

Environmentally friendly Laboratory Freeze-dryer

Telstar presents the new ARTIC series of environmentally friendly freeze dryers that operate with natural gases. The LyoQuest Arctic the most compact unit of the range is an innovative bench-top laboratory freeze dryer that integrates pre-freezing, primary drying and secondary drying processes avoiding the use of conventional HFC or HFO cooling gases.

With Natural Gases Refrigeration

From 2020 the use of fluorinated greenhouse gases, with a global warming potential of 2500 or more is prohibited.

The new LyoQuest Arctic freeze-dryer, which operates with natural gases R-170 (Ethane) & R-290 (Propane) with a GWP of 6 & 3 respectively, guarantees long-term compliance with increasingly restrictive International regulations (F-gas normative).



Design features

- Compact bench mounted table-top unit
- Plug and play freeze-dryer
- Color Touch screen
- AISI 316L condenser with total capacity of 8kg which also allows freezing of the samples
- Air cooled
- Vacuum pump outside the cabinet
- Vacuum control through main Lyoquest touch-screen
- Heating system for the shelves included up to 70°C
- Simple electrical connection to the network
- System control by PLC + Touch-screen;
 - Features: Condenser temperature, Shelves temperature, 2 Product temperature, Pressure value, Process time, Alarms & events, Recipes
 - User friendly interface
- Easy to start-up and use

Technical Data

	units	LyoQuest Arctic
ICE CONDENSER		
Condensation surface	m ²	0,25
Final Temperature condenser	°C	-85
Ice Capacity	kg	8 (6 kg/24h)
Material	AISI 316L	
REFRIGERATION UNIT		
Number of compressors		2
hermetic type		One stage
Refrigeration power	W	700
Refrigerant		R-170 / R-290
Refrigeration of the unit	By air circulation	
EQUIPMENT		
Electrical connection	V, ph, Hz	230, 1, 50 / 230, 1, 60
Total installed power	kW	3,5
Process vacuum. Unloaded Troom ≤25°C, condenser temperature: -85°C	mbar	3x10 ⁻²
Dimensions (height x width x depth)	mm	480 x 505 x 575
Weight	kg	71

Options and accessories

- All options and accessories of Lyoquest PLUS are compatible with Lyoquest Arctic.

Please contact to Telstar for further details



ISO 9001: Certified Company

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Telstar reserves the right to improvements and specifications changes without notice.



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