



Plasma Pyrolysis System

Plasma gasification system facilitates safe disposal of all type of organic wastes. The inorganic materials like glass, metals can also be minimized to slag. In plasma pyrolysis the most likely compounds which are produced include carbonaceous matter, methane, carbon monoxide, hydrogen, carbon dioxide and water molecules. These product gases are combustible. These can be either combusted or used as a heating source. The exhaust gases generated on combusting the product gases include CO₂, N₂, H₂O.

- The product gases recovered has calorific and commercial values. These gases can be used as a heat source or as fuel. The amount of gas recovered depends solely upon type of waste and amount of waste. As the system can recover energy from the waste while safely disposing it, plasma pyrolysis can be treated as the ultimate waste management and recycling technology.

- Benefits of Plasma Pyrolysis Plant:

1. Energy recovery from waste depending upon input waste calorific value.
 2. PPS can decompose any type of organic waste negating the requirement of pre processing or treatment.
 3. Sterilization of residue
 4. The system is compact as compared to other waste disposal facilities.
 5. Recovers significant amount of energy in form of combustible gases with safe disposal of waste.
 6. It is independent of waste characteristics provided it is organic in nature.
 7. PPS facilitates elimination of carbon content in the waste.
 8. The ash content does not require any post treatment.
 9. Requires less time to preheat the pyrolysis reactor.
 10. PPT can even be used to destroy (i) Metallized plastics (ii) Polyethylene plastic (iii) 80% Polyethylene 20% PVC (iv) Soiled plastic, (v) 50% Polyethylene 50% PVC and (vi) Multi-layer plastics in an environment friendly manner
- The plasma pyrolysis systems can be installed in tourist/hilly locations in the country where disposal of plastic bags, metallized pouches, bottles etc. is a matter of concern and significant transportation cost could be saved



Model No	Capacity
BHF05TPD	Input Raw material - 500 Kilograms
BHF1TPD	Input Raw material – 1 TON
BHF3TPD	Input Raw material – 3 TON
BHF5TPD	Input Raw material – 5 TON
BHF6TPD	Input Raw material – 6 TON
BHF10TPD	Input Raw material – 10 TON
BHF12TPD	Input Raw material – 12 TON
BHF15TPD	Input Raw material – 15 TON
BHF20TPD	Input Raw material – 20 TON
Custom Sizes Manufactured on Demand	