

Commercial proposal

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Vacuum sublimation freeze drying LG-10

DESCRIPTION

Laboratory vacuum sublimation freeze drying with an area of 0.2 m² with a weight of 300 kg. The doors of the drying cabinet and the cooled chamber are made of transparent polymethylmethacrylate to observe the process. Number of shelves -2. Ideal for research laboratories and pilot production. The freezer is a technical approach that can freeze aquifers in advance, and then elevate water in vacuum distillation to obtain dry powders. Aer freeze-drying, objects will be better for long-term storage, with me, with the addition of water, the product can return to the preliminary state and retain the original chemical and biological characteristics.

For thermal material, such as antibiotics, vaccines, blood products, enzyme hormones and biological products, lyophilization technology can show its superiority over ultrasonic drying. Complies with the GMP standard. We provide detailed instructions for setting up this model of the machine. Before sending the machine for sealing, machines are tested in production. Completeness and working capacity is guaranteed. We maintain a stock of parts and consumables in the warehouse. The price is indicated taking into account customs payments in Russia and delivery to the city of the client.

MANUFACTURER - CHINA



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SPECIFICATIONS

Vacuum sublimation freeze drying "LG-10"

Area of drying: 0.2 m²

Coolant temperature: ≤ -55 °C (empty load)

Temperature range of the paron: -45 °C \sim $+55$ °C

Paron layers: 2

Space for parons: 70 mm

Water intake capacity: 3 kg / 24 hours

Loading: 3 liters

Degree of vacuum: ≤ 10 Pa

Overall dimensions: 600mm x 600mm x 1200mm

Weight: 300 kg

Shipping Weight: 400 kg

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ADDITIONAL INFORMATION

Freezer model, patented lyophilization structure. Changed the traditional complex operation to prevent contamination of the material. The process of automation of drying is suitable for the production of quality products. Freezer chamber with programmable control of the heating shelf and regulation, allows you to accurately control the temperature. Human-computer interface with a widescreen LCD display, curve and data make information about the freeze-drying process available. Full process of pre-freezing and drying in one machine. The freezer is equipped with inspection windows, and the drying process is intuitive. The process of operation of this equipment consists in placing in the freeze drying chamber vials of liquid material, followed by obtaining dried powder. Pre-rinsed and dried glass penicillin bottles are used in which the material is poured. Then the vials are sealed with special rubber stoppers having side slits in the part that enters the mouth of the vial. Capping is not done until the end but by 50%, only to fix the rubber stopper in the neck of the bottle. Subsequently, through the sloped vacuum, the liquid is pumped out of the vial. In the final stage, after complete dehydration of the material, the cork is completely capped by hydraulic moving shelves. Thereby, the drying takes place in a vacuum medium, and then the material is finally packed in a vacuum. This gives (in contrast to other types of such drying) to keep the material in a vacuum for 1-2 years. After the vials are evacuated, the chamber can be opened and an automatic or semiautomatic fixation of the rubber stopper with an aluminum cap can be made. Caps are put on the neck of the bottle and sealed. According to the manufacturer of the equipment, with this technology it is possible to completely restore the life of the material after dehydration at the opening of the vacuum package within 4-5 hours. Storage in vacuum of the material is possible at a temperature not exceeding +36 degrees C. The equipment manufacturer has a large laboratory that, together with the pilot production, can conduct any research of your material, obtain samples of products in dried form and packed in vacuum for further research by customers.

PRODUCTION TIME 30-40 DAYS
ESTIMATED DELIVERY TIME 30-40 DAYS

PRICE 12711,86 USD
VAT 2288,14 USD

VALUE 15000.00 USD

Payment is made in rubles to the account in Moscow
at the rate of the RF Central Bank

OUR SERVICES FOR CLIENTS:

1) TRAINING SUBLIMATION TECHNOLOGIES.

We training on our equipment before buying. Tesng of materials. We provide consultaons on the organizaon of producon of lyophilic materials, with a full range of addional equipment and consumables (boles, special plugs, aluminum caps).

2) COMPLETE LABORATORIES FOR PHARMACEUTICAL PRODUCTION.

We have a laboratory test lyophilizer for the producon of pilot batches in Russia, which we provide to our customers. You can always contact us with your ideas and requests. Currently, the manufacturer has almost 20 variees with a useful shelf area from 1 m2 to 40 m2.

3) DELIVERY OF SUBLIMATION EQUIPMENT.

The products fully comply with the new GMP requirements. The release of equipment for advanced technology is accompanied by strict quality control, vericaon of all documentaon, well-organized aer-sales service of equipment.

4) SPARE PARTS SUPPLY

The manufacturer can also change the parameters of freeze drying based on the goals and objecves of the customer. In comparison with comparable products, this freeze drying is more ecient. Service center in Russia for the CIS countries.



Roman Tsibulsky

Owner and supervisor
ROMAN TSIBULSKY