

Freeze drying Experts



Genius Industries



+91 9422328060 / 7038838060



info@geniuslok.com



www.geniusfreedryers.com
www.geniuslok.com



Unit 2, Gat No 287, Near Kolhapur
Auto, Next To Gokul Shirgaon MIDC,
Kaneriwadi, Kolhapur, Maharashtra,
India-416234

About Genius

Our products are designed with the user in mind, and are tailored to provide custom solutions for businesses of all sizes. Our products are user friendly design, and designed to meet your specific needs.



Vision & Mission

Vision

We will be a worldwide organization respected for value service & product

Mission

Create an organization where people enjoy working for and doing business with





Milestone

**opportunities don't happen.
You create them.**

2013

Genius's journey started in design - erection of commercial kitchen for Hospitality sector

2018

First 33 TR Heat Recovery Unit installed in 100 TPD press mud processed Bio CNG plant.

2020

First 1000 Kg / batch Heat Pump Dehydrator successfully erected in Resin Processing Industry

2023

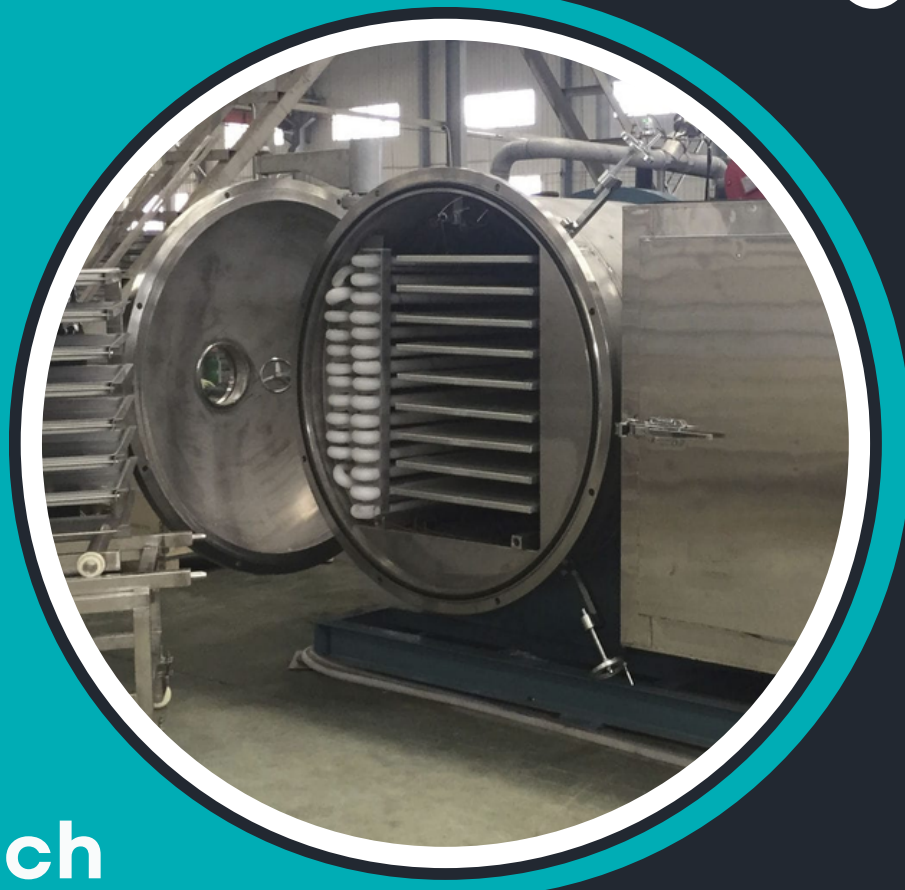
First 150 kg/ batch Vacuum Freeze Dryer Successfully erected in Multifruit processing unit



GFD2.5

2.5 Kg/batch

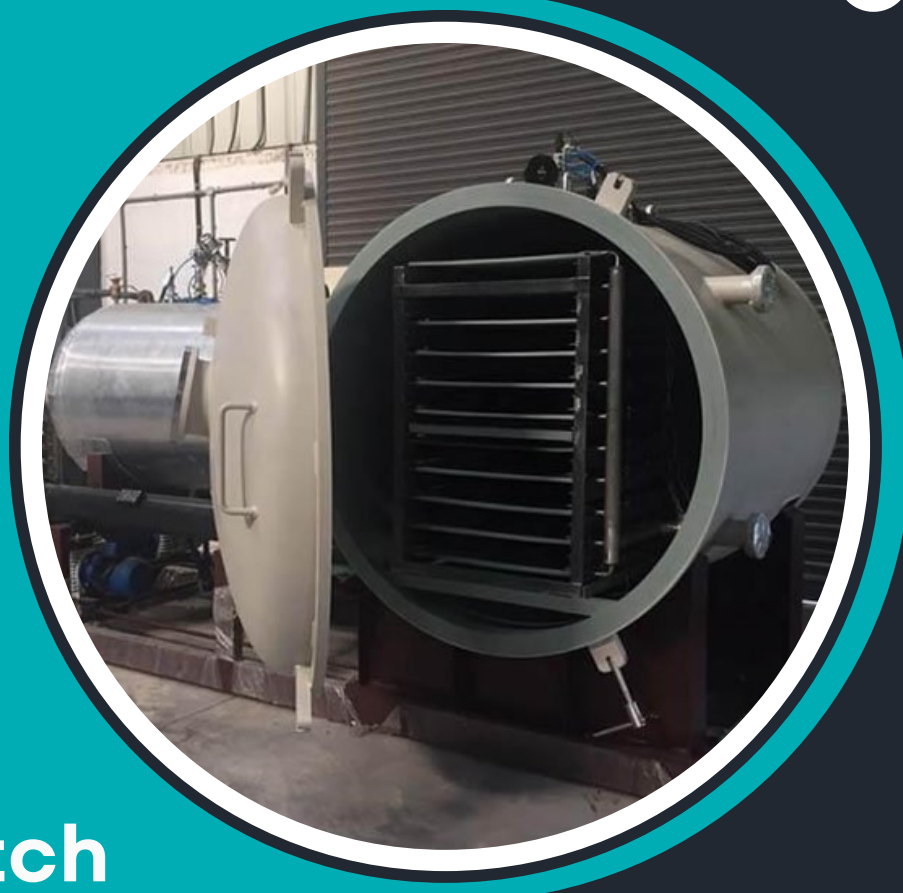
Ice <u>condenser</u> capacity	2.5 KPD
No <u>fo</u> shelves & freeze drying area	03 (+01)/ 0.37 sqm
Tray size in mm & MOC	405 x 300 / ss304
Shelve <u>spacing</u>	30 mm
Min & Max shelve temp	-35 & +70 Deg C
Defrost mechanism & time	Electrical - Hot gas / 02 min
Heating capacity	20 watt / shelve
Max <u>vacuum</u>	< 5 Pa
Pump <u>down</u> time to 0.1 mbar	20 min (Unloaded)
Cooling system / Refrigeration	Air cooled/ R404
Pri- <u>freezing</u>	Internal
MOC - Chamber/Door/ Structure	SS304-Alu/ acrylic/MS
Total Power	230 VAC/ 50 Hz/ 1.5Kw
Overall Size & weight of mc	760 x 650 x 1200 mm & 150 kg



GFD25

25 Kg/batch

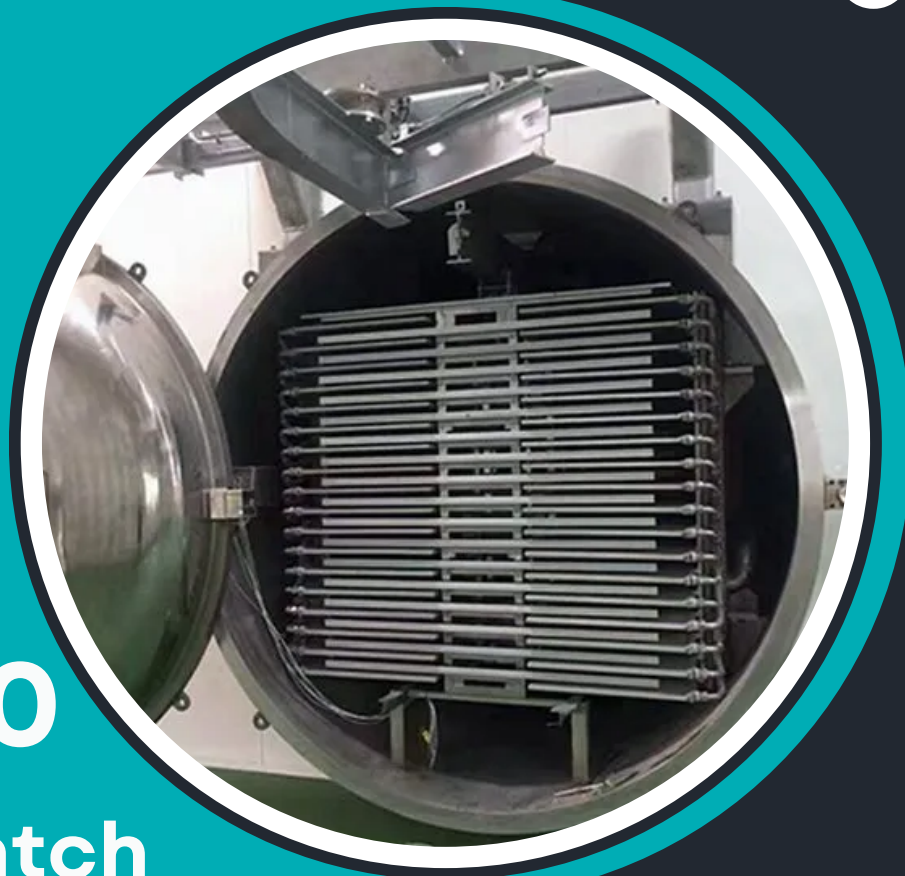
Ice <u>condenser</u> capacity	25 KPD
No <u>of</u> shelves & freeze drying area	06 (+01)/ 2.6 sqm
Tray size in mm & MOC	1000 x 350 / ss304
Shelve spacing	50 mm
Min & Max shelve temp	-35 & +70 Deg C
Defrost mechanism & time	Electrical - Hot gas / 30 min
Heating capacity	400 watt / shelve
Max vacuum	< 5 Pa
Pump down time to 0.1 mbar	20 min (Unloaded)
Cooling system / Refrigeration	Air cooled/ R404
Pri- <u>freezing</u>	Internal
MOC - Chamber/Door/ Structure	SS304-Alu/ acrylic/MS
Total Power	400 VAC/ 50 Hz/ 6.5Kw
Overall Size & weight of mc	1200 x 1700 x 1250 mm & 400 kg



GFD50

50Kg/batch

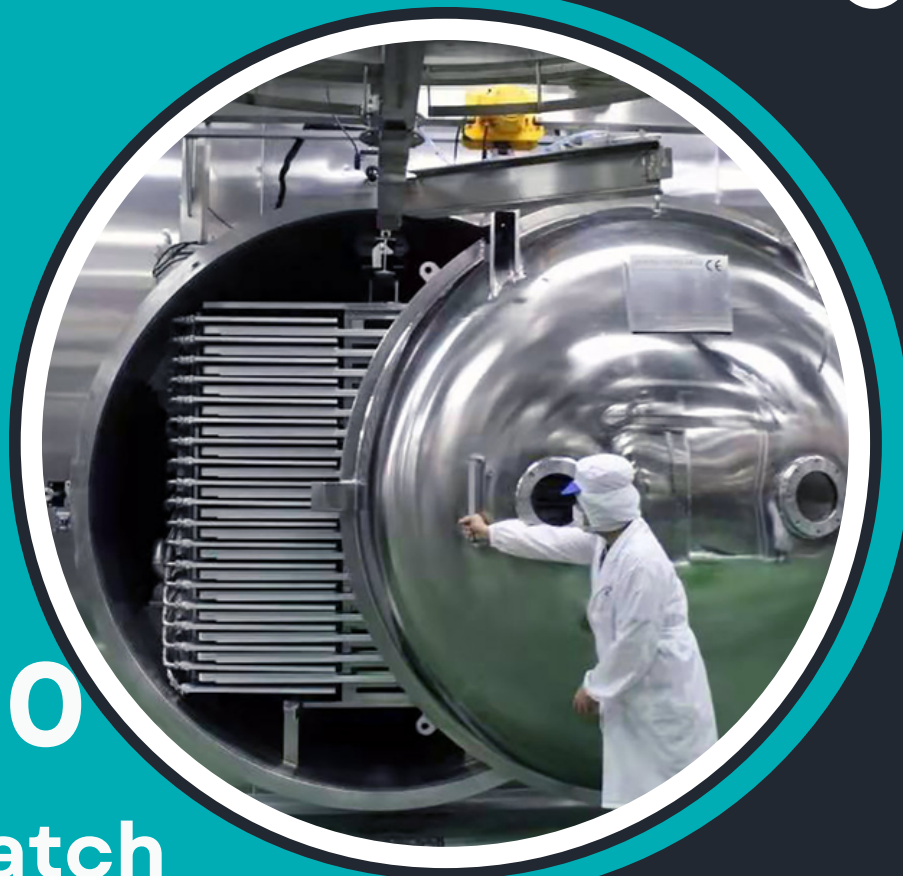
Ice <u>condenser</u> capacity	150 KPD
No <u>of</u> shelves & freeze drying area	48/ 11 sqm
Tray size in mm & MOC	600 x 400 / ss304
Shelve spacing	45 mm
Min & Max shelve temp	-35 & +70 Deg C
Defrost mechanism & time	Electrical - Hot gas / 30 min
Heating capacity	200 watt / shelve
Max vacuum	< 5 Pa
Pump down time to 0.1 mbar	20 min (Unloaded)
Cooling system / Refrigeration	Water / Air cooled/ R404
Pri- <u>freezing</u>	External
MOC - Chamber/Door/ Structure	SS304-Alu/ acrylic/MS
Total Power	400 VAC/ 50 Hz/ 20Kw
Overall Size & weight of mc	5500 x 1800 x 1500 mm & 2000 kg



GFD100

100Kg/batch

Ice <u>condenser</u> capacity	250 KPD
No <u>of</u> shelves & freeze drying area	72/ 17.3 sqm
Tray <u>size</u> in mm & MOC	600 x 400 / ss304
Shelve <u>spacing</u>	45 mm
Min & Max shelve temp	-35 & +70 Deg C
Defrost mechanism & time	Electrical - Hot gas / 30 min
Heating capacity	200 watt / shelve
Max <u>vacuum</u>	< 5 Pa
Pump <u>down</u> time to 0.1 mbar	20 min (Unloaded)
Cooling system / Refrigeration	Water cooled/ R404
Pri- <u>freezing</u>	External
MOC - Chamber/Door/ Structure	SS304-Alu/ SS304/MS
Total Power	400 VAC/ 50 Hz/ 25Kw
Overall Size & weight of mc	7000 x 1800 x 1100 mm & 4300 kg



GFD200

200 Kg/batch

Ice <u>condenser</u> capacity	duel de-icing / 325 kg
No <u>fo</u> shelves & freeze drying area	102/ 30.8 sqm
Tray size in mm & MOC	600 x 400 / ss304
Shelve spacing	35 mm
Min & Max shelve temp	-35 & +70 Deg C
Defrost mechanism & time	Electrical - Hot gas / 30 min
Heating capacity	400 watt / shelve
Max vacuum	< 5 Pa
Pump down time to 0.1 mbar	40 min (Unloaded)
Cooling system / Refrigeration	Water cooled/ R404
Pri- <u>freezing</u>	External
MOC - Chamber/Door/ Structure	SS304-Alu/ SS304 /MS
Total Power	400 VAC/ 50 Hz/ 35 Kw
Overall Size & weight of mc	2000 x 2300 x 1100 mm & 2500kg

Our Project

2023- 150 KPD FOR FRUIT DRYING CDP-MAHARASHTRA GOVT

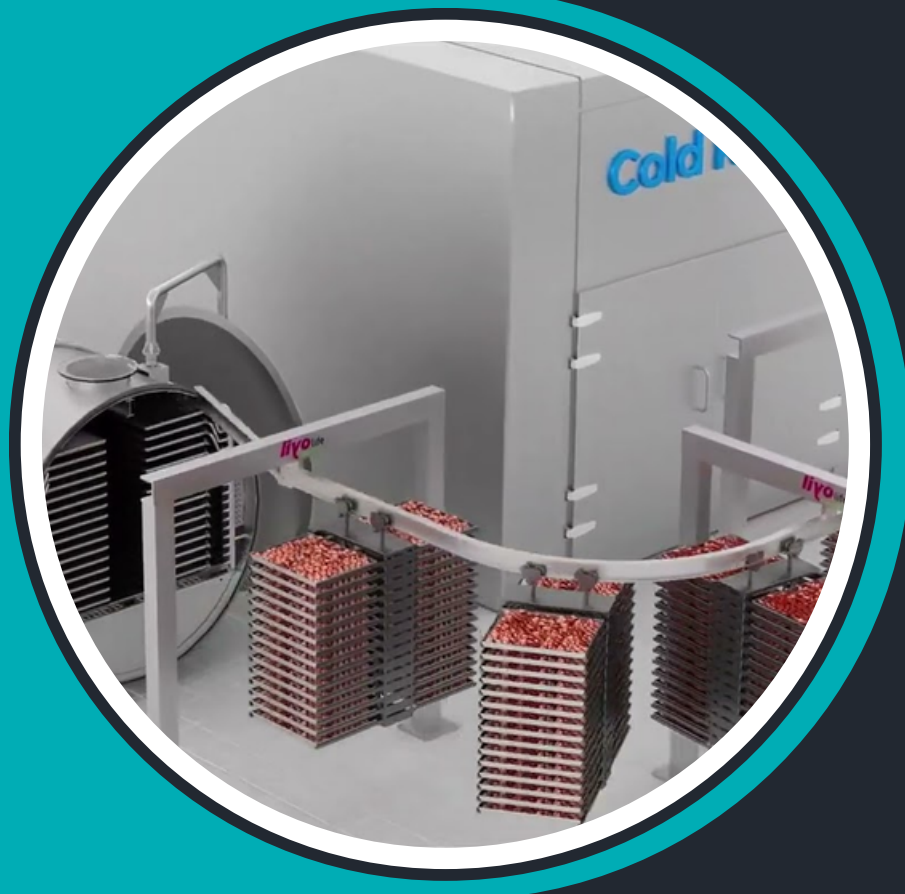
2024- 150 KPD FOR RTE, KOLHAPUR, MAHARASHTRA

2024 - 5 KPD FOR R&D, NASHIK, MAHARASHTRA

2024 - 10 KPD FOR RTE & FRUITS, KOLHAPUR, MAHARASHTRA



Technology acquired and product developed in remarkable time frame of only one year.



Genius Industries



+91 9422328060, 7038838060



info@geniuslok.com



www.geniusfreezedryer.com
www.geniuslok.com



Unit 2, Gat No 287, Near Kolhapur
Auto, Next To Gokul Shirgaon MIDC,
Kaneriwadi, Kolhapur, Maharashtra,
India-416234