

Laboratory freeze-dryer CRYODOS

The CRYODOS is a laboratory freeze-dryer specially developed for basic research in biotechnology and scientific institutes. The unit is designed and constructed according to GLP requirements. The equipment is easy to use and has very low maintenance requirements.



CODE	MODEL
23750	CRYODOS -50 / 220V 50 Hz
22960	CRYODOS -80 / 220V 50 Hz
23745	CRYODOS -50 / 220V 60 Hz
27544	CRYODOS -80 / 220V 60 Hz
23756	CRYODOS -50 / 110V 60 Hz
27545	CRYODOS -80 / 110V 60 Hz

general features

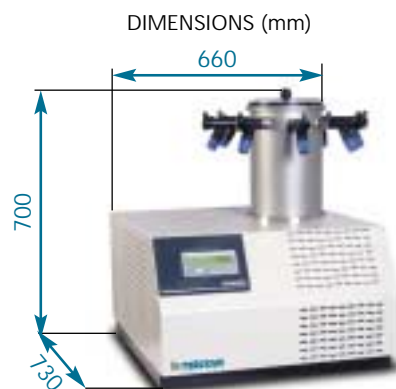
- Bench mounted table-top unit: It houses the refrigeration system and the vacuum pump. Constructed in a steel stove enameled cabinet with front door for maintenance purposes.
- Two stage vacuum pump: Supplied with Gas-Ballast to remove water vapour or other condensable that could reach the pump. Exhaust filter included.
- Air-cooled refrigeration system: Hermetically sealed. Ozone friendly refrigerant.
- Condenser: Consisting of a co-axial coil inside a drum type manifold. A top transparent acrylic lid provides viewing of the ice forming process.

- Ready to work: the 8-off 3/4" (18 mm) diameter rubber valves allow the connecting of several accessories to freeze dry simultaneously products in flasks (29/32 mm connection), vials or bulk, as required by the user.
- Hardness and durability: Coil and drum constructed in AISI-316 stainless steel.
- Microprocessor controlled system: a digital screen gives direct read-out of current condenser and vacuum temperatures during the various stages of the cycle.

basic unit technical data

	UNITS	CRYODOS -50	CRYODOS -80
Condenser capacity	kg (of ice)	4 (1.5 kg/24h)	4 (4 kg/24h)
Final temperature in condenser*	°C	<-50	<-80
Number of compressors	-	1	2
Nominal vacuum pump flow	m ³ /h	5	6
Base unit weight	kg	60	90
Voltage (single phase)	V-Hz	230 - 50/60	230 - 50/60
Total power	kW	1	1.5

*All temperatures are given for room temperature of +21°C



accessories

REFERENCE	ACCESSORIES	DESCRIPTION
7801	Stoppering Chamber	Glass cylindrical chamber with 3 non thermostated shelves and manual vial closing device. Includes 3 trays (for vials and serum)
8956	Chamber	Chamber 200 mm Ø, with 3 shelves and 3 trays (for vials, serum bottles and raw material)
7917	40 port manifold	40 tube manifold
70205	8 port manifold	Including 8 rubber three way valves CN 29/32 for flasks
7820	Adaptor plate for manifolds	Adaptor to place manifolds on the base unit



Stoppering chamber



Chamber



40 Port Manifold



8 Port Manifold

accessories technical data

	UNITS	CRYODOS -50	CRYODOS -80
Dimensions cylindrical chamber (ØxH)	mm	200 x 250	200 x 250
Tray dimensions (working Ø)	mm	160	160
Distance between shelves	mm	75	75

in-factory options

21OC2	Special vacuum pump	Vacuum pump specially prepared for freeze drying corrosive products
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