





*Powder capacity with hand-held wand

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Comparison Table













PT-C/Q-LS

Double Wall Design

(Low Shear Stator/Rotor)

PT-C/Y

PT-C/F

Special Stator Rotor

Two Pumps Design

The PerMix PT-C/Q powder liquid mixer is one of the most common type which is also called Tri-blender. It has two key parts, a casing pipe and a stator rotor system. The casing pipe is built vertically and coaxially into the stator rotor system inlet. This double-wall design prevents the powder going through the casing pipe contacting the liquid and forming lumps before they both arrive at the stator rotor system. As the rotor running at high speed during operation, liquid enters the chamber and a water ring is created.	PerMix PT-C/Y series Powder Induction Mixer has a very specially designed stator/rotor, which works by the principle of a water ring pump, that is able to produce relatively high vacuum; this vacuum makes the PT-C/Y Powder Induction Mixer able to suck the powder through a hand-held wand from a bag or other container at ground level. The powder can also be incorporated from a vertical hopper by gravity at a much higher powder sucking rate.	The PT-C/F Powder Liquid Mixing System is designed with the combination of a self-priming pump and an inline homogenizing mixer.
 Low shear mixing is a gentle and less forceful process that is ideal for miscible materials that don't require a lot of energy or force to combine. It is also suitable for delicate materials. It's designed for rapidly mixing powder into liquid in an efficient way. It provides various functions such as high-volume powder induction, dispersing of "difficult-to-wet" powder, handling fine dusty powders, homogenizing, and emulsifying. 	 It's designed for rapidly mixing powder into liquid in an efficient way. It provides various functions such as high volume powder induction, dispersing of "difficult-to-wet" powder, handling fine dusty powders, homogenizing, and emulsifying. The powder can also be incorporated from a vertical hopper by gravity at a much higher powder sucking rate. 	The self-priming pump draws the liquid from an external container, and when the liquid passes through a venturi pipe which is located at the bottom of a powder hopper, vacuum is generated there and sucks the powder from above. The powder/liquid mixture will first pass through the self-priming pump, and later get further sheared and dispersed at the inline homogenizing mixer.
<i>Liquid - Powder</i> From 15.000 Lt/hr - 5~20 kg/min to 40.000 Lt/hr - 30~120 kg/min	<i>Liquid - Powder</i> From 10.000 Lt/hr - 1~3 kg/min * to 100.000 Lt/hr - 8~50 kg/min *	<i>Liquid - Powder</i> From 4.000 Lt/hr - 15 kg/min to 30.000 Lt/hr - 190 kg/min
Food and Beverages, Dairy Care, Chemical, Pharmaceutical and Nutraceutical.	Food and beverages, Pharmaceutical and Nutraceutical.	Food and Beverages, Pharmaceutical and Nutraceutical.
1.500-3.000 RPM	1.500-3.000 RPM	3000 RPM (Mixer) 1.500 RPM (Pump)
3 - 22 kW	7.5 - 160 kW	4 kW (Mixer) 1.5kW (Pump) 30 kW (Mixer) 7.5kW (Pump)
3 kW - 4 hp (рт-с/q-ls1)	7.5 kW - 10 hp (PT-C/Y-120)	4 kW (Mixer) 1.5kW (Pump) (PT-C/F-120)

