



POWDER-MAX

Quickly Blend Wet and Dry Ingredients

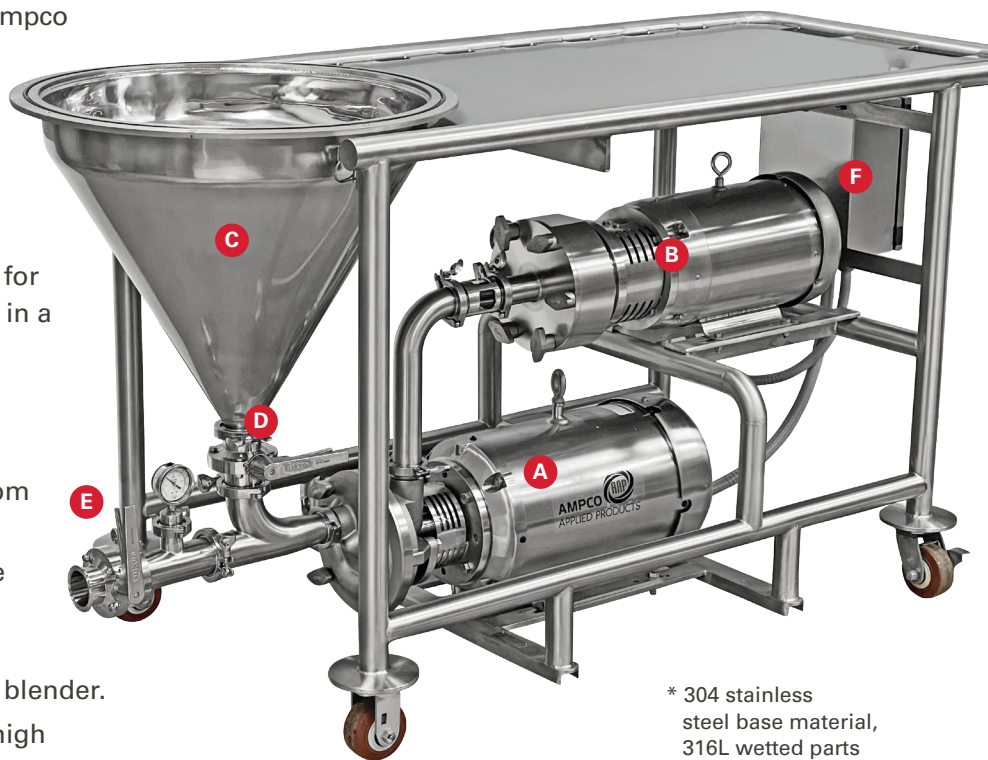
EFFICIENCY AND PRECISION WITH NO BATCH SIZE LIMITS

Reduce processing time with optimal product consistency and no batch size limitations. The Ampco Applied Products POWDER-max delivers!

Our innovative CIP-able POWDER-max features an ergonomically designed tabletop to facilitate limitless production runs. The fully customizable streamlined and operator-friendly POWDER-max safely allows for the quick blending of wet and dry ingredients in a single, fully portable unit.

How it Works

- The fluid from the batch tank is drawn in from the self-priming SP liquid ring feed pump.
- Powder and fluid meet in the induction tube when the hopper's valve is opened.
- Mixing begins in the SP pump, then flows through a short transfer tube into the shear blender.
- The standard option shear blender runs at high speeds to continue the process of efficiently mixing the fluid and powder.
- The final mixture is then pumped into a batch or process tank.
- Ampco Applied Products engineers understand that one size does not fit all and offer many custom options or adaptations to the POWDER-max to fit your application needs.



* 304 stainless steel base material, 316L wetted parts

Key Components

- | | |
|-----------------------------------|---------------------------------|
| A. Feed pump- SP liquid ring pump | D. Powder control valve |
| B. Ampco shear blender/ mixer | E. Fluid control valve |
| C. Powder hopper | F. Dual-motor starter - NEMA 4X |

Options

Custom Components:

- | | |
|---------------------------|------------------------|
| • Hopper lids | • Hopper level sensors |
| • Bulk bag connectors | • Pressure switches |
| • Hopper screens | • VFD control unit |
| • Hopper vibrators | • Custom table designs |
| • Pneumatic valves | |
| • Explosion-proof options | |

Feed Pump:

The POWDER-max is available with several feed pump options to match product viscosity with the proper flow rate.



SP Liquid Ring Pump - Standard Option

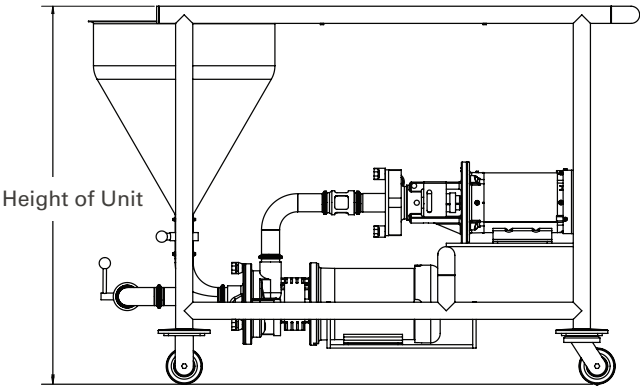
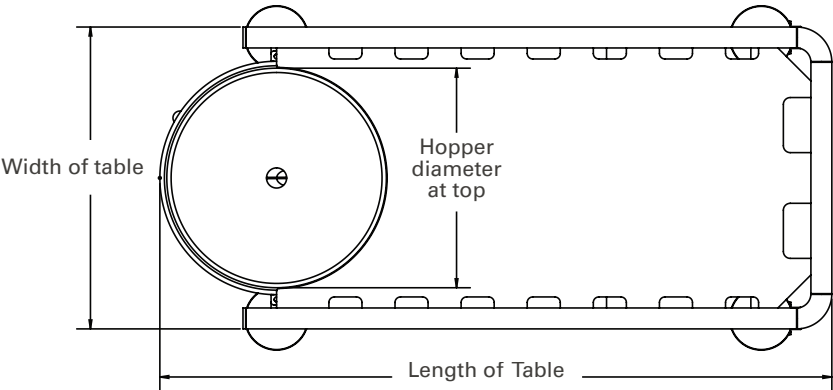
Self-priming, suited for products with planned or unplanned entrained air while maintaining specified performance and efficiency levels.

Additional feed pump options:

- ZP Series — Circumferential Piston
- AL Series — Rotary Lobe
- SLH — Twin Screw

Specifications

	PM210	PM215	PM220	PM225
Performance				
SP Model and Power	SP210 – 7.5 HP	SP215 – 10 HP	SP220 – 15 HP	SP225 – 20 HP
Liquid Flow (Approx)	30-65 GPM	65-100 GPM	100-140 GPM	120-175 GPM
Power Induction Rate	50-100 lbs/min	75-200 lbs/min	125-450 lbs/min	200-700 lbs/min
Thickener Induction Rate	5-25 lbs/min	10-50 lbs/min	15-75 lbs/min	20-100 lbs/min
Dimensions				
Inlet and Outlet Sizes (Respectively)	2.5"/2"	2.5"/2"	2.5"/2"	2.5"/2"
Hopper Capacity (Approx by Vol)	2.0 cu ft/14.7 gal	2.2 cu ft/16.3 gal	2.2 cu ft/16.3 gal	2.2 cu ft/16.3 gal
Hopper Diameter at Top	20"	24"	24"	24"
Width of Table	27.4"	31.9"	31.9"	31.9"
Length of Table	61.0"	75.5"	75.5"	92"
Height of Unit	38.2"	37.7"	37.7"	37.7"

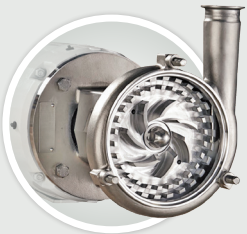


Mixers:

The POWDER-max will be configured with one of the inline mixer options below to achieve maximum efficiency and the desired product mixture.



SBH
Shear Blender
Multiple shearing teeth supply moderate-to-high shear and good product flow



SBI
Shear Pump
Pumps and blends in a single stage with medium shear and great product flow



SHEAR-max
High Shear Mixer
Single or dual-stage high-shear mixer, can disperse, dissolve, emulsify, de-agglomerate, homogenize, or blend



Product Application List

Beverage

Energy Drinks
Tea
Fruit Juice
Vegetable Juice
Coffee Blends



Food

Salad Dressing
Salsa
Hot Sauce
Pizza Sauce
Ketchup and Mustard



Dairy

Yogurt
Sour Cream
Ice Cream Mix
Flavored Milk
Eggnog
Pudding



Personal Care

Toothpaste
Lotion
Cream
Shampoo and Conditioner
Body Wash

Thickeners

Gum
Pectin
Starch
Gelatin

Ingredients and Additives

Aspartame
Non-Fat Dry Milk
Salt
Citric Acid
Sugar
Egg Powder
Whey Protein Concentrate
Calcium Carbonate
Honey
Powder Flavoring

Bio-Pharmaceutical

Cough Syrup
Ointment
Lotion
Vitamin Drink
Contact Solution
Coatings



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