

Freezer, -86 °C

ULF86-60E	ULF86-190E	ULF86-340E	ULF86-410E
ULF86-590E	ULF86-730E	ULF86-840E	ULF86-340
ULF86-410	ULF86-590	ULF86-730	ULF86-840
ULF86-410P	ULF86-590P	ULF86-730P	ULF86-840P



ULF86-340

Reliability

Positive filed proven reliability record.

Specialized control system design for a well-balanced operation of cascade(dual) refrigeration system.

Key Features

Microprocessor-controlled system designed with 1°C increment.

Settable high temperature and low temperature alarms.

Automatic clean-filter alarm and sensor error alert.

Adjustable storage shelf height.

Double security with two independent cooling system, when one system breakdown, the other system could maintain the inner temperature at -70 °C. (Only for P series)



Multifunctional alarms including high and low temperature, power failure, sensor error, clean-filter, and extremely high ambient, abnormal voltage, thermostat failure, low battery, condenser clean, door ajar.



Capable of producing two types of alarm outputs, audible buzzer and visible flashing light.



Door open feature standard and USB port for temperature date downloading standard on upright models.



Remote alarm contacts.

SAFETY

Energy Conservation

High performance V.I.P(Vacuum Insulation Panel) insulation panels to minimize cabinet heat gain and to improve temperature stability.

Unique insulated inner door design for four separate storage compartments to minimize frost buildup inside the chamber.

Unique door seal design for the minimum loss of cold temperature during a door opening.

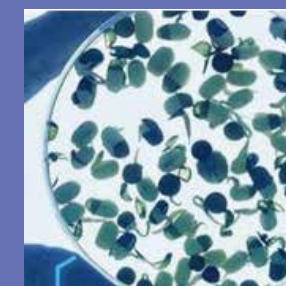
HC Refrigerant with better efficiency & less energy cost, good for environment. (Except for the E series)



Optional

Temperature recorder, frozen racks and frozen boxes, back up system (CO₂ / LN₂).

Application



It is suitable for low temperature test of special materials and preservation of plasma, biological materials, vaccines, reagents, biological products, chemical reagents, strains, biological samples, etc.

Specifications



Model		ULF86-60E	ULF86-190E	ULF86-340E	ULF86-410E	ULF86-590E	ULF86-730E
Capacity (L)		58	188	340	408	588	728
Dimension (W*D*H)	Internal (mm)	330*453*410	465*465*830	488*607*1140	606*575*1180	606*738*1310	963*571*1350
	External (mm)	635*757*1212	830*810*1607.5	854*1006*1907	872*1028*1945.5	872*1192*1994.5	1229*1012*1994.5
Temperature	Range (℃) at RT. 10 ~ 32 ℃	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86
	Sensor	PTC	PTC	PTC	PTC	PTC	PTC
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Cooling System	Refrigerant	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)
	Defrost	Manual	Manual	Manual	Manual	Manual	Manual
	Compressor (Qty)	SECOP / 1	CUBIGEL / 1	SECOP / 1	SECOP / 1	SECOP / 2	SECOP / 2
Display		Digital display	Digital display	Digital display	Digital display	Digital display	Digital display
Audible& Visible Alarm	High/Low temperature	Standard	Standard	Standard	Standard	Standard	Standard
	High ambient temperature	Standard	Standard	Standard	Standard	Standard	Standard
	Sensor error	Standard	Standard	Standard	Standard	Standard	Standard
	Abnormal voltage	Standard	Standard	Standard	Standard	Standard	Standard
	Low battery	Standard	Standard	Standard	Standard	Standard	Standard
	Power failure backup system(alarm)	72h	72h	72h	72h	72h	72h
	Door ajar	Standard	Standard	Standard	Standard	Standard	Standard
Material	Internal	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304
	External	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating
	Inner door	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304
Accessories	USB port	Standard	Standard	Standard	Standard	Standard	Standard
	Casters	Standard	Standard	Standard	Standard	Standard	Standard
	Chart recorder	/	/	/	/	/	/
	Data logger	Optional	Optional	Optional	Optional	Optional	Optional
	Remote alarm port	Standard	Standard	Standard	Standard	Standard	Standard
	Test hole (Qty) / Diameter (mm)	1 / 25	1 / 25	1 / 25	1 / 25	1 / 25	1 / 25
	Back up system (CO ₂ /LN ₂)	Optional	Optional	Optional	Optional	Optional	Optional
Shelves / Drawers (Qty)		Shelf / 1	Shelves / 2	Shelves / 3	Shelves / 3	Shelves / 3	Shelves / 3
Optional Frozen Racks (Qty)	Racks	2(6*2)	9(4*3)	12(4*4)	8(5*4)+8(4*4)	16(5*5)	18(5*4)+6(6*4)
	Boxes (2 Inches)	24	108	192	288	400	504
	Samples (2ml)	2400	10800	19200	28800	40000	50400
Sound Emission (dB)		50	52	52	53	53	53
Electricity	Voltage / Frequency	AC110 / 220V±10%, 50/60Hz	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz
	Consumption (W)	442	660	810	890	1500	1400
N.W. / G.W. (kg)		115 / 155	207 / 222	268 / 288	268 / 293	303 / 332	374 / 394
Shipping Dimension (W*D*H) (mm)		730*845*1400	915*928*1818	935*1070*2128	954*955*2094	970*1138*2185	1320*970*2185

Specifications



Model		ULF86-840E	ULF86-340	ULF86-410	ULF86-590	ULF86-730	ULF86-840
Capacity (L)		838	338	408	588	728	838
Dimension (W*D*H)	Internal (mm)	894*718*1310	488*607*1140	606*575*1180	606*738*1310	963*571*1350	894*718*1310
	External (mm)	1160*1172*1994.5	854*1072*1907	891*992*1945.5	891*1155*1994.5	1248*975*1994.5	1179*1135*1994.5
Temperature	Range (℃) at RT. 10 ~ 32 ℃	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86
	Sensor	PTC	PTC	PTC	PTC	PTC	PTC
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Cooling System	Refrigerant	R4001 (CFC Free)	HC (CFC Free)	HC (CFC Free)	HC (CFC Free)	HC (CFC Free)	HC (CFC Free)
	Defrost	Manual	Manual	Manual	Manual	Manual	Manual
	Compressor (Qty)	SECOP / 2	SECOP / 2	SECOP / 2	SECOP / 2	SECOP / 2	SECOP / 2
Display		Digital display	LCD display	LCD display	LCD display	LCD display	LCD display
Audible& Visible Alarm	High/Low temperature	Standard	Standard	Standard	Standard	Standard	Standard
	High ambient temperature	Standard	Standard	Standard	Standard	Standard	Standard
	Sensor error	Standard	Standard	Standard	Standard	Standard	Standard
	Abnormal voltage	Standard	Standard	Standard	Standard	Standard	Standard
	Low battery	Standard	Standard	Standard	Standard	Standard	Standard
	Power failure backup system(alarm)	72h	72h	72h	72h	72h	72h
	Door ajar	Standard	Standard	Standard	Standard	Standard	Standard
Material	Internal	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304
	External	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating
	Inner door	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304
Accessories	USB port	Standard	Standard	Standard	Standard	Standard	Standard
	Casters	Standard	Standard	Standard	Standard	Standard	Standard
	Chart recorder	/	Optional	Optional	Optional	Optional	Optional
	Data logger	Optional	Optional	Optional	Optional	Optional	Optional
	Remote alarm port	Standard	Standard	Standard	Standard	Standard	Standard
	Test hole (Qty) / Diameter (mm)	1 / 25	2 / 25	1 / 25	1 / 25	1 / 25	1 / 25
	Back up system (CO ₂ /LN ₂)	Optional	Optional	Optional	Optional	Optional	Optional
Shelves / Drawers (Qty)		Shelves / 3	Shelves/3	Shelves / 3	Shelves / 3	Shelves / 3	Shelves / 3
Optional Frozen Racks (Qty)	Racks	24(5*5)	12(4*4)	8(5*4)+8(4*4)	16(5*5)	18(5*4)+6(6*4)	24(5*5)
	Boxes (2 Inches)	600	192	288	400	504	600
	Samples (2ml)	60000	19200	28800	40000	50400	60000
Sound Emission (dB)		55	50	50	53	53	53
Electricity	Voltage / Frequency	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50/60Hz	AC110 / 220V±10%, 50 / 60Hz
	Consumption (W)	1700	870	845	815	935	890
N.W. / G.W. (kg)		391 / 424	286 / 306	292 / 317	307 / 368	360 / 401.5	397 / 430
Shipping Dimension (W*D*H) (mm)		1270*1100*2185	935*1070*2128	954*955*2094	970*1138*2185	1320*970*2185	1262*1098*2185



Specifications

Model		ULF86-410P	ULF86-590P	ULF86-730P	ULF86-840P
Capacity (L)		408	588	728	838
Dimension (W*D*H)	Internal (mm)	606*575*1180	606*738*1310	963*571*1350	894*718*1310
	External (mm)	891*992*1945.5	891*1155*1994.5	1248*975*1994.5	1179*1135*1994.5
Temperature	Range (°C) at RT. 10 ~ 32 °C	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86
	Sensor	PTC	PTC	PTC	PTC
	Controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
Cooling System	Refrigerant	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)	R4001 (CFC Free)
	Defrost	Manual	Manual	Manual	Manual
	Compressor (Qty)	SECOP / 2	SECOP / 2	SECOP / 2	SECOP / 2
Display		LCD display	LCD display	LCD display	LCD display
Audible& Visible Alarm	High / Low temperature	Standard	Standard	Standard	Standard
	High ambient temperature	Standard	Standard	Standard	Standard
	Sensor error	Standard	Standard	Standard	Standard
	Abnormal voltage	Standard	Standard	Standard	Standard
	Low battery	Standard	Standard	Standard	Standard
	Power failure backup system(alarm)	72h	72h	72h	72h
	Door ajar	Standard	Standard	Standard	Standard
Material	Internal	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304
	External	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating	Electro-galvanized steel with antimicrobial powder coating
	Inner door	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304	Stainless steel, grade 304
Accessories	USB port	Standard	Standard	Standard	Standard
	Casters	Standard	Standard	Standard	Standard
	Chart recorder	/	/	/	/
	Data logger	Optional	Optional	Optional	Optional
	Remote alarm port	Standard	Standard	Standard	Standard
	Test hole (Qty) / Diameter (mm)	1 / 25	1 / 25	1 / 25	1 / 25
	Back up system (CO ₂ / LN ₂)	Optional	Optional	Optional	Optional
Shelves / Drawers (Qty)		Shelves / 3	Shelves / 3	Shelves / 3	Shelves / 3
Optional Frozen Racks (Qty)	Racks	8(5*4)+8(4*4)	16(5*5)	18(5*4)+6(6*4)	24(5*5)
	Boxes (2 Inches)	288	400	504	600
	Samples (2ml)	28800	40000	50400	60000
Sound Emission (dB)		53	53	55	55
Electricity	Voltage / Frequency	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz	AC110 / 220V±10%, 50 / 60Hz
	Consumption (W)	1350	1500	1400	1700
N.W. / G.W. (kg)		285 / 310	303 / 332	380 / 400	391 / 424
Shipping Dimension (W*D*H) (mm)		954*955*2094	970*1138*2185	1320*970*2185	1262*1098*2185