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PRODUCT DATA SHEET
Catalogue reference for product evaluation

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Spray Dryer | NutriForge - 01

Category: Industrial Food Technology · **Country of Origin:** India

Product Overview

The Spray Dryer NutriForge - 01 converts liquid substances into free-flowing, nearly spherical dry powder with minimal thermal shock. This Spray Dryer operates in downward co-current mode with a 3kW heater and drying airflow up to 75 m³/h. It features digital temperature control, a manual jet de-blocking device, and stainless steel, PVC, and glass construction. The unit supports agglomeration, micro-encapsulation, and englobulation techniques across a wide range of materials.

View this product online: https://scienticoindia.com/product/spray-dryer-nutriforge-01/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Spray Dryer NutriForge - 01, Technical Specifications

Specification	Detail
Unit Type	Floor standing spray dryer for processing aqueous emulsions, solutions, suspensions and colloids
Operation Mode	Downward co-current operation (a fine jet of the liquid is brought into contact with a hot air stream)
Jet De-blocking	Manual jet de-blocking device incorporated
Delivery Condition	Unit supplied complete, ready for operation
Materials of Construction	Stainless steel, PVC, and glass
Dryer Components	Glass with gasket-free ground glass flanges
Inlet Temperature Display	Digital controller and display
Outlet Temperature Display	Digital display
Pump Speed Control	Rotary knob
Switches	On/off switches for the blower, heater, and mains supply

Technical Data

Product Flow Rate

Parameter	Value
Range	0~1.5L/h

Air Inlet Temperature

Parameter	Value
Range	0~200°C

Heater

Parameter	Value
Capacity	3kW

Drying Airflow

Parameter	Value
Range	up to 75 m³/h

Jet

Parameter	Value
Diameter	0.4~0.6mm

Key Features

Key Features

- **Unit Type:** floor standing, for aqueous emulsions, solutions, suspensions, and colloids
- **Operation Mode:** downward co-current
- **Jet De-blocking:** manual device incorporated
- **Materials:** stainless steel, PVC, and glass
- **Dryer Components:** glass with gasket-free ground glass flanges
- **Temperature Control:** digital controller and display for inlet, digital display for outlet
- **Pump Control:** rotary knob for speed adjustment
- **Switches:** on/off for blower, heater, and mains supply
- **Product Flow Rate:** 0~1.5L/h
- **Heater Capacity:** 3kW, part of this Spray Dryer

Experiments

- To dry the powder slurry in a continuous process and create granulated powder of desired quality
- This technique has successfully processed materials in the following areas: beverages, flavors and colorings, milk and egg products, plant and vegetable extracts, pharmaceuticals, heat sensitive materials, plastics, perfumes, dyestuffs, ceramics and advanced materials, soaps and detergents, textiles, foodstuffs, adhesives, and detergent powder

Construction and Design

The Spray Dryer NutriForge - 01 is a floor standing unit built for processing aqueous emulsions, solutions, suspensions, and colloids. It operates in downward co-current mode, bringing a fine jet of liquid into contact with a hot air stream. The jet has a diameter of 0.4 to 0.6mm. A manual jet de-blocking device is incorporated into the design. Materials of construction include stainless steel, PVC, and glass, with dryer components made of glass featuring gasket-free ground glass flanges. A digital controller and display show inlet temperature, ranged 0 to 200°C, while a separate digital display shows outlet temperature. A 3kW heater and drying airflow of up to 75 m³/h drive the drying process. A rotary knob controls pump speed, and on/off switches operate the blower, heater, and mains supply. The unit is supplied complete and ready for operation.

Scope of Delivery

- 1 experimental module
- 1 instruction manual

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.

- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

Q: What is the Spray Dryer NutriForge - 01 used for?
A: It is used to dry powder slurry in a continuous process, creating granulated powder of desired quality, and can process materials including beverages, pharmaceuticals, plastics, foodstuffs, and detergent powder.

Q: What is the product flow rate range?
A: The product flow rate ranges from 0 to 1.5L/h.

Q: What materials is the Spray Dryer made of?
A: The unit is constructed from stainless steel, PVC, and glass, with dryer components made of glass featuring gasket-free ground glass flanges.

Q: What is the air inlet temperature range?
A: The air inlet temperature ranges from 0 to 200°C.

Q: What is the jet diameter used in the spray assembly?
A: The jet diameter ranges from 0.4 to 0.6mm.

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