

Aggressive Plating Pumping

Plating processes have introduced new pumping challenges. Super-saturated plating solutions can form crystals or suspend solids that shorten the life of any pump.

A customer approached Trebor with this exact problem — a pump that failed within four weeks due to wear and chemical attack. To show the customer how reliable Trebor pumps were in these aggressive environments, Trebor's engineers created a head-to-head pump life test. The test involved competing pump products and Trebor's own Maxim 50 pump. During the 6-month test that mirrored the customer's aggressive chemical application, competing pumps slowly stopped working. At the end of the test, only the Maxim 50 was still running.

After testing, the customer switched to the Maxim 50 pump for this chemically aggressive application.



Maxim 50 Pump

Construction

- ▶ Non-penetrated, double layer PTFE diaphragm for long life; exceeding 100 million cycles in most applications
- ▶ Patented (5,370,570), floating PTFE check valves for maximum suction lift for quick, easy inspection and maintenance
- ▶ Quick-release mounting base
- ▶ Integrated pulsation dampening and leak detection available
- ▶ Clean room assembled, tested, and packaged
- ▶ Two-year, no maintenance warranty

Performance Summary

Maximum Operating Pressure*	English	Metric
▶ Recirculation Control Base (R)	60 psig	0.42 MPa
▶ Chemical Delivery Control Base (D)	80 psig	0.55 MPa
▶ External Control Base (E & U)	80 psig	0.55 MPa
▶ Maximum Output**	13 gpm	50 lpm
▶ Dry Prime Suction Lift**	13 Feet	4 Meters
▶ Maximum Inlet Head**	13 Feet	4 Meters
▶ Starting Air Pressure	15 psig	0.11 MPa
▶ Maximum Chemical Temperature	356 °F 212 °F	180 °C (R, E, U) 100 °C (D)

* Maximum operating pressure is 45 psig (approximately 3.2 kg/cm³) when pumping liquids greater than 100 °C

** Performance measurements taken with ambient temperature DI Water.



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