

ULTRA LOW TEMPERATURE FREEZERS

Series UF V | Ultra low temperature freezers with climate-neutral refrigerants

The BINDER ultra low temperature freezer ensures the safe storage of samples at -90 °C. It combines outstanding environmental friendliness with low energy consumption, convenient operation and an individual safety concept.



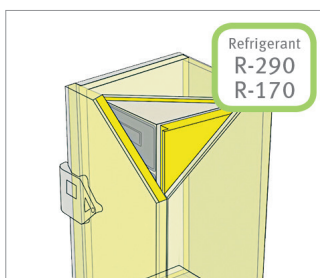
FEATURES:

- Temperature range: -90 °C to -40 °C
- Lowest energy consumption in its class
- Powerful cascade compressor cooling unit
- Environmentally friendly refrigerants R-290 and R-170
- Thermal insulation with unique long-life VIPs (vacuum insulation panels)
- 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
- Stainless-steel shelves providing flexible placement
- Water cooling (depending on version)
- Zero-voltage alarm contact for in-house alarm system
- Internal data logger, measured values can be read out in open format via USB
- Ethernet interface
- 2 access ports, Ø 28 mm, rear

Sizes 382 L, 477 L, 700 L



Advantages at a glance



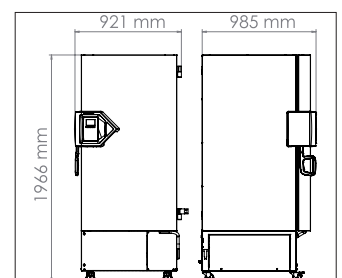
LOWEST ENERGY CONSUMPTION IN ITS CLASS WITH BEST TEMPERATURE UNIFORMITY



HIGH RELIABILITY



DURABLE QUALITY



WORKING ENVIRONMENT WITH SMALL FOOTPRINT AND LOW NOISE LEVEL

TECHNICAL DATA

Description	UFV 350	UFV 500	UFV 700
Housing dimensions not incl. fittings and connections			
Depth net [mm]	706	826	1110
Height net [mm]	1966	1966	1966
Width net [mm]	938	938	938
Internal Dimensions			
Depth net [mm]	486	606	890
Height net [mm]	1300	1300	1300
Width net [mm]	605	605	605
Measures			
Interior volume [L]	382	477	605
Net weight of the unit (empty) [kg]	226	247	288
Permitted load [kg]	160	200	200
Performance Data Temperature			
Temperature range [°C]	-90...-40	-86...-40	-86...-40
Temperature variation at -80 °C [± K]	3.5	2.5	2.5
Temperature fluctuation at -80 °C [± K]	3.5	1.5	1.5
Warm-up time during power failure from -80 °C / -122 °F to -60 °C / -76 °F [min]	170	230	250
Electrical data			
Nominal power (version 120 V) [kW]	1.4	1.6	1.6
Nominal power (version 230 V) [kW]	1.6	1.6	1.6
Nominal power (version 240 V) [kW]	1.6	1.6	1.6
Environment-specific data			
Energy consumption at set-point -80 °C and ambient temperature = 21 °C [kWh/d]	7.9	7.9	8.1
Fixtures			
Number of shelves (std./max.)	3/13	3/13	3/13

EXCERPT FROM OPTIONS AND ACCESSORIES



Foam-filled compartment doors with gasket



Door access system



Alarm system



Selection of racks and boxes

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