

S.No.	Bench Top Lyophilizer Specifications	
1	Model	GMP Table top Freeze dryer
2	Condenser temperature min. (°C)	-85°C
3	Lowest Shelf temperature range	-67°C to -70°C
4	System Dimension external(WxDxH)	~654mmx710mmx730mm
5	Temperature sensor probe	2Nos, Type "T" Product Probes
6	Shelf Temperature control range	-55°C to + 60°C
7	Shelf Temperature uniformity	±0.1° C at 0° C
8	Maximum deposition rate	0.08L/hr
9	Compressor Horsepower	1/3, 1/3 HP
10	System refrigeration	R508B, R407C or higher grade
11	Display	LCD display of process parameter
12	Shelf Pull-Down from 20 °C to -40 °C	≤ 45 min
13	Compressor	Dual compressor
14	Process control	Minimum SCADA required
15	Interface	RS – 232/ethernet
16	Ambient temperature for operating range	15 to 25°C
17	Alarm	Audible and visible, Error code display
18	Bulk drying shelf area	Min. 900 cm ²
19	Vacuum rate of raised	≤ 60 mT/hour (≤ .08 mbar/hour)
20	Pneumatic clearance & shelf clearance	Min.117mm
21	Shelf construction (MOC)	Corrosion-Resistant Surface or higher spec.
22	No of Shelf required	1 no
23	Safety	Equipment should possess universal safety requirements.
24	Agency approvals	CE or ISO certification required
25	Documentation	supporting documents to be Provided
26	Warranty	Warranty certificate should be provided for 1 year. Compressor warranty should be provided
27	Side manifold inbuilt in the system	4No.s- 3/4" Quickseal valves present in any side
28	Type	fully automated
29	Vial Capacity	minimum 300nos
30	Vial specification	2R vials as per standard
31	Lyo recipe storage capacity	minimum 15number storage
32	condenser ice removing method	deforesting
33	full stoppering method	Automatic
34	live recipe editing	required
35	presence of silicon oil while heating and cooling	required
36	final chamber vacuum	0.0000Mbar
37	vacuum release	By using sterile air\ N2 is required