

VWR cold storage

- 01. VERSATILE LABORATORY REFRIGERATORS, FREEZERS, AND ULTRA-LOW FREEZERS DESIGNED FOR YOUR NEEDS
- 02. LOW ENERGY CONSUMPTION, GREEN REFRIGERANTS, AND GREEN MANUFACTURING



VWR® STANDARD SERIES**DEPENDABLE STORAGE IS OUR STANDARD**

VWR Standard Series laboratory refrigerators, freezers, and combination units provide an economical solution for dependable storage. This series is particularly suited for routine laboratory applications needing storage that is simple to use and easy to maintain.

- Standard performance
- Quiet operation improving work environment
- Easy-to-clean, durable finish
- Manual and auto defrost

VWR® SERIES**SECURITY AND COMFORT FOR YOUR EVERYDAY LABORATORY NEEDS**

VWR Series general purpose laboratory refrigerators, freezers, and combination units are designed with your application in mind. The VWR Series is ideal for the demanding requirements of daily use in research, clinical, and industrial laboratories storing reagents, media, proteins, and samples used daily in the lab.

- Optimized performance
- ENERGY STAR® certified low energy refrigerators
- Quiet operation improving work environment
- Adaptive and auto defrost
- Large array of capacities- from 12 to 72cf
- VWR Series Refrigerators and Chromatography Refrigerators are SNAP compliant

VWR® HAZARDOUS SERIES**SAFETY ABOVE ALL ELSE**

VWR Hazardous Series flammable- and explosion-proof storage refrigerators, freezers, and combination units are designed to be used for storage of volatiles where a spark-free environment is required.

- Spark-free interior and exterior options
- All models are manual defrost
- Durable white exterior
- Designed for use in Class 1, Division 1, Group C and D environments
- Plug-free cord option (units must be hardwired to wall)

VWR® -86°C AND -40°C ULTRA-LOW TEMPERATURE FREEZERS**ENHANCED FEATURES LOWER ENERGY CONSUMPTION AND HVAC COSTS**

VWR -86°C ULT Freezers feature a user interface and ergonomic design.

- Just plug in and go, no setup required
- Reduced/low peak variation to protect sample temperature¹
- Low noise, like your home refrigerator²
- Fast door-opening recovery
- Four -86°C capacities: 300, 400, 500, and 600 2-inch box
- Two -40°C capacities: 400 and 500 2-inch box
- Three voltage options: 115V/60Hz, 208-230V/60Hz, and 230V/50Hz
- General purpose units and FDA Class II options available
- Environmentally friendly, water-blown foam insulation compliant with EPA SNAP and EU F-Gas regulations

1. Typical freezer data based on internal testing with freezer setpoint at -80°C or -40°C (respectively) and ambient temperature at 20°C. Performance data varies across freezer size and electrical specifications.

2. All data based on internal data unless otherwise noted. Data on file.



This new line of VWR cold storage refrigerators, freezers, and combination units are all built with the performance, security, and quality features you have come to expect from VWR, part of Avantor. They are also designed to be environmentally friendly with:

- EPA Energy Star® certification & low heat output
- EPA SNAP compliant, natural refrigerants

Additionally, The VWR Standard Series, VWR Series, VWR Hazardous Series, and VWR -86°C Ultra-Low Temperature units are all manufactured in the USA at a zero landfill facility.



A cold storage solution to suit a variety of applications

Application	VWR® Standard Series	VWR® Series	VWR® Hazardous Series	VWR® -86°C & -40°C Ultra-Low Temperature, General Purpose	VWR® -86°C Ultra-Low Temperature, FDA Class II	VWR -40°C Ultra-Low Temperature, FDA Class II
Antibody dilutions		X				
Biologic materials (all types)				X	X	
Blood & blood products					X	X (FFP only)
Cannabis processing			X			
Cell culture media, daily	X			X	X	
Cell culture media, storage		X		X	X	
Chemical dispensing			X			
Chromatography		X	X			
Clinical testing & analyzer kits		X				
Electrophoresis buffers		X				
FDA application					X	X
Flammable storage			X			
Industrial testing		X	X			
Membranes	X					
Plants & seeds				X		
Reagents		X				
RNA & DNA				X		
Solvents			X			
Staining solutions	X					
Tissue & bone					X	

Note: Fresh frozen plasma (FFP)

VWR® SERIES LABORATORY REFRIGERATORS

Ideal for the demanding requirements of daily use in research, clinical, and industrial laboratories storing reagents, media, proteins, and samples used in the lab. These refrigerators combine the performance, security, and quality required for everyday laboratory applications.

- EPA ENERGY STAR® certified
- Whisper-quiet refrigeration systems
- Temperature, power failure, and door ajar alarms
- EPA SNAP compliant, green natural refrigerants
- Two-year warranty for parts and labor, plus three-year compressor warranty

Additional benefits

- Wide range of cabinet sizes from 12 cu. ft. to 72 cu. ft.
- Adaptive defrost
- Option of glass (double pane) or solid door configurations
- Choice of white painted interior and exterior, or stainless steel interior and gray exterior
- LED interior lighting
- Low heat output
- Rear access port
- Keyed door lock(s)
- Remote alarm contacts



SPECIFICATIONS

Temperature Range	2°C to 10°C, preset to 5°C, adaptive defrost
Electrical	115 V, 60 Hz
Plug Type	NEMA 5-15P



Volume, L (cu. ft.)	No. of Shelves	Door	Exterior Dimensions, H x W x D, in.	Shipping Weight, kg (lbs.)	Cat. No.
White Painted Exterior, Glass Doors					
339 (12)	4	Single	75.8 x 24.75 x 25	105 (230)	76314-250
651 (23)	4	Single	81 x 27.75 x 32	178 (392)	76314-252
764 (27)	4	Single	81 x 30.75 x 32	175 (386)	76314-010
1274 (45)	8	Double	81 x 52.7 x 32	255 (561)	76314-026
1,387 (49)	8	Double	81 x 52.7 x 32	271 (597)	76314-260
2,038 (72)	12	Triple	81 x 75.7 x 32	332 (733)	76314-268
White Painted Exterior, Solid Doors					
651 (23)	4	Single	81 x 27.75 x 32	178 (392)	76314-254
764 (27)	4	Single	81 x 30.75 x 32	175 (386)	76314-012
1,387 (49)	8	Double	81 x 52.7 x 32	271 (597)	76314-262
Stainless Steel Exterior, Glass Doors					
651 (23)	4	Single	81 x 27.75 x 32	178 (392)	76314-256
764 (27)	4	Single	81 x 30.75 x 32	175 (386)	76314-014
1,274 (45)	8	Double	81 x 52.7 x 32	255 (561)	76314-028
1,387 (49)	8	Double	81 x 52.7 x 32	271 (597)	76314-264
2,038 (72)	12	Triple	81 x 75.7 x 32	332 (733)	76314-270
Stainless Steel Exterior, Solid Doors					
651 (23)	4	Single	81 x 27.75 x 32	178 (392)	76314-258
764 (27)	4	Single	81 x 30.75 x 32	175 (386)	76314-024
1,387 (49)	8	Double	81 x 52.7 x 32	271 (597)	76314-266

VWR® SERIES CHROMATOGRAPHY REFRIGERATORS

Ideal for the demanding requirements of daily use in research, clinical, and industrial laboratories storing reagents, media, proteins, and samples used in the lab. These refrigerators combine the performance, security, and quality required for everyday laboratory applications.

- EPA ENERGY STAR® certified
- Whisper-quiet refrigeration systems
- Safety sensor protected interior outlet on chromatography models
- Temperature, power failure, and door ajar alarms
- EPA SNAP compliant, green natural refrigerants
- Two-year warranty for parts and labor, plus three-year compressor warranty

Additional benefits

- Featuring a wide range of cabinet sizes from 12 cu. ft. to 72 cu. ft.
- Adaptive defrost
- Option of double-paned glass or solid door configurations
- Choice of white painted interior and exterior, or stainless steel interior and gray exterior
- LED interior lighting
- Low heat output
- Rear access port
- Keyed door lock(s)
- Remote alarm contacts



SPECIFICATIONS

Temperature Range	2°C to 10°C, preset to 5°C
Electrical	115 V, 60 Hz
Plug Type	NEMA 5-15



Capacity, L (cu. ft.)	Color	Door	Exterior Dimensions, H x W x D, in.	Cat. No.
764 (27)	White	Single Glass	81 x 30.75 x 32	76300-156
764 (27)	Gray	Single Glass	81 x 30.75 x 32	76300-158
1,274 (45)	White	Double Slide Glass	81 x 52.7 x 32	76300-160
1,274 (45)	Gray	Double Slide Glass	81 x 52.7 x 32	76300-162
1,387 (49)	White	Double Glass	81 x 52.7 x 32	76300-164
1,387 (49)	Gray	Double Glass	81 x 52.7 x 32	76300-166
2,038 (72)	White	Triple Glass	81 x 75.7 x 32	76300-168
2,038 (72)	Gray	Triple Glass	81 x 75.7 x 32	76300-170

VWR® SERIES FREEZERS

Available in six configurations to fit your specific needs, VWR Series Freezers provide the reliability and security essential for the protection of sensitive lab samples in the -30°C range.

- Freezer capacities of 24, 34, and 48 cu. ft.
- Intuitive digital controls
- Outstanding temperature stability
- Quality, robust construction
- Two-year warranty for parts and labor

Additional benefits

- Stainless steel interior finish
- Automatic defrost
- High/low temperature and door ajar visual/audio alarms



SPECIFICATIONS

Temperature Range	-12°C to -30°C, auto defrost
Finish	Stainless steel



Volume, L (cu. ft.)	No. of Shelves	Electrical	Plug Type	Exterior Dimensions, H x W x D, in.	Shipping Weight, kg (lbs.)	Cat. No.
680 (24)	3	115 V, 60 Hz	NEMA 5-15P	81.5 x 26.75 x 33.75	178 (392)	76314-030
962 (34)	3	115 V, 60 Hz	NEMA 5-15P	81.5 x 35.75 x 33.75	195 (429)	76314-032
1,360 (48)	6	209/230 V, 60 Hz	NEMA L14-20P	81.5 x 52.75 x 34.5	286 (630)	76314-034

VWR® SERIES COMBINATION UNIT

Independent refrigerator/freezer combination provides the reliability and security essential for the protection of sensitive lab samples in the 30°C range.

- Digital temperature controller for both chambers with intuitive interface
- High-quality steel exterior front and aluminum interior
- Two-year warranty for parts and labor

Additional features

- Refrigerator temperature range: +1° to +12°C (factory setpoint 4°C)
- Freezer temperature range: -20°C to 0°C (factory setpoint -20°C)
- Automatic defrost
- High/low temperature and door ajar audio/visual alarms



SPECIFICATIONS

Temperature Range	-12°C to -30°C, auto defrost
Electrical	115 V, 60 Hz



Volume, L (cu. ft.)	No. of Shelves	Plug Type	Exterior Dimensions, H x W x D, in.	Shipping Weight, kg (lbs.)	Cat. No.
566 (20)	4	NEMA 5-15P	82.25 x 26 x 35.5	190 (420)	76314-272

VWR® STANDARD SERIES

VWR Standard Series laboratory refrigerators, freezers, and combination units provide an economical solution for reliable sample storage. This range of models is particularly suited for routine laboratory applications.

- Adjustable temperature control
- Easy-to-clean, durable finish
- Manual and auto defrost combination units
- Manual defrost refrigerators and freezers
- Two-year warranty for parts and labor

Additional features:

- NRTL listed
- Non CFC refrigerants

SPECIFICATIONS

Plug Type	NEMA 5-15P
Electrical	115 V, 60 Hz



Volume, L (cu. ft.)	Temperature Range	No. of Shelves	Exterior Dimensions, H x W x D, in.	Shipping Weight, kg (lbs.)	Cat. No.
Refrigerator					
574.8 (20.3)	1°C to 12°C	4 Fixed, 6 on Door	73.13 x 34 x 32.13	128.0 (283)	76314-274
470.06 (16.6)	1°C to 12°C	4 Fixed, Bottom Of Unit, 5 on Door	67.7 x 34 x 28.5	86.2 (190)	76314-298
Freezer					
591.82 (20.9)	-12°C to -20°C	4 Fixed, 6 on Door	73.13 x 34 x 32.13	89.8 (198)	76314-276
Refrigerator/Freezer Combination					
286 (10.1)	1°C to 12°C/-12°C to -20°C	3 Adjustable, 1 Fixed, 1 Drawer, 4 on Door	59.75 x 23.63 x 24	68.0 (150)	76314-278
515.4 (18.0)	1°C to 12°C/-12°C to -20°C	Refrigerator: 2 Adjustable, 1 Fixed, 3 on Door and 2 Drawers; Freezer: 1 Fixed, 2 on Door	66.63 x 30 x 30.13	93.0 (205)	76314-280
656.95 (23.2)	1°C to 12°C/-12°C to -20°C	Refrigerator: 3 Fixed, 4 on Door Half and 2 Storage Bins; Freezer: 1 Shelf and 3 Wire Baskets	69.75 x 32.75 x 32.38	142.8 (315)	76314-282

VWR® HAZARDOUS SERIES

VWR® Hazardous Series flammable- and explosion-proof storage laboratory refrigerators, freezers, and combo units are designed to be used for the storage of volatiles, compounds, and solvents.

- Tough white exterior (except Cat. No. 76314-286)
- CFC- and HCFC-free refrigeration system and insulation
- Designed to meet NFPA 45 and 99 along with OSHA article 1910.307
- Two-year warranty on parts and labor

Flammable Material Storage (FMS) units are for storage of volatiles where a spark-free internal cabinet environment is required.

- Reduces the risk of internal explosion
- Designed to meet NFPA 45 and 99 along with OSHA article 1910.307

Explosion-proof units are intended for use in areas where ignitable materials are normally present.

- Spark-free interiors and exteriors reduce the risk of explosion
- Use in class I, groups C & D & class I, zone 1, group IIB
- Plug-free cords (units must be hardwired to wall)



SPECIFICATIONS

Electrical	115 V, 60 Hz
Defrost	Manual

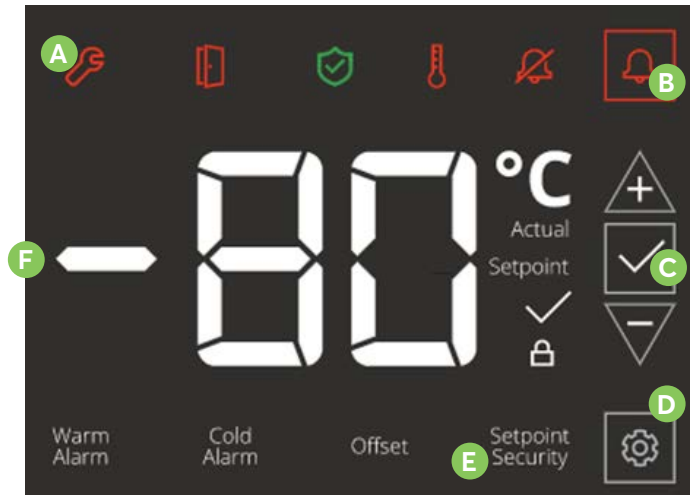


Description	Volume, L (cu. ft.)	Temperature Range	No. of Shelves	Exterior Dimensions, H x W x D, in.	Shipping Weight, kg (lbs.)	Cat. No.
Flammable Material Storage (FMS)						
Refrigerator	591.82 (20.9)	1°C to 12°C	4 Fixed, 6 on Door	73.13 x 34 x 35.81	89.8 (198)	76314-284
Refrigerator	1415.8 (50)	1°C to 12°C	8 Adjustable	77.25 x 52 x 34.25	190.5 (420)	76314-286
Freezer	591.82 (20.9)	-12°C to -20°C	4 Fixed, 6 on Door	73.13 x 34 x 35.81	89.8 (198)	76314-288
Refrigerator/Freezer Combination	286 (10.1)	1°C to 12°C/-12°C to -20°C	3 Adjustable, 1 Fixed, 1 Drawer, 4 on Door	59.75 x 23.63 x 28.6	68.0 (150)	76314-290
Explosion-Proof						
Refrigerator	591.82 (20.9)	1°C to 12°C	4 Fixed, 6 on Door	77.5 x 34 x 34.96	89.8 (198)	76314-292
Freezer	591.82 (20.9)	-12°C to -20°C	4 Fixed, 6 on Door	77.5 x 34 x 34.96	89.8 (198)	76314-294
Refrigerator/Freezer Combination	286 (10.1)	1°C to 12°C/-12°C to -20°C	3 Adjustable, 1 Fixed, 1 Drawer, 4 on Door	59.75 x 23.63 x 28.6	68.0 (150)	76314-296

VWR® -86°C AND -40°C ULTRA-LOW TEMPERATURE FREEZERS

Both general-purpose and FDA Class II units feature a user interface and an ergonomic design.

- Plug in and go, no setup required
- 5.6" with bold temperature display and capacitive touch button
- Alarm settings, setpoint security passcode, and padlock-compatible doors
- Single-hand door operation, quick maintenance with easy access filter/grill assembly
- Four inner doors to reduce heat impact on samples during normal use
- Eye-level information center for simplified operation
- Health Shield Indicator gives a quick visual indication of freezer status
- Optional factory-installed CO₂ or LN₂ backup system provide additional sample protection in the event of a power or mechanical failure



- A Audible and visual alarms (system, door, temperature alarm icons)
- B Alarm snooze button to silence audible alarms
- C Capacitive touchscreen buttons to easily adjust and save freezer settings
- D Settings menu button to access alarm and system settings (warm alarm, cold alarm, offset, setpoint security, and backup system, if installed)
- E Setpoint security allows you to set a 3-digit numeric code required for any setting changes
- F Bold, easy-to-read temperature display shows real-time cabinet temperature



- 1 High density water-blown polyurethane foam with vacuum insulation panel (VIP)
- 2 1" access port (top) for use of independent probes
- 3 Heavy gauge, cold-rolled steel cabinet construction with a powder coat paint finish, resisting chipping and rust
- 4 Heated vacuum relief port permits quick re-entry after door openings
- 5 Single-hand operation with ergonomic, padlock compatible door handle featuring an integrated key lock
- 6 Four insulated inner doors reduce cold air loss and improve temperature recovery after door
- 7 Easy-to-remove washable filter provides protection against dust on the condenser, increasing refrigeration performance
- 8 2" locking casters for easy to roll installation
- 9 1" access port (top) for use of independent probes
- 10 Sturdy, stainless steel shelving
- 11 Painted galvalume interiors
- 12 Heated gaskets help to eliminate frost build-up while providing tight cabinet temperatures



Factory installed options:

- CO₂ back-up system
- LN₂ back-up system
- Chart recorder (ink or inkless)

VWR® -86 °C ULTRA-LOW TEMPERATURE FREEZERS WITH NATURAL REFRIGERANTS

Dependable -80 °C storage, powered by an efficient hydrocarbon refrigeration system for operational savings and sustainability. Designed to keep your samples safe, limit environmental impact, and lower HVAC costs.

- Low energy usage
- Low peak temperature variation
- Fast door-opening recovery
- Long warm-up time
- User friendly and quiet



SPECIFICATIONS

Temperature	-86 °C
Environmental Certification	SNAP Compliant, UL/cUL listed



VWR® -86 °C ULTRA-LOW TEMPERATURE FREEZERS

Capacity, 2" Cryobox	Volume, L (cu. ft.)	Exterior Dimensions, W x D x H, in.	Interior Dimensions, W x D x H, in.	Amps/Breaker	Shipping Weight, lbs.	General Purpose Cat. No.	FDA Class II Cat. No.
Electrical 115V, 60Hz, Plug Type NEMA 5-20							
300-Box	422 (14.9)	27 x 38.4 x 78	17.8 x 28.3 x 51.2	12.6/20	712	76307-942	76307-960
400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	13/20	687	76307-948	76307-966
500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	12.5/20	734	76307-936	76307-972
600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	12.7/20	820	76307-954	76307-978
Electrical 208V, 60Hz, Plug Type NEMA 6-15							
300-Box	422 (14.9)	27 x 38.4 x 78	17.8 x 28.3 x 51.2	5.6/15	712	76307-944	76307-962
400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	5.9/15	687	76307-950	76307-968
500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	5.0/15	734	76307-938	76307-974
600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	6.2/15	820	76307-956	76307-980
Electrical 230V, 50Hz Export Only, European Plug							
300-Box	422 (14.9)	27 x 38.4 x 78	17.8 x 28.3 x 51.2	5.9/10	712	76307-946	76307-964
400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	5.3/10	687	76307-952	76307-970
500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	5.9/10	734	76307-940	76307-976
600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	6.1/10	820	76307-958	76307-982

VWR® -86 °C ULTRA-LOW TEMPERATURE FREEZER PACKAGES

Package Description	Capacity, 2" Cryobox	Volume, L (cu. ft.)	Exterior Dimensions, W x D x H, in.	Interior Dimensions, W x D x H, in.	Amps/Breaker	Shipping Weight, lbs.	Cat. No.
Electrical 115V, 60Hz, Plug Type NEMA 5-20							
76307-942 with Rack Package	300-Box	422 (14.9)	27 x 38.4 x 78	17.8 x 28.3 x 51.2	12.6/20	125	76318-808
76307-948 with Rack Package	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	13.0/20	165	76318-742
76307-948 with Rack Package and LN ₂ Backup	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	13.0/20	165	76318-744
76307-948 with Rack Package and CO ₂ Backup	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	13.0/20	165	76318-746
76307-936 with Rack Package	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	12.5/20	205	76318-812
76307-936 with Rack Package and LN ₂ Backup	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	12.5/20	205	76318-814
76307-936 with Rack Package and CO ₂ Backup	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	12.5/20	205	76318-816
76307-936 with Rack Package and Chart Recorder	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	12.5/20	205	76318-818
76307-954 with Rack Package	600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	12.7/20	245	76318-768
76307-954 with Rack Package and LN ₂ Backup	600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	12.7/20	245	76318-770
76307-954 with Rack Package and CO ₂ Backup	600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	12.7/20	245	76318-772
76307-954 with Rack Package and Chart Recorder	600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	12.7/20	245	76318-774
Electrical 208V, 60Hz, Plug Type NEMA 6-15							
76307-944 with Rack Package	300-Box	422 (14.9)	27 x 38.4 x 78	17.8 x 28.3 x 51.2	5.6/15	125	76318-810
76307-950 with Rack Package	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	5.9/15	165	76318-748
76307-950 with Rack Package and LN ₂ Backup	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	5.9/15	165	76318-750
76307-950 with Rack Package and CO ₂ Backup	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	5.9/15	165	76318-752
76307-938 with Rack Package	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	5.0/15	205	76318-820
76307-938 with Rack Package and LN ₂ Backup	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	5.0/15	205	76318-822
76307-938 with Rack Package and CO ₂ Backup	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	5.0/15	205	76318-764
76307-938 with Rack Package and Chart Recorder	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	5.0/15	205	76318-766
76307-956 with Rack Package	600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	6.2/15	245	76318-776
76307-956 with Rack Package and LN ₂ Backup	600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	6.2/15	245	76318-778
76307-956 with Rack Package and CO ₂ Backup	600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	6.2/15	245	76318-780
76307-956 with Rack Package and Chart Recorder	600-Box	816 (28.8)	43.5 x 38.4 x 78	34.4 x 28.3 x 51.2	6.2/15	245	76318-782

Rack Package Includes: 2 shelves of sliding drawer racks with 2" boxes.

VWR® -40°C ULTRA-LOW TEMPERATURE FREEZERS WITH NATURAL REFRIGERANTS

Dependable -40°C storage, powered by an efficient hydrocarbon refrigeration system for operational savings and sustainability. Designed to keep your samples safe, limit environmental impact, and lower HVAC costs.

- Low energy usage
- Low peak temperature variation
- Fast door-opening recovery
- Long warm-up time
- User friendly and quiet



SPECIFICATIONS

Temperature	-40°C
Environmental Certification	SNAP Compliant, UL/cUL listed

VWR® -40°C ULTRA-LOW TEMPERATURE FREEZERS

Capacity, 2" Cryobox	Volume, L (cu. ft.)	Exterior Dimensions, W x D x H, in.	Interior Dimensions, W x D x H, in.	Amps/Breaker	Shipping Weight, lbs.	General Purpose Cat. No.	FDA Class II Cat. No.
Electrical 115V, 60Hz, Plug Type NEMA 5-20							
400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	7.2/20	642	76307-984	76307-996
500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	7.5/20	668	76307-990	76308-002
Electrical 208V, 60Hz, Plug Type NEMA 6-15							
400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	3.4/15	642	76307-986	76307-998
500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	4.0/15	668	76307-992	76308-004
Electrical 230V, 50Hz Export Only, European Plug							
400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	3.2/10	642	76307-988	76308-000
500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	3.4/10	668	76307-994	76308-006

VWR® -40°C ULTRA-LOW TEMPERATURE FREEZER PACKAGES

Package Description	Capacity, 2" Cryobox	Volume, L (cu. ft.)	Exterior Dimensions, W x D x H, in.	Interior Dimensions, W x D x H, in.	Amps/Breaker	Shipping Weight, lbs.	Cat. No.
Electrical 115V, 60Hz, Plug Type NEMA 5-20							
76307-984 with Rack Package	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	7.2/20	165	76358-588
76307-984 with Rack Package and LN2 Backup	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	7.2/20	165	76358-590
76307-984 with Rack Package and CO ₂ Backup	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	7.2/20	165	76358-592
76307-990 with Rack Package	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	7.5/20	205	76358-600
76307-990 with Rack Package and LN2 Backup	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	7.5/20	205	76358-602
76307-990 with Rack Package and CO ₂ Backup	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	7.5/20	205	76358-604
76307-990 with Rack Package and Chart Recorder	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	7.5/20	205	76358-606
Electrical 208V, 60Hz, Plug Type NEMA 6-15							
76307-986 with Rack Package	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	3.4/15	165	76358-594
76307-986 with Rack Package and LN2 Backup	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	3.4/15	165	76358-596
76307-986 with Rack Package and CO ₂ Backup	400-Box	549 (19.4)	32.3 x 38.4 x 78	23.1 x 28.3 x 51.2	3.4/15	165	76358-598
76307-992 with Rack Package	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	4.0/15	205	76358-608
76307-992 with Rack Package and LN2 Backup	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	4.0/15	205	76358-610
76307-992 with Rack Package and CO ₂ Backup	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	4.0/15	205	76358-612
76307-992 with Rack Package and Chart Recorder	500-Box	682 (24.1)	37.9 x 38.4 x 78	28.8 x 28.3 x 51.2	4.0/15	205	76358-614

**PRODUCT OPTIONS AND ACCESSORIES FOR
VWR® -86°C AND -40°C ULTRA-LOW TEMPERATURE FREEZERS**

Options listed as “Field Installed” must be installed by a qualified professional.



Description		Capacity, L (cu. ft.)			
		422 (14.9)	549 (19.4)	682 (24.1)	816 (28.8)
	Factory Installed	N/A	89200-252	89200-252	89200-252
LN ₂ Backup System maintains temperature down to -80°C with liquid nitrogen (300 box models are stand-alone)		89200-212*			
		89200-214*			
		89200-216*			
	Field Installed	89200-218*	76019-742	76019-742	76019-742
	Factory Installed	N/A	89200-254	89200-254	89200-254
CO ₂ Backup System maintains temperature down to -67°C with CO ₂ (300 box models are stand-alone)		89200-222*			
		89200-224*			
		89200-226*			
	Field Installed	89200-228*	76019-740	76019-740	76019-740
Chart Recorder (Inkless) 15.2 cm (6"), seven-day inkless recorder, -115 to +50°C, +5°C resolution	Factory Installed	N/A	N/A	89200-256	89200-256
	Field Installed	N/A	N/A	76019-568	76019-570
Chart Recorder (Ink) 15.2 cm (6"), seven-day ink recorder, -100 to +38°C, +2°C resolution (300 and 400 box models are stand-alone)	Factory Installed	N/A	N/A	89210-952	89210-952
	Field Installed	14228-376*	14228-376*	76019-582	76019-584
Twist Lock Plug NEMA L5-20P for 115V/60Hz	Factory Installed	75812-856	75812-856	75812-856	75812-856
	Field Installed	75812-864	75812-864	75812-864	75812-864
	Factory Installed	75812-858	75812-858	75812-858	75812-858
Twist Lock Plug NEMA L6-15P for 208-230V/60Hz	Field Installed	75812-866	75812-866	75812-866	75812-866
	Factory Installed	75812-862	75812-862	75812-862	75812-862
Twist Lock Plug NEMA L6-20P for 208-230V/60Hz	Field Installed	75812-860	75812-860	75812-860	75812-860
	Factory Installed	75812-860	75812-860	75812-860	75812-860

* A = 115V/60Hz (NEMA 5-20 plug), D = 208-230V/60Hz (NEMA 6-15 plug), V = 230V/50Hz (EU plug), W = 230V/50Hz (British plug)

Accessories	422 L (14.9cu. ft.)	549 L (19.4 cu. ft)	682 L (24.1 cu. ft.)	816 L (28.8 cu. ft)
Shelf Kit, includes one shelf and shelf support clips	89200-236	89200-238	89200-240	89200-242
Chart Paper Ink, Pack of 50	89200-322	89200-322	89200-322	89200-322
Chart Paper Inkless, Pack of 50	N/A	N/A	89200-272	89200-272
Replacement Air Filter	76019-736	76019-736	76019-736	76019-736
Replacement Back-Up Battery	89202-604	89202-604	89202-604	89202-604
Alarm Delay Module eliminates nuisance alarms due to intermittent or transitory conditions. Adjustable delay requires alarm condition to exist for user defined period before signal is released to monitoring system.	14228-512	14228-512	14228-512	14228-512

**AVAILABLE RACK SELECTIONS FOR
VWR® -86°C AND -40°C ULTRA-LOW TEMPERATURE FREEZERS**

Description	Dimensions, H x W x D, cm (in.)	Storage	422 L (14.9cu. ft.)	549 L (19.4 cu. ft)	682 L (24.1 cu. ft.)	816 L (28.8 cu. ft)	Cat. No.
Racks for 2" (5.08 cm) Boxes							
Sliding Drawer Rack	30.2 x 14 x 68.3 (11.9 x 5.5 x 26.9)	Boxes Per Rack	25	25	25	25	97018-458
		Racks Per Shelf	3	4	5	6	
		Racks Per Freezer	12	16	20	24	
		Boxes Per Freezer	300	400	500	600	
		Boxes Per Rack	25	25	25	25	
Adjustable Side Access Rack	29.5 x 13.7 x 67.9 (11.6 x 5.4 x 26.75)	Racks Per Shelf	3	4	5	6	89200-200
		Racks Per Freezer	12	16	20	24	
		Boxes Per Freezer	300	400	500	600	
		Boxes Per Rack	15	15	15	15	
		Racks Per Shelf	3	4	5	6	
Sliding Drawer Rack	30.2 x 14 x 68.3 (11.9 x 5.5 x 26.9)	Racks Per Freezer	12	16	20	24	97018-462
		Boxes Per Freezer	180	240	300	360	
		Boxes Per Rack	15	15	15	15	
Racks for Microplates							
Side Access Rack with Locking Rod for Standard or Deepwell	30.2 x 14 x 65.3 (11.9 x 5.5 x 25.7)	Boxes Per Rack	147	147	147	147	89200-162
		Racks Per Shelf	3	4	5	6	
		Racks Per Freezer	12	16	20	24	
		Boxes Per Freezer	1764	2352	2940	3528	

Intended Use Statements:

GENERAL PURPOSE -86°C MODELS:

The general purpose -86°C freezers described here are high performance units for professional use. These products are intended for use as cold storage in research use and as a general purpose laboratory freezer, storing samples or inventory at operating temperatures between -50°C and -80°C. It is not considered a medical device and has therefore not been registered with a medical device regulatory body (e.g., FDA); that is, it has not been evaluated for the storage of samples for diagnostic use or for samples to be re-introduced to the body. This unit is not intended for use in classified hazardous locations, nor to be used for the storage of flammable inventory.

FDA CLASS II -86°C MODELS:

The -86°C freezers described here are intended for the storage of Frozen Red Blood Cells in 40% glycerol at -65°C for up to 10 years; Frozen Rejuvenated Red Blood Cells at -65°C for up to 10 years; Fresh Frozen Plasma at -65°C for up to 10 years; and Frozen or Cryopreserved Tissue for long term storage; Musculoskeletal Tissue at -40°C or colder; Skin at -40°C or colder; and Bone at -40°C or colder.

These products should only be used by an authorized and adequately trained personnel. It is considered a medical device and has therefore been listed with medical device regulatory body FDA and is considered a Class II medical device by the FDA. This product is listed under product code KSE, regulation number 864.9700 and is considered 510(K) exempt. This unit is not intended for use in classified hazardous locations, nor to be used for the storage of flammable inventory.

Reference: AABB - Technical Manual 17th Ed., page 273,274.
STANDARDS FOR TISSUE BANKING 14th Ed., Section E, E3.300, E3.310, Table E3.331.

Note for clarity:

The 'Bone' is the Osteoarticular Graft, a weight bearing allograft with intact articular surfaces, consisting of a joint with associated soft tissue and bone. STANDARDS FOR TISSUE BANKING 14th Ed., Section page 8

GENERAL PURPOSE -40°C MODELS:

The general laboratory freezers described here are high performance units for professional use. These products are intended for use as cold storage in research use and as a general purpose laboratory freezer, storing samples or inventory at operating temperatures between -10°C and -40°C. It is not considered a medical device and has therefore not been registered with a medical device regulatory body (e.g., FDA); that is, it has not been evaluated for the storage of samples for diagnostic use or for samples to be re-introduced to the body. This unit is not intended for use in classified hazardous locations, nor to be used for the storage of flammable inventory.

FDA CLASS II -40°C MODELS:

The -40°C freezers described here are intended for the storage of Fresh Frozen Plasma at -18°C or colder for up to twelve months.

These products should only be used by an authorized and adequately trained personnel. It is considered a medical device and has therefore been listed with medical device regulatory body FDA and is considered a Class II medical device by the FDA. This product is listed under product code KSE, regulation number 864.9700 and is considered 510(K) exempt. This unit is not intended for use in classified hazardous locations, nor to be used for the storage of flammable inventory.

Reference: AABB – Technical Manual 19th Ed., Chapter 9, page 274.



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