



*"The Leader In
Geotextile Sludge
Dewatering Systems"*

TECHNICAL INFORMATION

- The Blue River Technologies Port-A-Poly liquid make-down system is designed to meet the needs of operators with limited to moderate flocculent requirements.
- The basic unit will make down emulsion polymer at a rate of 5-15 gpm. At 10 gpm, the maximum solution concentration is 1.5%.
- A secondary dilution water option will allow up to a 20 gpm solution discharge.
- These emulsion polymer make-down systems are low cost and light weight.
- They operate on standard 110VAC power requirement. The standard system operates in a manual mode only.
- When the unit is turned on, the electric operated solenoid valve opens. The poly pump turns on and begins pumping emulsion polymer thru a check valve and into the injection tee located above the mixing head. The diluted polymer goes thru the proprietary BRT mixing chamber, thru a static mixer located on the side of the unit, then discharged out to the side of the unit and into the process.
- A disc style check valve is in the polymer line at the point of injection.
- When the operator turns off the unit, the polymer injection pump is shut down and water can continue to flow for a timed-delay period of up to 60 seconds to flush out the mixing head and lines.



Port-A-Poly Liquid Make-Down System with *Blue-White* Peristaltic Pump

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- The mixing head is specifically designed for mixing emulsion polymers. The head utilizes low pressure, high kinetic energy mixing nozzles that will thoroughly mix difficult to invert polymers.
- A secondary static mixer is used to provide additional mixing. Both mixing heads utilize a clear PVC mixing chamber allowing visual confirmation of the mixing process.
- The secondary dilution water option includes an adjustable water flowmeter and check valve and injects the dilution water in front of the secondary static mixer.
- The base and stand are constructed from polypropylene plate. All Pipe and fittings are Schd 80 PVC to provide the user years of trouble- free service.
- A round handle is provided for conveniently moving the unit from place to place.
- An optional calibration column and valve is available to allow the operator to calibrate the pumping rate of the injection pump.
- The Port-A-Poly mixer is available with the pump of your choice to meet your needs. Explosion proof models are available upon request.

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