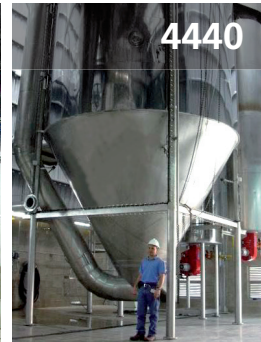
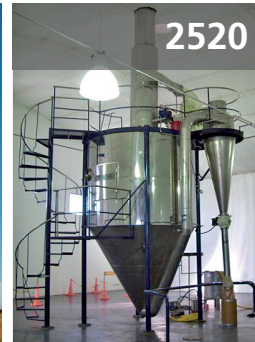


Spray dryers with ecofriendly technology.



## Our Company

GALAXIE mainly manufactures standard spray dryers, for labs, ECO Dryer® line for effluent elimination, spray cooler and especial equipment with first quality materials and accessories.

The company also provides the customers with advice, modifications, updating and relocation of the existing equipment, helping with product tests and drying by third parties, equipment hiring, staff training and it also provides auxiliary equipment according to the specific needs.

## Spray Drying Process

The spray drying is the process of spraying a solution or suspension in a hot air flow that dehydrates them almost instantaneously. Said process is advantageous in relation to other types of drying.

## Advantages of Spray Drying

- High performance (quick processing, in a few seconds).
- The evaporation of water refrigerates the particle, allowing the use of high temperatures in the drying air without affecting the product.
- Continually controlled and continued process.
- Homogeneous production.
- Excellent presentation of the product.
- Installation is controlled by just one operator.
- Easy automation.
- Allows 24 hours of continuous operation.

## Main Products for Spray Drying

**SLAUGHTERHOUSE BY-PRODUCTS:** Blood, plasma, hemoglobin, gelatin and meat extract.

**EGG:** Whole egg, yolk, white.

**EFFLUENT ELIMINATION:** Washing waste water and liquids high in BOD and COD.

**FLAVORS AND SCENTS:** Natural and synthetic.

**TANNERIES:** Vegetable and synthetic tannins, chromic components.

**YEAST:** Leavening, hydrolyzed protein.

**MARINE:** Pulp, water-stick.

**CATALYSTS AND COLORANTS:** Organic and inorganic pigments and aniline.

## Technical Specifications

Drying Air Temperature °C		Water Evaporation Ltrs/h	Fuel Consumption KCal/h	MF Kw/h	Required Area Mtrs
Inlet	Outlet				
<b>Model 1612</b>					
180	80	19	24.000	4	3 x 3.50 Height 4.80
220	90	25	30.000		
250	100	29	34.000		
350	100	47	49.000		
450	100	64	64.000		
<b>Model 2520</b>					
180	80	63	80.000	9	4 x 4.50 Height 6.50
220	90	83	100.000		
250	100	97	115.000		
350	100	156	165.000		
450	100	213	215.000		
<b>Model 3530</b>					
180	80	190	240.000	30	6 x 6 Height 8.50
220	90	250	300.000		
250	100	290	345.000		
350	100	470	495.000		
450	100	640	645.000		
550	100	800	795.000		
<b>Model 4440</b>					
180	80	380	480.000	40	6.50 x 7.50 Height 11
220	90	500	600.000		
250	100	580	690.000		
350	100	940	990.000		
450	100	1280	1.290.000		
550	100	1600	1.590.000		
<b>Model 5240</b>					
180	80	570	720.000	47	7.50 x 9 Height 12
220	90	750	900.000		
250	100	870	1.035.000		
350	100	1410	1.485.000		
450	100	1920	1.935.000		
550	100	2400	2.385.000		

## Special Equipment

Besides the standard equipment, GALAXIE manufactures spray dryers built according to the specific needs of each client.

## Applications: Solutions, Suspensions, Emulsions and Bleach.

### Slaughterhouse By-Products

Blood, plasma, hemoglobin, glands, meat extract, gelatin.

### Egg

Whole egg, yolk, white.

### Effluent Elimination

Wash water, liquids with high BOD and COD.

### Flavor and Scents

Natural and synthetic.

### Dairy Products

Whole milk, skimmed milk, whey, cream, cream for ice-cream, baby food and diet food, malted milk, cream cheese, caseinates, cocoa milk, milk substitutes.

### Coffee, Tea and Mate

Instant and substitutes.

### Fishery Products

Pulp, water-stick, collagen.

### Yeast

Leavening, hydrolyzed protein.

### Pharmaceutical Compound

Vitamines, enzymes, antibiotics, human serum, eteril, dextran, liver extract, rubber.

### Plastics

Chloride emulsion, polyvinyl acetate, melamine, polyethylene, urea formaldehyde products and phenol, acrylic nitrite, acrylic resin.

### Detergents

For delicate clothes and washing machines (beads), washing powder (by means of cooling atomization).

### Catalyts and Colorants

Pigment, aniline, organic and inorganic ones.

### Fertilizers, Herbicides and Insecticides

### Ceramic Materials

Clay for sanitary appliances, floors, walls, concrete slab, ferrites, kaolin, steatites, enamels, porcelain.

### Minerals

Drying of concentrates.

### Inorganic Chemistry

Aluminum, sulfur, arsenic, barium, boron, bromine, carbon, chlorine, chromium, fluorite, hydroxide, iodine, magnesium, manganese, molybdenum, nitrogen, oxide, phosphorus, titanium, tungsten, uranium, zirconium.

### Organic Chemistry

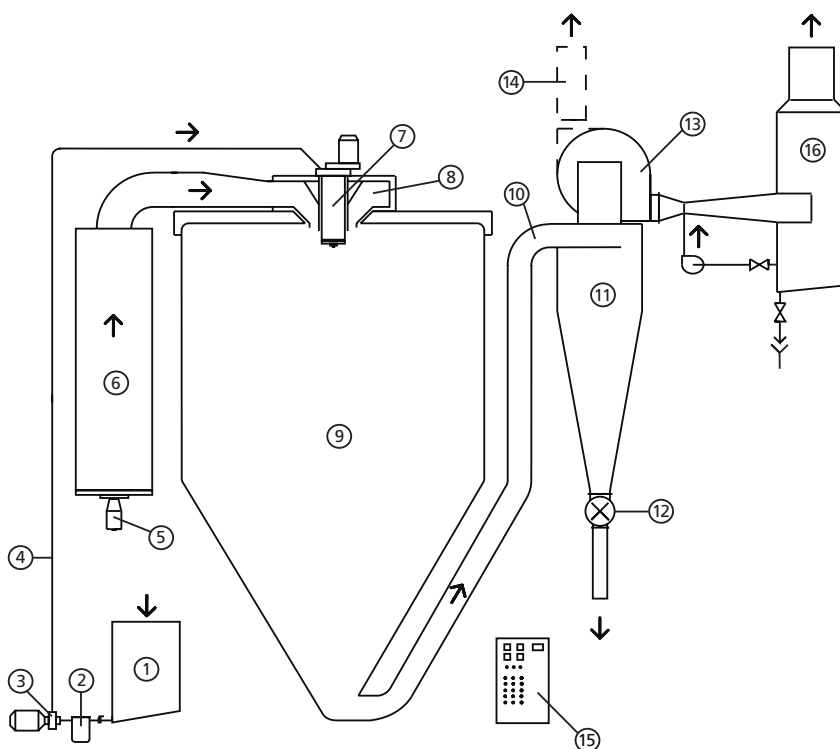
Phthalates, stearate, salicylate, lactate, benzoate, butyrate, gluconate, saccharate, sorbate, hydrazine, chloramine, urea, amino acids, salicylic, maleic, ascorbic acids.

### Tanning

Vegetal and synthetic tanning, chromic elements.



## Spray Dryer Components



1. Feed Tank
2. Product Filter
3. Dosing Pump
4. Piping Set, Valves and Accessories
5. Complete Burner
6. Direct Hot Gases Generator
7. Complete Atomizer
8. Hot Air Disperser
9. Drying Chamber with Doors and Sight Glass
10. Interconnection Conduits
11. Product Outlet Cyclone
12. Rotating Valve
13. Aspiration Fan
14. Chimney
15. Control Panel

## Optionals

- Effluent Gas Scrubber (16)
- Auxiliar Atomizer
- Indirect Oven
- Heat Insulation
- Pneumatic Transporter
- Double Product Output
- Powder Cooler
- Powder Hooper
- Explosion-Proof Door
- Temperatura Register
- Automation
- Spare Parts Lot

All equipment provided are self-supporting with stairs and platform with handrail.



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