

FLUID BED DRYERS




SAVE ENERGY
SAVE MONEY



Aero Therm



TECHNICAL SPECIFICATIONS :

DETAILS		UNIT	AFBD - 30	AFBD - 60	AFBD - 120	AFBD - 200
BATCH CAPACITY		KG	30	60	120	200
CONTAINER VOLUME		LITER	100	200	430	670
HEATING LOAD	ELECTRICAL	KW	18	36	60	100
	STEAM	KG / HR	25	50	100	160
	THERMIC FLUID / AIR HEATER	KCAL / HR	20,000	30,000	60,000	1,00,000
BLOWER MOTOR		HP	5	7.5	15	20
DRYING TEMPERATURE		°C	← 50 TO 80 →			
OVERALL DIMENSIONS IN MM (APPROX.)	L		1600	1750	2400	2450
	W		1450	1525	2000	2150
	H		2500	3200	3675	3700
POWER SUPPLY			← AC, 3 PHASE, 415 V, 50 HZ, 4 WIRE +  →			

GENERAL CONSTRUCTION :

CONTAINER of Fluid Bed Dryer are made out of MS / SS304 / SS316 / Aluminium as per requirement. The perforated sheet & fine wire mesh screen will be provided at the bottom for proper air distribution.

HEATING can be supplied with Electrical, Steam, Thermic Fluid or Hot Air Generator.

Electrically heated Dryer will be provided with heating element of suitable rating having MS galvanised / Stainless steel construction. Steam / Thermic Fluid Radiators are made out of MS / SS Tubes with MS / SS / AL Fins as per requirement.

CONTROL PANEL will consist of Digital Temp. Controller, Starter for Blower, Synchronous Timer for batch time setting, Indicating Lamps, Fuses, Main Isolator switch etc.

OPERATIONAL FEATURES :

The wet material is introduced in the Fluid Bed Dryer container which is provided with air distributor perforated plate at the bottom.

The Blower mounted on the top of the unit will create induced draft and fresh air sucked in to the system, pass through filter and heating element (either Electrical Strip Heater, Steam / Thermic Fluid Radiator). This hot air is then passes through powder. The powder moves up and down in the product container which is called FLUIDISATION. Due to fluidisation the heat transfer to products and it dried very fast.

The moisture from products will carry away by the air through filter bags. Filter bags prevent the particles escaping from the Dryer.



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