

# Ultralow temperature freezers



**UFV** series



# Ultralow temperature freezers

Series UF V

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**Options and Accessories** 

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The spotlight is on environmentally-friendly design in the new BINDER ultra low temperature freezer. This applies particularly to the best energy efficiency in its class and the lack of refrigerants that are harmful to the climate. A multi-layered safety concept allows users to mix and match elements to suit any environment. With practical unit sizes appropriate, sophisticated options and practical accessories, users have everything they need for reliable long-term storage of highly sensitive samples.

# PRODUCT SELECTION ULTRALOW TEMPERATURE FREEZERS

Features	Series UF V > Page 6
Model	
Model 500	•
Model 700	•
General data	
Temperature range [°C]	-8640
Cooling technology	Cascades compressor cooling unit
Refrigerant	R-290 / R-170

•Standard equipment

# ADVANTAGES AT A GLANCE



**EXEMPLARY ENVIRONMENTAL FRIENDLINESS** 

#### Series UF V

Demonstrated by state-of-the-art cooling technology that uses climate-neutral refrigerants, plus minimum energy consumption thanks to large vacuum-based thermal insulation.



## CONVENIENT DOOR OPERATION

#### Series UF V

The door can be opened manually using an ergonomic door latch handle or at the touch of a button using an electromechanical door locking mechanism. Electronic access control is available via the NumPad option.



#### MINIMUM BUILDUP OF ICE

#### Series UF V

The innovative door gasket concept reduces the tendency for ice to build up on the door frame and, at the same time, makes it easier to remove ice.



DURABLE QUALITY

Series UF V

The inner chamber, shelves, and inner doors are made entirely from stainless steel.

# Series UF V | with climate-neutral refrigerants

The BINDER ultra low temperature freezer ensures the safe storage of samples at -80 °C. It combines outstanding environmental friendliness with low energy consumption, convenient operation and an individual safety concept.



UVF 500 model

#### MAIN FEATURES

- Range of temperature controller: -86 °C to -40 °C
- Lowest energy consumption in its class
- Powerful cascade compressor cooling unit
- Environmentally friendly refrigerants R-290 and R-170
- Efficient thermal insulation with vacuum insulation panels

## AVAILABLE SIZES

Model	Interior volu- me [cu. ft.]	Online data sheets
UF V 500	16.8	› go2binder.com/us-UFV500
UF V 700	24.7	› go2binder.com/us-UFV700

- Innovative door gasket concept reduces buildup of ice
- Ergonomic door handle
- Rust-proof interior made completely of stainless steel
- Detachable inner doors made of stainless steel
- 3 stainless-steel shelves providing flexible placement

i TIPS & TRICKS	
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Tips & Tricks: Case Studies:	>go2binder.com/us-tips-tricks >go2binder.com/us-case-studies



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# **TECHNICAL DATA**

Description	UF V 500	UF V 700
Outer dimensions		
Width net [in]	32.54	43.7
Height net [in]	77.5	77.5
Depth net [in]	36.96	36.96
Internal Dimensions		
Width [in]	23.88	35.07
Height [in]	51.2	51.2
Depth [in]	23.84	23.84
Measures		
Interior volume [cu.ft.]	16.8	24.7
Net weight of the unit (empty) [lbs]	545	635
permitted load [lbs]	441	441
Performance Data Temperature		
Temperature range [°C]	-8640	-8640
Temperature variation at -80 °C [± K]	2.5	2.5
Temperature fluctuation at -80 °C [± K]	1.5	1.5
Warm-up time during power failure from -80 °C / -122 °F to -60 °C / -76 °F [min]	230	250
Electrical data		
Nominal power (version 120 V) [kW]	1.6	1.6
Nominal power (version 230 V) [kW]	1.6	1.6
Nominal power (version 240 V) [kW]	1.6	1.6
Environment-specific data		
Energy consumption at set-point -80 °C and ambient temperature = 21 °C [kWh/d]	7.9	8.1
Fixtures		
Number of shelves (std./max.)	3/13	3/13

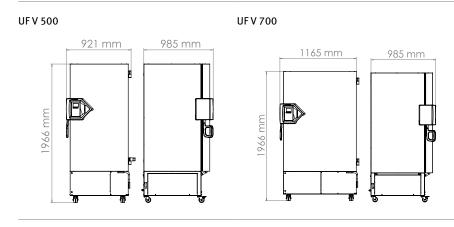
# ORDERING INFORMATION [Art. No.]

Further details: Go to www.binder-world.com > Search > Enter Article Number

Voltage	Option model	UF V 500	UF V 700
240 V 1~ 60 Hz	Standard	9020-0353	9020-0354
230 V 1~ 50 Hz	Standard	9020-0347	9020-0348
	Water cooling	9020-0349	9020-0350
120 V 1~ 60 Hz	Standard	9020-0351	9020-0352

▶ You will find a selction of options, accessories and services suitable for each product on page 9

# DIMENSIONS INCL. FITTINGS AND CONNECTIONS [MM]



# **EXCERPT FROM OPTIONS AND ACCESSORIES**

Foam-filled compartment doors with gasket	Ideal for applications where doors are opened frequently. Series UF V
Door access system	Consisting of electromechanical door locking mechanism and electronic access control via Num- Pad. Series UFV
Alarm system	Battery-backed system for maintaining temperature display, visual and audible alarm messages, and data communication. Series UFV
Chamber racks	Large selection of racks made of aluminum or stainless steel, as well as cryoboxes. Series UF V
Services	You can access our installation, maintenance, calibration, validation, or warranty services by taking out a Maintenance Service Agreement or by simply getting in touch when you need us. More infor- mation is available in the accessories and services chapter. Series UF V
BINDER INDIVIDUAL	Using a BINDER series production product as a basis, we develop individual solutions as a single unit or in small batches. All products are tested, certified, and supplied with a full functional guarantee and warranty. More information is available in the accessories and services chapter. Series UF V
► All extras online go2binder.com/us-optio	ns









Foam-filled compartment doors with gasket

Door access system

Alarm system

Selection of racks and boxes

# **BINDER** products

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Incubators		
Refrigerated	incubators	
Growth chambers		
Ultralow tem	perature freezers	
Drying and h	eating chambers	
Safety drying chambers		
Vacuum dryir	ng chambers	
Humidity test	t chambers	
Dynamic clim	ate chambers	
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Best conditions for your success

**BINDER GmbH** Tuttlingen, Germany

Tel +49 7462 2005 0 Fax +49 7462 2005 100 info@binder-world.com www.binder-world.com

BINDER Asia Pacific (Hong Kong) Ltd. Kowloon, Hong Kong, P.R. China

Tel +852 39070500 Fax +852 39070507 asia@binder-world.com www.binder-world.com

**BINDER Environmental Testing** Equipment (Shanghai) Co., Ltd. Shanghai, P.R.China

Tel +86 21 685 808 25 Fax +86 21 685 808 29 china@binder-world.com www.binder-world.com

**Representative Office for CIS** Moscow, Russia

Tel +7 495 988 15 16 Fax +7 495 988 15 17 russia@binder-world.com www.binder-world.ru

**BINDER Inc.** Bohemia, NY, USA

Tel +1 631 224 4340 Fax +1 631 224 4354 usa@binder-world.com www.binder-world.us