Freeze dryer - FDT Series
(Bulk tray type) for production

Model O-FDT-12012

Model O-FDT-8620

Features and advantages:

- Square-shaped drying chamber can reduce the installment area about over 30% by maximizing the effective area for drying compared to other company's circular chamber with the same capacity.
- -156°C cryogenic cooling system registered to the international patent and Operon Auto Cascade System, the original technology for -203°C cryogenic cooling system are combined to realize quick freezing and quick defrosting functions.
- Experiment data like sample temperature or degree of vacuum is stored on SD Card already equipped and is easily transferred to the user's PC to analyze.
- The user can choose automatic or manual function for the dry program, and when choosing automatic function, the user can program by choosing the temperature of the heat plate or drying time.
- Selected vacuum pump contains automatic Gas Ballasting function, so it releases gas which fills the pump to get better degree of vacuum.
- Embedded vacuum release valve automatically operates to prevent a back flow of contaminated oil and gas in the pump when blackout, cold trap temperature rise or pump operation stop by mishandling.
- It is equipped with automatic protection function for the vacuum pump which makes the vacuum pump operates automatically when the temperature of the cold trap decreases below the certain temperature which the user sets regarding the freezing point of samples and the vacuum pump automatically turns out when the temperature increases over the setting temperature.
- Transparent acryl chamber with a thickness of 40mm is safe for the user to see the drying process.
- The automatic defrosting device defrosts quickly after drying.

Options:

- **Vacuum pump (range): 400LPM ~ 1600LPM.**
- **Option for changing the temperature of the heat plate (for FDT).**
- **Option for additional shelves.**
- **Chemical trap.**
- **Oil mist trap.**
- **Activated carbon.**
- **Option for changing materials (SUS316).**
- **Option for changing the temperature of the cold trap.**
- **CIP (Automatic cleaning device).**
- **SIP (Automatic sterilization device).**
- **Stoppering device.**

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SPECIFICATIONS

Freeze dryer - FDT Series
(Bulk tray type) for production

Model O-FDT-12032

Model O-FDT-8650

Model		Bulk Tray Type											
		O-FDT-86100	O-FDT-55100	O-FDT-12050	O-FDT-8650	O-FDT-12032	O-FDT-8632	O-FDT-12020	O-FDT-8620	O-FDT-12012	O-FDT-8612	O-FDT-12006	O-FDT-8606
Main Body	Cold Trap Temp	-86°C	-55°C	-120°C	-86°C	-120°C	-86°C	-120°C	-86°C	-120°C	-86°C	-120°C	-86°C
	Capacity (L)	100L		50L		32L		20L		12L		6L	
	Shelf Temp	-47°C ~ +70°C (Standard) , -115°C ~ +70°C (Option)											
	Dimension (W x D x H)	1600 x 2500 x 2100		1554 x 1311 x 2179		1554 x 1311 x 2071		1554 x 1311 x 2071		1404 x 1211 x 1932		1000 x 1000 x 1850	
	Chamber Size (W x D x H)	(505 x 890 x 690) x 2EA		505 x 890 x 690		505 x 890 x 550		505 x 890 x 550		370 x 600 x 430		330 x 550 x 330	
	Trap Size	W505 x D890 x H690		Φ420 x L750		Φ350 x L750		Φ345 x L480		Φ315 x L450		Φ315 x L300	
	Shelf/Tray (W x D x H)	20EA/18EA		8EA/7EA		6EA/5EA		5EA/4EA		5EA/4EA		4EA/3EA	
		470 x 740 x 40		470 x 740 x 40		470 x 740 x 40		470 x 740 x 40		320 x 450 x 40		280 x 280 x 40	
	Programmable Controller	10" LCD touch screen programmable controller with USB, Auto/ Manual start-up controller, Display cold trap temp. & vacuum pressure(2000mTorr~0mTorr)											
	Sample Sensor	3port of display sensor & 1printer sensor											
	Pump Protection System	Built-in(Automatic pump start & stop control system for vacuum pump)											
	Defrost	Auto											
	Electric	220V/440V 3ph		220V/440V 3ph				220V/440V 3ph		220V/440V 3ph	220V/1ph	220V/440V 3ph	220V/1ph
	Weight (kg)	1000kg / 900kg		780kg / 750kg / 730kg / 700kg				680kg	650kg	580kg	550kg	480kg	450kg

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