

# ULTRA LOW TEMPERATURE FREEZERS

## Series UFV | 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.



Model UFV 350

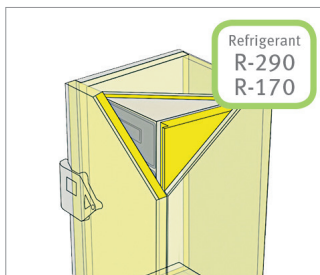
### FEATURES:

- 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



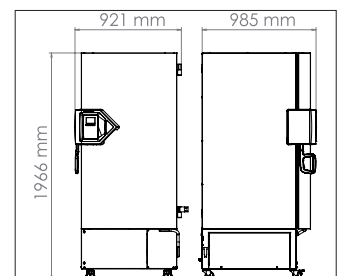
LOWEST ENERGY CONSUMPTION IN ITS CLASS WITH BEST TEMPERATURE UNIFORMITY



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	938	938
Height net [mm]	1966	1966	1966
Width net [mm]	938	826	1110
Internal Dimensions			
Depth net [mm]	486	605	605
Height net [mm]	1300	1300	1300
Width net [mm]	605	606	890
Measures			
Interior volume [L]	382	477	700
Net weight of the unit (empty) [kg]	226	247	289
Permitted load [kg]	160	200	200
Performance Data Temperature			
Temperature range [°C]	-90...-40	-90...-40	-90...-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	1.4	1.4
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

### Contact:

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