

## SECURE.GUARD™ Ultra low temperature freezer

The new BINDER SECURE.GUARD™ Ultra low temperature freezer from BINDER secures a long-term storage of samples at -86 °C.

SECURE.GUARD™ is based on a multi-stage security concept, which offers everything that laboratory staff want from reliable operation to ease of use and system integration to the emergency exchange service.



### Advantages:

- GUARD.CONTROL™ opens the freezer by pressing a button
- GUARD.CONTROL™ RFID technology personalizes access and records user traffic
- DATA.SECURE™ Data logger with USB connection
- SERVICE.PRO™
  - provides 24/7/365 exchange service
  - and an extended 4 year guarantee

### Areas of application:



Biotechnology



Clinics / University  
Hospitals



Pharmaceuticals  
Industry

Features	Customer benefits	Characteristics
GUARD.CONTROL™	<ul style="list-style-type: none"> <li>• Freezer can be opened and closed effortlessly</li> <li>• Automatic door system permits comfortable and safe operation</li> <li>• Rapid access</li> <li>• Secure sample storage</li> <li>• Defined user group</li> <li>• Access records</li> <li>• Extended data storage</li> </ul>	<p><b>“Push-button“ operation</b></p> <ul style="list-style-type: none"> <li>• Automatic electronically controlled door mechanism</li> </ul> <p><b>Unique: advanced RFID Technology</b></p> <ul style="list-style-type: none"> <li>• RFID key card controlled access and availability of a large protocol database</li> </ul>
VIP.COMPLETE™	<ul style="list-style-type: none"> <li>• Superior energy efficiency</li> <li>• Low energy and operating costs</li> </ul>	<p><b>Insulation design: Internal vacuum insulation panels (VIP)</b></p> <ul style="list-style-type: none"> <li>• Large surface insulation around all 6 sides</li> <li>• Optimized utilization of internal space due to the narrow VIP design (can accommodate up to 52.800 samples)</li> </ul>
DATA.SECURE™	<ul style="list-style-type: none"> <li>• Easy data transmission with PC requires no extra software (PDF Reader)</li> <li>• Supports FDA guideline 21 CFR Part 11</li> <li>• Different network versions adaptable to customer specific requirements</li> </ul>	<p><b>Easy Data Monitoring</b></p> <ul style="list-style-type: none"> <li>• Recording of temperature using a USB data logger</li> <li>• Integrated PT 100 provides independent data recording</li> <li>• Communication interfaces as part of standard equipment</li> </ul>
Noise level	<ul style="list-style-type: none"> <li>• Quiet operating environment</li> </ul>	<ul style="list-style-type: none"> <li>• 49 dB(A)</li> </ul>
Operation	<ul style="list-style-type: none"> <li>• Easy operation</li> <li>• Prevents manipulation</li> <li>• Simple relocation</li> <li>• Leveling and positioning at point of application</li> </ul>	<ul style="list-style-type: none"> <li>• Password protection</li> <li>• Solid, large casters for in-situ positioning with adjustable feet</li> <li>• Easy air filter access, no tools needed</li> </ul>
Deicing kit	<ul style="list-style-type: none"> <li>• Comfortable and easy deicing routine requires no personnel</li> </ul>	<ul style="list-style-type: none"> <li>• Deicing tray for convenient discharge of water from deicing</li> </ul>
SERVICE.PRO™	<ul style="list-style-type: none"> <li>• Increased safety features</li> <li>• In the long term high quality guarantees</li> </ul>	<ul style="list-style-type: none"> <li>• 6-years SERVICE.PRO™</li> </ul>
Options and accessories	<ul style="list-style-type: none"> <li>• A single-source solution</li> <li>• Maximum process safety</li> </ul>	<ul style="list-style-type: none"> <li>• Extensive accessories</li> <li>• Validation and documentation records</li> <li>• FDA-compliant APT-COM™ documentation software</li> </ul>

- GUARD.CONTROL™ automatic door mechanism for easy openings
- Personalized access control with RFID technology
- VIP.COMPLETE™ innovative insulation with advanced vacuum panels on all 6 sides
- Two-stage cascade refrigeration system with hermetically-sealed compressors
- Non-flammable refrigerant, CFC-free, proven industrial standard
- Temperature range: -40 °C to -86 °C
- Heated duplex door gasket prevents icing
- User-friendly microprocessor controller with LED display
- easy to read digital display
- alarm test system
- Built-in visual and audible alarm system:
- Power failure, temperature alarm, battery alarm
- Battery back-up system:
- Provides full functionality of alarm functions in case of power failure for 72 hours
- Improved battery life, because controlled charging
- Multiple standard communication interfaces:
- RS 422 interface
- Zero - voltage relay alarm output
- Analog output 4-20 mA
- Inner chamber made of high-quality stainless steel
- Robust, adjustable and lockable casters
- Easy front access for air filter cleaning (no tools needed)
- SERVICE.PRO™ 2-year warranty and 4-year extended guarantee
- BINDER test confirmation

## UF V 300

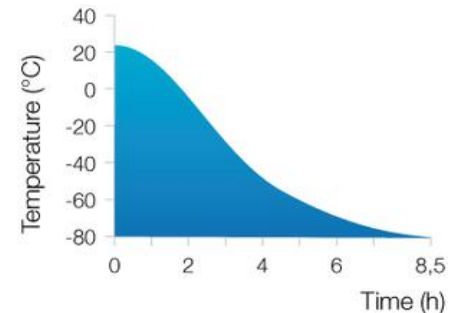
▶ Exterior dimensions	
Width (mm)	755
Height (mm)	1970
Depth (mm)	890

▶ Interior dimensions	
Width (mm)	442
Height (mm)	1300
Depth (mm)	635
Capacity (l)	365
Interior doors	4
Level	4
Racks per level	3
Cryo Boxes 50 mm (max. no. of)	264
Cryo Boxes 75 mm (max. no. of)	168
Net Weight (kg)	300

▶ Temperature data	
Temperature range (°C)	-40 to -86
Average temperature uniformity (K)	± 2,5
Energy consumption (kWh/day)	12

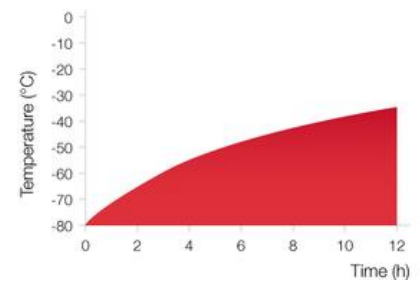
▶ Electrical data	
Nominal voltage (±10 %) 50 Hz (V)	230
Noise level (dB(A) 1)	49

### Pull-down-time



Pull-down-time with no load at 25 °C ambient temperature

### Pull-up-time



Pull-up-time at power failure with no load at 25 °C ambient temperature

1) according to DIN EN ISO 11204 class 2

All technical data are specified for unloaded units with standard equipment and a set point temperature at -80 °C at an ambient temperature of 25 °C and a voltage fluctuation of ±10%. The temperature data are determined in accordance to BINDER factory standard following DIN 12880. All indications are average values, typical for units produced in series. We reserve the right to change technical specifications at any time.

\* UF V 300 series available June 2011



### PDF Data logger

All in one Data logger with USB port. Independent temperature data recording compliant with FDA guideline 21 CFR Part 11. Plug-and-play data transfer requires no software (PDF reader)



### Freezer Racks and boxes

Choose from different boxes for your samples:

- Cryo boxes cardboard with different dividers
- PP Cryo boxes with dividers (9x9 grid)

for your boxes we also have racks made of stainless steel

- Side Access Racks for 50 mm (2") and 75 mm (3") boxes
- Sliding Drawer Racks for 50 mm (2") and 75 mm (3") boxes



### Deicing kit

The deicing kit consists of a scraper, a wiper and a deicing tray that is easy to install and that guarantees controlled water runoff – ideal for clean and easy deicing.



### Freezer gloves

For easy and safe handling of Freezer racks, medium size.

**UF V 300**

Access port 30 mm, back side	<input type="radio"/>
Sample divider	<input type="radio"/>
Cryo Boxes cardboard, 50 mm without dividers	<input type="radio"/>
Cryo Boxes cardboard, 75 mm without dividers	<input type="radio"/>
Cardboard dividers for Cryo Boxes, 49-cell	<input type="radio"/>
Cardboard dividers for Cryo Boxes, 64-cell	<input type="radio"/>
Cardboard dividers for Cryo Boxes, 81-cell	<input type="radio"/>
Cardboard dividers for Cryo Boxes, 100-cell	<input type="radio"/>
Polypropylene Cryo Boxes, 50 mm with 81-cells and codification	<input type="radio"/>
Polypropylene Cryo Boxes, 75 mm with 81-cells and codification	<input type="radio"/>
Side Access Rack UF V 4x5, for 50 mm boxes	<input type="radio"/>
Side Access Rack UF V 4x6, for 50 mm boxes	<input type="radio"/>
Side Access Rack UF V 4x3, for 75 mm boxes	<input type="radio"/>
Side Access Rack UF V 4x4, for 75 mm boxes	<input type="radio"/>
Sliding Drawer Rack UF V 4x5, for 50 mm boxes	<input type="radio"/>
Sliding Drawer Rack UF V 4x6, for 50 mm boxes	<input type="radio"/>
Sliding Drawer Rack UF V 4x3, for 75 mm boxes	<input type="radio"/>
Sliding Drawer Rack UF V 4x4, for 75 mm boxes	<input type="radio"/>
Deep temperature gloves, medium size	<input type="radio"/>
Magnetic bag, DIN A4	<input type="radio"/>
CO2 back up system (available January 2011)	<input type="radio"/>
Ethernet interface	<input type="radio"/>
Additional PT 100 sensor with lemo socket	<input type="radio"/>
Remote alarm box GSM (available June 2011)	<input type="radio"/>
Advanced voltage booster (available June 2011)	<input type="radio"/>
Read-out box RFID system	<input type="radio"/>
PDF Data logger with USP port (available June 2011)	<input type="radio"/>
Chart recorder UF V 300 (external) (available June 2011)	<input type="radio"/>
Deicing kit including deicing tray, wiper and scratch (available June 2011)	<input type="radio"/>
Water cooling (available August 2011)	<input type="radio"/>



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



**UK Office**

**Keison Products,**

**P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.**

**Tel: +44 (0)330 088 0560**

**Fax: +44 (0)1245 808399**

**Email: [sales@keison.co.uk](mailto:sales@keison.co.uk)**

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.