



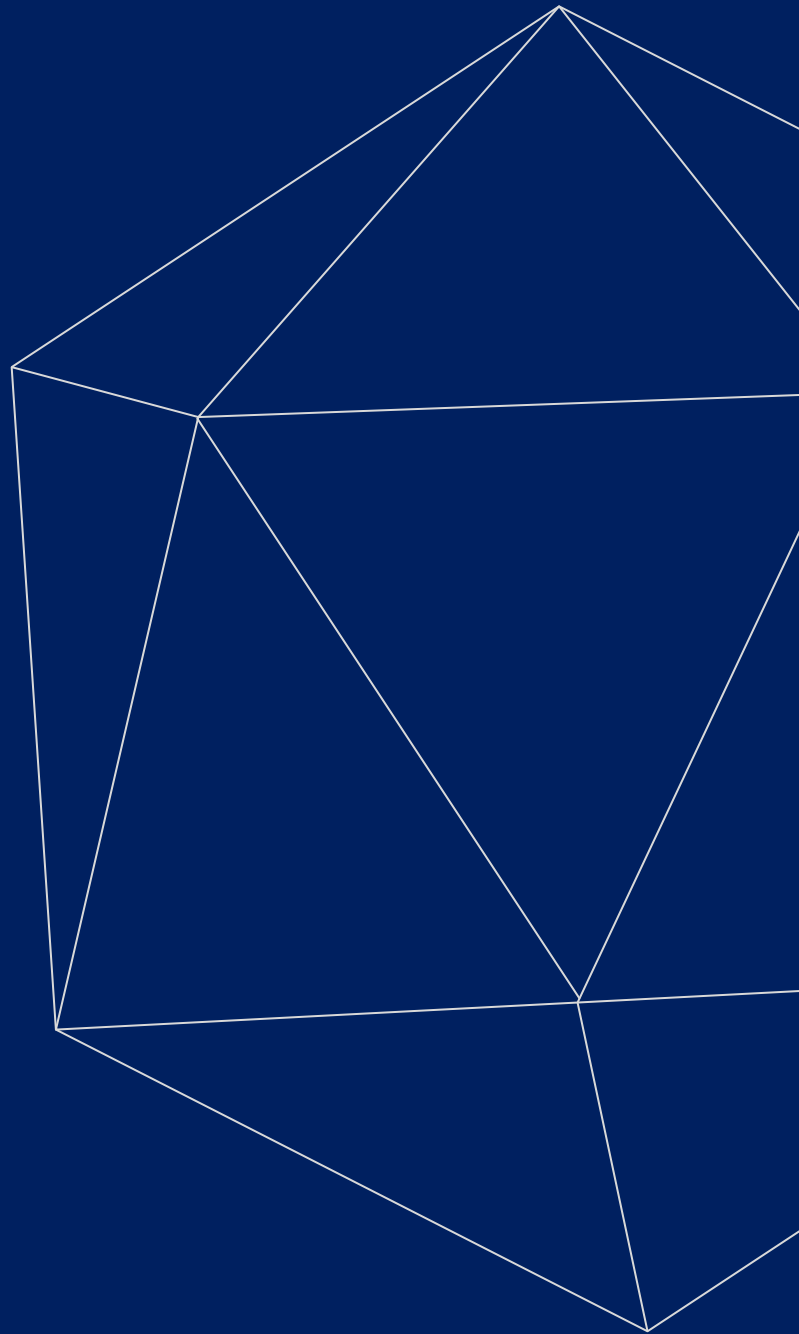
# LABORATORY SECTOR

## FREEZE DRYER



**Kalstein**®

A different accompaniment, at your service





# Kalstein®

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**KALSTEIN® Freeze Dryer**  
**Vertical Normal Lab Freeze Dryer**  
**Model YR05190**



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**KALSTEIN® Freeze Dryer**  
**Vertical Normal Lab Freeze Dryer**  
**Model YR05190**



**Product Description:**

Standard type vacuum freeze dryer is suitable for experiment in laboratory. Freeze dryer is widely used in medicine, pharmacy, biology research, chemical industry and food production ,etc. After the freeze drying process, a long term preservation for products is much easier. They can be restored to the original state and maintain their chemical and biological characteristics after being watered. The vacuum freeze drying technology, which is also called sublimation drying, is a technical method that freezes samples in advance, and then sublimates its moisture in vacuum state.



**Features:**

- ✓ CFC Free refrigeration
- ✓ LCD display drying curves, English interface
- ✓ Big opening of condenser, condenser with pre-freezing function
- ✓ Low noise compressor, good efficiency, long service life
- ✓ Condenser and operation panel are all stainless steel
- ✓ Drying Chamber with organic glass is safe and visible
- ✓ Shelf and tray are stainless steel, tray spacing can be customized
- ✓ Small volume , easy and convenient operation
- ✓ Nitrogen valve is optional
- ✓ Eutectic point test device is optional
- ✓ Communication interface is optional
- ✓ Cascade refrigeration is optional , applied for -80°C device



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**Technical Specifications:**

<b>Model</b>	YR05190
<b>Freeze drying area</b>	0.12m <sup>2</sup>
<b>Condenser capacity</b>	3-4 L /24h
<b>Condenser temperature</b>	-55°C (-80 °C optional )
<b>Vacuum degree</b>	< 10 Pa
<b>Material tray</b>	Φ200mm , 4 layers
<b>Bulk capacity</b>	1.2L, 10mm thickness
<b>Vial capacity Φ12mm</b>	920 pcs
<b>Vial capacity Φ16mm</b>	480 pcs
<b>Vial capacity Φ22mm</b>	260 pcs
<b>Cooling</b>	Air, draughty, ambient temperature ≤25°C
<b>Voltage</b>	220V, 50Hz
<b>Host dimension</b>	556×460×(720+430) mm
<b>Power</b>	750W
<b>Host weight</b>	62 kg



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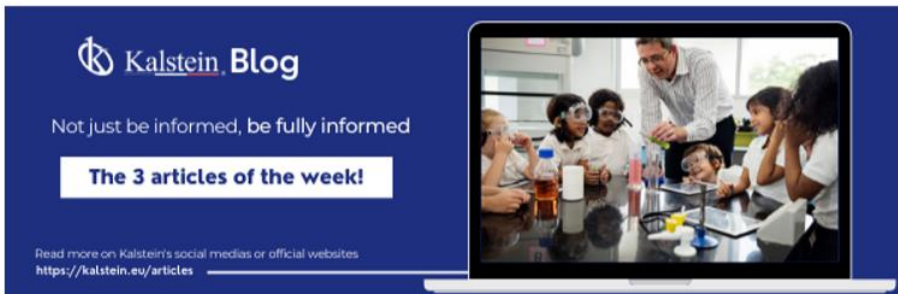
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Not just be informed, be fully informed

**The 3 articles of the week!**

Read more on Kalstein's social medias or official websites  
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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 small objects. This is achieved through a series of lenses that focus light on the object being observed.

**Kalstein Blog**

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

Read more on Kalstein's social medias or official websites  
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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 essential equipment that is used 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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