

# Industrial Spray Dryer



ISD 10

- Heating of in coming air with oil/gas or steam as direct or indirect fired
- After cyclone scrubber or cartridge filter provided



ISD 08



ISD 06

Features ↓	Models →	ISD 06	ISD 08	ISD 10
Evaporation Capacity (in kg / hr) H <sub>2</sub> O		25-50	50-100	100 and > as per customer requirements
M.O.C		Product Contact Parts SS 316		
Supporting Structure		M.S.	M.S.	M.S.
Air Flow (Max)		1,200 cu.m./hr	1,600 cu.m./hr	2,000 cu.m./hr
Heater Type		Indirect Oil Fired or Direct Gas Fired		
Inlet Temp.		Typical 200°C, Maximum 300°C		
Heating Power (Max)		75,000 kcal/hr	1,25,000 kcal/hr	2,00,000 kcal/hr
Atomization		Pressure Nozzle or Two Fluid Nozzle	Pressure Nozzle or Two Fluid Nozzle	Pressure Nozzle or Two Fluid Nozzle
Pressure Nozzle Diameter		1.6 mm	2 mm	2.4 mm
Accessories		Electromagnetic Hammers		
Dimensions (LxWxH)		8 M x 8 M x 7 M	10 M x 8 M x 10 M	10 M x 8 M x 12 M

# Industrial Spray Dryer

## M.O.C:

- Product contact parts S. S316.
- Support Structure M. S.

## Operations:

- Co Current & Counter Current.

## Powder Collection:

- Spray Dried powder can be collected under cyclone as Single Point Discharge or optionally under chamber and cyclone as Two Point Discharge system. This gives flexibility to check particle size under chamber and cyclone.

## Atomization:

- Two types of nozzle system are provided i.e. Pressure Nozzle and Two Fluid Nozzle

## Features:

- Both exhaust and supply blowers are provided so the drying chamber is maintained under a slight vacuum hence minimizing powder loss.
- A cleaning door is provided on the main chamber for ease of cleaning.

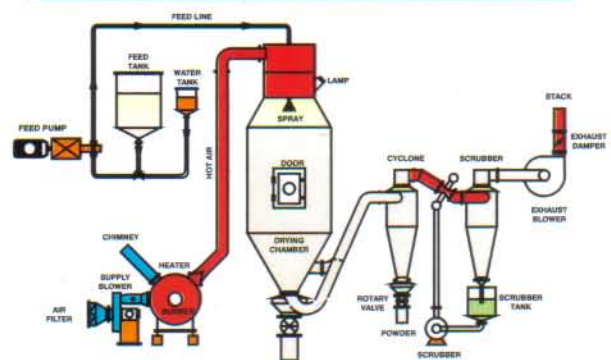
## Applications:

- Spray drying can be used in a wide range of applications where the production of a free flowing powder sample is required. This technique has successfully processed materials in the following areas:

**Beverages, Flavours and Colourings, Milk and Egg Products, Plant and Vegetable Extracts, Pharmaceuticals, Heat Sensitive Materials, Plastics, Polymers and Resins, Perfumes, Ceramics and Advanced Materials, Soaps and Detergents, Blood, Dyestuffs, Foodstuffs, Adhesives, Oxides, Textiles, Bones, Teeth and Tooth Amalgam and many others**



INDUSTRIAL SPRAY DRYING PLANT - ISD- 10



**Hemraj**  
INDIA

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