

FLUID BED DRYER



- ✘ ESTEEM FLUID BED DRYER IS A VERY VERSATILE PROCESS EQUIPMENT FOR UNIFORM AND EFFICIENT DRYING OF PRODUCTS.
- ✘ FULLY AUTOMATIC OPERATION BASED ON PLC CONTROL / WITHOUT PLC CONTROL
- ✘ MINIMUM HANDLING AND MORE HYGIENIC
- ✘ LIFTING & TILTING DEVICE OF PRODUCT CONTAINER FOR EASY HANDLING
- ✘ CAPACITY AVAILABLE FROM 5 Kgs to 500 Kgs.
- ✘ FLP MODELS AVAILABLE AS OPTION
- ✘ MOC S.S. 304/ 316/ 316L
- ✘ OPTION - STEAM HEATED OR ELECTRIC HEATED BLOWER
- ✘ CGMP MODEL WITH DOCUMENTATION (IQ, DQ, PQ, OQ) - AS OPTION.

TECHNICAL SPECIFICATIONS OF FLUIDISED BED DRYER:

1. Type of Fluidised Bed Drying Plant : Open cycle plant / Close cycle plant / Static / Continuous / Vibrating / Turbo Fluid
2. Moisture Evaporation Rate : Custom made.
3. Inlet / Outlet Temperature : To suit specific product.
4. General Material of Construction : AISI 304 / AISI 316 / Custom Made of parts in contact with Feed / Dry Powder
5. Dry Powder Properties : Initial particle size is maintained. Fine powder if required.
6. Inputs to Drying Plant : Feed
Electricity
415 / 380 \pm 6% V, 50 / 60 HZ, 3 phase with neutral.
Fuel Oil (Light Oil / Heavy Oil) / Gas / Thermic Fluid / Steam
Compressed Air, Instrument Grade, Moisture Free at 5 kg/sq.cm (g)
7. Installation : Indoor / Outdoor
8. Hot Air Generator : a) Indirect, Fuel Fired, Non-mixing Type.
b) Direct, Fuel Fired, Mixing Type.
c) All SS Food Grade, Indirect Type, Fuel Fired.
d) Radiator working on Steam / Thermic Fluid.

OCTAGONAL BLENDER



OCTAGONAL BLENDER

Esteem Octagonal Blender It is a very useful machinery for pharmaceutical industry where in gentle blending of dry granules or powder is to be done.

It consists of octagon shaped body, rectangular central portion and top and bottom polygonal frustum.

It is provided with baffles for fast and efficient mixing, charging port and outlet with butterfly valve.

The entire unit is mounted on a sturdy stand, complete with electric motor and gear box. It can be supplied with bin charging system and can be designed for vacuum for dust free charging & discharging of product (Optional). The machine is provided with control panel board and safety railing.

SALIENT FEATURES

Esteem Octagonal Blender is a slow speed blender and has a removable baffle mounted through a rectangular openable lid. Easy for cleaning in place. The power consumption is comparatively lower than the other similar type of blenders.

Capacity available 100 ltrs. To 5000 ltrs. & 3 to 5 ltrs for R & D models. Contact parts in limit switch is provided for operator's safety & manual intching arrangement. Flame- proof motors with flame- proof push button stations can be provided (optional).

ALSO THERE ARE FEW OTHER FEATURES

- ⌘ ESTEEM OCTAGONAL BLENDER IS SUITABLE FOR QUICK AND EFFICIENT MIXING FOR A COMPLETE RANGE OF POWDERS, PARTICULATE AND GRANULAR MATERIALS. ALSO IT OFFERS HOMOGENEOUS MIX. GENTLE TUMBLING ACTION WITH A SPECIALLY DESIGNED BAFFLE.
 - ⌘ EASY CHARGING OF MATERIALS THROUGH S.S. BINS.
 - ⌘ CAPACITY - 20 LTRS. TO 4000 LTRS.
 - ⌘ MOC - S.S. 304/ 316/ 316 L
 - ⌘ SHAPE OF CONTAINER - POLYGON SHAPED FRUSTUM.
- ⌘ S.S. OCTAGON TYPE BODY WITH RECTANGULAR CENTRAL PORTION TOP AND CIRCULAR BOTTOM WITH A BUTTERFLY VALVE.
 - ⌘ CGMP MODEL WITH DOCUMENTATION (IQ, DQ, PQ, OQ) - AS OPTION

TECHNICAL SPECIFICATIONS :

Model	Gross Cap. in litres	Working Cap. in litres	Discharge Valve Size in inches	Overall Dimensions in			Speed RPM	H.P.
				length	width	height		
Win-150	470	300	6"	2000	1100	2000	5/10	3.0
Win-200	600	400	6"	2100	1200	2100	5/10	5.0
Win-300	1000	600	6"	2300	1400	2300	5/10	7.5
Win-400	1340	800	6"	2350	1800	2350	5/8	7.5
Win-500	1500	1000	6"	2400	1900	2400	4/6	10.0

Note: Small Capacities Modules from 5 Kgs to 100Kgs are also available

DOUBLE CONE BLENDER



Esteem Double Cone Blender

The Esteem double cone blender is an efficient and versatile machine to mixing dry powder and granules homogeneously & widely used for pharmaceutical, food, chemical and cosmetic products etc. It consists of a cylindrical shell with two conical frustums provided with opening for charging and discharging. Butterfly valve is provided for discharge. The vessel is mounted on a sturdy stand with bearing blocks & driven through a gear box coupled with motor. The machine is provided with control panel board and safety railing. All joints are welded, ground and polished to mirror finish from inside and matt finish from outside.

TECHNICAL SPECIFICATIONS :

Model	Gross Cap. in litres	Working Cap. in litres	Discharge ht. in mm	Discharge Valve	Overall Dimensions in			H.P.
					length	width	height	
Win-50	150	100	450	150	1400	800	1500	2.0
Win-100	300	200	450	200	1850	900	1900	3.0
Win-150	470	300	450	200	2000	1100	2000	5.0
Win-200	615	400	450	200	2100	1200	2100	5.0
Win-250	770	600	450	200	2200	1300	2200	7.5
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Octagonal Blender

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It is provided with baffles for fast and efficient mixing, charging port and outlet with butterfly valve.

The entire unit is mounted on a sturdy stand, complete with electric motor and gear box. It can be supplied with bin charging system and can be designed for vacuum for dust free charging & discharging of product (Optional). The machine is provided with control panel board and safety railing.



Octagonal blender

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Note: Higher Capacities Models are also available

HOMOGENISER MACHINE



Estem Industries INC is a worldwide supplier of homogenizing systems to the Pharmaceutical, Biotech, Chemical, Cosmetic and Food industries. We are dedicated to advancing the technology of homogenization. Our mission is to give our customers the tools to create new products faster and to produce them more economically than ever before.

Our high pressure homogenizers produce unprecedented results delivering the smallest, most uniform and evenly distributed particles often in ONE pass.

ESTEEM EMULSIFIER/HOMOGENISER MACHINE:

Complete in all respect with Crompton /equivalent make motor, starter, all contact parts of S.S 304 mounted on heavy M.S angle frame

Hanger, arrangement for height adjustment, with impeller of special design to suit the HP of the drive. Complete with one classifying screen

Of any desire mesh, etc.

- (a) 100 Lt. Mixing capacity with 1 HP/3 phase motor
- (b) 200 Lt. Mixing capacity with 2 HP/3 phase motor
- (c) 300 Lt. Mixing capacity with 3 HP/3 phase motor
- (c) 400 Lt. Mixing capacity with 5 HP/3 phase motor

ESTEEM THREE SPEED PLANETARY MIXER:



Complete in all respects with all contact parts of S.S 304 Crompton / equivalent make motor, suitable for mixing, kneading and emulsifying creams ointments

Powders, wet mass, chavanprash, gums and duplicating inks etc. with S.S bowl, suitable locking lugs for fixing the bowl to the machine, with specially designed slow speed beater rotating planetary ensuring efficient and uniform mixing. Driven by an elec. Motor coupled to a 3-speed gearbox with belt and pulley

Arrangement hand operated mechanical up & down lifting device etc. Planetary movement speed 18, 27 & 36 rpm. Beater movement speed 54, 81 & 1087rpm

Approx

- (a) 550 kg. / 2HP 3 Phase
- (b) 100 kg. / 5HP 3 Phase
- (c) 150kg. / 10HP 3 PHASE

ESTB-140. ESTEEM DOUBLE SPEED PLANETARY MIXER (SPECIAL TYPE):

Complete in all respect with all contact parts of S.S 304 with double speed in all (960/1440rpm) TEFC Crompton or equivalent make motor, suitable

Reduction gearbox, panel box, poll changing switch and starter, etc. with a fully jacketed

S.S 304 bowl housing thermostatically controlled heaters

For heating of material and hand operated mechanical up and down lifting device.

(a) 50 kg. Batch cap. With 1.0-1.5 HP 3 phase motor

(b) 100 kg. Batch cap. With 2.0-2.5 3 phase motor

(c) 5 kg. To 10 kg. Batch cap. Lab model machine with 0.5-0.75 single-phase elec. Motor etc.

TECHNICAL SPECIFICATIONS



