

## ▶ Batch Polymer Blending & Injection System

Batch type polymer blending and injection system is designed for the preparation of liquid polymer to aid in the flocculation of sludge in the dewatering process.

A cost effective alternative to “in-line” polymer mixing systems, typically using less polymer per pound of sludge treated. The batch tank method allows for the time necessary to uncoil the long chain polymer molecules making them more effective in reacting with sludge solid particles.

Used in conjunction with standard solid separation devices, dewatering boxes, centrifuges, belt presses, filter presses, i.e., and other equipment requiring flocculation to enable dewatering.



▶ Visit [AFCO 360.com](http://AFCO360.com) for more information

## ▶ Features

- Heavy duty 1.9 SG polyethylene polymer tank
- Gear driven agitator mounted on MixTank
- TEFC 110V/1 ph/60 Hz. drive motor
- 175 RPM Gearbox output
- Stainless steel mixer shaft and mixer blades
- Wobble-Stator progressive cavity dilute polymer injection pump
- TEFC DC motor drive-constant torque up and down the speed range
- DC controller in NEMA-4 enclosure for pump speed control
- On/Off switch for agitator motor located in NEMA-4 box
- Static mixer for polymer/sludge interface with throttle valve
- All components mounted on a carbon steel skid with fork pockets, piped and wired

## ▶ Applications

- » Bio-solids flocculation
- » Alum sludge flocculation
- » Grease trap waste flocculation
- » Septic tank waste flocculation

## ▶ Tanks & Options

- » 500 gallon with 1 HP agitator
- » 300 gallon with 1/2 HP agitator
- » Separate skids for mix tank and pump/controls
- » 230/460V/ 3 phase motor and controls in lieu of 110V/AC
- » 2 tank systems



# CHEMICAL INJECTION SYSTEMS

Amount of Sludge to Treat per Day in Gallons	Amount of Dilute Polymer (.5%) Required to Treat Sludge at Varying % Solids in Gallons				
	0.50%	1.00%	1.50%	2.00%	2.50%
Available Tank Sizes for One Batch Treatment in Parenthesis					
1000	10(25)	20(25)	30(50)	40(50)	50(75)
2000	20(25)	40(50)	60(75)	80(120)	100(125)
4000	40(50)	80(120)	120(120)	160(300)	200(300)
6000	60(75)	120(120)	180(300)	240(300)	300(300)
8000	80(120)	160(175)	240(300)	320(500)	400(500)
10000	100(120)	200(300)	300(300)	400(500)	500(500)
12000	120(120)	240(300)	360(500)	480(500)	600(800)
14000	140(175)	280(300)	420(500)	560(800)	700(800)
16000	160(175)	320(500)	480(500)	640(800)	800(800)
18000	180(300)	360(500)	540(800)	720(800)	900(1100)
20000	200(300)	400(500)	600(800)	800(800)	1000(1100)
22000	220(300)	440(500)	660(800)	880(1100)	1100(1100)
24000	240(300)	480(500)	720(800)	960(1100)	1200(1200)
26000	260(300)	520(800)	780(800)	1040(1100)	1300(1500)
28000	280(300)	560(800)	840(1100)	1120(1200)	1400(1500)
30000	300(300)	600(800)	900(1100)	1200(1200)	1500(2100)
32000	320(500)	640(800)	960(1100)	1280(1500)	1600(2100)
34000	340(500)	680(800)	1020(1100)	1360(1500)	1700(2100)
36000	360(500)	720(800)	1080(1100)	1440(1500)	1800(2100)
38000	380(500)	760(800)	1140(1200)	1520(1550)	1900(2100)
40000	400(500)	800(800)	1200(1200)	1600(2100)	2000(2100)