

Vacuum drying chambers



VD | VDL series





Vacuum drying chambers

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Both BINDER vacuum drying chamber models enable effective drying without residue or damaging the material being dried. With their proven technological features, the excellently address the strict requirements of industrial and scientific laboratories. Samples and similar materials incorporating flammable and non-flammable solvents can be dried, depending on the individual use. The chambers use a unique safety design that, together with accustomed outstanding performance, sets the bar in terms of quality and safety.

PRODUCT SELECTION VACUUM DRYING CHAMBERS

Features	Series VDL → Page 6		Series VD → Page 8
Model			
Model 23	•		•
Model 53	•		•
Model 115	•		•
General data			
Temperature range 15 °C above ambient temperature to [°C]		200	
Controller and timer functions			
Controller display		LED	
Ramp function	•		•
Time delayed OFF	•		•
Time delayed ON	•		•
Temperature dependent delayed OFF	•		•
Programming option	•		•
Weekly program function	•		•
Real-time clock	•		•
Class 2 independent adjustable temperature safety device	•		•
Temperature alarm, visual	•		•

 $[\]bullet \textbf{Standard equipment} \\$

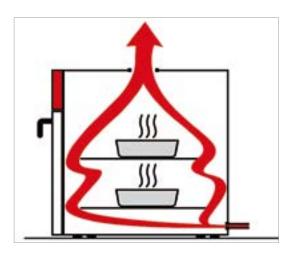
ADVANTAGES AT A GLANCE



UNIQUE SAFETY CONCEPT

Series VDL

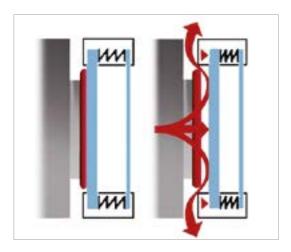
The safety concept provides flame protection gasket, pressure control device for heating activation, and the ATEX-tested interior EX II -/3G c IIB T3-T1 Gc X.



INERT GAS CONNECTION

Series VDL, VD

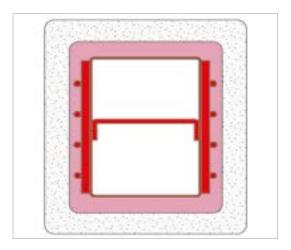
Cross Flow Technology provides even flow throughout the interior from bottom to top.



TESTED SAFETY

Series VDL, VD

Shatterproof, spring-mounted safety glass panel, inert gas connection for interior flushing, and electronic components decoupled from the interior provide safety for users.



DIRECT HEAT TRANSFER

Series VDL, VD

Patented expansion racks provide flexible placement for homogeneous temperature distribution.

Series VDL | for flammable solvents

A BINDER safety vacuum drying oven of the VDL series ensures maximum safety when drying organic solvents standard with $T\ddot{U}V/GS$. The inner chamber of the VDL safety vacuum drying oven is designed according to ATEX guidelines 2014/34/EU Ex II -/3G c IIB T3-T1 Gc X.





Model 115

MAIN FEATURES

- Temperature range: room temperature plus 15 °C to 200 °C
- APT.line™ preheating chamber technology
- Controller with time-segment and real-time programming
- 2 aluminum expansion racks

- Inert gas connection
- Shatterproof, spring-mounted safety glass panel
- Pressurized instrument panel with compressed air connection
- Pressure control device for heating activated < 125 mbar
- Flame protection gasket

AVAILABLE SIZES

Model	Interior volu- me [cu. ft.]	Online data sheets
VDL 23	0.8	ogo2binder.com/us-VDL23
VDL 53	1.9	pgo2binder.com/us-VDL53
VDL 115	4.1	pgo2binder.com/us-VDL115



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TECHNICAL DATA

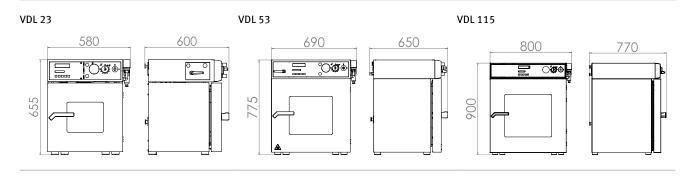
Description	VDL 23	VDL 53	VDL 115
Outer dimensions			
Width net [in]	20.29	25.02	29.16
Height net [in]	25.81	30.53	35.46
Depth net [in]	19.7	21.67	26.4
Internal Dimensions			
Width [in]	11.23	15.76	19.94
Height [in]	11.23	15.76	19.94
Depth [in]	11.62	13.4	18.12
Measures			
Interior volume [cu.ft.]	0.8	1.9	4.1
Net weight of the unit (empty) [lbs]	139	209	337
permitted load [lbs]	77	99	143
Load per rack [lbs]	44	44	44
Performance Data Temperature			
Temperature range 15 °C above ambient temperature to [°C]	200	200	200
Temperature variation at 100 °C [± K]	1.5	2	3.5
Temperature fluctuation [± K]	0.1	0.1	0.1
Heating-up time to 100 °C [min]	65	80	95
Electrical data			
Nominal power (version 230 V) [kW]	0.8	1.2	1.9
Fixtures			
Number of shelves (std./max.)	2/4	2/5	2/6

ORDERING INFORMATION [Art. No.]

Further details: Go to www.binder-world.com > Search > Enter Article Number

9030-0038	9030-0039	9030-0040
	9030-0038	

DIMENSIONS INCL. FITTINGS AND CONNECTIONS [MM]



Series VD | for non-flammable solvents

A BINDER vacuum drying oven VD series gently dries materials with homogeneous temperature distribution. The patented expansion shelf technology from BINDER ensures optimal heat transfer. The shelves are easy to position where required and the inner chamber of the vacuum drying oven is easy to clean.





Model 53

MAIN FEATURES

- Temperature range: room temperature plus 15 °C to 200 °C
- APT.line™ preheating chamber technology
- Controller with time-segment and real-time programming
- 2 aluminum expansion racks
- Inert gas connection

- Shatterproof, spring-mounted safety glass panel
- Class 2 independent adjustable temperature safety device (DIN 12880) with visual alarm
- Computer interface: RS 422
- 2 relay outputs, 24 V DC (max. 0.4 A)

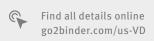
AVAILABLE SIZES

Model	Interior volu- me [cu. ft.]	Online data sheets
VD 23	0.8	pgo2binder.com/us-VD23
VD 53	1.9	pgo2binder.com/us-VD53
VD 115	4.1	pgo2binder.com/us-VD115



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TECHNICAL DATA

Description	VD 23	VD 53	VD 115
Outer dimensions			
Width net [in]	20.29	25.02	29.16
Height net [in]	26.2	30.53	35.46
Depth net [in]	19.7	21.67	26.4
Internal Dimensions			
Width [in]	11.23	15.76	19.94
Height [in]	11.23	15.76	19.94
Depth [in]	11.62	13.4	18.12
Measures			
Interior volume [cu.ft.]	0.8	1.9	4.1
Net weight of the unit (empty) [lbs]	139	209	337
permitted load [lbs]	77	99	143
Load per rack [lbs]	44	44	44
Performance Data Temperature			
Temperature range 15 °C above ambient temperature to [°C]	200	200	200
Temperature variation at 100 °C [± K]	1.5	2	3.5
Temperature fluctuation [± K]	0.1	0.1	0.1
Heating-up time to 100 °C [min]	65	80	95
Electrical data			
Nominal power (version 120 V) [kW]	0.8	1.2	1.7
Nominal power (version 230 V) [kW]	0.8	1.2	1.7
Fixtures			
Number of shelves (std./max.)	2/4	2/5	2/6

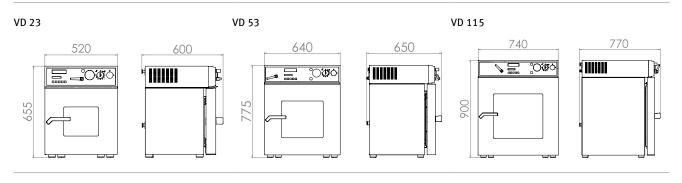
ORDERING INFORMATION [Art. No.]

Further details: Go to www.binder-world.com > Search > Enter Article Number

Voltage	Option model	VD 23	VD 53	VD 115
230 V 1~ 50/60 Hz	Standard	9030-0029	9030-0030	9030-0031
120 V 1~ 60 Hz	Standard	9030-0035	9030-0036	9030-0037

[▶] You will find a selction of options, accessories and services suitable for each product on page 10

DIMENSIONS INCL. FITTINGS AND CONNECTIONS [MM]



EXCERPT FROM OPTIONS AND ACCESSORIES

Vacuum module	For receiving vacuum pumps, with switchable power socket. Series VDL, VD
Vacuum module with vacuum pump	Consists of module and vacuum pump. The module allows the pump to be installed below the vacuum chamber. This reduces the noise level by 50% and makes it considerably easier to access the vacuum chamber. Our range of membrane pumps, chemical membrane pumps, or speed-controlled chemical membrane pumps are perfectly matched to the BINDER vacuum chambers in question. Series VDL, VD
Pt 100 temperature sensor	Additional sensor with flexible cable for performing measurements directly on the sample. Series VDL, VD
Electric access port	For vacuum-tight access port for measuring lines. Series VDL, VD
Services	You can access our installation, maintenance, calibration, validation, or warranty services by taking out a Maintenance Service Agreement or by simply getting in touch when you need us. More information is available in the accessories and services chapter. Series VDL, VD
BINDER INDIVIDUAL	Using a BINDER series production product as a basis, we develop individual solutions as a single unit or in small batches. All products are tested, certified, and supplied with a full functional guarantee and warranty. More information is available in the accessories and services chapter. Series VDL, VD







Vacuum module with vacuum pump



Pt 100 temperature sensor



Electric access port

BINDER products

CO ₂ incubators
Incubators
Refrigerated incubators
Growth chambers
Ultralow temperature freezers
Drying and heating chambers
Safety drying chambers
Vacuum drying chambers
Humidity test chambers
Dynamic climate chambers



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