

# -86°C FREEZER



# -86°C FREEZER

Used in Preservation Of Plasma, Microbial Cultures, Tissues, Cell Lines, Clinical, Industrial, Research.  
Also known as Laboratory ULT freezer, ULT Freezer, Ultra-low Freezer.

## ULT34 -10°C TO -86°C ULTRA LOW TEMPERATURE FREEZER

- Settable high temperature and low temperature alarms
- Automatic clean-filter alarm and sensor error alert
- Adjustable storage shelf height
- Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber
- Specialized control system design for a well-balanced operation of cascade refrigeration system
- Audible and visible alarm
- Door open feature standard and USB port for temperature data downloading standard on upright models
- Remote alarm contacts
- Unique door seal design for the minimum loss of cold temperature during a door opening
- High performance VIP insulation panels to minimize cabinet heat gain and to improve temperature stability



### SPECIFICATIONS

Model	ULT34-0105	ULT34-0485	ULT34-0050	ULT34-0188
Capacity	105 L	485 L	50 L	188 L
Temperature Range	-40°C to -86°C			
Ambient Temperature	10°C ~ +32°C			
Defrosting	Manual			
Cooling Type	Direct Cooling			
Insulation Material	PURF			
Refrigerant	Mixed-gas			
Internal Dimension	480x380x665 mm	1455.5x525.2x674 mm	361x429x406 mm	465x465x830 mm
Overall Dimension	680x580x935 mm	1695x840x962 mm	540x620x1145 mm	830x810x1607.5 mm
Package Size	770x705x1090 mm	1765x900x1060 mm	690x760x1170 mm	915x928x1818 mm
Interior	Stainless steel			
Exterior	Color sprayed steel			
Controller	Microprocessor, Digital display			
Sensor	PTC			
Compressor Brand/QTY	CUBIGEL/1	SECOP/1		CUBIGEL/1
Evaporator	Submerged coil evaporator			
Evaporator Material	Copper tube evaporator			
Condenser	Copper tube and finned			
Noise Level	50 db	54.5 db	49.5 db	60 db
Alarm	High/low temperature, Sensor malfunction, Thermostat failure			
Standard Accessories	Castor, Test hole 1/25 mm		Castor, Inner door	Castor, Inner doorx3, Test hole 1/25 mm

Optional Accessories	Chart recorder, Data logger, CO2 backup system, LN2 backup system		Data logger, CO2 backup system, LN2 backup system, Temperature recorder, Storage racks and storage box	
Weight (Net/Gross)	42/45 kg	130/150 kg	75 / 95 kg	207 / 222 kg
Power Consumption ( Kwh/24hrs )	3.8	11.5	6.5	8.2
Rated Current A	2.2	3.57	3.1	3.3
Power Supply	220V, 50Hz			
Temperature Increment	-	-	1°C	
Drawers/Shelves	-	-	Stainless steel shelf/1	Stainless steel shelf/2
Rated Power	-	-	450 W	610 W

Model	ULT34-0338	ULT34-0340	ULT34-408A	ULT34-408B
Capacity	338 L	340 L	408 L	
Temperature Range	-40°C to -86°C			
Ambient Temperature	10°C ~ +32°C			
Defrosting	Manual			
Cooling Type	Direct Cooling			
Insulation Material	PURF			
Refrigerant	HC	Mixed-gas		HC
Internal Dimension	488x607x1140 mm		606x575x1180 mm	
Overall Dimension	854x1072x1907 mm	854x1006x1907 mm	872x1028x1945.5 mm	891x992x1945.5 mm
Package Size	935x1070x2128 mm		954x955x2094 mm	
Interior	Stainless steel			
Exterior	Color sprayed steel			
Controller	Microprocessor, Digital display			
Sensor	PTC			
Compressor Brand/QTY	SECOP/2	SECOP/1		SECOP/2
Evaporator	Submerged coil evaporator			
Evaporator Material	Copper tube evaporator			
Condenser	Copper tube and finned			
Noise Level	50 db	60 db	50 db	55 db
Alarm	High/low temperature, Power off, Sensor malfunction, Abnormal voltage, Filter screen check, Thermostat failure, Low battery, Condensor clean, High ambient temperature, Door ajar			
Standard Accessories	Castor, Inner doorx2, Test hole 2/25 mm, USB port	Castor, Inner doorx2, Test hole 1/25 mm, USB port		
Optional Accessories	Data logger, CO2 backup system, LN2 backup system, Temperature recorder, Storage racks and storage box			
Weight (Net/Gross)	286 / 306 kg	268 / 288 kg	268 / 293 kg	292 / 317 kg
Power Consumption ( Kwh/24hrs )	12.8	11.2	11	11.6
Rated Current A	6.75	3.5	4.5	7
Power Supply	220V, 50Hz			
Temperature Increment	1°C			
Drawers/Shelves	Stainless steel shelf/3			
Rated Power	870 W	668 W	735 W	845 W

Model	ULT34-408C	ULT34-588A	ULT34-588B	ULT34-588C
Capacity	408 L	588 L		

Temperature Range	-40°C to -86°C			
Ambient Temperature	10°C ~ +32°C			
Defrosting	Manual			
Cooling Type	Direct Cooling			
Insulation Material	PURF			
Refrigerant	Mixed-gas		HC	Mixed-gas
Internal Dimension	606x575x1180 mm	606x738x1310 mm		
Overall Dimension	891x992x1945.5 mm	872x1192x1994.5 mm	891x1155x1994.5 mm	
Package Size	954x955x2094 mm	970x1138x2185 mm		
Interior	Stainless steel			
Exterior	Color sprayed steel			
Controller	Microprocessor, Digital display			
Sensor	PTC			
Compressor Brand/QTY	SECOP/2			
Evaporator	Submerged coil evaporator			
Evaporator Material	Copper tube evaporator			
Condenser	Copper tube and finned			
Noise Level	53 db		55 db	50 db
Alarm	High/low temperature, Power off, Sensor malfunction, Abnormal voltage, Filter screen check, Thermostat failure, Low battery, Condenser clean, High ambient temperature, Door ajar			
Standard Accessories	Castor, Inner doorx2, Test hole 1/25 mm, USB port			
Optional Accessories	Data logger, CO2 backup system, LN2 backup system, Temperature recorder, Storage racks and storage box			
Weight (Net/Gross)	285 / 310 kg	303 / 332 kg	335 / 363.5 kg	303 / 332 kg
Power Consumption ( Kwh/24hrs )	14.5	12.5	12	16.5
Rated Current A	5.7	8.5	7	8.5
Power Supply	220V, 50Hz			
Temperature Increment	1°C			
Drawers/Shelves	Stainless steel shelf/3			
Rated Power	725 W	1400 W	815 W	1400 W

Model	ULT34-0728	ULT34-838A	ULT34-838B	ULT34-838C
Capacity	728 L	838 L		
Temperature Range	-40°C to -86°C			
Ambient Temperature	10°C ~ +32°C			
Defrosting	Manual			
Cooling Type	Direct Cooling			
Insulation Material	PURF			
Refrigerant	HC	Mixed-gas	HC	Mixed-gas
Internal Dimension	963x558x1350 mm	894x718x1310 mm		
Overall Dimension	1248x975x1994.5 mm	1160x1172x1994.5 mm	1179x1135x1994.5 mm	
Package Size	1320x970x2185 mm	1212x1098x2185 mm		
Interior	Stainless steel			
Exterior	Color sprayed steel			
Controller	Microprocessor, Digital display			
Sensor	PTC			
Compressor Brand/QTY	SECOP/2			

Evaporator	Submerged coil evaporator			
Evaporator Material	Copper tube evaporator			
Condenser	Copper tube and finned			
Noise Level	53 db	55 db	-	
Alarm	High/low temperature, Power off, Sensor malfunction, Abnormal voltage, Filter screen check, Thermostat failure, Low battery, Condensor clean, High ambient temperature, Door ajar			
Standard Accessories	Castor, Inner doorx2, Test hole 1/25 mm, USB port			
Optional Accessories	Data logger, CO2 backup system, LN2 backup system, Temperature recorder, Storage racks and storage box			
Weight (Net/Gross)	320 / 350 kg	391 / 424 kg	397 / 430 kg	391 / 424 kg
Power Consumption ( Kwh/24hrs )	15.4	14.5	15	14.25
Rated Current A	7	6.5	7	6.5
Power Supply	220V, 50Hz			
Temperature Increment	1°C			
Drawers/Shelves	Stainless steel shelf/3			
Rated Power	935 W	840 W	890 W	840 W



ULT34-0105



ULT34-0485



ULT34-0050



ULT34-0188



ULT34-0338



ULT34-0340



ULT34-408A



ULT34-408B



ULT34-408C



ULT34-588A



ULT34-588B



ULT34-588C



ULT34-0728



ULT34-838A



ULT34-838B



ULT34-838C



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