°CRYOSOLUTIONS

Deep freeze technology – reliable and safe.

Pharmacy and Laboratory Refrigerators +5°C

Zenith Lake Biotech

Zenith Lake Biotech's pharmacy and laboratory refrigerators combine precise temperature control with modern, energy-efficient refrigeration technology. Within the temperature range of +2°C to +8°C, active air circulation cooling, high-performance cooling systems, and comprehensive alarm functions ensure reliable storage conditions for sensitive products.

From space-saving under-counter models to large-capacity refrigerators with a redundant dual-cooling system, the series offers suitable solutions for a wide variety of applications. Inverter compressors, natural refrigerants, integrated temperature logging, and extensive monitoring functions enhance efficiency, ease of use, and operational reliability, depending on the model.

Product Features

- Flexible range of models – from 126 to 1,366 liters to meet a wide variety of space and capacity requirements
- Precise temperature control – reliable storage at +2°C to +8°C with active recirculating air cooling
- High operational reliability – comprehensive alarm and monitoring functions protect sensitive stored goods
- Efficient refrigeration with natural refrigerants and, depending on the model, inverter compressors

Your benefits with CryoSolutions AG

- Everything from a single source: consulting, sales, service
- Many years of experience and a high level of specialization
- Fast and competent on-site service
- Backup units of various sizes available
- Complete spare parts inventory and service center in Switzerland

ZENITH LAKE - BIOTECH -

Official Zenith Lake Biotech representative:
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Features

ZC-5L126 – Compact performance in a small footprint

With a 126-liter usable volume and a width of just 595 mm, the ZC-5L126 is ideal for applications with limited space. At the same time, it offers temperature uniformity of ±1.0°C, USB data logging, and comprehensive alarm functions – delivering professional performance in a compact under-counter design.

ZC-5L416 – Smart inverter technology with comprehensive monitoring

The ZC-5L416 combines modern inverter refrigeration technology with comprehensive monitoring and safety features. USB data logging, temperature recording, a remote alarm contact, and a 16-hour battery backup ensure reliable and continuous monitoring of sensitive stored goods.

ZC-5L606 – Large storage capacity with high energy efficiency

With a usable volume of 606 liters, the ZC-5L606 offers plenty of space for temperature-sensitive products while remaining remarkably efficient, with a specified energy consumption of just 2 kWh per day. The combination of an inverter compressor, recirculating air cooling, and integrated temperature monitoring makes it a high-performance all-rounder for laboratory and pharmaceutical applications.

ZC-5L1366B – Dual cooling for maximum operational reliability

The ZC-5L1366B features a redundant dual-cooling system with two independent cooling systems. If one of the systems fails, the second can continue to maintain the temperature within a safe range – a crucial advantage for particularly valuable and temperature-sensitive stored goods.

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Specifications

Models	ZC-5L126	ZC-5L416	ZC-5L606	ZC-5L1366B
Storage				
Application	Pharmacy and Laboratory Refrigerator	Pharmacy and Laboratory Refrigerator	Pharmacy and Laboratory Refrigerator	Pharmacy and Laboratory Refrigerator
Storage Volume	126 L	416 L	606 L	1,366 L
Temperature Range	+2°C to +8°C	+2°C to +8°C	+2°C to +8°C	+2°C to +8°C
Temperature Uniformity	±1°C	≤ 2°C	≤ 2°C	≤ 2°C
Temperature Stability	2°C	2°C	2°C	3°C
Number of Compartments	3	6	7	14
Load Capacity per Shelf	35 kg	35 kg	35 kg	35 kg
Technical Specifications				
Cooling System	Forced-air cooling	Forced-air cooling	Forced-air cooling	Forced-air cooling, dual cooling system
Refrigerant	R600a	R600a	R600a	R600a
Cooling Time to +6°C	1.3 h	1.5 h	1.5 h	1.3 h
Temperature recovery to +8°C after door opening for 1 minute	9 min.	14 min.	14 min.	7 min.
Power supply	230 V / 1 A / 50 Hz	230 V / 1.7 A / 50 Hz	230 V / 2.2 A / 50 Hz	230 V / 4.7 A / 50 Hz
Energy consumption	0.78 kWh/day	2 kWh/day	2 kWh/day	5.9 kWh/day
Noise level	45 dB	60 dB	55 dB	35 dB
Display	LCD	LED	LED	LED
Alarm output, data export	Remote alarm contacts, USB	Remote alarm contacts, USB	Remote alarm contacts, USB	Remote alarm contacts, USB
Interior material	Coated Steel	HIPS / Stainless Steel	Coated Steel / Stainless Steel	Stainless Steel
Feed-throughs for external probes	1x 25 mm	1x 25 mm	1x 25 mm	2x 25 mm
Interior dimensions mm (W x D x H)	505 x 467 x 620	595 x 514 x 1,343	660 x 590 x 1,560	1,410 x 660 x 1,540
External dimensions mm (W x D x H)	595 x 615 x 810	690 x 653 x 1,920	760 x 825 x 1,925	1,500 x 895 x 1,925
Certification	CE, UL	CE, UL	CE, UL	CE

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