

RSM Sterillizing Drier



Installation for drying and sterilizing of ampoules RSM automatically performs the following procedures: supply of container, heating, drying and sterilizing, cooling, unloading of finished products. Through the use of laminar flow technology, and high-speed hot air sterilization, the equipment meets the purity level 3 (US standard - Class 100). Our plant for drying and sterilization of vials can be used both independently and in conjunction with other equipment, such as bottle washing machine, installation for filling and sealing machine, etc.

This equipment is mainly used for the sterilization and drying of various small glass vials 1 - 20 ml vials, 5 - 25 ml vials of liquid for oral administration and 2 - 20 mL tubes with penicillin.

Characteristic:

1. The uniform heating of the container.
2. The rate of air flow into heating zone and cooling zone is $0.45 \text{ m / s} \pm 20\%$. The air flow rate in the high temperature zone is $0.6 \text{ m / s} \pm 20\%$. The difference between the air pressure in the cooling zone and the outlet is 10 to 15 Pa, thus, pressure inside the tunnel remains higher than the pressure outside the tunnel.
3. chain drive and conveyor with side protective wall ..
4. High-temperature fan comes with a cooling system circulating water.
5. PLC, the interface "man-machine" to monitor the working condition of the equipment. Causes of faults and easy solutions to problems appear in using the interface.
6. Stainless steel tubular electric heater provides rapid increase in temperature and even heating. Range of temperature control: 350 degrees.
7. When the tunnel the temperature below 100 degrees, the control system automatically switches off the power supply, but at a temperature over 100 degrees, the fans can not be disabled, for highly effective protection of the dry air filter. Each fan is controlled by a sensor.

8. The system is equipped with safety devices. If the car does not reach the predetermined temperature, washing was stopped and the conveyor operation. In case of failure by going to one fan, dryer stops heating.
9. Surface air cooler.
10. Upon request, we can equip the conveyor device CIP.
11. Through the use of new technologies filter life significantly increased due to the uniform distribution of air pressure.
12. The control system provides two modes of control: day and night. When night mode is significant energy savings.

Technical specifications:

Type	The volume of container	Performance (max)	Width conveyor	Sterilization temperature	Power	Net Weight (kg)	Dimensions (mm)
RSM620/38	1-20 ml ampoule	30000 pcs / h	600 mm	300°C	44 kWt	3000	3280*1850*2380
RSM620/43	2-25 ml vials	15000 pcs / h	600 mm	350°C	51 kWt	3600	3500*2100*2380
RSM900/60	1-20 ml ampoule 2-25 ml vials	36000 pcs / h 22000 pcs / h	900 mm	350°C	70 kWt	46000	4500*2100*2380

The design of tunnel type machine has three zones: a preheating zone, a high-temperature sterilization zone and a cooling zone. Major items of equipment: front container laminar flow, high-temperature sterilization station, rear container laminar flow, frame, conveyor belts, exhaust air system and control cabinet.

As a specialized Chinese manufacturer and supplier of ultrasonic washing machines, the company FE Pharmatech also offers machines for lids sealing linear labeling machines, blow molding machines for PET bottles line type, leak detectors, and more.