Kerone Engineering Solutions Limited

PILOT SPRAY DRYER

Environment Friendly Engineering Solution Company

48 *Year Of experience*

In Association with SVCH-Technologii, Moscow (Russia)

ISO 9001:2015 | ISO 14001:2015 | EMS 14001 | OHSAS 18001:2007

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Pilot Spray Dryer

Technical specifications

Minimum Order Quantity	1 Piece
Capacity	5 kg/hr to 60 kg/hr
Design	Customized
Material	S.S
Usage/Application	Food , Pharma , Chemical , Clays , Dyestuff , Leather, Pigment , Polymer , Textile
Max Temperature	400 Deg C (Variable & Settable)
Automatic Grade	Semi-Automatic
Condition	New
Type	Nozzle Type / Atomizer Type
Power Source	Electrical
Power Supply	Three Phase, 440VAC, 50 Hz
Spray System	Two Fluid Spray Nozzle
Feed Pump	Feed Pump
Heater	Electrical Heater

Pilot spray dryers represent a critical facet of industrial processes, facilitating the transformation of liquid feedstock into dry powder with precision and efficiency. At the core of their operation lies the fundamental principle of spray drying, where a liquid substance is atomized into fine droplets and rapidly dried to yield a powdered form.

Comprising essential components such as the atomization system, drying chamber, air supply mechanism, and product collection unit, these devices orchestrate a synchronized dance of processes. In the food industry, pilot spray dryers find application in the production of powdered substances like coffee, dairy products, and fruit extracts, enhancing shelf life and solubility. The pharmaceutical sector benefits from this technology as well, employing it to create dry powder formulations of medications, thereby improving bioavailability and ease of handling.

Beyond that, in the realms of chemicals and materials, pilot spray dryers contribute to the production of uniform particles with tailored properties, impacting industries ranging from pigments to advanced materials. As the intricacies of feedstock characteristics, process parameters, and scale-up challenges are navigated, the pilot spray dryer emerges as a versatile and indispensable tool, continually shaping the landscape of diverse manufacturing processes.

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Features

- Atomization System
- Drying Chamber Design
- Air Supply and Temperature Control
- Product Collection System
- Scale-Up Capabilities
- Process Monitoring and Control
- Versatility in Feedstock Handling
- Ease of Cleaning and Maintenance
- Safety Features
- Data Logging and Reporting

Application

- Food Industry
- Dairy Products
- Coffee and Tea
- Pharmaceuticals
- Medicine Formulations
- Chemicals and Materials
- Chemical Compounds
- Biotechnology
- Enzymes and Probiotics
- Ceramics
- Powdered Ceramic Materials
- Flavors and Fragrances
- Flavor Encapsulation
- Environmental Control
- Air Pollution Control Agents
- Nutraceuticals
- Dietary Supplements
- Textiles
- Dye Powders
- Research and Development

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