



Telstar[®] LyoQuest

Laboratory Freeze-dryer





Extremely compact while incorporating robust technical features and outstanding control performances.

The Telstar **LyoQuest** benchtop freeze dryer has been developed to meet the most demanding requirements of a research freeze dryer.

Based on more than 40 years of experience, Telstar introduces the **LyoQuest** as state of the art in performance and process control. The unit was specifically developed for basic research in biotechnology and scientific institutes.

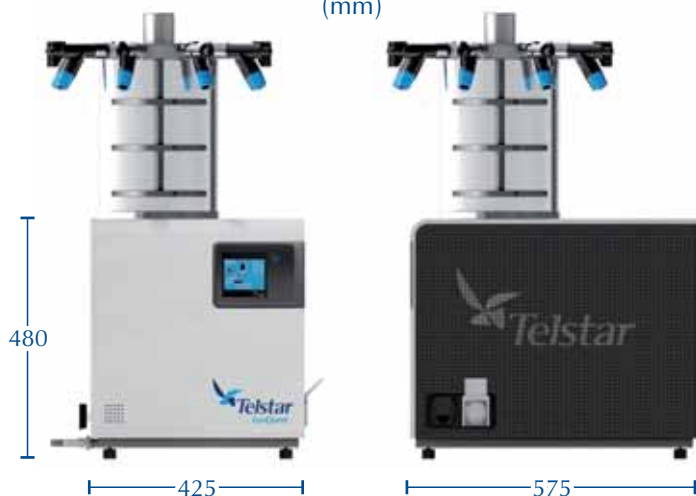
LyoQuest control panel screens



Outstanding features

- Extremely compact bench mounted table-top unit. Large capacities of condensation (6 kg/24 h) in the minimum possible space.
- Two different process oriented control systems, both PLC based, adapts the unit to every requirement:
 - Basic control for **LyoQuest** Series: allows manual pressure control and shelves temperature control.
 - Plus control for **LyoQuest Plus** Series: allows automatic pressure control and shelves temperature programming.
- Touch screen that displays system operation parameters and alarm messages. Descriptive and timely information display and setting selection is provided.
- Monitoring software (LyoLogger) to connect unit to PC available.
- Unit allows fully automatic or semiautomatic work. Auto-start up and automatic switch off routines are included.
- Pressure control: manual control (for **LyoQuest** Series) or automatic control of vacuum (for **LyoQuest Plus** Series) for faster freeze drying and reproducible results.
- Side mounted vacuum and drain connections with valves.
- Upright AISI 316L condenser with total capacity of 8 kg, which permits freezing of the samples.
- 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 every freeze drying application.

Dimensions (mm)



Code	Model
C61644	LyoQuest -55 / 230 V 50Hz
C58201	LyoQuest -85 / 230 V 50 Hz
C61646	LyoQuest -55 / 230 V 60 Hz
C61647	LyoQuest -85 / 230 V 60 Hz
C61652	LyoQuest -55 / 110 V 60 Hz
C61650	LyoQuest -85 / 110 V 60 Hz
C61653	LyoQuest -55 PLUS / 230 V 50Hz
C61654	LyoQuest -85 PLUS / 230 V 50 Hz
C61655	LyoQuest -55 PLUS / 230 V 60 Hz
C61656	LyoQuest -85 PLUS / 230 V 60 Hz
C61658	LyoQuest -55 PLUS / 110 V 60 Hz
C61657	LyoQuest -85 PLUS / 110 V 60 Hz

Technical Data

Features	Units	LyoQuest		LyoQuest Plus	
		LyoQuest -55	LyoQuest -85	LyoQuest -55	LyoQuest -85
Ice condenser capacity	kg	5 (5 kg/24h)	5 (5 kg/24h)	8 (5 kg/24h)	8 (6 kg/24h)
Final condenser temperature*	°C	<-55	<-85	<-55	<-85
Number of compressors	-	1	2	1	2
Base unit weight	kg	65	70	65	70
Total power	kW	1,1	1,4	1,1	1,4

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

Accessories

Standard Chamber (allows control of temperature from ambient temperature to +70°C)

Reference	Accessories	Description
C62302	Standard chamber	Cylindrical glass chamber with 3 heatable shelves (for raw material and bulk)
C61660	Standard chamber with 8 port manifold	Cylindrical glass chamber with 3 heatable shelves (for raw material and bulk), and 8 port manifold with valves (for flasks or wide-neck filter bottles with CN29/32 connection)
C61659	Standard stoppering chamber	Cylindrical glass chamber with 3 heatable shelves, manual vial closing device (for vials and serum)
C58913	Standard stoppering chamber with 8 port manifold	Cylindrical glass chamber with 3 heatable shelves (for vials and serum), manual vial closing device and 8 port manifold with valves (for flasks or wide-neck filter bottles with CN29/32 connection)

Large capacity chamber (allows control of temperature from ambient temperature to +70°C)

Reference	Accessories	Description
C7852	Large capacity chamber	Cylindrical glass chamber with 3 heatable shelves (for raw material and bulk)
C7852+ C7904	Large capacity stoppering chamber	Cylindrical glass chamber with 3 heatable shelves, manual vial closing device (for vials and serum)

Manifolds

Reference	Accessories	Description
C70205	8 port manifold	8 port manifold including 8 rubber three way 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)
C62332	Adaptor plate for manifolds and large capacity chamber	Adaptor to place manifolds and large capacity chambers on the base unit
C61683	Drip tray	Tray which protects the freeze-dryer from condensation

Accessories Technical Data

Accessory	Units	LyoQuest
STANDARD CHAMBER		
Dimensions, standard chamber	mm	Ø215x300
Dimensions, standard chamber with 8 port manifold	mm	Ø490x300
Dimensions, standard stoppering chamber	mm	Ø215x470
Dimensions, standard stoppering chamber with 8 port manifold	mm	Ø490x470
Tray dimensions	mm	Ø160
Distance between shelves	mm	70
Total loading surface of the product trays	cm ²	600
LARGE CAPACITY CHAMBER		
Dimensions, large capacity chamber	mm	Ø315x440
Dimensions, large capacity stoppering chamber	mm	Ø315x640
Tray dimensions	mm	Ø240
Distance between shelves	mm	100
Total loading surface of the product trays	cm ²	1350
MANIFOLD		
Drying in round bottom flasks or wide-neck filter bottles	units	8/16
Drying in ampoules	units	40/80
Drip tray	mm	Ø730



Standard stoppering chamber with 8 port manifold



Standard chamber with 8 port manifold



Standard chamber



Stoppering chamber



Large capacity chamber



Large capacity stoppering chamber



40 port manifold



8 port manifold



Drip tray

