NEW Esco Lexicon® II ULT Freezer with Aalto Silver and Gold Controllers

(Excellent Vial Capacities with Minimal Footprint)

714 Liters | 597 Liters | 480 Liters | 363 Liters

NEW Esco Lexicon II ULT Freezer with the Aalto Silver and Gold Controllers comes in New SIZES: 363 liters, 480 liters, 597 liters and 714 liters. Lexicon II provides EXCELLENT VIAL CAPACITY WITH A MINIMAL FOOTPRINT compared to the original Lexicon I models and other ordinary ULT freezers. New features of the Lexicon II ULT freezer with the Aalto Silver and Gold Controllers includes:

1. NEW bigger capacity per foot print area.
2. NEW 3 inner doors configuration to maximize vial capacity. 5 inner doors configuration is available as options.
3. NEW pressure equalization port (PEP) design which will greatly minimize the risk of ice frosting on the port surface.
4. NEW main door slip-joint hinge design allows for easy door dismantling during freezer installation in a lab with small door opening.
5. NEW inner doors slip-joint hinge design allows for easy door dismantling during mainte nance and cleaning.
6. NEW bottom door piano hinge with zig-zag hole mounting position to insure long time performance.
7. NEW Stainless steel interior option for Aalto Gold controller.
8. IMPROVED shelving design with 75% more load capacity/shelf.
9. IMPROVED bottom door locking system. The new catches secure the bottom door better during rough handling and allow for easy door opening.
10. IMPROVED caster wheel and leveling feet design with higher load capacity.
11. 2 sample ports configurations are available upon request

GENERAL SPECIFICATIONS

ULTRA-LOW TEMPERATURE FREEZERS

	UUS-363A-1 UUS-363B-1	UUS-480A-1 UUS-480B-1	UUS-597A-1 UUS-597B-1	UUS-714A-1 UUS-714B-1
Temperature Range	-50 to -86˚C			
Ambient Temperature Range	15 to 32˚C (59 to 89˚F)			
Cpacity	363 L (12.8 cu ft)	480 L (16. 9 cu ft)	597 (21.1 cu ft)	714. (25.2 cu ft)
Energy Consumption	16.0 kWh/day	17.5 kWh/day	18.1 kWh/day	19.4 kWh/day
Heat Emission	0.72 kW	0.81 kW	0.86 kW	0.96 kW
Pull Down Time In Minutes (from amb to -80)	235.5	244	284	374
Temperature Recovery Time After 1 Minute Door Opening	20 minutes	32 minutes	37 minutes	45 minutes
Warmest Temperature After 1 Minute Door Opening	(-) 76.7 °C	(-) 77 °C	(-) 73 °C	(-) 75.9 °C
Average Uniformity of Cycle (-80°C)	3.2 °C	3.7 °C	4.7 °C	7.6 °C
Warm-up Time from -80°C to -50°C (Minutes)	201	229	237	214
Reserve Capacity at 0 Watt	-87.1	-89.2	-87.8	-91
Reserve Capacity at 40 Watt	-85.1	-86.5	-85.8	-88
Reserve Capacity at 60 Watt	-82.8	-80.9	-83.1	-86
Reserve Capacity at 90 Watt	-77.9	-77.5	-80.1	-83
Reserve Capacity at 0 Watt	-73.2	-74.2	-76.4	-79
Noise Level in dB	55.9	56.3	56.1	59.1
External Dimension (W x D x H)	710 X 885 X 1980 mm (28" x 34.8" x 78")	855 X 885 X 1980 mm (33.6" x 34.8" x 78")	1000 X 885 X 1980 mm (39.3" x 34.8" x 78")	1145 X 885 X 1980 mm (45" x 34.8" x 78")
True Dimensions Silver	805 x 945 x 1980 mm (31.6" x 37.2" x 78")	950 x 945 x 1980 mm (37.3" x 37.2" x 78")	1095 x 945 x 1980 mm (43.1" x 37.2" x 78")	1240 x 945 x 1980 mm (48.8" x 37.2" x 78")
True Dimensions Gold	805 x 945 x 1980 mm (31.6" x 37.2" x 78")	960 x 945 x 1980 mm (37.3" x 37.2" x 78")	1095 x 945 x 1980 mm (43.1" x 37.2" x 78")	1240 x 945 x 1980 mm (48.8" x 37.2" x 78")
Internal Dimensions	450 x 620 x 1300 mm (17.7" x 24.4" x 51.1")	595 x 620 x 1300 mm (23.4" x 24.4" x 51.1")	740 x 620 x 1300 mm (29.1" x 24.4" x 51.1")	885 x 620 x 1300 mm (34.8" x 24.4" x 51.1")
Electrical Rating	12/13A 230V 50 Hz 1Ø	12/13A 230V 50 Hz 1Ø	12/13A 230V 50 Hz 1Ø	12/13A 230V 50 Hz 1Ø
Number of Outer Door	1			
Number of Inner Doors	3 or 5			
No. of storage racks per shelf	3	4	5	6
No. of storage racks per unit	9	12	15	18
Storage box capacities for 2" cardboard boxes (With Modifiable Clip Rack)	252	336	420	504
Storage box capacities for 3" cardboard boxes (With Modifiable Clip Rack)	180	240	300	360
Storage box capacities for 2" cardboard boxes (With Drawer Type Rack)	240	320	400	480
Storage box capacities for 3" cardboard boxes (With Drawer Type Rack)	180	240	300	360
Shelves material	SS304 0.9mm		SS304 1.2mm	
Shelves Area	438 x 570 mm (17.2" x 22.4")	583 x 570 mm (22.9" x 22.4")	728 x 570 mm (28.6" x 22.4")	873 x 570 mm (34.3" x 22.4")
Max Load of per shelf	50kg (110 lbs) per shelf		90kg (198 lbs) per shelf	
Net Weight	271 (597 lbs)	300 (661 lbs)	305 (672 lbs)	350 (772 lbs)
Shipping Weight	410 kg (707 lbs)	350 kg (771 lbs)	358 kg (790 lbs)	410 kg (903 lbs)
Shipping Dimensions (W x D x H)	850 x 1068 x 2121 mm (33.4" x 42" x 83.5")	990 x 1068 x 2121 mm (38.9" x 42" x 83.5")	1130 x 1068 x 2121 mm (44.4" x 42" x 83.5")	1280 x 1068 x 2121 mm (50.3" x 42" x 83.5")

Notes:
Units were factory tested under under controlled environmental conditions per Esco method. Esco does not guaranteed identical results in the field under differing conditions.
Units were tested using 3 inner door configuration and without samples inside.
Original reports are available upon request.