



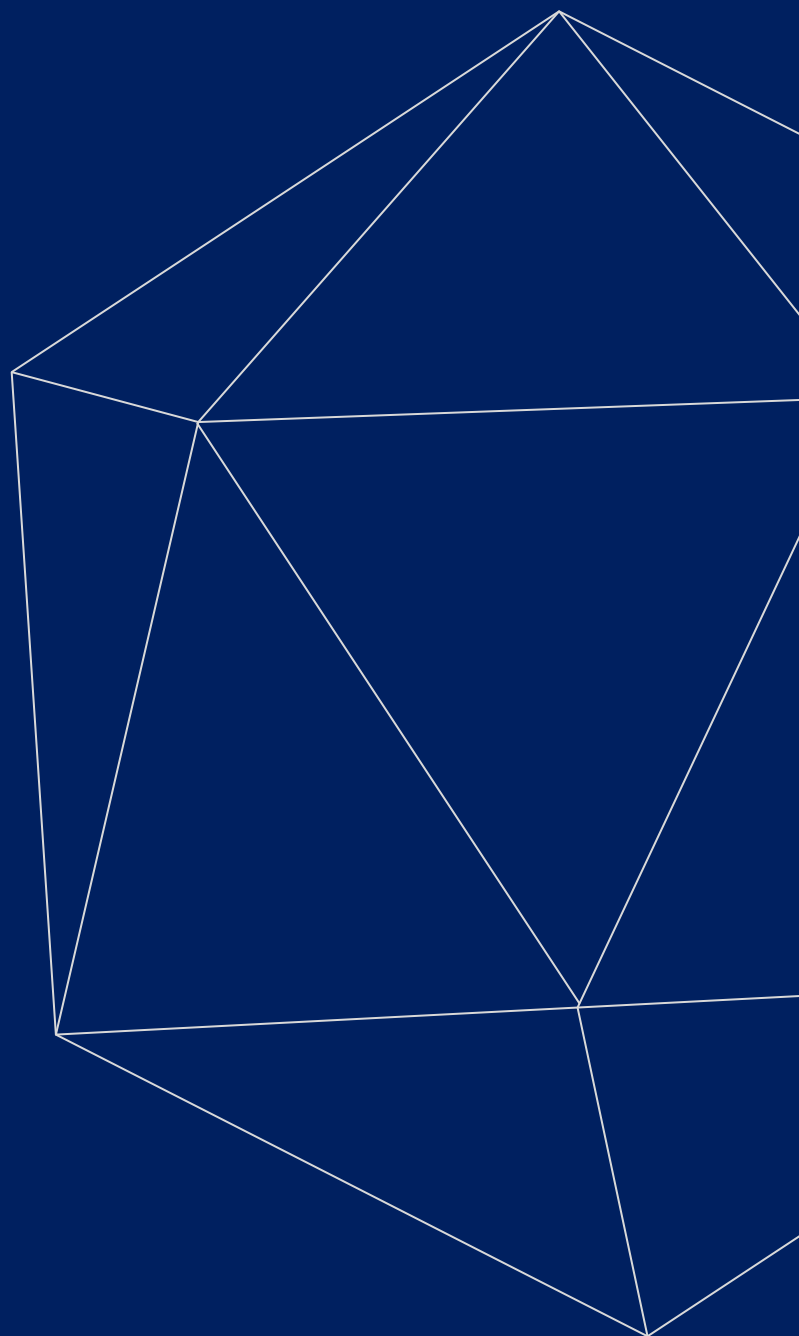
**Kalstein**®

A different accompaniment, at your service

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# LABORATORY LINES

REFRIGERATORS AND  
FREEZERS



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# Kalstein®

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OUR SERVICES

## Benefits and Support

In Kalstein France, we take care of the full satisfaction of our customers, that is why we provide value-added services of the highest level based on our experience.



### Online Inductions and Trainings

In any part of the world, receive your induction or training from our specialized team of engineers



### Quick Response

Our work team is always available to response all your consults or questions, in order to support you in any situation.



### #Letsgivemore ♥

Thanks to your purchase, a donation is made to a non-profit foundation that fights against cancer and helps vulnerable communities.



### Technical Support

Enjoy of personalized advice for the correct preventive and corrective maintenance of your equipment, thanks to Kalstein's manuals and articles, special catalogues and video tutorials.



### Delivery Logistics

We take care of all the necessary logistics for the dispatch of your goods, whether is by sea, land or air.



### Kalstein Worldwide

With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.



## -40°C Low Temperature Freezer

### Serie YR05099



YR05306



YR05099



YR05307



YR05309/ YR05311



### KEY FEATURES

- Microprocessor control, adjustable temperature range: -30°C to -40°C
- LED digital display and increment at 0.1°C
- Permanently lubricated cooling fan for safety and longevity.
- Independent inner door to avoid more cooling leaking out, and provide more stable inside temperature performance
- High density CFC-Free urethane foam insulation.



### RELIABILITY

- Chemically stable, CFC-free, commercially available and environmentally safe refrigerant.
- Optimized refrigeration system designed to maximize cooling effect and temperature uniformity
- Microprocessor control, digital display, adjustable temperature range: -30°C--40°C
- LED digital display for clear observation,



### ELECTRIC CONTROL

- Wide voltage tolerance design with applicable voltage range of 187-242V/AC



### ERGONOMIC DESIGN

- USB data logging and temperature recorder (optional).
- Build-in lock with safety and beauty
- Lockable caster design for customer to move as needed



### SAFETY

- Multiple malfunction alarms to detect high and low temperature, sensor error, power off, temperature controller malfunction, door ajar.
- Two types of alarm indications: audible buzzing and visual flashing light.
- Corrosion proof cabinet interior design
- Power failure protect: the device would be attack by the high current when all devices restart simultaneously, the start-delay function would protect device from the damage



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## -40°C Low Temperature Freezer Serie YR05099

 Energy-saving and  
enviromental friendly



YR05309/ YR05311



YR05100/ YR05310

### RELIABILITY

- Single temperature control system with double door construction.
- Flexible and easy storage by height-adjustable shelf trays
- Maintains the quality of the samples during preservation
- 2 completely independent chambers with their own temperature displays

### KEY FEATURES

- 2 Independent doors ,2 Compressors,2 Test Holes,2 Displays.
- Standard with thermal printer to record 1 year's data



### FEATURES

- Height-adjustable shelf trays allow you to adjust the inside of the chambers according to the size of the samples. By changing the height of the shelf trays, the unit can accommodate various sizes of samples including stored in your conventional models.
- Door latch with provision for a padlock for extra protection of samples.
- Equipped with separate doors that suppress the leakage of cold air during opening and closing of the doors, and manual defrosting that helps avoid temperature impact on the samples.



### SAFETY DESIGN

- To securely preserve/manage the valuable samples, in addition to a standard-feature door lock, a hole in the latch allows a padlock to be attached.
- Security functions that help protect valuable samples with a temperature control capability that inhibits the change in temperature inside the chamber, and an alarm/security function that prevents errors, the unit maintains the quality of the preserved samples.
- Temperature recorder (optional)
- Front-mounted display/control panel located at convenient height for easy access
- Insulated door with gasket for sample protection and uniformity
- 2 USB port interface



### EASY TO CLEAN

- Top and bottom chambers are equipped with 2 independent refrigeration circuits that enables separate temperature settings and defrosting for the two chambers.
- With the capability to defrost the top and bottom chambers separately, the unit makes it easy to transfer samples during defrosting.



### #Let'sgive more

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**-40°C Low Temperature Freezer**

**Serie YR05099**



Double LED digital display, which can separately display the temperature data and various alarm information of the upper and lower rooms



Two test holes are equipped on the right of the cabinet, installing the temperature recorder to detect the temperature change of each room

Top and bottom chambers are equipped with 2 independent refrigeration circuits that enables separate temperature settings and defrosting for the two chambers. With the capability to defrost the top and bottom chambers separately, the unit makes it easy to transfer samples during defrosting.



The freezer room is equipped with a standard aluminum alloy door handle with pressure relief function, which is convenient for frequent opening and closing in a short time



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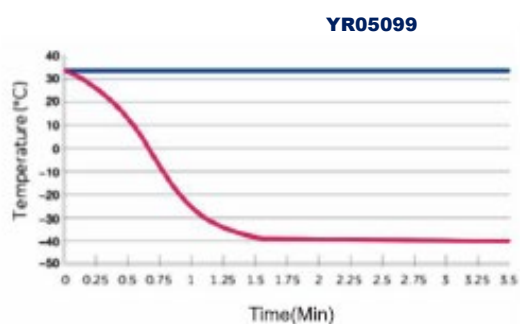


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**-40°C Low Temperature Freezer**  
**Serie YR05099**

 **Energy-saving and  
 enviromental friendly**



**Pull-down test at 32°C ambient**



**Inner 7 drawers**



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## -40°C Low Temperature Freezer

Serie YR05099

 Energy-saving and environmental friendly



	Model	YR05306	YR05099	YR05307	YR05309
Specifications	Shelf/drawer	Shelves	Drawer/7	Shelves	Shelves/12 drawers
	Cooling method	Direct cooling	Direct cooling	Direct cooling	Direct cooling
	Defrost	Manual	Manual	Manual	Manual
	Refrigerant	R290	R290	R290	R290
	Power consumption(kWh/24h)	4	3	4	5.5
	Noise (db)	48	50	48	49
	Ambient temperature (°C)	10~32°C	10~32°C	10~32°C	10~32°C
	Temperature range (°C)	-30~-40°C	-30~-40°C	-30~-40°C	-20~-40°C
Cooling system	Compressor brand/QTY	CUBIGEL/1	CUBIGEL/1	CUBIGEL/1	CUBIGEL/2
	Condenser	Wire tube	Wire tube	Wire tube	Wire tube
	Sensor	NTC	NTC	NTC	NTC
	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	Display	Digital display	Digital display	Digital display	Digital display
Power	Voltage/frequency (V/Hz)	220/50Hz	220/50Hz	220/50Hz	220/50Hz
	Power (W)	300W	185W	300W	310W
	Current (A)	1.6A	1.6A	1.6A	3
Material	Inside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
	Outside material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
	Insulation	PURF	PURF	PURF	PURF
Size	Capacity (L/cu.ft)	268/9.46	278/9.81	328/11.58	358/12.6
	NT/GT. (kg)	98.5/118	79/104.5	110.3/132	138/178
	Exterior size(W*D*H)(mm)	690*680*1635	670*640*1695	685*670*1900	720*830*1870
	Interior size(W*D*H)(mm)	508*455*1137	480*415*1460	508*455*1393	466*636*625
	Package size(W*D*H)(mm)	780*760*1750	725*665*1850	750*760*2030	780*920*1990
	CBM	1.01	0.89	1.16	1.43
Alarm	20GP/40GP/40HQ	21/45/45	24/54/54	21/48/48	18/39/39
	High/low temperature	Y	Y	Y	Y
	Power failure	Y	/	Y	Y
	Sensor error	Y	Y	Y	Y
	Filter check	/	/	/	/
	Temperature controller failure	Y	Y	Y	Y
	Low battery	/	/	/	/
	Condenser clean	/	/	/	/
	High ambient temperature	/	/	/	Y
	Door ajar	Y	Y	Y	Y
Power failure backup system(alarm)	8h	\	8h	8H	
Accessories	Foot	Y	Y	Y	Y
	Castor	Y	Y	Y	Y
	Inside door	Y	7 Drawer	Y	12DRAWERS
	Test hole QTY/diameter	Y	Y	Y	Y
	USB port	/	/	/	Y
	Remote alarm port	Y	/	Y	Optional
Other	Certification	ISO,CE	ISO,CE	ISO,CE	ISO,CE



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Not just be informed, be fully informed

**The 3 articles of the week!**

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**1**  
Read this ARTICLE NOW

**How does the climate affect your microscope?**

microscope is an instrument that allows observing and measuring objects that are too small to be seen with the naked eye. This is achieved through a complex system of lenses and mirrors, which form

**Kalstein Blog**

**Article of the week:**  
How does the climate affect your microscope?

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**2**  
Read this ARTICLE NOW

**What is the importance of the laboratory refrigerator?**

refrigerator is a device that is one of the most common pieces of equipment used in laboratories to maintain, in a controlled environment (refrigerated space), various fluids and substances.

**Kalstein Blog**

**Article of the week:**  
What is the importance of the laboratory refrigerator?

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