

INFINITE DRYER

The Right Solution
For Every Drying
Challenge



Simply the Best



Automatic Product
Moisture Control



Low Maintenance



Flexible Installation -
Space Saving Design



High Efficiency
Cyclone



Efficient Blower



Versatile Airlock
(Flexi-seal)

INFINITE DRYER

The Right Solution For Every Drying Challenge

Infinite offers best-in-class standalone continuous flow biomass drying systems based on Infinite Energy's proprietary drying technology.

The dryers offer significant advantage over all its competitors in terms of reliability, performance, maintenance and cost of operation.

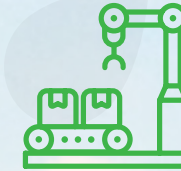
Infinite Energy's Design Philosophy



Maximum System Efficiency



Maximum System Availability



Minimal Reliance on Operators



Less Parasitic Load



Ease of Maintenance

Infinite

Infinite Energy- A reliable partner in the biomass conversion.

Infinite Energy Pvt. Ltd. (IEPL) is a recognised engineering firm specialising in the field of biomass conversion and processing technology in India.

Being the brainchild of an IITian, the primary focus of the company lies in designing, developing and manufacturing a diverse array of renewable energy products.

IEPL has extensive experience and knowledge developed over the last two decades in the field of biomass-to-energy technologies for providing end-to-end solutions.

Infinite Energy has a reliable international sales network spread over United States of America, Europe, Israel, Latin America, Philippines, Turkey, Australia, the Netherlands, Sri Lanka, Pakistan and Bangladesh.

IEPL: Providing service across the world



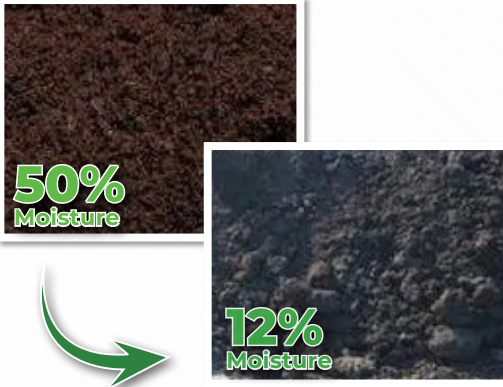
Infinite Dryers - Customised solutions for every requirement

Available in three Series with different models suiting all possible requirements

IFD Series

This dryer system is a conventional pneumatic flash dryer. The hot gas carries the material pneumatically and drying is achieved through intimate mixing of hot gas with the wet material as they travel together in the drier columns.

IFD series dryer can be used for quickly drying of any biomass having **initial moisture content < 50% & Particle size < 8 mm** like Sawdust, Rice Husk, Press mud, Herbs extract, Spent, Fly ash or any other powdery biomass.



50% to 12% Moisture
in just a few seconds!

IFD SERIES						
Suitable for any fine biomass (size < 8mm) and input moisture < 50%, Eg: Sawdust, Wood Chips & Ply Waste, Bagasse Pith, Rice Husk, Pressmud, Sand, Flyash etc.						
Techno Commercial Data						
DRYER MODELS	IFD 750	IFD 1500	IFD 3000	IFD 5000	IFD 7500	IFD 10000
Water Evaporation (Kg/h)	450	900	1800	3000	4500	6000
Dry Product o/p (Kg/h) @i/p Moisture < 30 %	1100	2200	4400	7000	10000	14000
Dry Product o/p (Kg/h) @i/p Moisture < 45 %	750	1500	3000	5000	7500	10000
Dry Product o/p (Kg/h) @i/p Moisture < 50 %	600	1200	2400	4000	6000	8000
#Fuel Consumption (Kg/h)	<115	<220	<400	<700	<950	<1250
Connected Load (hp)	19.5	31	72	136	174	225

Fuel”: Briquettes or Dry wood blocks of moisture <20% & C.V.> 3,800 Kcal/kg

Best Suited For:



RFD Series

This dryer system is a combination of rotary dryer along with standard IFD Series dryer. The RFD dryer has the characteristics of large drying strength in short drying time, low energy consumption, simple operation and a good product quality.

The rotary dryer will be employed to bring internal moisture of material on surface & then to minimise the liquid moisture content by bringing it into direct contact with a heated gas in a tube by rotating/ lifted up by a series of internal paddle mounted on shaft of the dryer. The removal of the remaining moisture would be completed in the dryer columns by direct heat transfer between the material and the hot gas which carries it.

RFD Series Dryer can be used for quickly drying of any biomass having **initial moisture content < 60% & particle size <12 mm** like Sugarcane Bagasse, Coir Pith, Wood chips, Wood barks/shavings/branches, Veneer Ply waste,, Mushroom Substrate, Ayurvedic herbs spent/ extract, Cashew husk, DDGS, DWGS, etc.

RFD SERIES						
Suitable for any biomass (size < 16mm) and input moisture < 60%, Eg: Sawdust, Wood Chips, Plywood Veener Waste, Napier Grass, Pressmud, Mushroom Substrate, Ayurvedic Herbs Extract/ Spent, Municipal Waste, Bagasse Pith, Rice Straw, Mustard Husk etc.						
Techno Commercial Data						
DRYER MODELS	RFD 750	RFD 1500	RFD 3000	RFD 5000	RFD 7500	RFD 10000
Water Evaporation (Kg/h)	500	1000	2000	3200	4700	6500
Dry Product o/p (Kg/h) @i/p Moisture < 50 %	750	1500	3000	5000	7500	10000
Dry Product o/p (Kg/h) @i/p Moisture < 60%	450	900	1800	3000	4000	6000
#Fuel Consumption (Kg/h)	<135	<260	<450	<750	<1150	<1400
Connected Load (hp)	24	34	90	173	235	325

#Fuel: Briquettes or wood blocks of moisture <20% & C.V. > 3,800 Kcal/kg

Best Suited For:



60% to 12% Moisture
in just a few seconds!

ISD Series

Suitable for any biomass (size < 5mm) and input moisture < 80%, Chicken/Poultry Litter, DDGS, Pig/Horse Dung, Agro Waste/ ETP Sludge, Municipal Waste/Sludge (Biodegradable), Coir Pith, Cashew Husk, Napier Grass. Press Mud.



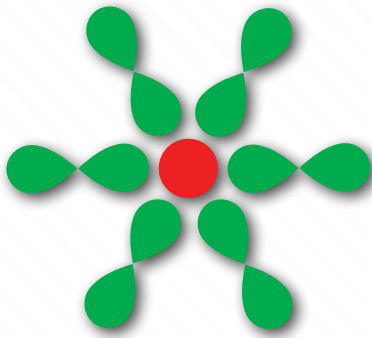
85% to 12% Moisture
in just a few seconds!

ISD Series				
Suitable for any biomass (size < 5mm) and input moisture < 80%, Chicke/Polutary Litter, Coir Pith, Cashew Husk, DDGS, Naiper Grass, Slurry, Pressmud, Pig/Horse Dung, Agro Waste/ ETP Sludge, Municipal Waste/Sludge (Biodegradable)				
Techno Commercial Data				
DRYER MODELS	ISD 750	ISD 1500	ISD 3000	ISD 6000
Input material feed rate (kg/h) @Moisture < 80%	< 850	< 1700	< 3500	< 7000
Water Evaporation (kg/h)	750	1500	3000	6000
Dry Product o/p (kg/h) Moisture <15%	100 - 150	250 - 300	500 - 600	1000 - 1200
Fuel Consumopton (kg/h) Dry wood/Briquettes	< 150	< 300	< 600	< 1200
Connected Load (hp)	47	87	186	298
Area required (lxbxh) mtr	9 x 9 x 9	12 x 12 x10	20 x 20 x 12	25 x 25 x 15

Fuel": Briquettes or wood blocks of moisture <20% & C.V.> 3,800 Kcal/kg

Best Suited For:





**WE DRY
HARDER**

***Infinite Dryers:
Successfully deployed across the world!
Actual Site Photographs***



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