Model UF V 700 | Ultralow temperature freezers with VIP insulation and electromechanical door lock

BENEFITS

- · Unique "Press n' open" door mechanism for easy opening and closing at the push of a button
- · Innovative RFID technology for personalized access with integrated log file storage
- · DATA.SECURE alarm system and temperature logging with USB port
- · 5-year warranty





MAIN FEATURES

- Temperature range: -40 °C to -86 °C
- · Cooling with cascade compressor cooling unit
- CFC-free safety refrigerants R-404A and R-508B
- Door hinged right or left
- · RFID controlled Access (depending on version)
- Data Logger USB (depending on version)
- Water cooling (depending on version)
- · Electromechanical door latch
- 4 compartment doors made of ABS plastic

- · Inner chamber made of stainless steel
- Thermal insulation using vacuum insulating panels and PUR foam
- · Battery-backed alarm system
- Computer interface: RS 422
- Analog output, 4 20 mA
- · Zero-voltage alarm contact
- · Elapsed time indicator
- 3 stainless steel shelves

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
Model UF V 700				
		Door hinged right, RFID system	UFV700-230V-R	9020-0233
	230 V 1~ 50 Hz	Door hinged left, RFID system	UFV700-230V-L	9020-0237
711	230 V 1~ 30 HZ	Door hinged right, Water cooling, RFID system	UFV700-230V-RW	9020-0261
		Door hinged left, Water cooling, RFID system	UFV700-230V-LW	9020-0262
	120 V 1~ 60 Hz	Door hinged right, data logger USB	UFV700UL-120V-R	9020-0239
	120 V 1~ 60 H2	Door hinged left, data logger USB	UFV700UL-120V-L	9020-0218
	000 040 \/ 4 00 -	Door hinged right, data logger USB	UFV700UL-240V-R	9020-0238
	208240 V 1~ 60 Hz	Door hinged left, data logger USB	UFV700UL-240V-L	9020-0216

TECHNICAL DATA (Version 1-4 from 8)

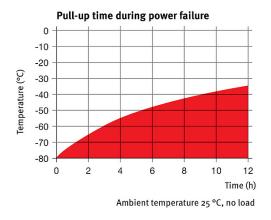
Description	UFV700-230V-R	UFV700-230V-L	UFV700-230V-RW	UFV700-230V-LW
Article Number	9020-0233	9020-0237	9020-0261	9020-0262
Performance Data Temperature				
Temperature range [°C]	-8640	-8640	-8640	-8640
Temperature variation at -80 °C [± K]	2.5	2.5	2.5	2.5
Warm-up time during power failure from -80 °C / -122 °F to -60 °C / -76 °F [min]	150	150	150	150
Electrical data				
Rated Voltage [V]	230	230	230	230
Power frequency [Hz]	50	50	50	50
Nominal power [kW]	1.1	1.1	1.1	1.1
Unit fuse [A]	10	10	10	10
Phase (Nominal voltage)	1~	1~	1~	1~
Measures - Outer dimensions				
Width net [mm]	1120	1120	1120	1120
Height net [mm]	1985	1985	1985	1985
Depth net [mm]	885	885	885	885
Wall clearance back [mm]	100	100	100	100
Wall clearance sidewise [mm]	175	175	175	175
Measures - Doors				
Unit doors	1	1	1	1
Measures - Internal Dimensions				
Width [mm]	911	911	911	911
Height [mm]	1300	1300	1300	1300
Depth [mm]	600	600	600	600
Measures				
Interior volume [L]	711	711	711	711
Net weight of the unit (empty) [kg]	360	360	360	360
permitted load [kg]	200	200	200	200
Permitted load of individual compartment [kg]	65	65	65	65
Load per rack [kg]	50	50	50	50
Environment-specific data				
Energy consumption at set-point -80 °C and ambient temperature = 25 °C (+/- 10 %)	13,9 kWh/d	13,9 kWh/d	13,9 kWh/d	13,9 kWh/d
Sound-pressure level [dB(A)]	49	49	49	49
Fixtures				
Number of shelves (standard/maximum)	3/7	3/7	3/7	3/7

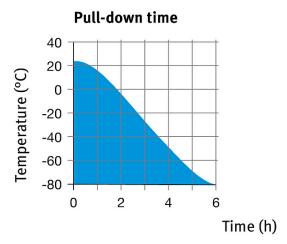
TECHNICAL DATA (Version 5-8 from 8)

Description	UFV700UL-120V-R	UFV700UL-120V-L	UFV700UL-240V-R	UFV700UL-240V-L
Article Number	9020-0239	9020-0218	9020-0238	9020-0216
Performance Data Temperature				
Temperature range [°C]	-8640	-8640	-8640	-8640
Temperature variation at -80 °C [± K]	2.5	2.5	2.5	2.5
Warm-up time during power failure from -80 °C / -122 °F to -60 °C / -76 °F [min]	150	150	150	150

Description	UFV700UL-120V-R	UFV700UL-120V-L	UFV700UL-240V-R	UFV700UL-240V-L
Article Number	9020-0239	9020-0218	9020-0238	9020-0216
Electrical data				
Rated Voltage [V]	120	120	208240	208240
Power frequency [Hz]	60	60	60	60
Nominal power [kW]	1.1	1.1	1.1	1.1
Unit fuse [A]	16	16	10	10
Phase (Nominal voltage)	1~	1~	1~	1~
Measures - Outer dimensions				
Width net [mm]	1120	1120	1120	1120
Height net [mm]	1985	1985	1985	1985
Depth net [mm]	885	885	885	885
Wall clearance back [mm]	100	100	100	100
Wall clearance sidewise [mm]	175	175	175	175
Measures - Doors				
Unit doors	1	1	1	1
Measures - Internal Dimensions				
Width [mm]	911	911	911	911
Height [mm]	1300	1300	1300	1300
Depth [mm]	600	600	600	600
Measures				
Interior volume [L]	711	711	711	711
Net weight of the unit (empty) [kg]	360	360	360	360
permitted load [kg]	200	200	200	200
Permitted load of individual compartment [kg]	65	65	65	65
Load per rack [kg]	50	50	50	50
Environment-specific data				
Energy consumption at set-point 80 °C and ambient temperature = 25 °C (+/- 10 %)	12,5 kWh/d	12,5 kWh/d	14,9 kWh/d	14,9 kWh/d
Sound-pressure level [dB(A)]	49	49	49	49
Fixtures				
Number of shelves (standard/ maximum)	3/7	3/7	3/7	3/7

CHARTS





Ambient temperature 25 °C, no load

OPTIONS AND ACCESSORIES

Designation	Description	*	ArtNo.
Access port with silicone plug	30 mm, back	01	8012-0756
Access port with silicone plug, accessories	Sealing kit for 10 mm access port, back	-	8009-0815
Alarm function for cell phone	Remote notification of alarm unit via mobile network by SMS	-	8012-0775
Buck-boost converter	automatic voltage compensation	-	8012-0762
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	-	8012-0022
Calibration certificate,	for measurement in center of chamber at specified temperature	-	8012-0031
temperature	temperature measurement incl. certificate, 20 measuring points at specified temperature	-	8012-0925
Chamber rack with drawer, stainless steel	for 5x4 standard boxes (50 mm) incl. boxes, dimensions: H 285 x W 140 x D 560 mm	-	6017-0046
	for 5x4 standard boxes (50 mm), dimensions: H 285 x W 140 x D 560 mm	-	6017-0045
	for 6x4 standard boxes (50 mm) incl. boxes, dimensions: H 340 x W 140 x D 560 mm	-	6017-0052
	for 6x4 standard boxes (50 mm), dimensions: H 340 x W 140 x D 560 mm	-	6017-0051
	for 5x4 standard boxes (50 mm) incl. boxes, dimensions: H 276 x W 139 x D 558 mm	-	6017-0042
Chamber rack,	for 5x4 standard boxes (50 mm), dimensions: H 276 x W 139 x D 558 mm	-	6017-0041
aluminum	for 6x4 standard boxes (50 mm) incl. boxes, dimensions: H 331 x W 139 x D 558 mm	-	6017-0048
	for 6x4 standard boxes (50 mm), dimensions: H 331 x W 139 x D 558 mm	-	6017-0047
	for 5x4 standard boxes (50 mm) incl. boxes, dimensions: H 276 x W 139 x D 558 mm	-	6017-0044
Chamber rack, stainless	for 5x4 standard boxes (50 mm), dimensions: H 276 x W 139 x D 558 mm	-	6017-0043
steel	for 6x4 standard boxes (50 mm) incl. boxes, dimensions: H 331 x W 139 x D 558 mm	-	6017-0050
	for 6x4 standard boxes (50 mm), dimensions: H 331 x W 139 x D 558 mm	-	6017-0049
Circular chart recorder	integrated in base plate	-	8012-0712
Circular chart recorder, accessories	replacement set including paper and replacement pen	-	8012-0811
Cleaning kit	for equipment maintenance and disinfection, consisting of pH-neutral detergent (1000 g, concentrate), spray disinfectant (500 ml, ready-to-use solution), lint-free cleansing tissues, protective gloves, and protective glasses	-	8012-0837
OO beeless !	factory installed (allow for increased depth of UF V 700: 1033 mm)	-	8012-0845
CO ₂ backup cooling	upgrade kit, for on-site installation by our service technician	-	8012-0846
Cryoboxes	set consisting of 36 cardboard boxes with sample dividers		6017-0053

^{*} Notes > See last page

Designation	Description	*	ArtNo.
D 1 1 110D	for preparing tamper-proof PDF temperature logs		
Data Logger USB	230 V option model	-	8012-0590
Deicing kit	consisting of de-icing tray, wiper and scraper	-	8012-0747
Danalasi.	lockable door handle		
Door lock	120 V, 208240 V option model	-	8012-0744
Ethernet interface	in place of RS 422, for communication software	-	8012-0711
Gloves	for low temperatures, covers forearms	-	1007-0141
	RS 422 cable set and RS 232 / RS 422 interface converter for connection to 10-way plug distributor or for connection to a unit		
	120 V, 60 Hz option model	-	8012-0557
	230 V, 50/60 Hz option model	-	8012-0556
Interface converter	RS 422 cable set and RS 422 / Ethernet interface converter for connection to 10-way plug distributor or for connection to a unit		
	120 V, 60 Hz option model	-	8012-0405
	230 V, 50/60 Hz option model	-	8012-0380
Interface converter, USB / RS422	RS 422 cable set and RS 422 / USB interface converter for connection to 10-way plug distributor or for connection to a unit (USB-powered converter)	-	8012-0665
Magnetic Pouch (A4)	insert pouch with magnetic strip		1007-0098
			1007-0065
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-0016
Pt 100 temperature sensor	additional flexible Pt 100, interior, with external connection incl. LEMO connector (3-pin)	-	8012-0757
Rack, reinforced	for temperature range -40 °C to -60 °C, set of 3	-	8012-0707
RFID reader	for reading saved user logs wirelessly	-	8012-0789
DEID avatom	personalized access control using RFID technology		
RFID system	120 V, 208240 V option model	-	8012-0776
RFID user card	Additional user card	-	8009-0738
RS 422 interface	modular plug distributor for 10 RS 422 interfaces	-	8012-0295
RS 422 interface, cable (15 m)	RS 422 connection cable (15 m) between plug distributor and RS 422 interface	-	5023-0036
RS 422 interface, cable (50 m)	RS 422 extension cable (50 m) between interface converter and unit or RS 232 / RS 422 plug distributor	-	5023-0117
Shelf	stainless steel	-	8012-0799
	APT-COM™ communications software		
	version 2 to 3, GLP edition	19	9053-0016
	version 3, BASIC edition	19	9053-0014
Software	version 3, GLP edition	19	9053-001
	version 3, STANDARD edition	19	9053-001
	APT-COM™ communications software, price: for free		
	version 3, GLP DEMO Edition	19	9053-000

^{*} Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
Installation services			
Installation	and set up of unit at operating location, connect to existing connections	13, 18	DL100300
Installation of CO ₂ backup cooling	installation on unpacked unit	18	DL028002
Preventive maintenance			
Preventive maintenance	Executive of equipment inspection according to maintenance plan	14, 18	DL200100

^{*} Notes > See last page

Designation	Description	*	ArtNo.
Calibration services			
Calibration temperature	including certificate, one measuring point in center of chamber at specified temperature	14, 16, 17, 18	DL300201
Temperature measurement 20 measuring points	including certificate, 20 measuring points at specified temperature	14, 16, 17, 18	DL300620
Validation services			
Execution of IQ/OQ	in accordance with qualification folder	15, 18, 20	DL410200
Execution of IQ/OQ/PQ	in accordance with customer's requirement, price: on request	15, 18	DL440500
Qualification folder IQ/OQ	supporting documents for validation performed by customer, consisting of: IQ/OQ checklists, unit schematics, QM certificate in accordance with ISO 9001	15, 18, 20	8012-0880
Qualification folder IQ/OQ/PQ	supporting documents for validation performed by customer, in accordance with customer's requirement, extension of Qualification folder IQ/OQ by chapter PQ	15, 18	8012-0967

^{*} Notes > See last page

NOTES

- Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge. UL mark is not granted when this option is used.
- 02
- Heat resistant only to max. 200 °C. 03
- Only available on units rated for 230 V.
- Heating-up time may increase as a result of the lower heat conductivity.
- 07 The additional heat input may affect the temperature behavior.
- Not in conjunction with the optional access port, door with window and interior lighting. 09
- Not available on 23-liter units.
- Not available on 23- or 53-liter units.
- 10 11 12 Only available on units rated for 230 V or 400 V.
- Installation and connections take place at unit location; transport within the company only upon consultation.
- We recommend a BINDER service contract (see the chapter on BINDER Service) to cover unit inspections, calibrations and validations
- OQ according to Yellow Paper = completed factory validation documentation of all OQ checklists.
- Sensor calibration is performed in an accredited calibration laboratory. 16
- 17
- Calibration is performed according to the BINDER factory standard.

 Quoted prices do not include travel costs. Please refer to the chapter on BINDER Service for travel costs for your region. Quoted prices for services performed in Switzerland do not 18 include a country-specific added fee (available on request).
- For additional accessories, refer to the Process documentation chapter.
- When ordering IQ/OQ qualification folders and associated IQ/OQ execution on one order, we offer a 15 % discount for both items.

When ordering IQ/OQ/PQ qualification folders and associated IQ/OQ/PQ execution on one order, we offer a 15 % discount for the item of the IQ/OQ/PQ folder.

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