

TR5100

Chemical Injection Pump

- Maximum injection pressure of 9000 psi
- Automation is compatible with SCADA through MODBUS connections
- Remote control based on pressure, temperature, and/or chemical tank volume
- Compatible with majority of injection heads commonly available on market

ELECTRICAL & CONTROL

Parameter	Value
Motor Type	PMAC 24V 3 Phase
Voltage Range	20 to 34 VDC
Max Power Consumption	6 Amps
Controller Type	Minimizer, TSC 1000
Communication Interface	SCADA, MODBUS

MECHANICAL SPECIFICATIONS

Parameter		Value
Dimensions (H x W x L)	Single-Sided	9" x 10.7" x 16.4"
Weight	Single-Sided	35 lbs

PRODUCT OVERVIEW

The Trido TR5100 is a premier, emissions-free chemical injection solution designed specifically to meet the environmental and operational challenges of the modern oil and gas industry. Engineered for the harshest climates, this rugged pump operates reliably in extreme temperatures, ensuring consistent chemical delivery for corrosion, scale, or methanol treatment. With advanced SCADA integration via MODBUS, operators gain precise remote control over injection rates.

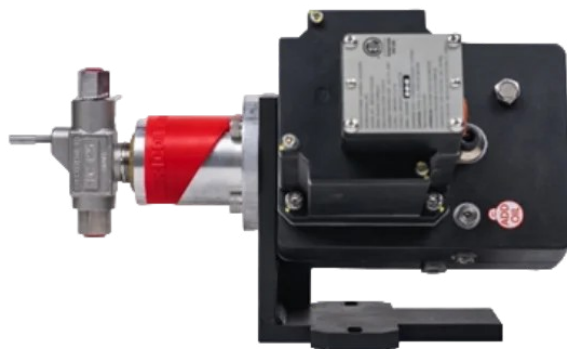
Configuration Options: Solar skid mounting available

Compliance & Certification:

- Class 1 Div 1 Groups C & D
- Emissions-free and Carbon Credit Compliant

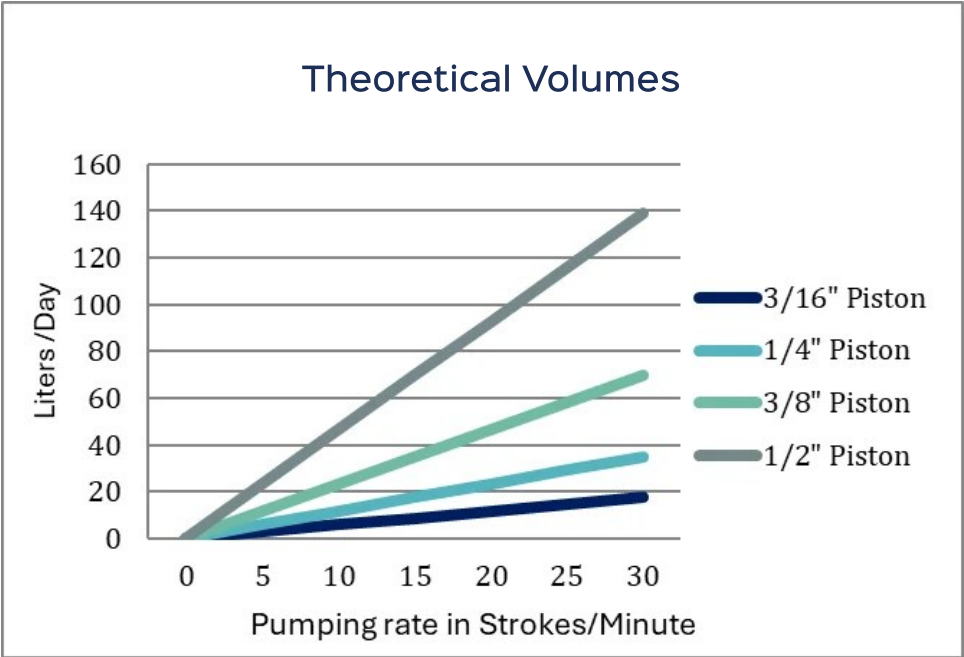
Warranty Period: 4 years

Operating Temperature: -40 to 40 °C



TRIDO TR5100 INJECTION PUMP PERFORMANCE DATA AND CURVES

SINGLE HEAD FLOW RATE/EFFICIENCY



VOLUME FOR 5100 STYLE FLUID ENDS (L/DAY)

Strokes/Minute	1	5	10	20	30	32.9
3/16" Piston	0.58	2.9	5.8	11.6	17.4	19.1
1/4" Piston	1.2	6	11.6	23.2	34.7	39.5
3/8" Piston	2.3	11.5	23.2	46.6	69.5	75.6
1/2" Piston	4.6	23.2	46.3	92.6	138.9	152.3

VOLUME FOR 5000 STYLE FLUID ENDS (L/DAY)

Strokes/Minute	1	5	10	20	30	32.9
3/4" Piston	10	50	100	205	310	340
1" Piston	18	90	180	370	550	585
1-1/4" Piston	27	140	280	565	860	915
1-1/2" Piston	40	205	410	830	1250	1300

SINGLE SIDED 1 HEAD

MAXIMUM OPERATING PRESSURES FOR SINGLE-HEAD FLUID END AT 32 STROKES PER MINUTE

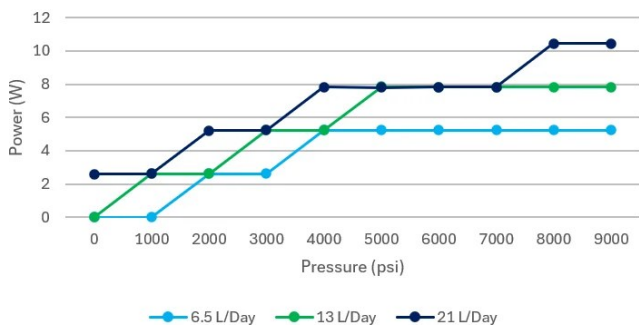
Piston size 5100 Series Fluid End	Maximum Pressure
3/16" Piston	9000 PSI
1/4" Piston	6500 PSI
3/8" Piston	4000 PSI
1/2" Piston	2000 PSI

* All pump heads operating above 3000 psi must include Hard Packing

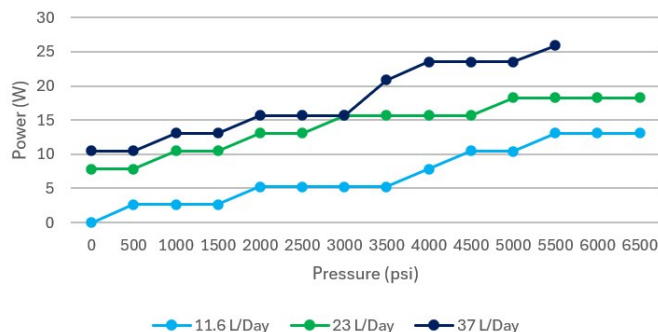
MECHANICAL SPECIFICATIONS

Parameter		Value
Dimensions (H x W x L)	Adjustable Head	9" x 10.7" x 19.2"
	Non-Adjustable Head	9" x 10.7" x 16.4"
Weight	Adjustable Head	35 lbs
	Non-Adjustable Head	35 lbs

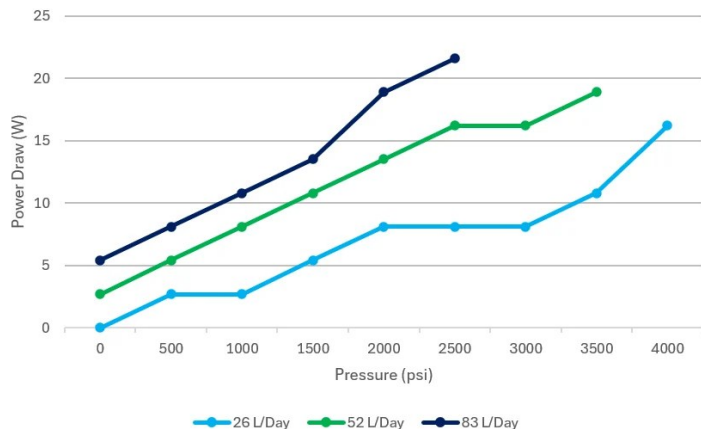
Average Power Draw of 3/16"- TR5100
Single-Sided 1-Head Pump



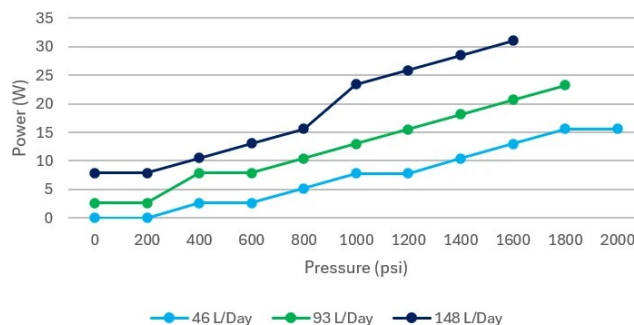
Average Power Draw of 1/4"- TR5100
Single-Sided 1-Head Pump



Average Power Draw of 3/8"- TR5100
Single-Sided 1-Head Pump



Average Power Draw of 1/2"- TR5100
Single-Sided 1-Head Pump



SINGLE SIDED 2 HEAD

MAXIMUM OPERATING PRESSURES FOR SINGLE SIDED 2 HEAD FLUID END AT 32 STROKES PER MINUTE

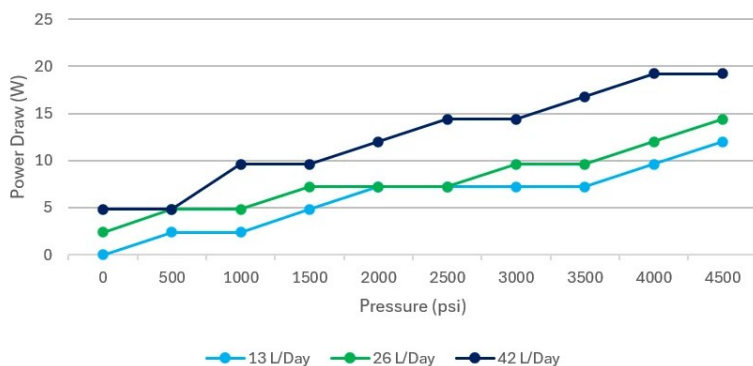
Piston Size	Maximum Pressure
3/16" Piston	4500 PSI
1/4" Piston	4000 PSI
3/8" Piston	2000 PSI
1/2" Piston	1000 PSI

* All pump heads operating above 3000 psi must include Hard Packing

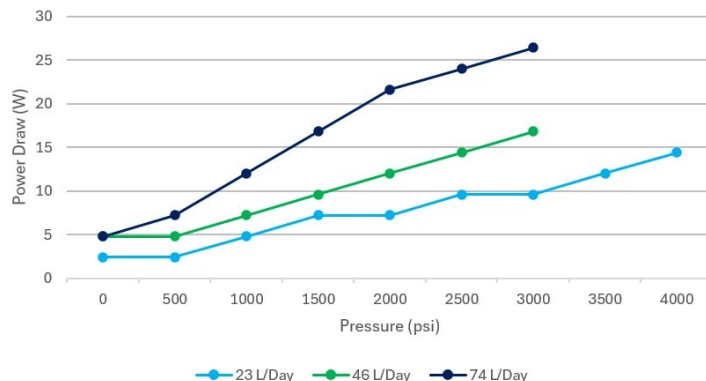
MECHANICAL SPECIFICATIONS

Parameter		Value
Dimensions (H x W x L)	Single Sided	9.5" x 19.4" x 11"
Weight	Single Sided	44.4 lbs

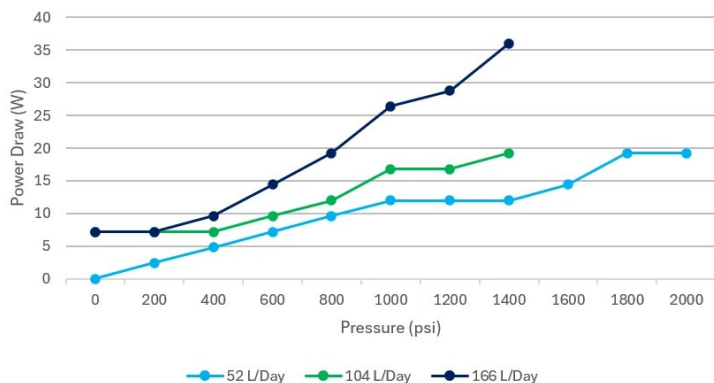
Average Power Draw of 3/16"- TR5100
Single-Sided 2-Head Pump



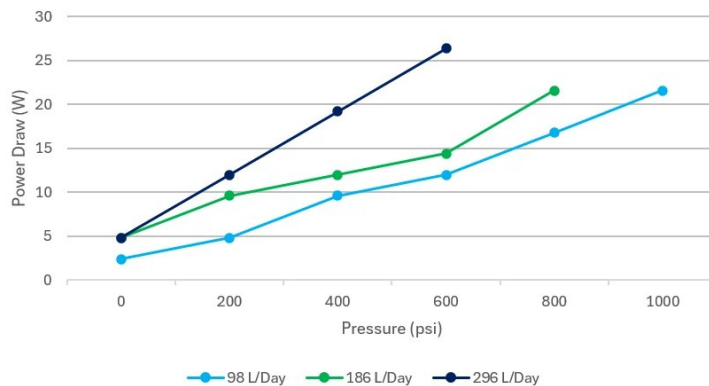
Average Power Draw of 1/4"- TR5100
Single-Sided 2-Head Pump



Average Power Draw of 3/8"- TR5100
Single-Sided 2-Head Pump



Average Power Draw of 1/2"- TR5100
Single-Sided 2-Head Pump



DUAL SIDED 2 HEAD

MAXIMUM OPERATING PRESSURES FOR DUAL SIDED 2 HEAD FLUID END AT 32 STROKES PER MINUTE

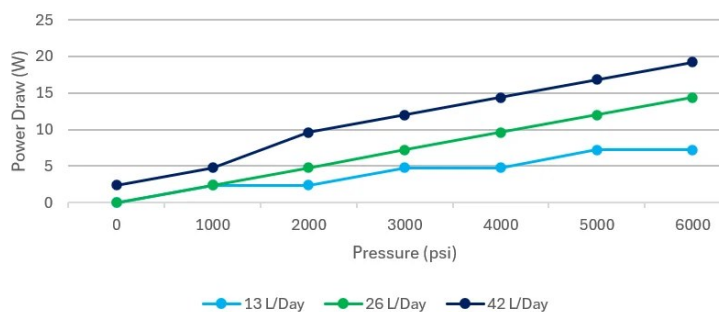
Piston Size	Maximum Pressure
3/16" Piston	6000 PSI
1/4" Piston	5000 PSI
3/8" Piston	3500 PSI
1/2" Piston	2000 PSI

* All pump heads operating above 3000 psi must include Hard Packing

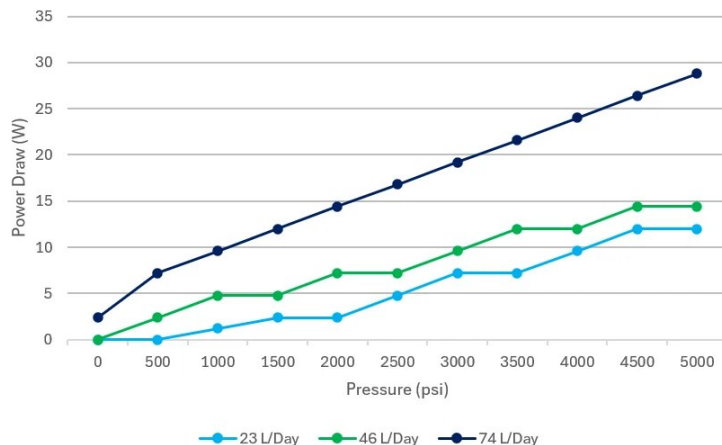
MECHANICAL SPECIFICATIONS

Parameter		Value
Dimensions (H x W x L)	Dual sided	12.2" x 25.5" x 9.9"
Weight	Dual Sided	40 lbs

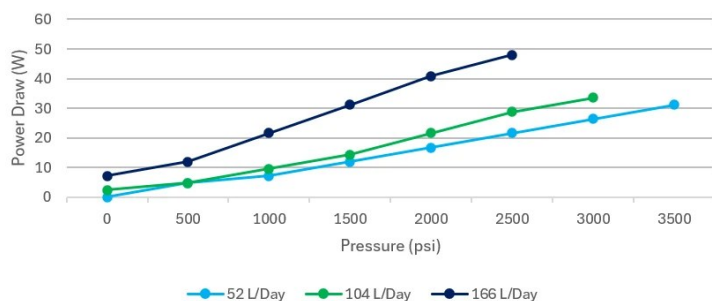
Average Power Draw of 3/16" - TR5100
Dual-Sided 2-Head Pump



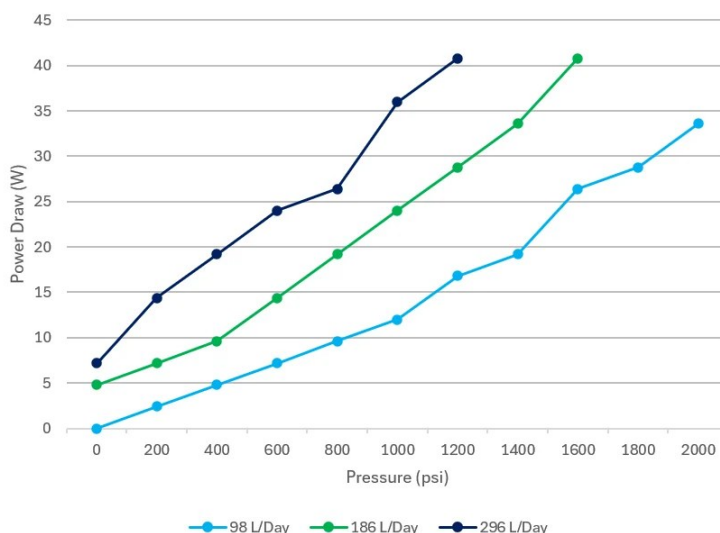
Average Power Draw of 1/4" - TR5100
Dual-Sided 2-Head Pump



Average Power Draw of 3/8" - TR5100
Dual-Sided 2-Head Pump



Average Power Draw of 1/2" - TR5100
Dual-Sided 2-Head Pump



DUAL SIDED 4 HEAD

MAXIMUM OPERATING PRESSURES FOR DUAL SIDED 4 HEAD FLUID END AT 32 STROKES PER MINUTE

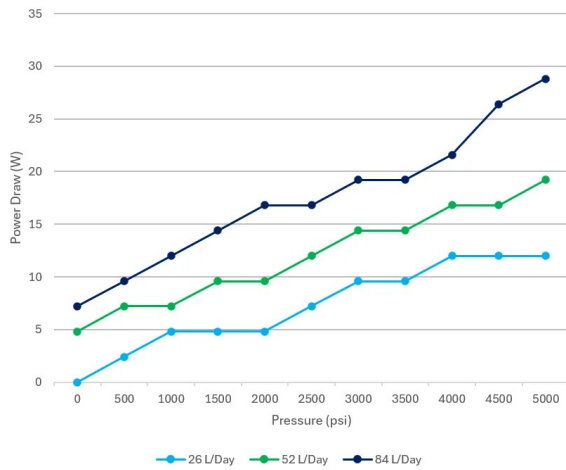
Piston Size	Maximum Pressure
3/16" Piston	5000 PSI
1/4" Piston	3000 PSI
3/8" Piston	1600 PSI
1/2" Piston	1000 PSI

* All pump heads operating above 3000 psi must include Hard Packing

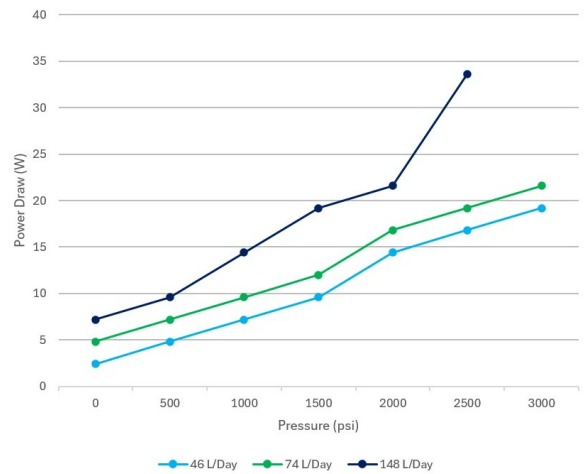
MECHANICAL SPECIFICATIONS

Parameter		Value
Dimensions (H x W x L)	Dual Sided	12.2" x 25.5" x 11"
Weight	Dual Sided	60.8 lbs

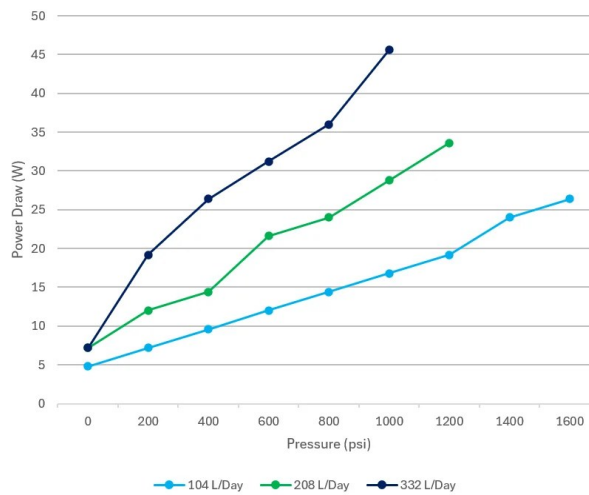
Average Power Draw of 3/16"- TR5100 Dual-Sided 4-Head Pump



Average Power Draw of 1/4"- TR5100 Dual-Sided 4-Head Pump



Average Power Draw of 3/8"- TR5100 Dual-Sided 4-Head Pump



Average Power Draw of 1/2"- TR5100 Dual-Sided 4-Head Pump

