geometry.

The electronic control unit is Class 1 Div 1 rated and is integral to the drive unit allowing installation in any area. Installation is simple, just connect 24vDC supply and that's it. Rates can be adjusted from on screen buttons, magnetic switches without removing the cover or via Bluetooth. A continuous stroke count is also maintained for compliance with carbon offset systems. The control unit can also detect issues with the injection pump such as loss of prime, broken spring, or blocked discharge line to enable alarming of conditions that would indicate chemical is not being injected.

The drive unit is capable of driving most types of pneumatic pumps electronically giving the ability to choose the right pump for the right chemical. A significant cost saving can be realized by utilizing existing equipment with only small upgrades to the pump.

The entire system is constantly lubricated to produce a completely maintenance free design. No sliding linkages or gears to grease. If a diaphragm fluid end is equipped, this additionally eliminates any potential issues with packing.

The Dual drive option can double the injection rate or give the ability to inject 2 different chemicals at a completely independent rate. Most competing multi head designs make it difficult to adjust the rate of one pump without effecting the other heads. The ELIMINATOR design operates completely independently. One pump rate can be adjusted or stopped completely without effecting the other pump.



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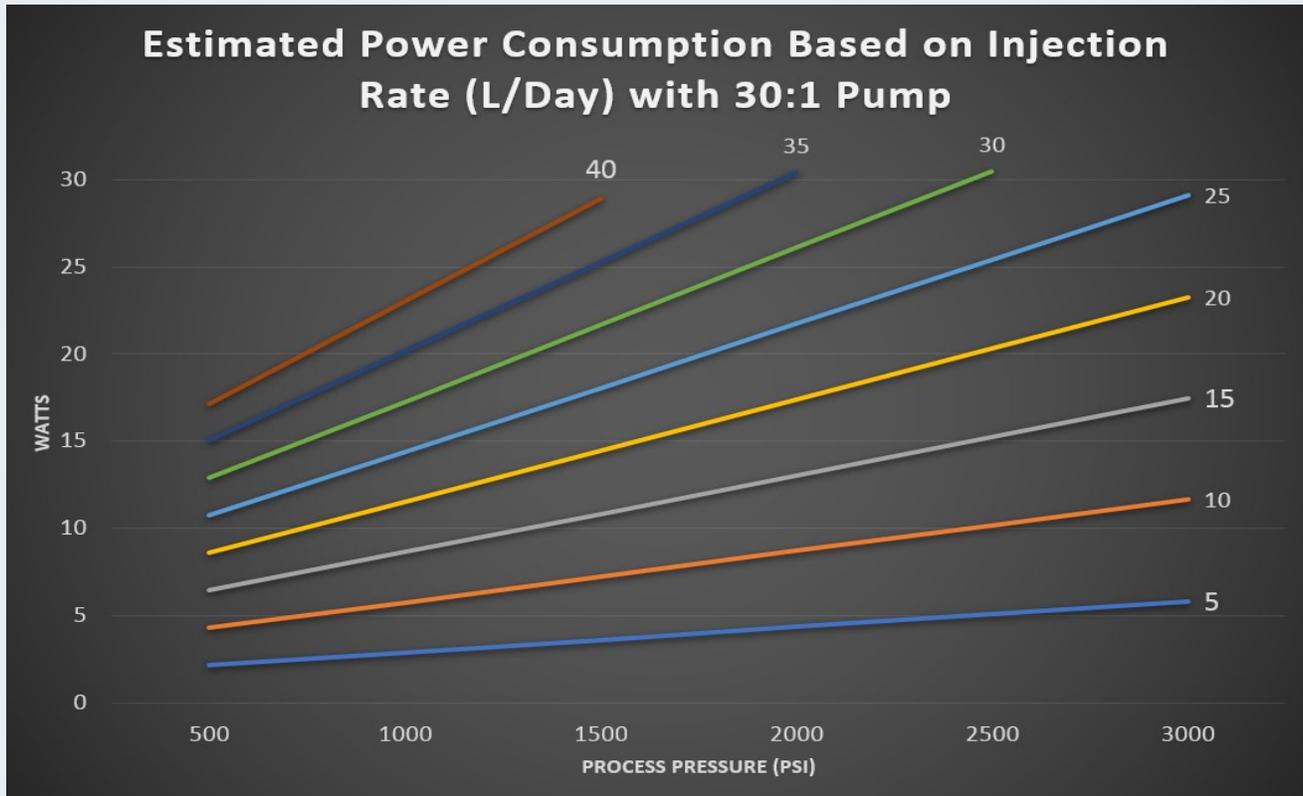
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## Estimated Power Consumption



\*This is provided for estimation purposes only. Actual consumption may vary. It was gathered on the test bench using a Single 30:1 ratio pump such as a Williams P500V300. Rates and pressures outside of this range are available.

Supply Voltage	18—30 VDC	Local User Interface	LED Backlit Display, Bluetooth LE Mobile App, Faceplate Buttons x4, Magnetic Reed Switches x4
Maximum Current Draw	4.5A (Single), 9A (Dual)	External Connectivity	RS485, Pulse Output, Discrete Input/Output, Analog Input/Output
Input Power Connections	3/4" NPT Conduit connection w/ 10AWG Flying Leads	Communication Protocol	Modbus RTU
Minimum Power Wire Size	12 AWG	Maximum Hydraulic Pressure	80psi
Area Classification	Class 1 Division 1, T2D		
Adjustable Resolution	0.1 L/Day		
Minimum Rate	0.1 L/Day (Lower Available)		
Maximum Rate	40 L/Day (Higher Available)		

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