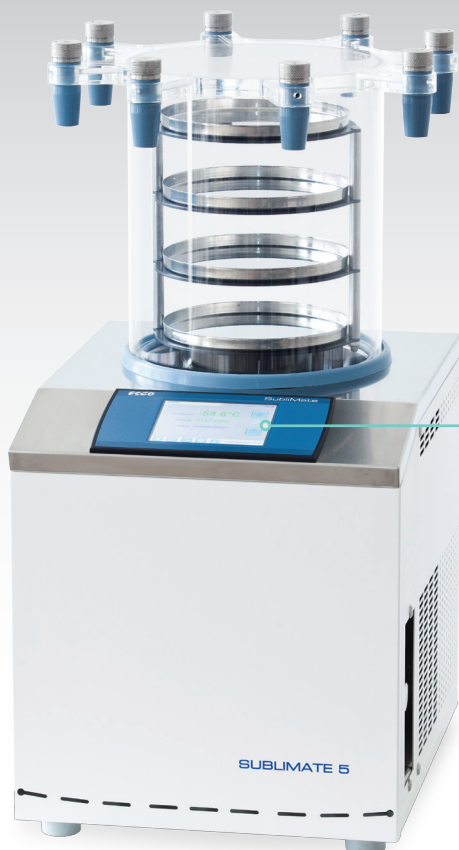



# SubliMate<sup>®</sup> Bench Top Laboratory Freeze Dryers

## *For Compact and Easy Preservation*



### User Friendly Touchscreen Interface



 Designed and Made in the E.U.

- 3 models are available with compact design, and can achieve low condenser temperature down to -90C.
- SmarTouch™ large touch screen controller delivers ergonomic, intuitive interfaces and easy-to-use programming for freeze drying, defrosting, language selection, pressure, temperature units, data logging files and real time clock.
- LusterClear™ fully flushed and clean condenser surface design allowing for easy cleaning and preventing damage to cooling coils during ice core removal.
- A New innovative EzySeal™ rubber valve design for easier flask fitting, sealing, drying and removal.
- Pressure sensor and IceOut™ defrost system are equipped as standard for the discerning researchers.
- Compact design, taking up less bench space than conventional models.
- 2 Kg and 5Kg ice capacity allowing for multiple cycles before defrosting.
- Readout of both temperature and pressure for process guidance and sample security.

# SAMPLES DRY GREAT, WITH ESCO'S SUBLIMATE®

## Typical Applications:

- ✓ Laboratory research
- ✓ Protein purification
- ✓ Products for analysis
- ✓ Plant material, organic tissue, waste products



## Other Features:

- Safe Start Vacuum system with manual vacuum valve. Vacuum line warning status to ensure user does not open vacuum line before condenser is at correct temperature.
- Conventional refrigeration system uses well tried technology for optimum cooling and easy service.
- CFC and HCFC free refrigeration gases meeting global market requirements.
- Wide range of accessories to meet the demands from all research sectors, including manifolds, chambers for flasks, ampoules, plates, mobile trolley, etc.
- Various vacuum pumps and related accessories are available.
- Low energy consumption makes the system more environmentally friendly.
- Low noise level results in quieter operation.
- Worldwide sales and service support.

## General Specifications, SubliMate® Bench Top Laboratory Freeze Dryers

Model	FDL-2S8	FDL-5S8	FDL-5L8
Maximum ice condenser capacity	2 kg	5 kg	5 kg
Condenser Area	0.1 m2	0.15 m2	
Condenser volume	3.5L	7 L	7L
Ultimate condenser temperature	-55 °C	-55 °C	-90 °C
Pressure measurement range	0.001 ~ 100 mbar		
Temperature measurement range	-60 °C ~ 100 °C		-100 °C ~ 100 °C
Material of the condenser chamber	AISI 304 mirror polished		
Display	5.7" Touchscreen		
Cooling Media	CFC free		CFC free
Compressor	1/2HP X 1 piece		1/2HP X 2 pieces
Electrical Rating / Full Load Amps	230 V/115V, 50/60 Hz, 1Φ /12A / 20A		
Max. Power Consumption	330 W		630 W
External dimensions	400 x 500 x 395 mm (15.7" x 19.7" x 15.6")	400 x 500 x 475 mm (15.7" x 19.7" x 18.7")	675 x 465 x 590mm (26.6" x 18.3" x 23.2")
Net Weight	36kg	40kg	72kg
Shipping Weight	41kg	46kg	76kg
Shipping Dimensions (W x D x H)	495x573x465 mm (19.5" x 22.5" x 18.3")	495x573x543 mm (19.5" x 22.5" x 21.4")	760x550x720 mm (30.0" x 21.6" x 28.3")



WORLD CLASS. WORLDWIDE.

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