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Vacuum Emulsifying Mixer



Product Detail:

In the high viscosity of emulsion, especially the manufacturing process of cream, ointment, emulsion products, usually the most problematic is the dispersed phase particle size and mixing the air mixed with products, grain size is too large a everywhere emulsion instability, lack luster; products into the air will make the products bubble, bacterial contamination, easy oxidation and the appearance is not smooth. For the two in question, our developed ZJR series vacuum homogeneous gasification unit, by the quality agitator blade mixing, scraping the wall, the center has stirred their complement each other, are combined into a mixing the best way, to achieve the perfect mixed products. The color and the vacuum pumping mode, so that the production for export in the mixing process of no air bubbles, which can produce shiny, delicate and good ductility of high quality products.

In the process of producing emulsion with high viscosity, there are two important problems.

- One is the scattered bigger diameter particles.

- The other is the air which will mix into the material during the mixing. Particles of the large diameter will lead to the labile state of the materials. If the air goes into the material, the material will be mixed with bubble, polluted by bacterium, easily oxidized and obtained an rough appearance .

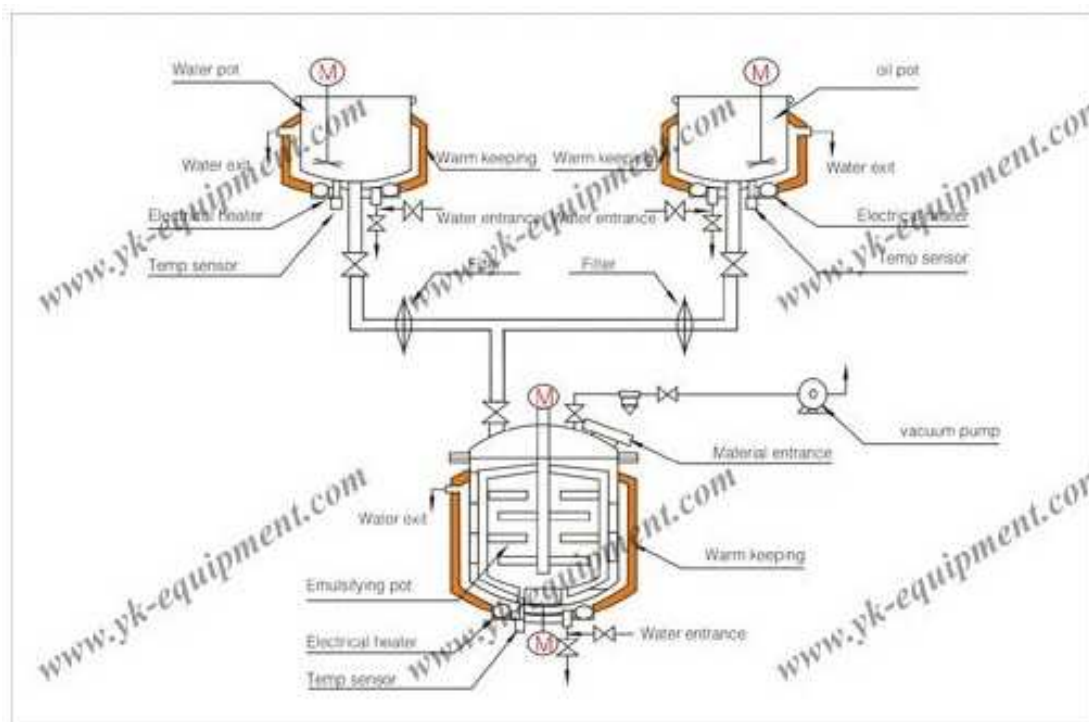
Regarding to these two problems, our factory had developed ZJR Vacuum Mixer Homogenizer Series which are made up of homogenizer & middle blade stirrer & scraper residues stirrer to form the best mixing way in order to produce the perfect mixed material. By extracting air from the material, the vacuum pump can ensure that the material is glossy, exquisite and ductile.

Working Elements:

After the materials are heated & mixed in water pot and oil pot, they are drawn into the emulsifying boiler by the vacuum pump. Adopting the middle stirrer & Teflon scrapers, the emulsifying boiler can sweep the residues on the wall of the boiler. Then the materials are cut off, compressed and folded by the blades. By the strong cutting off force and the impact and turbulent current from the high-speed shear wheel and fixed cutting case, the materials are cut off and turned to particles of 200 nm- 2 um promptly. Because the emulsifying boiler is under vacuum state, the bubbles that are produced in the course of mixing will be taken away in time.

Features:

The pot cover is of automatic rising type. The material is directly drawn into the emulsifying boiler from oil boiler and water boiler. The discharge is based on the turning of the emulsifying boiler. And the heating system is electric heating and steam heating by the heating pipe, so the temperature is controlled automatically. Put the cool water into the intercalated bed so as to cool the material, which is simple and convenient (there is a warm layer outside the intercalated bed). The homogenizer and the stirring blades can work together or separately. The material sliming, emulsification, mixing, dispersing, etc. can be finished in a short time. Some parts of the machine are made of high-quality stainless steel (316L material will be adopted for medical use; the interior surface adopts mirror polish, vacuum agitating device is hygienically made according to the normal hygiene standard of GMP and is the most idea production equipment).



Technology Parameters

Name		ZJR-30	ZJR-50	ZJR-100	ZJR-150	ZJR-200
Emulsifying Pot	Design Volume (L)	30	50	100	150	200
	Capacity (L)	25	40	80	120	160
	Scraper Stirring Power (KW)	0.75	0.75	1.5	1.5	2.2
	Scraper Stirring Speed (rpm)	0-86	0-86	0-86	0-86	0-65
	Homogenizer Power (KW)	1.5	1.5	3	4	4
	Electrical Heating Power (KW)	2	4	6	6	8
	Homogenizer Speed (rpm)	2800	2800	2800	2800	2800
Water Pot	Design Volume (L)	25	38	60	100	120
	Capacity (L)	20	30	45	80	95
	Power (KW)	0.55	0.55	0.55	0.55	0.75
	Speed (rpm)	1400	1400	1400	1400	1400
	Electrical Heating Power (KW)	2	2	4	6	8
Oil Pot	Design Volume (L)	17.5	25	45	75	100
	Capacity (L)	14	20	35	60	80
	Power (KW)	0.55	0.55	0.55	0.55	0.75
	Speed (rpm)	1400	1400	1400	1400	1400
	Electrical Heating Power (KW)	2	2	4	6	8
Dimension	Emulsifying (Length*Width*Height)	1400*600*(1900-2400)	1400*600*(1950-2500)	1750*650*(2150-2850)	1900*780*(2380-3000)	1450*600*(2650-3500)
	Water Boiler and Oil Boiler (Length*Width*Height)	880*510*1050	950*550*1100	1220*610*1300	1170*710*1500	1550*820*1520