

AL07-12-230

Freezer upright Low temperature 413 Litre, -20°C / -40°C

"High performance freezing with focus on low energy consumption is the future.

Advantage-Lab's ultra-low freezers offer high temperature uniformity and are produced with attention to details and friendly features.

The Advantage-Lab -40°C range are products of our passion, striving after efficiency and reliability. Once again, we offer confidence with the most user friendly controller in the market. All features such as alarms and data logging functions are always standardly included. This range consists of 3 different models starting from a volume of 55L, 94L & 413L.

The AL07-12-230 freezer has insulated inner doors to protect against heat entering each compartment. This also makes it possible for several users to share the freezer without interrupting each other's area in the freezer.

- ⇒ **Low energy consumption**
- ⇒ **Backup-72 hours**
- ⇒ **Integrated data logger with memory**
- ⇒ **High temperature uniformity**

FEATURES:

- . Single compressor
- . Low energy consumption (9,0 KWH/24H)
- . Microprocessor controller with digital display
- . Integrated data logger
- . Integrated memory
- . Approx. 72 hours battery back-up for alarms, logins and temperature display in case of power cut
- . Power failure alarm, visual and acoustic alarm
- . Adjustable high/low temperature alarm
- . Probe failure alarm, Instrument failure alarm, Open door alarm
- . Contact for remote alarm, Prepared for GMS alarm
- . RS485/RS232 interface
- . Auto cycle in case of probe failure
- . Ambient temperature display
- . Shows all alarms
- . Direct download/upload on/from USB memory stick
- . 3 level password protected
- . Battery level indication
- . Prepared for 2 additional probes for more data logging
- . Digital text available in different languages



TECHNICAL SPECIFICATION

Model	AL07-12-230
Dimensions exterior WxDxH (mm)	720 x 885 x 2089
Net capacity (L)	413
Dimensions interior WxDxH (mm)	480 x 608 x 1415
Insulation (mm)	120
Temperature range (°C)	-40 / -20
Max. ambient temperature (°C)	25
Power supply (V)	230
Frequency (Hz)	50/60
Power consumption (KWH/24H)	9,0
AMP(A)	1,9
Noise level (DBA)	< 55
Weight (KG)	183
Shipping weight (KG)	217
Shipping dimensions WxDxH (mm)	870 x 975 x 2250
No. of compressors	1
Visual / acoustic alarm	Yes
Power failure alarm	Yes
Adjustable high/low temperature alarm	Yes
Open door alarm	Yes
Probe failure alarm	Yes
Alarm display as text - not codes	Yes
Contact for remote alarm	Yes
Prepared for GSM alarm module	Yes
Approx. hrs of battery back up for alarms and temperature display in the event of power cut	72 hours
Porthole for installation of PT100/CO2 back up	Yes
Digital display	Yes
Data logger	Yes
RS 232 interface	Yes
RS 485 interface	Yes
USB up/down load	Yes
Defrost manual / auto	manual
Castors	Yes
Chart recorder	Optional
Shelves (pcs)	4
Baskets (pcs)	No
Sub doors (pcs)	5
Lighting	Yes
Lock	Yes
Inner liner material	Stainless steel
Cabinet material	Varnished steel / stainless steel*
Colour (exterior)	White / stainless steel *
Refrigerant	R404a

OPTIONS

Code	Description
AL07-99-400	CO2 back-up system ensures optimized safety
AL07-99-401	SVS voltage stabilizers for excellent output voltage stability
AL07-99-402	Chart recorder for documentation of the temperature
AL07-99-403	GSM Alarm module
AL07-99-404	Cryo gloves protecting hands and preventing frost bites
AL07-99-405	Drawer system; great way to keep samples in order

ACCESSORIES (racks)

Code	Description	
Upright Drawer Rack	Strong stainless racks produced with drawers for easy practical access to your boxes.	
Upright Side Rack	Stainless steel rack with individual compartments for each box. Very solid and strong. On this model the box is taken out from the side.	

*for further info on different filling options of our AL07-12-230 please have a look on www.advantage-lab.com

ACCESSORIES (boxes)

Our freezer boxes are manufactured in a European based company with many years of experience in making strong and easy to use storage boxes of a strong polypropylene mixture. The box is equipped with a standard 9x9 divider to provide a storage capacity of 81 tubes with a diameter up to 12,5 mm in each box.

Box size (mm)	Divider	Total no. of vials	Material	Dimensions (mm)	
50	9 x 9	81	Polypropylene	130 x 130 x 50	
75	9 x 9	81	Polypropylene	130 x 130 x 75	
96	9 x 9	81	Polypropylene	130 x 130 x 96	

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