

Homogenizer

Smart Engineering is a leading force in homogenizer manufacturing, dedicated to reshaping the landscape of industrial processes. With a focus on precision and technological innovation, our homogenizers are crafted to redefine industry standards. From tailored solutions to sustainable practices, we prioritize excellence in performance while ensuring a customer-centric approach. Choose Smart Engineering for homogenizers that embody smart solutions, driving the evolution of homogenization technology.



Homogenizer is an Equipment used in various industries, designed to achieve uniformity in mixtures by reducing particle size and creating a stable and consistent product. This versatile piece of equipment finds applications in fields such as food and beverage, pharmaceuticals, cosmetics, and research laboratories.

APPLICATIONS:

Food and Beverage Industry : Homogenizers are used to create emulsions, ensuring a smooth and uniform texture in products like sauces, dressings, and beverages.

Dairy industries employ homogenizers to prevent cream separation in milk and produce a consistent product.

Pharmaceuticals: Homogenization is crucial in pharmaceuticals for drug formulation, ensuring even distribution of active ingredients.

Cosmetics: In cosmetic manufacturing, homogenizers are used to blend various components, producing creams, lotions, and other cosmetic products with a uniform consistency.

Biotechnology and Research: Laboratories use homogenizers to break down cell walls, extract cellular components, and prepare samples for analysis.

BENEFITS:

Improved Product Quality: Homogenization ensures consistent product quality, texture, and taste.

Extended Shelf Life: Homogenized products often have a longer shelf life due to the uniform distribution of ingredients.

Enhanced Bioavailability: In pharmaceuticals, homogenization can improve the absorption and bioavailability of active ingredients.

TECHNICAL SPECIFICATION

SL NO	MODEL	CAPACITY	ELECTRIC POWER/ PHASE	DIMENSION L x W x H (mm)	WEIGHT
1	SP-100	100/LPH	2HP/3PH	680x370x850	100 KG
2	SP-200	200/LPH	2HP/3PH	880x690x940	175 KG
3	SP-300	300/LPH	3HP/3PH	880x690x940	190 KG
4	SP-500	500/LPH	5HP/3PH	860x720x1100	276 KG
5	SP-1K	1000/LPH	10HP/3PH	1100x840x1100	446 KG
6	SP-2K	2000/LPH	20HP/3PH	1100x900x1100	870 KG
7	SP-3K	3000/LPH	30HP/3PH	1100x900x1100	950 KG
8	SP-5K	5000/LPH	50HP/3PH	1750x1250x1300	1000 KG