



Telstar® *LyoAlfa 10/15*

Laboratory Freeze-dryer



Telstar LyoAlfa 10/15 Laboratory Freeze-dryer

The optimal solution for laboratories:

With more than 45 years of experience, **Telstar** introduces the **New LyoAlfa** equipment, particularly suitable for research departments requiring large freeze-drying capacities.

This laboratory unit is especially suitable for the R&D centres in industries, universities, hospitals and scientific institutes. It has been designed according to the GLP principles in order to comply with the strictest international standards.

This model incorporates unique and high level control performances, as well as excellent technical features.

LyoAlfa 10/15 control panel screens



Outstanding features

- Compact console design with casters in order to make it easy to install.
- Two different process oriented control systems, both PLC based, adapts the unit to every requirement:
 - Basic control for **LyoAlfa 10/15 Series**: Manual pressure control and shelves temperature control.
 - Plus control **LyoAlfa Plus 10/15 Series**: Automatic Pressure control and shelves temperature programming.
- Touch screen that displays system operation parameters and alarm messages. Very wide and useful information and setting selection is provided.
- Monitoring software LyoLogger to connect unit to PC: standard unit including RS232 port.
- Unit allows fully automatic or semiautomatic process. Auto-start up and automatic switch off routines are included.
- Pressure control: manual control (for LyoAlfa 10/15 Series) or automatic control of vacuum (for LyoAlfa Plus 10/15 Series) for faster freeze drying and reproducible results.
- Isolation valve between chamber and condenser, very useful to test freeze-drying end point by controlling the pressure raising in the chamber.
- Side mounted vacuum and drain connections with valves.
- Upright AISI 316L condenser with total capacity up to 22 kg.
- Automatic defrosting function. Condenser design allows easy and quick cleaning and defrosting.
- Two choices of temperature: -55°C and -85°C.
- Wide range of accessories and options to accommodate to every freeze drying application.

Code	Model
C37583	LyoAlfa 10 -55
C50224	LyoAlfa 10 -85
C37585	LyoAlfa 15 -55
C39204	LyoAlfa 15 -85
C66622	LyoAlfa Plus 10 -55
C66623	LyoAlfa Plus 10 -85
C66624	LyoAlfa Plus 15-55
C66625	LyoAlfa Plus 15-85



Technical Data

Features	Units	LyoAlfa 10 and LyoAlfa Plus 10		LyoAlfa 15 and LyoAlfa Plus 15	
		LyoAlfa 10-55	LyoAlfa 10-85	LyoAlfa 15-55	LyoAlfa 15-85
Ice condenser capacity	kg	16,5	16,5	22	22
Final condenser temperature*	°C	-55	-85	-55	-85
Number of compressors	-	1	2	1	2
Base unit weight	kg	170	200	190	220
Total power	kW	1,7	2,2	2	3

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

Accessories

Ref.	Accessories	Description
C34019 + C33506	Chamber with isolation valve	CHAMBER Acrylic cylinder chamber with 4 heatable shelves (for raw material and bulk). It includes an additional upper shelf in order to thermally balance the equipment. It also includes isolation valve between chamber and condenser.
C34019 + C34072 + C33506	Stoppering chamber with isolation valve	Acrylic cylinder chamber with 4 heatable shelves and manual vial closing device (for vials and serum). It includes an additional upper shelf in order to thermally balance the equipment. It also includes isolation valve between chamber and condenser.
C32893	12 port manifold	MANIFOLD 12 horizontal port stackable manifold including 12 rubber valves (for flasks or wide-neck filter bottles with connection CN29/32).
C7917	40 port manifold	40 port manifold including 13 mm outer diameter tube manifold (for ampoules).
C66626	Adaptor plate	Adaptor to place manifolds on the base unit.

Accessories Technical Data

ACCESSORY	UNITS	DIMENSIONS
Chamber		
Dimensions chamber with isolation valve	mm	Ø 400 x 480
Dimensions stoppering chamber with isolation valve	mm	Ø 400 x 645
Product tray dimensions	mm	Ø 300
Clearance between shelves	mm	70
Total loading surface	cm ²	2825
Manifold		
Drying in round bottom flasks or wide-neck filter bottles	units	12/24
Drying in ampoules	units	40/80



Chamber



Stoppering chamber



40 port manifold



Stackable 12 port manifold with adaptor plate

