

FD-20R Freeze Dryer

FD-20R is a commercial freeze dryer design and produce under FDA, could use for almost all edible products vacuum freeze drying, multi apply to food, fruit, vegetables, meals, herbs, coffee, soup etc.

Available shelf area 20.6sq.m and ice capacity 250L in 24hrs, per batch could handle MAX 250L liquid or 200kgs solid products, FD-20R also is an put in and take out freeze dryer, the shelves have freezing function, temperature as low as -40C, put fresh products in, set freeze drying curve, start machine, and dried products out.

DETAIL PHOTOS



Integrated Structure



AISI304 Drying House



AISI304 Ice Condenser



Germany BITZER Compress



Germany LEYBOLD Vacuum Pump



Touch Screen+PLC Controller



- *Drying House could be rectangular or cylindrical.*
- *Shelves and trays could be stainless steel or aluminum.*

Technical Details:

Model	FD-20R
Shelf area	20.6sq.m
Ice capacity	250kg/24hr
Shelves	13+1
Shelf size	1260*1380mm
Material tray size	610*650mm
Material tray quantity	52pcs
Shelves temp.	-40 to +120°C
Condenser temp.	< -65°C
Vacuum degree	<15Pa
Power install	50kwh
Drying House Size	4000*2700*3500mm
Voltage	380V/50-60Hz/3P
Design standard	FDA, GB, CE

Technical Details:

- Integrated structure, open type mechanical system.
- Stainless steel 304 material for drying house, ice condenser and trays. Aluminum alloy optional.
- Insulated drying house and ice condenser, a higher energy efficient. Drying house shape could be economic price cylindrical or higher energy efficient/space using rate rectangular.
- Bitzer double stage compressor system could cool ice condenser to -60°C and shelves -40°C.
- Hollow shelves with fluid filled, temperature raise by electric heater, During sublimation shelf temperature could programming from -40°C to +70°C with accuracy of ±1°C.
- All temperature probe use high quality PT100-A, precision control temperature.
- Leybold vacuum pump system final vacuum <1Pa.
- Anti-frozen glass window installed in front door, side drying chamber, and side ice condenser, convenient check drying house condition.
- Safety hand lock door.
- PLC + Touch screen controller.
- Pneumatic system for valves quick open or close.
- Vapor guidance technology and ice condenser design, strong guarantee ice condenser icing efficient and capacity.