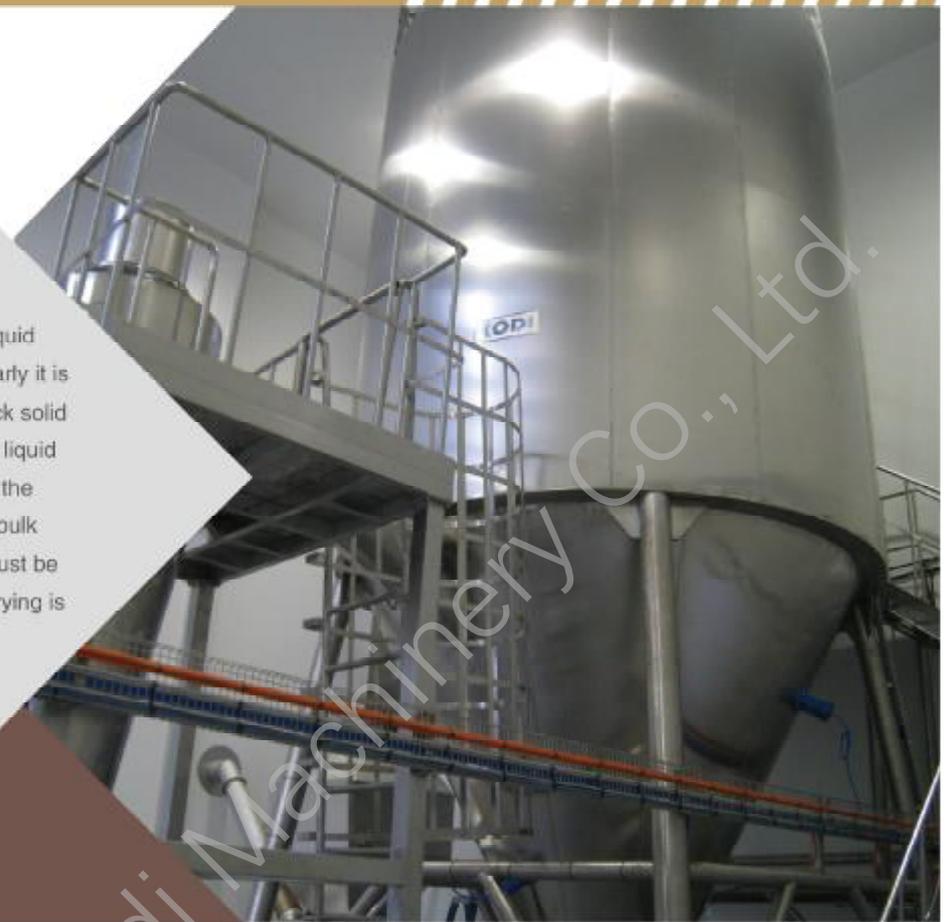


## ➤ Description

Spray dryer is a wide applied process in liquid process shaping and drying industry. Particularly it is suitable for producing powder, granule or block solid product from solution, emulsion, suspending liquid and pumped paste liquid. Therefore when the distribution of granule size, final moisture, bulk density, granule shape of finished product must be conformed to accuracy standard, the spray drying is an ideal process.



## Rotary Atomizer Spray Dryer

## ➤ Application

It's widely used in foodstuff, pharmaceutical and chemical industry, such as egg powder, amino acid, protein, food flavor&ingredients, herbal extraction, Alumina, mushroom, PAC, malt dextrin, collagen, juice, yeast etc.



## ➤ Features

1. Dry speed is very quick. Usually it needs 5–15 seconds.
2. Raw material can be dried momentarily, so it can maintain color, flavor and smell of raw material.
3. Stable and simple operation. It is easy to realize continuous production.
4. Distribution, fluidity and solubility of product are good.

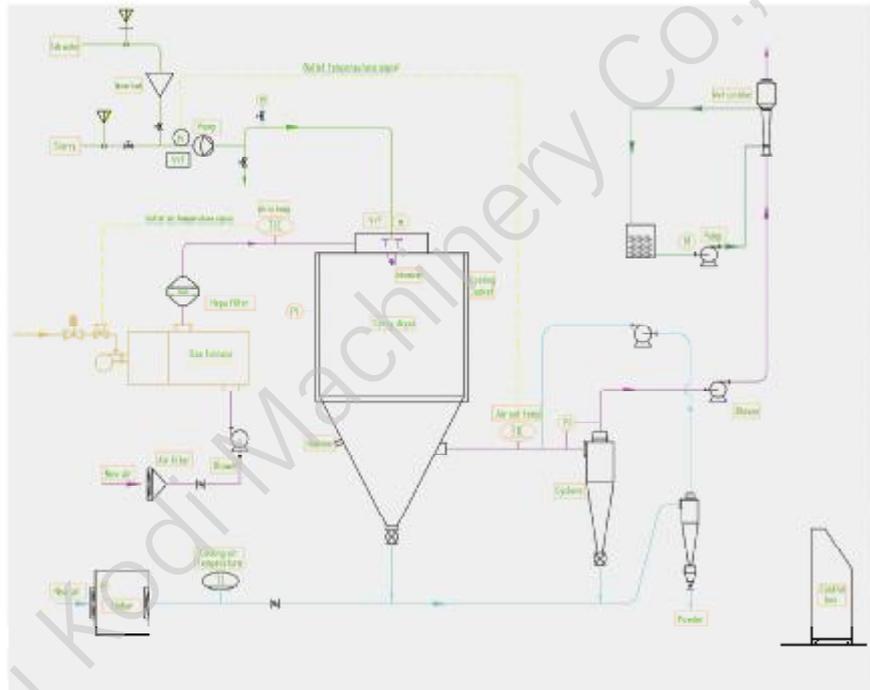




## Rotary Atomizer Spray Dryer

### Working Principle

After filtering and heating, the hot fresh air enter into top of drying chamber, distributed in spiral way uniformly from up to down. At the same time, the feeding liquid is pumped to the top atomizer, then be sprayed to extremely fine mist liquid drop. Through the short time of direct contact with hot air, the moisture evaporated at once, the solid remains to be powder.



### On Site Installation





## ➤ Description

LPG-5 Spray dryer is special for lab research and it is a wide used to laboratory production of micro-particle powder by universities, research center and food, biotechnology, beverage, chemical, material, and pharmaceutical enterprise lab.

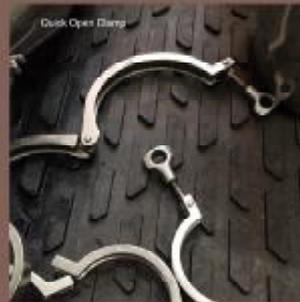
## ➤ Technical Data

Evaporation	3-5Kg/h	Dia/Height	1.0M/2.2M
Operation temperature	Inlet 180 °C Outlet 90 °C	Atomizer	Pneumatic driving Max 30000r.p.m
Power	Drive: 0.75KW Heater: 12-15KW	Water consumption	0.1m <sup>3</sup> /h
Type	Open circle	Feeder	Peristaltic pump
Air contact	Co-current	Heater	Electric heater
Collection	Cyclone	Atomizer	Centrifugal atomizer
Control	Inlet air adjustable by inverter		
Overall size	1.88*1.5*2.1	Weight	About 500Kg
Packing	Poly.wood box	Power	3Ph, 220-440V, 50/60Hz

## ▶ KODI Lab Spray Dryer



Atomizer



Dust Cover Flange



Collection Cup



Powder

## ➤ Features

1. SIEMENS touch screen automatic control
2. Moveable easy to clean
3. Small space occupation
4. Easy to control and run stably
5. Stainless steel 304 or 316L

 Parameters

No.	Item	Model	Qty.	Material	Notes
<b>Feeding system</b>					
1	Peristaltic pump	BT-100	1set	Sanitary	0.3Kw
2	Feeding pipe		1set	SUS304/SUS316L	
<b>Circulation system</b>					
1	Suction blower	9-19	1set	SUS304	0.75KW
2	Air valve		1set	SUS304	
3	Hot air pipe		1set	SUS304	
4	Air out pipe		1set	SUS304	
5	Pipe fittings		1set	SUS304	
<b>Air system</b>					
1	Air filter		1set	SUS304	Initial and middle
2	Air heater	12Kw	1set	SUS304	
3	Pipe fitting		1set	SUS304	
4	Hot air pipe		1set	SUS304	Insulation
<b>Main machine</b>					
1	Drying chamber	D1000 H2200	1set	SUS304/SUS316L	
2	Air distributor		1set	SUS304	
3	Air cover		1set	SUS304	
4	Atomizer	LPG5/Dia 50mm	1set	SUS304/SUS316L	
5	Light	100W	1set		
6	Manhole		1set	SUS304/SUS316L	
7	Insulation			Glass fiber	
8	Hammer	SK40	2sets	Aluminum	
9	Ladder		1set	SUS304	
<b>Powder collection system</b>					
1	Cyclone	XF170	1set	SUS304/SUS316L	
2	Discharge valve		1set	SUS304/SUS316L	
3	Product jar		1set	SUS304/SUS316L	
4	Air pipe	Quick opening	1set	SUS304	
<b>Control system</b>					
1	Control box		1set	SUS304	
2	PLC	SIEMENS	1set		
3	Touch screen	SIEMENS	1set		
4	Contactora	SIEMENS	1set		





SIEMENS

SIMATIC PANEL

Draught fan		Atomizer		Feed Pump
46,0 Hz		40,0 Hz		50,9 Hz
Draught fan	Blower fan	Oil pump	Atomizer	Feed Pump
Burner Power	Burner Run	Burner Reset	Dehumidifier	Compressor
Discharge 1	Discharge 2	Discharge 3	Standby	Light
Water Pump	Shake	Spill	Parameter	Return

TOUCH

ALARM



EMERGENCY



PROVEX AND CONTROLS

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