

MT 600 Injection Pump



Direct Injection Advantages

- The main carrier tank is loaded with clean water, not mixed chemicals.
- Concentrated chemical is accurately injected and mixed just prior to being sprayed out the boom.
- Reduced operator exposure to chemical concentrates
- No pre-mixing of chemicals in the main carrier tank.
- No leftover mixed product at the end of the field to dispose.
- Unused concentrated chemical remains safe and secure in a dedicated holding tank.
- The operator can quickly change from one chemical product to another with out cleaning and rinsing the main carrier tank.
- Chemical application rates can be adjusted by varying the concentration of chemical injected into the carrier.

Positive Displacement Design

Midwest Technologies MT600 positive displacement pump utilizes a durable, chemical resistant, carbon black steel pump head. The pump head chamber has a fixed displacement output that delivers a precise volume of concentrated chemical with each piston stroke. Once the chemical is discharged from the pump head, it is directed to the carrier by a chemically resistant manifold. Internal pump head components are lubricated by a built-in oil reservoir supplying oil to all moving parts.

Pressure-Side Injection

The MT600 is designed to inject concentrated chemical directly into the main carrier stream. Injecting on the pressure side of the main product pump has the potential to simplify overall system plumbing. Thorough mixing of the chemical and carrier is accomplished with a specially designed chemical mixing chamber.

Add Capacity As Needed.

Midwest Technologies piston pump covers a wide range of output volumes. By adding optional pump heads and the appropriate manifold, the operating range can be extended from .5 oz/min to over 240 oz/min (.015 to 7 l/min). This unique design allows operators to choose the right capacity for the application.

One pump, many products.

With various combinations of the manifold, it is possible to use a single unit to inject the same rate of up to four products. The four pump heads in a single pumping unit can be connected in any configuration to match the needs of the application in terms of volume or multi-chemical support. Inject one, two, three or four different chemicals at the same time from the positive displacement pump.



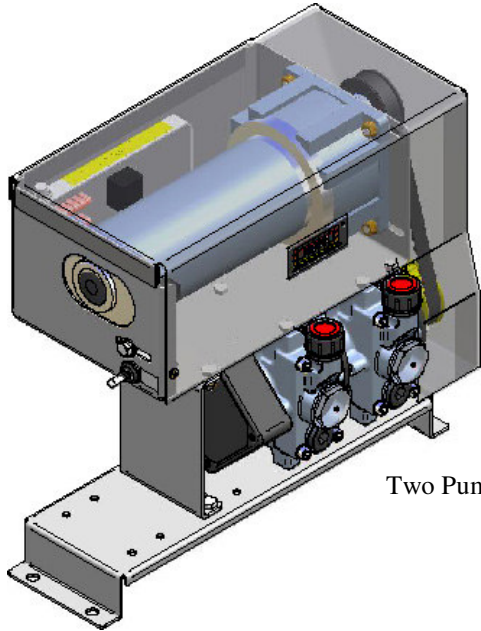
Patented Chemical Holding Tanks

Midwest Technologies two patented chemical holding tanks are made of durable cross linked polyethylene and incorporate a sloped tank base that empties to molded sump pit. This unique design allows the tank to empty completely, with minimal chemical residue. Other features include a stainless steel mounting base, vented spill-proof cap, stainless steel quick coupler and an optional agitation device.

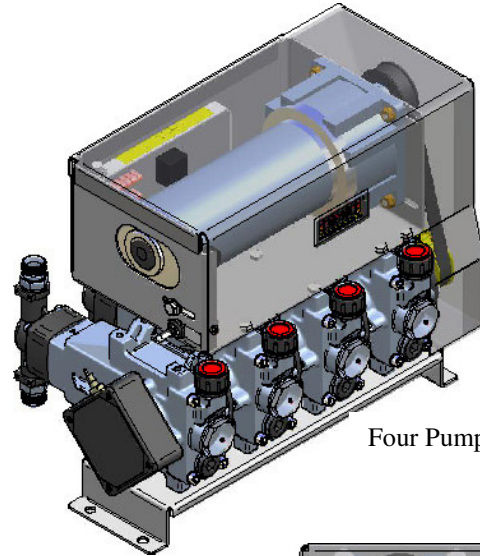
Midwest Technologies
2864 Old Rochester Road
Springfield, Illinois 62703 USA
217.753.8424
217-753-8426 fax
www.mid-tech.com

Technical Specifications

and Application Information



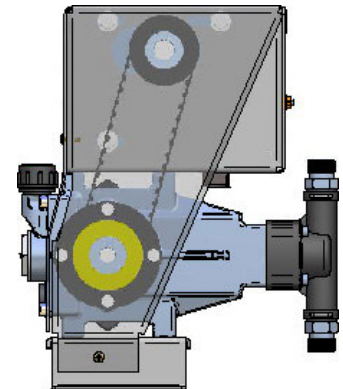
Two Pump Head Version



Four Pump Head Version

MT 600 Pump Specifications

Electrical	12 Volt DC < 15 Amps @ Max RPM
Pump Type	Positive Displacement Piston
Motor	High torque, parallel geared, sealed feedback sensor, porcelain enamel coated, IP 66 Rated. 0-225 rpm
Drive Belt.....	Fiber reinforced, toothed
Pump Head.....	Coated cast aluminum exterior, stainless steel/ceramic internal piston, oil filled lube chamber, stainless steel ball check valves
Pump Flow Path....	PA 66 nylon with fiberglass, stainless steel hardware & fittings, Teflon and Viton gaskets
Base Plate.....	Stainless steel, pre drilled
Motor Cover.....	Powder coated steel
Dimensions	10" x 12" x 16" (25.4mm x 30.5mm x 40.6mm)
Weight.....	26 - 46 lbs (11.79 - 20.87 kilos)
Operating Temp	33° - 140° F (1° - 60° C)
Manifold.....	Chemically resistant Delrin,
Fluid Output.....	0.5 - 240 oz/min (.015 to 7 l/min) (one to four head)



MT 600 Side View



7.5 Gal/28.4 Liter Chemical Tank