

K249SDF Pharmaceutical / Laboratory

USES: / CLINICAL APPLICATIONS / VACCINES & MEDICATIONS / BIOLOGICS / DIAGNOSTICS KITS / MOLECULAR BIOLOGY / INDUSTRIAL TESTING



K249SDF
Solid Door

K2's 49 cu. ft. high-performance laboratory freezers are designed for the most rigorous life science and commercial applications. Featuring an intelligent microprocessor controller and temperature stability of +0.88°C, and -1.87°C. The K249SDF uses environmentally friendly, natural refrigerants that are compliant with EPA/SNAP/UL regulations.

- Intelligent microprocessor controller with digital display and adjustable temperature control
- Visual and audible high or low temperature, sensor failure, door open alarms
- Keyed door locks
- Rapid cool-down mode after door opening for quick temperature recovery
- Door-activated and switch-activated interior LED lighting
- Cabinet constructed of white powder-coated 304 steel with CFC-free, high-density insulation (2.4' thick)
- R290 refrigerant, an environmentally green option compliant with future EPA and SNAP mandates
- Easy swivel casters
- Remote dry alarm contacts
- 0.75-inch temperature probe and one data logger access port
- UL and cUL listed (61010-1)
- Shelves are adjustable by 1-inch increments
- Energy Star high-performance certified and listed
- Built and shipped from ISO 9001:2015 manufacturing and distribution facilities
- Each cabinet undergoes three quality control checks prior to shipping
- Warranty: Two-year full-replacement and parts, plus five years for compressor replacement



K249SDF-SS
Solid Door



K2 Monoblock Technology - a one-piece, removable cooling/freezing system installed on top of a refrigerator or freezer. In the event of a major performance issue the K2 Monoblock can be easily replaced in 20 minutes or less.

Plug Type

Standard: NEMA 5-15 Optional: NEMA 5-20



MODEL NUMBER	CAPACITY CU. FT. / liters	INTERIOR Width x Depth x Height	EXTERIOR Width x Depth x Height	TEMP RANGE (SETPOINT)	DOORS	SHELVES	DEFROST	CERTIFICATION	SHIPPING WT. kg / LBS.
K249SDF K249SDF-SS	49/1400	W-1320mm (51.97") D-665mm (26.18") H-1520mm (59.84")	W-1440mm (56.69") D-800mm (31.5") H-2048mm (79.25")	-25°C TO -10°C Preset -25°C	2	8	SMART	UL / cUL	205KG (450LBS)

Built and shipped from ISO 9001:2015 manufacturing and distribution facilities

FREEZERS	High-performance storage of blood, vaccines, pharmaceuticals and laboratory products	
Model#	K225	K249
Storage Volume	25 cu ft	49 cu ft
Performance Characteristics		
Exterior (W x D x H)	28.35" x 31.5" x 79.25"	56.69" x 31.5" x 79.25"
Interior (W x D x H)	23.62" x 26.18" x 59.84"	51.97" x 26.18" x 59.84"
Insulation	CFC-free, high density insulation	
Doors	1	2
Door Perimeter Heater	Standard	
Shelves	4	8
Access Port	0.75" Probe Port	
Casters	Standard	
Unit Weight	253 lbs	465 lbs
Performance		
Peak Variance*	3.6°C	4.4°C
Uniformity	2.2°C	1.9°C
Recovery (in minutes)	14	22
Stability	+ 0.88°C / - 1.87°C	+ 1.32°C / - 1.34°C
Energy Consumption (KWhr/day)*	5.34	7.39
Heat Rejection (BTU/hr)	3586	5095
Pulldown time to -25°C (in Minutes)	62	76
Adjustable Set Point Range	- 10°C to -35°C	
Factory Set Point	- 30°C	
Electrical Power/ Current	120v 60 Hz	
Building Supply Rating	15 Amp	
Power Plug/Cord Length	NEMA 5-15 / 10ft cord	
Agency Listings	UL/cUL, FDA	
VFC Compliant	Yes	
Energy Star	Yes	
Indoor/Outdoor Use	Indoor use only	
Application Environment	Non-corrosive, non-flammable, non-explosive	
Ambient Operating Temp. (°C)	25°C to 32°C	
Refrigeration		
Refrigeration System	Vapor compression system, forced-air	
Compressor	Hermetic sealed compressor	
Condenser Type	Steel tube and fins	
Expansion Device	Capillary tube	
Evaporator Type	Copper aluminum coated (1000 hours tested salty fog)	
Defrost	Smart- hot gas	
Refrigerant	R290 (Propane)- EPA, SNAP compliant	
Controller/System Configuration		
User Interface	Microprocessor with digital display	
Power Switch	On/Off	
Controller Type	Digital controller	
Security	Lockable doors	
Control Sensor	NTC probe	
Remote Alarm Terminals	Standard	
High/Low Alarms	Standard	
Power Failure Alarm	Standard	
Door Ajar Alarm	Standard	
Options	Stainless steel	
Warranty	2 years parts & labor, 5 years on monoblock compressor	

*Data according to EPA Energy Star <https://www.energystar.gov/productfinder/product/certified-lab-grade-refrigeration/results>