

Model VDL 23 | Vacuum drying chambers for flammable solvents

BINDER VDL series safety vacuum drying chambers ensure maximum safety when drying organic solvents. Explosion-protected unit with classification according to ATEX directive 2014/34/EU: EX II 2/3/-G IIB T3 Gb/Gc/- X.

BENEFITS

- · Fast, gentle drying
- Optimum heat transfer through large thermal conducting plates
- · Safe working thanks to ATEX-compliant safety concept
- Also option of modular complete system with vacuum pump and pump chamber



Model 23



- Temperature range: +9 °C above ambient temperature to +110 °C
- ATEX conformity for units: EX II 2/3/- G IIB T3 Gb/Gc/- X
- Intuitive touchscreen controller with graphical pressure and temperature display
- Program-controlled drying monitoring with automatic ventilation at end of process
- Internal data logger, measured values can be read out in open format via USB
- $\bullet\,$ Pressure control device for heating activated from ς 100 mbar
- 2 aluminum expansion racks, can be custom-positioned
- · Universal connection for ventilation with ambient air or inert gas
- Universal access port DN 16 for the introduction of external measuring devices
- Shatterproof, spring-mounted safety glass panel
- · Large viewing window
- Computer interface: Ethernet



Model 23

OPTIONAL EQUIPMENT

- Expansion racks Choice of aluminum or stainless steel racks depending on the application requirements
- Analogue output for temperature and pressure signals for external monitoring and evaluation of the process parameters, integration into inhouse systems is possible
- Universal ventilation Selection of different ventilation by air or inert gas
- Universal access port DN 40 for the introduction of external measuring
 devices.
- Multi Management Software APT-COM Manage, record and document device parameters
- Services extensive services ensure correct device function

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
24	200230 V 1~ ph 50/60 Hz	Standard	VDL023-230V	9630-0009
	100120 V 1~ ph 50/60 Hz	Standard	VDL023UL-120V	9630-0013



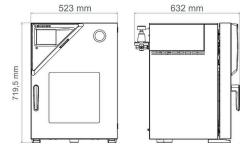
TECHNICAL DATA

Article Number 9630-0009 9630-0013 Performance Data Temperature 110 110 Temperature range+ 9"C above ambient temperature to [°C] 1.0 1.0 Temperature fluctuation [± K] 0.1 0.1 Temperature fluctuation [± K] 0.0 10 Vacuum Data Leak rate [bar/h] 0.01 0.01 Electrical data Sono-230 100120 Power frequency [H2] 5060 5060 Nominal power [kW] 0.9 0.9 Unit fuse [A] 6.3 10 Phase (Rominal voltage) 1- 1- Vacuum connection with small flange [DN mm] 16 16 Measuring access port with small flange [DN mm] 16 16 Vacuum connection for air / inert gas with flow limiter thread (RP") 3/8 3/8 3/8 Measuring access port with small flange [DN mm] 16 16 16 Universal connection for air / inert gas with flow limiter thread (RP") 3/8 3/8 2 Measuring access port with small flange [DN mm] 16 16 16 Unive	.20V1	VDL023UL-120V ¹	VDL023-230V1	Description
Remperature range = 9° Cabove ambient temperature fo [°C] 100 100 Temperature variation at 100 °C[x] 1.0 1.0 Temperature fluctuation [x] 0.1 1.0 Readingua prime fluctuation [x] 1.0 1.0 Vacuum Data VERNAME 1.0 0.0 Betrical data VERNAME VERNAME 1.0 0.0 1.0 <		9630-0013	9630-0009	Article Number
Temperature Variation at 100°C[x] 1.0 1.0 Temperature fluctuation [x] 0.1 1.0 Heating-up time to 100°C[m] 1.0 1.0 Vacuum Dat Vertical Temperature Muchaling 0.0 0.0 Elektrate [bar/h] 0.0 0.0 0.0 Betwisted [bar/h] 200-230 100-120 1.0 Place (Notinge [V]) 0.9 0.0 0.0 Nominal power [kW] 0.9 0.0				Performance Data Temperature
Temperature fluctuation [s K] o.1 10 Heating-up time to 100°C [min] 10 10 Vaccum Data .0 0.0 0.0 Eleak rate [bar/h] 0.0 0.0 0.0 Electrical data Vaccum College [V] 50/60 0.0 Power frequency [ktz] 0.9 0.9 0.0 Nominal power [kW] 6.3 0.0 0.0 Init fuse [A] 1.0 1.0 0.0 Phase (Nominal voltage) 1.0 1.0 0.0 Vacuum connection with small flange [DN mm] 16 1.0 0.0 Measuring access port with small flange [DN mm] 16 1.0 0.0 Measuring access port with small flange [DN mm] 2,8 3.8 3.8 Measuring access port with small flange [DN mm] 1.0 2.0 2.0 Interior volume [L] 2 2 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.		110	110	Temperature range +9 °C above ambient temperature to [°C]
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Vacuum Data Leak rate [bar/h] 0.01 0.01 Electrical data 200230 100120 Rated Voltage [V] 50/60 50/60 Nominal power [kW] 0.9 0.9 Unit fuse [A] 6.3 10 Phase (Nominal voltage) - - Connections - - Vacuum connection with small flange [DN mm] 16 6 Measuring access port with small flange [DN mm] 16 16 Universal connection for air / inert gas with flow limiter thread (RP*) y/8 3/8 3/8 Measuring access port with small flange [DN mm] 16 16 Universal connection for air / inert gas with flow limiter thread (RP*) y/8 3/8 3/8 Measuring access port with small flange [DN mm] 16 10 Universal connection for air / inert gas with flow limiter thread (RP*) y/8 3/8 3/8 Measuring access port with small flange [DN mm] 16 24 Net weight of the unit (empty) [kg] 50 50 Universal Longe (kg] 20 20 Viewing window width [mm]		0.1	0.1	Temperature fluctuation [± K]
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Electrical data Electrical data Image: Company of Equation (Company) Image: Compan				Vacuum Data
Rated Voltage [V] 200230 100120 Power frequency [Hz] 50/60 50/60 Nominal power [kW] 0.9 0.9 Unit fuse [A] 6.3 10 Phase (Nominal voltage) 1- 1- Connections Vacuum connection with small flange [DN mm] 16 6 Measuring access port with small flange [DN mm] 16 16 16 Universal connection for air / inert gas with flow limiter thread (RP*) 3/8 3/8 3/8 3/8 Measures Viewing wind wild [Mm] 24 24 24 Net weight of the unit (empty) [kg] 72 72 72 Permitted load [kg] 20 20 20 Usewing window width [mm] 305 36 36 Viewing window width [mm] 305 36 36 Wall clearance back [mm] 305 36 36 Wall clearance sidewise [mm] 285 285 36 Height [mm] 285 285 285 Depth [mm] 295 285		0.01	0.01	Leak rate [bar/h]
Power frequency [Hz] 50/60 50/60 Nominal power [kM] 0.9 0.9 Unit fuse [A] 6.3 10 Phase (Nominal voltage) 1~ 1 Connections Wacuum conection with small flange [DN mm] 16 16 Measuring access port with small flange [DN mm] 16 16 Universal connection for air / inert gas with flow limiter thread (RP") 3/8 3/8 3/8 Measures Interior volume [L] 24 24 24 Net weight of the unit (empty) [kg] 72 72 72 Permitted load [kg] 50 50 60				Electrical data
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Unit fuse [A] 6.3 10 Phase (Nominal voltage) 1~ 1~ Connections 1.6 1.6 Wacuum connection with small flange [DN mm] 1.6 1.6 1.6 Measuring access port with small flange [DN mm] 1.6 1.6 1.0 Universal connection for air / inert gas with flow limiter thread (RP*) 3/8 3/8 3.8 3.8 Measures 2.0 3.8 <th< td=""><td></td><td>50/60</td><td>50/60</td><td>Power frequency [Hz]</td></th<>		50/60	50/60	Power frequency [Hz]
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Vacuum connection with small flange [DN mm] 16 16 Measuring access port with small flange [DN mm] 16 16 Universal connection for air / inert gas with flow limiter thread (RP") 3/8 3/8 3/8 Measures Interior volume [L] 24 24 Net weight of the unit (empty) [kg] 72 72 Permitted load [kg] 50 50 Load per rack [kg] 20 20 Viewing window width [mm] 305 305 Viewing window height [mm] 305 305 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions Width [mm] 285 285 Height [mm] 285 285 Depth [mm] 295 295 Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523		1~	1~	Phase (Nominal voltage)
Measuring access port with small flange [DN mm] 16 16 Universal connection for air / inert gas with flow limiter thread (RP") 3/8 3/8 3/8 Measures Interior volume [L] 24 24 Net weight of the unit (empty) [kg] 72 72 Permitted load [kg] 50 50 Load per rack [kg] 20 20 Viewing window width [mm] 305 305 Viewing window height [mm] 305 305 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions Width [mm] Width [mm] 285 285 Depth [mm] 295 295 Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523				Connections
Universal connection for air / inert gas with flow limiter thread (RP") 3/8 3/8 3/8		16	16	Vacuum connection with small flange [DN mm]
Measures Interior volume [L] 24 24 Net weight of the unit (empty) [kg] 72 72 Permitted load [kg] 50 50 Load per rack [kg] 20 20 Viewing window width [mm] 305 305 Viewing window height [mm] 305 305 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions 285 285 Width [mm] 285 285 Depth [mm] 295 295 Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523		16	16	Measuring access port with small flange [DN mm]
Interior volume [L] 24 24 Net weight of the unit (empty) [kg] 72 72 Permitted load [kg] 50 50 Load per rack [kg] 20 20 Viewing window width [mm] 305 305 Viewing window height [mm] 305 305 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions 285 285 Width [mm] 285 285 Height [mm] 295 295 Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523		3/8	3/8	Universal connection for air / inert gas with flow limiter thread (RP") 3/8
Net weight of the unit (empty) [kg] 72 72 Permitted load [kg] 50 50 Load per rack [kg] 20 20 Viewing window width [mm] 305 305 Viewing window height [mm] 305 305 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions 285 285 Height [mm] 285 285 Depth [mm] 295 295 Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523				Measures
Permitted load [kg] 50 50 Load per rack [kg] 20 20 Viewing window width [mm] 305 305 Viewing window height [mm] 305 305 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions 285 285 Width [mm] 285 285 Depth [mm] 295 295 Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523		24	24	Interior volume [L]
Load per rack [kg] 20 20 Viewing window width [mm] 305 305 Viewing window height [mm] 305 305 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions 285 285 Width [mm] 285 285 Depth [mm] 295 295 Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523		72	72	Net weight of the unit (empty) [kg]
Viewing window width [mm] 305 305 Viewing window height [mm] 305 305 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions 285 285 Width [mm] 285 285 Height [mm] 295 295 Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523		50	50	Permitted load [kg]
Viewing window height [mm] 305 305 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions 285 285 Width [mm] 285 285 Depth [mm] 295 295 Doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523		20	20	Load per rack [kg]
Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 70 70 Internal Dimensions Width [mm] 285 285 Height [mm] 285 285 Depth [mm] 295 295 Doors 1 1 Housing dimensions not incl. fittings and connections 523 523		305	305	Viewing window width [mm]
Wall clearance sidewise [mm] 70 70 Internal Dimensions Width [mm] 285 285 Weight [mm] 285 285 Depth [mm] 295 295 Doors 1 1 Housing dimensions not incl. fittings and connections 523 523		305	305	Viewing window height [mm]
Internal Dimensions Width [mm] 285 285 Height [mm] 285 285 Depth [mm] 295 295 Doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523		100	100	Wall clearance back [mm]
Width [mm] 285 285 Height [mm] 285 285 Depth [mm] 295 295 Doors 1 1 Housing dimensions not incl. fittings and connections 523 523		70	70	Wall clearance sidewise [mm]
Height [mm] 285 285 Depth [mm] 295 295 Doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523				Internal Dimensions
Depth [mm] 295 295 Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections 523 523		285	285	Width [mm]
Doors Unit doors 1 1 Housing dimensions not incl. fittings and connections Width net [mm] 523 523		285	285	Height [mm]
Unit doors 1 1 Housing dimensions not incl. fittings and connections Width net [mm] 523 523		295	295	Depth [mm]
Housing dimensions not incl. fittings and connections Width net [mm] 523 523				Doors
Width net [mm] 523 523		1	1	Unit doors
				Housing dimensions not incl. fittings and connections
Height net [mm] 698 698		523	523	Width net [mm]
		698	698	Height net [mm]
Depth net [mm] 413 413		413	413	Depth net [mm]
Environment-specific data				Environment-specific data
Sound-pressure level [dB(A)] 40 40		40	40	Sound-pressure level [dB(A)]
Fixtures				Fixtures
Number of shelves (std./max.) 2/4 2/4		2/4	2/4	Number of shelves (std./max.)

¹ All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10%. The temperature data is determined in accordance to BINDER factory standard following DIN 12880, observing the recommended wall clearances of 10 % of the height, width, and depth of the inner chamber. All indications are average values, typical for units produced in series. We reserve the right to change technical specifications at any time.



DIMENSIONS incl. fittings and connections [mm]



OPTIONS

Designation	Description	*	ArtNo.
Additional universal ventilation	Additional universal connection for ventilation with ambient air or inert gas. Flow limiter thread (RP"), and connection with 3/8" male thread.		8612-0001
Analog output 4-20 mA	for temperature and pressure values (output not adjustable)		8612-0004
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature		8012-1127
Calibration certificate, pressure	for digital pressure display, measurement at 100 mbar or at specified pressure (range 20 – 900 mbar)	-	8012-0440
	for temperature, measurement in center of chamber at specified temperature	-	8012-1145
Calibration certificate, temperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-0919
	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-0916
Door gasket	made of FKM, silicone-free	-	8612-0007
Door lock	lockable door handle	-	8612-0002
Expansion racks	stainless steel expansion rack instead of standard aluminum expansion rack, incl. calibration	-	8612-0011
Temperature measurement of the specimen	with flexible Pt 100 sensor and digital specimen temperature display	-	8612-0006
Universal access port	iversal access port Additional DN 40 small flange universal access port with blind flange, for positioning sensors or supply lines in the chamber.		8612-0003

^{*} Notes > See last page

ACCESSORIES

Designation	Description	*	ArtNo.
APT-COM™ 4 BASIC- Edition	for simple logging and documentation requirements with up to 5 networked units.		
	version 4, BASIC edition	-	9053-0039
APT-COM™ 4 GLP- Edition	for working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 21 CFR 11.		
	version 4, GLP edition	-	9053-0042
APT-COM™ 4	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
PROFESSIONAL-Edition	version 4, PROFESSIONAL edition	-	9053-0040
Expansion racks	stainless steel	-	8009-1093
	aluminum	-	8009-1031
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-0016

^{*} Notes > See last page



Designation	Description	*	ArtNo.
Qualification documents	IQ/OQ documents – supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, CO ₂ , O ₂ , pressure, depending on unit		
	Digital in PDF format	-	7057-0001
	Hard copy inside folder	-	7007-0001
	IQ/OQ/PQ documents – supporting documents for validation performed by customers, according to customer requirements, PQ section added to qualification folder IQ/OQ; parameters: temperature, CO_2 , O_2 – or pressure, depending on unit		
	Digital in PDF format	-	7057-0005
	Hard copy inside folder	-	7007-000
Vacuum module with vacuum pump VP 4	Chemical membrane pump with nominal pumping speed 1.9 m³/h, final pressure 12 mbar, with separator and emission condenser,		
	230 V / 50 Hz option model	-	8012-1970
Vacuum pump connection kit (ATEX)	for vacuum pump VP 4; consisting of clamping rings, universal centering rings, transition piece, anti-static vacuum hose, union nut, and elbow		8012-0621
Vacuum pump VP 4	Chemical membrane pump with nominal pumping speed 1.9 m³/h, final pressure 12 mbar, with separator and emission condenser		
	230 V / 50 Hz option model	-	5013-0049
WLAN kit	The kit contains a client bridge that establishes a wireless connection between BINDER units and APT-COM4, LIMS, or customer-specific software via an Ethernet interface. It provides an alternative solution in situations where units need to be positioned in locations without an on-site Ethernet connection. In secured networks, installation and configuration must be performed by the customer's IT service.	-	8500-0162

^{*} Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
Installation services			
Unit commissioning	Connect the unit to the customer-side connections (electricity, water, wastewater, gas), basic functions check, brief operating instructions. (excl.: unpacking, setup, controller instructions, programming, installation work)	05	DL10-0100
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0500
Maintenance contracts			
Maintenance services			
BRONZE 3-year maintenance contract	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts	05	DL20-0710
GOLD 3-year maintenance contract	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts, testing of all key functions, replacement of wear parts, calibration of one temperature/humidity/pressure value, including certificate	05	DL20-0930
Maintenance	One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical and electrical components, testing of all key functions. Calibration of a test temperature specified by the user in center of usable space without certificate	05	DL20-0500
Safety test	Testing of ATEX-specific safety systems: inert gas flushing and safety temperature shut-off. Testing of the specified systems also forms part of the more extensive maintenance service (DL20-0500)	05	DL34-0000
SILVER 3-year maintenance contract	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts, testing of all key functions, calibration of one test temperature specified by the user in the center of the usable space, without certificate	05	DL20-0820
Calibration services			
Calibration contificate termonature	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
Calibration certificate, temperature	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate	03, 04, 05	DL30-0102
Pressure calibration	Digital pressure display calibration at a specified test pressure of 20–900 mbar, including certificate	03, 04, 05	DL32-0000
Temperature measurement, 15 measuring points	Temperature measurement with 15 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0218
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0109

^{*} Notes > See last page



Designation	Description	*	ArtNo.
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	05	DL42-0300
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	05	DL44-0500
Warranty service			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0020

^{*} 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
- Sensor calibration is performed in an accredited calibration laboratory. 03
- 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 include a country-specific added fee (available on request).

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