

Features

- Designed to demonstrate principle of spray drying method of aqueous solutions.
- Can be used for drying wide range of products.
- Comprehensive Instrumentation Panel with all necessary measuring instruments & Safety Devices.

Tesca Spray Dryer is designed for the rapid spray drying processes involving aqueous solutions, suspensions and colloids. The unit should analyze this drying method for obtaining powdered products from solutions, suitable for drying thermo-sensitive products. This spray dryer has been designed for educational and research laboratories and it enables to obtain the product micronized in short time, as well as valid data for scale up. The trainer consists of a heating system, drying chamber, collecting bottle, spray nozzle, peristaltic pump. The solution is sprayed into hot air inside the drying chamber using stainless steel spray nozzle. The dried products are collected in collecting bottle.

The hot air temperature can be controlled using a programmable controller. All parts in contact with the product are of stainless steel and of borosilicate glass. Detailed Operation & Maintenance Manual is provided along with the trainer.

Specifications

The unit comprises the following main items:

- Wheeled AISI 304 stainless steel structure
- Atomization system with stainless steel spray nozzle
- Peristaltic pump adjustable up to 1500 ml/h
- Variable speed fan
- Integrated compressor
- Heating system of 3000 W
- Temperature programmable up to 200-250°C
- Drying chamber of borosilicate glass with collecting bottle of borosilicate glass
- Pipe for exhausted vapours
- Touch screen control panel
- Complete theoretical-Experimental handbook including exercises in English Language
- The bidder should clearly indicate all the required services for a perfect operation

Experiment Capabilities

- Demonstration of the process of spray drying.
- Study various parameters affecting Spray drying process.

Services Required

- Electric Supply 230 V AC, 16 A, Single Phase, Earthed.
- Tap water supply & drainage



Note: Specifications are subject to change.

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