



# VOSTOK FREEZERS

ULTRA-LOW TEMPERATURE FREEZERS FOR MEDICAL & LABORATORY COLD STORAGE

## Minus80 Series

ATS' VOSTOK, Minus80 series of ultra-low temperature refrigeration systems are designed and manufactured specifically for the long term storage of medical and laboratory products. ATS' VOSTOK freezers are ideal for biological storage, including vaccines, viruses, germs, blood plasma, skin, bone marrow, sperm, and other biological, pelagic and special test products.

ATS' VOSTOK, Minus80 series includes a wide range of single self-cascade, dual-cascade and double-cooling refrigeration systems. With its optimized evaporator design and state-of-the-art compressor, all Vostok freezers comfortably cool to  $-86^{\circ}\text{C}$ .

## Features

- » Wide ambient temperature design cools to  $-86^{\circ}\text{C}$  under ambient temperature from  $10^{\circ}\text{C}$  to  $43^{\circ}\text{C}$
- » Wide voltage range, from 187V-242V
- » Removable condenser cover, convenient for maintenance & cleaning
- » Reserved installation hole for circular-chart recorder
- » Protective cover for on/off switch, external alarm port & USB port
- » Removable inner door
- » Adjustable SUS304 shelves
- » Professional double testing hole
- » Adjustable foma wheel, easy for installation, leveling & maneuvering
- » Optional Frozen rack
- » Foamed inner & outer door, forced inner door handle & 3 layers of silicon seals
- » Each component is equipped with noise reducing, high density fire-proof sound-absorbing cotton

## Safety & Alarm Systems

- » Perfect alarm system with buzzer sound & lamp flashing alarm functions.
- » Alarms include: High/Low temperature, Power Failure, Abnormal Voltage, Sensor Error, Filter Screen Check, Thermostat Failure, Low Battery, Condenser Clean, High Ambient, Temperature & Door Ajar.
- » Multiple-protection functions including: password protection, frequent start-up protection & refrigerating system operation protection if sensor is faulted.

## Refrigeration System

- » Ultra-thick foam layer, dual-sealing design of door, for effective temperature protection.
- » Optimized auto-cascade refrigerating system, state-of-the-art compressor, for excellent refrigerating performance.
- » Optimized evaporator design ensures the most effective flow of refrigerating fluid & temperature uniformity in the cabinet.
- » Unique fluoride-free mixed refrigerant fluid is 100% CFC-Free.
- » Single-compressor system, fewer part for lower failure rate & energy consumption.
- » EBM-Papst noiseless fan for stable performance & lower noise.



## Temperature Control Function

- » Micro-computer control, digital temperature display, adjust unit is  $0.1^{\circ}\text{C}$ .
- » Adjustable temperature. Temperature difference of start-up & shutdown can be set.
- » High & low temperature alarm function, alarm temperature can be set as needed.

## Humanized Design

- » Food-grade stainless steel liner never get rusty, safe for samples.
- » Heavy duty casters design makes it convenient to move.
- » Safety door design to prevent accidental opening.
- » LED temperature display, convenient & clear to observe.
- » Suitable for using at environmental temperature of  $10\sim 30^{\circ}\text{C}$
- » Optional digital temperature recorder makes it convenient to record & store performance data at special conditions, equipment with USB connector to copy data for analyzing.
- » Wide voltage range design, suitable for using when the voltage is 187V~242V.

## Applications

- » Hospitals
- » Blood Banks
- » Epidemic Prevention/Response Services
- » Research Institutes
- » Biomedical & Chemical Industries
- » Marine Fishery Industries



**Double-Cooling Systems**  
One on Standby, with LED Controller

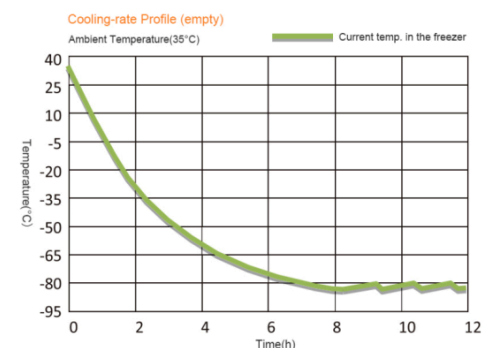
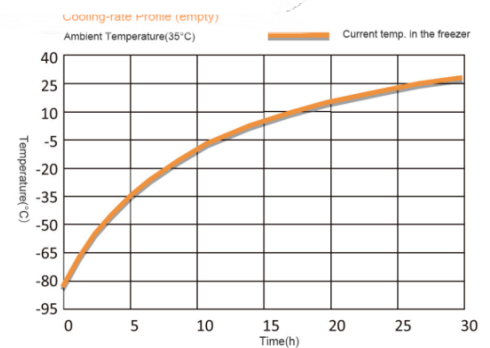
**TEMP**  
-86°C

**CAPACITY**  
50~936L



**AVAILABLE OPTIONS**

ITEMS	PART NUMBER
LCD Touch Screen Controller	ATSM80-UP01
Large Color LCD Paperless Temperature Recorder with USB	ATSM80-UP03
Large Door Handle with Key Lock	ATSM80-UP04
External Hung Type Temperature Recorder	ATSM80-UP05
TR3000 Remote Temperature Recorder Data Logger	ATSM80-UP06
Stainless Steel Rack, 5*5	ATSM80-UP07
Stainless Steel Rack, 4*4	ATSM80-UP08
Stainless Steel Rack, 5*4	ATSM80-UP09
Stainless Steel Rack, 4*3	ATSM80-UP10
Stainless Steel Rack, 5*5	ATSM80-UP11
Stainless Steel Rack, 4*4	ATSM80-UP12
Stainless Steel Rack, 5*4	ATSM80-UP13
Stainless Steel Rack, 4*3	ATSM80-UP14
CO <sub>2</sub> /LN Standby System	ATSM80-UP15





## Double Cooling Systems

One on Standby, with LED Controller

### PRODUCT SPECIFICATIONS

	PART NUMBER				
	ATSM80-S158L27	ATSM80-S208L34	ATSM80-S308L39	ATSM80-S408L54	ATSM80-S508L43
Temperature Range (°C)	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86	-40 ~ -86
Capacity (L)	160	212	302	385	508
Outer Dimensions L*W*H (in)	27.6*27.6*62.2	31.9*28.7*63	31.9*29.9*71.3	33.5*37.8*73.2	34.4*28.7*74.8
Inner Dimensions L*W*H (in)	18.1*17.9*31.5	22.4*19.1*31.5	22.4*19.1*44.9	21.7*24.8*44.9	22.4*28*44.3
Temperature Controller	Digital	Digital	Digital	Digital	Digital
Touch Screen	☉	☉	☉	☉	☉
Compressor	DANFOSS	DANFOSS	DANFOSS	DANFOSS	DANFOSS
Refrigerant	Mixed	Mixed	Mixed	Mixed	Mixed
Cooling Method	Direct	Direct	Direct	Direct	Direct
Condenser Fan	EBM	EBM	EBM	EBM	EBM
Exterior Material	Cold Rolled Steel	Cold Rolled Steel	Cold Rolled Steel	Cold Rolled Steel	Cold Rolled Steel
Inner Material	SS304	SS304	SS304	SS304	SS304
Shelf/Drawer QTY	2	2	2	3	3
Small Door (pcs)	3	3	3	4	4
Foam Thickness (mm)	90	90	90	90	90
Door Handle	Built-In	Built-In	Full Height	Full Height	Full Height
Door Lock	☉	☉	☉	☉	☉
Handle, Lock & Key	Buckle Lock	Buckle Lock	Buckle Lock	Buckle Lock	Buckle Lock
Balance Hole	✓	✓	✓	✓	✓
Caster	✓	✓	✓	✓	✓
Temperature Recorder	☉	☉	☉	☉	☉
USB Interface	☉	☉	☉	☉	☉
Power (W)	1015	1045	1110	1210	2250
Weight (Kg)	128	147	165	215	260
Voltage (V/Hz)	220/50	220/50	220/50	220/50	220/50
Voltage (110V/60Hz)	☉	☉	☉	☉	☉
Packing	Honeycomb + Pallet	Honeycomb + Pallet	Honeycomb + Pallet	Honeycomb + Pallet	Plywood

**For further technical information, please contact  
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