

TANK MIXER SELECTION GUIDE

Tanks and mixers are very useful things! They can be used to dilute and blend a chemical product to its best application strength. They can be employed to mix powders into a liquid or they can blend and activate a product like a polymer to prepare it for use. This Selection Guide will help to give you an idea of the necessary tank and mixer size, and the mixer horsepower you will need for liquids of various viscosities and chemical content. Give us a call with your details and we'll help you decide on part numbers and any accessories your system might require.

There are a lot of factors that determine just which tank or mixer to choose for your job. Some of those factors include pump feed rate, your desired batch size (and how frequently you want to refill your tank), the dimensions of the tank you select, solution temperature, the solids load, viscosity, and the specific nature of your chemical. In turn, those details determine the type of mixer motor, motor rpm, whether an impeller or propeller is used, materials of construction and shaft length, for example. We have found that a tank constructed of high density linear polyethylene is suitable for most applications. The mixer part numbers in the table show flange or bracket mount styles. Larger tanks (100 gallons and up) will likely call for a reinforced tank cover to carry the weight of the mixer, although different types of mixer mount are available (i.e., clamp or thread).

The table below has the kind of fluid to be mixed, tank volume, suggested mixer horsepower and rpm, and part numbers for a standard mixer and tank in each category.

FLUID	30 Gallon	50 Gallon	100 Gallon	275 Gallon	500 Gallon
Two or more Light Liquids (1 Centipoise)	1/20 HP/1725 RPM (10591/10335)	1/20 HP/1725 RPM (10590/10350)	1/4 HP/1725 RPM (B1TEPRP/PE100)	1/3 HP/1725 RPM (B2TEPRP/PE275)	1/2 HP/1725 RPM (B3TEPRP/PE500)
Liquid & Soluble Powders (100 Centipoise)	1/20 HP/1725 RPM (10591/10335)	1/4 HP/1725 RPM (F1TEH/10350)	1/3 HP/1725 RPM (B2TEPRP/PE100)	1/2 HP/1725 RPM (B3TEPRP/PE275)	1/2 HP/1725 RPM (B3TEPRP/PE500)
Liquid & Soluble Powders (250 Centipoise)	1/4 HP/1725 RPM (F1TEH/10335)	1/4 HP/1725 RPM (F1TEH/10350)	1/2 HP/1725 RPM (B3TEPRP/PE100)	1 HP/1725 RPM (B4TEPRP/PE275)	1 HP/1725 RPM (B4TEPRP/PE500)
Light Slurries (5% Solids) & Polymers (500 Centipoise)	1/4 HP/1725 RPM (F1TEH/10335)	1/4 HP/1725 RPM (F1TEPRP/10350)	1 HP/1725 RPM (B4TEPRP/PE100)	1/3 HP/350 RPM (WXL20B/PE275)	1/3 HP/350 RPM (WXL20B/PE500)
Medium Slurries (20% Solids) & Polymers (1000 Centipoise)	1/4 HP/1725 RPM (F1TEH/10335)	1/3 HP/1725 RPM (F2TEPRP/10350)	1/3 HP/350 RPM (WXL20B/PE100)	1/3 HP/350 RPM (WXL20B/PE275)	1/3 HP/350 RPM (WXL20B/PE500)