



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.

Key Components

- **A.** Feed pump- SP liquid ring pump
- **B.** Ampco shear blender/ mixer
- C. Powder hopper
- D. Powder control valve

* 304 stainless steel base material.

316L wetted parts

- E. Fluid control valve
- F. Dual-motor starter NEMA 4X

Custom Components:

Hopper lids

Options

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

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

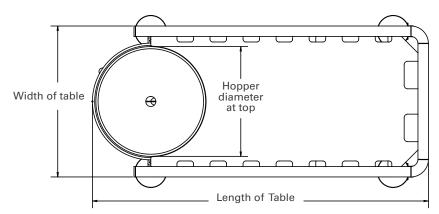
Self-priming, suited for products with planned or unplanned entrained air while maintaining specified performance and efficiency levels.

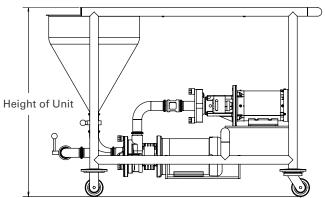
Additional feed pump options:

- 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 highshear 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











