

Growth chambers



KBW| KBWF series

Growth chambers

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Homogeneous light in combination with a constant temperature and humidity is necessary to achieve ideal growth in plants or other organisms. A BINDER humidity chamber offers all this. This is how KBW Series growth chambers create ideal conditions for the culture using light and temperature. The KBF series also offers a system for humidity regulation. The APT.line™ preheating chamber from BINDER, in connection with fast-reacting humidity regulation, highly effective cooling and uniform light distribution, ensures natural growth conditions.



PRODUCT SELECTION GROWTH CHAMBERS

Features	KBW > Page 6	KBWF > Page 9
Model		
Model 240	•	•
Model 400	•	-
Model 720	•	•
General data		
Temperature range without illumination cas- settes [°C]	C	070
Temperature range with 100% illumination [°C]	560	1060
Humidity range [% RH]	-	1080
Ethernet interface	•	•
Forced convection	•	•
Controller and timer functions		
Controller display	TFT	l touch
Ramp function	•	•
Time delayed OFF	•	•
Time delayed ON	•	•
Temperature dependent delayed OFF	•	•
Programming option	•	•
Weekly program function	•	•
Adjustable fan speed	•	•
Real-time clock	•	•
Class 3.1 independent temperature safety device	•	•
Temperature alarm, acoustic	•	•
Temperature alarm, visual	•	•
•Standard equipment		

ADVANTAGES AT A GLANCE



HOMOGENEOUS TEMPERATURE DISTRIBUTION

Series KBW, KBWF

BINDER APT.line[™] preheating chamber technology ensures long-term operational stability even under full load.



NATURE-EMULATING GROWTH CONDITIONS

Series KBW

Using illumination cassettes provides flexible placement options which ensures homogeneous light distribution over the entire usable area. The light qualities are individually selectable.



FAST AND PRECISE HUMIDIFICATION

Series KBWF

The patented long-life steam humidification system and the capacitive humidity sensor ensure on target humidity values.



INTUITIVE TOUCHSCREEN CONTROLLER

Series KBW, KBWF

State-of-the-art controller technology with time-segment and real-time programming with internal data recording

Series KBW | with light

The BINDER climate chamber with illumination of the KBW series achieves homogeneous light distribution with its natural illumination. That allows this growth chamber to create constant lighting and temperature conditions.





KBW 400 model

MAIN FEATURES

- Temperature range: 0 °C to 70 °C
- Temperature range with light: 5 °C to 60 °C
- positionable illumination cassettes, each with 5 fluorescent tubes
- APT.line™ preheating chamber technology
- Adjustable fan speed
- Stainless steel racks

AVAILABLE SIZES

Model	Interior volume [L]	Online data sheets
KBW 240	247	> go2binder.com/en-KBW240
KBW 400	400	>go2binder.com/en-KBW400
KBW 720	698	> go2binder.com/en-KBW720

- Access port with silicone plug, 30 mm, left
- Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm
- Computer interface: Ethernet
- Intuitive touchscreen controller with time-segment and real-time programming with internal data recording

TIPS & TRICKS

Benefit from our many years of experience, as demonstrated in our technical papers:

Tips & Tricks: >go2binder.com/en-tips-tricks >go2binder.com/en-case-studies Case Studies:

TECHNICAL DATA

Description	KBW 240	KBW 400	KBW 720
Housing dimensions not incl. fittings and connections			
Width net [mm]	925	925	1250
Height net [mm]	1465	1950	1925
Depth net [mm]	800	805	890
Internal Dimensions			
Width [mm]	650	650	970
Height [mm]	785	1270	1250
Depth [mm]	485	485	576
Measures			
Interior volume [L]	247	400	698
Net weight of the unit (empty) [kg]	195	252	377
permitted load [kg]	100	120	150
Load per rack [kg]	30	30	45
Performance Data Temperature			
Temperature range with 100% illumination [°C]	560	560	560
Temperature range without illumination cassettes [°C]	070	070	070
Temperature variation with 100% illumination [± K]	0.5	1.5	1.0
Temperature variation without illumination cassettes [± K]	0.5	0.5	0.5
Temperature fluctuation with 100% illumination [± K]	0.2	0.2	0.1
Temperature fluctuation without illumination cassettes [± K]	0.1	0.1	0.1
Lightdata per Illumination Cassettes			
Daylight tubes [W/m²]	24	24	38
Daylight tubes [lx]	9000	9000	13000
Fluora® growth lamps [W/m²]	23	23	36
Fluora® growth lamps [lx]	7500	7500	10500
Arabidopsis lamps [W/m²]	32	32	43
Arabidopsis lamps [lx]	11000	11000	14000
Electrical data			
Nominal power (version 230 V) [kW]	1.4	1.6	2.7
Fixtures			
Number of shelves (std./max.)	2/7	3/12	3/12
Number of illumination cassettes (std./max.)	2/2	3/3	3/3

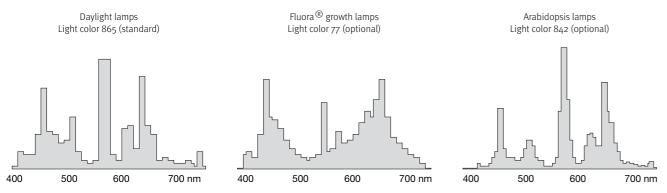
ORDERING INFORMATION [Art. No.]

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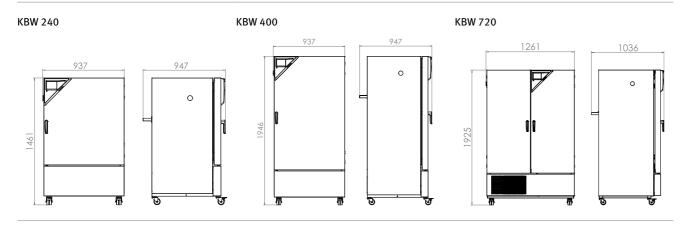
Voltage	Option model	KBV	W 240	KBW 400	KBW 720
200240 V 1 50 Hz	Standard	902	20-0338	9020-0339	9020-0340
Nou will find a colotion	of options, according and convices	uitable for each product on page 12			
• You Will find a selction	of options, accessories and services	uitable for each product on page 12			

Find all details online go2binder.com/en-KBW

LIGHT SPECTRA



DIMENSIONS incl. fittings and connections [mm]



Series KBWF | with light and humidity

The BINDER climate chamber with illumination of the KBW series achieves homogeneous light distribution with its natural illumination. That allows this climate chamber to create constant lighting and temperature conditions.



KBWF 240 model

MAIN FEATURES

- Temperature range: 0 °C to 70 °C
- Temperature range with light: 10 °C to 60 °C
- Humidity range: 10 % to 80 % RH
- positionable illumination cassettes, each with 5 fluorescent tubes
- APT.line[™] preheating chamber technology
- Adjustable fan speed

AVAILABLE SIZES

Model	Interior volume [L]	Online data sheets
KBWF 240	247	> go2binder.com/en-KBWF240
KBWF 720	700	> go2binder.com/en-KBWF720



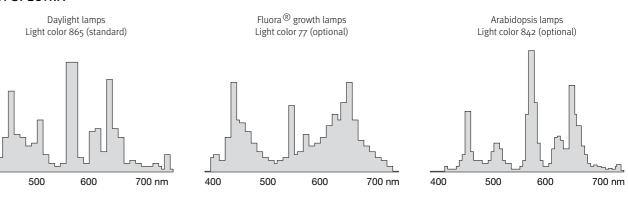
• Humidity regulation with capacitative humidity sensor and vapor humidification • Display via color LCD monitor • Tightly-sealed inner door made of tempered safety glass • Intuitive touchscreen controller with time-segment and real-time programming with internal data recording

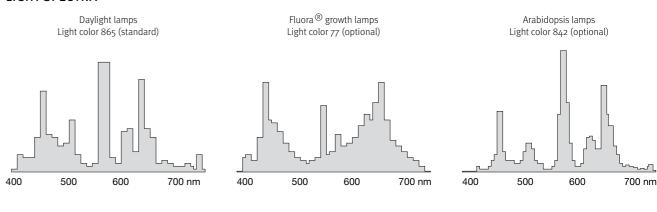
• Tight-sealing inner door made of safety glass (ESG) with specialTIMELESS coating

TECHNICAL DATA

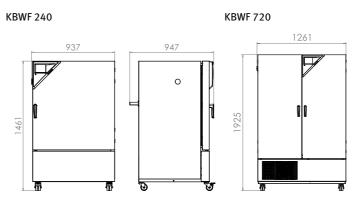
Width net [nm]9251250Height net [nm]14651925Depth net [nm]800890Internal DimensionsVVWidth [nm]5701250Depth [nm]7851250Depth [nm]7851250Depth [nm]7871250Depth [nm]247700MeasuresVVPerformance [l]2140374Depentited load [kg]1050Load per rack [kg]3045Performance Data Temperature0601060Temperature range with 00% illumination [°C]10601060Temperature range with 00% illumination [°C]10602060Temperature range with 00% illumination [°C]10601060Temperature rang	Description	KBWF 240	KBWF 720
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Depth net [mm]800890Internal Dimensions550973Width [mm]650973Height [mm]7851250Depth [mm]7851250Depth metring785700Measures247700Interior volume [L]247700Net weight of the unit (empty) [kg]214374permitted load [kg]100150Load per rack [kg]3045Performance Data Temperature0001060Temperature range without illumination [°C]070070Performance Data Temperature0001060Temperature range without illumination cassettes [°C]10601060Temperature range without illumination cassettes [°C]10601060Temperature range without illumination cassettes [°C]10751075Humidity range without illumination [% RH]10801080Daylight tubes [W/m²]2438Daylight tubes [W/m²]2336Fluora@ growth lamps [k]100013000Arabidopsis lamps [k]50010500Arabidopsis lamps [k]100010500Arabidopsis lamps [k/m²]2436Nominal power (version 230 V) [kW]243.5Fixtures545456Winder of shelves (std./max.)2/73/12	Width net [mm]	925	1250
Internal DimensionsWidth [mm]650973Height [mm]7851250Depth [mm]7851250Depth [mm]850576Measures1700Interior volume [L]247700Net weight of the unit (empty) [kg]214374permitted load [kg]100150Load per rack [kg]01060Performance Data Temperature10601060Performance Data Temperature range with 100% illumination [°C]0601060Temperature range with 00% illumination [°C]10601060Performance Data Climate10601060Temperature range with 00% illumination [°C]10601060Performance Data Climate10601060Temperature range with 100% illumination [°C]10601060Performance Data Climate10601060Temperature range with 100% illumination [°C]10601060Performance Data Climate10601060Temperature range with 100% illumination [°C]10751075Humidity range with illumination (% RH]10751080Daylight tubes [W/m]243636Daylight tubes [W/m²]210300300Fluara@ growth lamps [W/m²]210300300Arabidopsis lamps [W/m²]210300300Arabidopsis lamps [W/m²]243536Arabidopsis lamps [W/m²]2436	Height net [mm]	1465	1925
Width [mm]650973Height [mm]7851250Depth [mm]485576Measures1700Net weight of the unit (empty) [kg]214374Deper mitted load [kg]100150Load per rack [kg]3045Deformance Data Temperature10601060Performance Data Temperature070070Performance Data Temperature1060070Performance Data Climate10601060Temperature range with 100% illumination [°C]10601070Performance Data Climate10701070Humidity range without illumination (°C, RH)10701070Humidity range with illumination [% RH]10751075Humidity range with illumination [% RH]10751070Lightdata per Illumination Cassettes [°C]900013000Lightdata per Illumination [% RH]2438Daylight tubes [/Mri]2136Pluora@ growth lamps [/Mri]130010.00Lightdata per Illumination Cassettes10001300Fluora@ growth lamps [/Mri]2436Arabidopsis lamps [/Mri]2143Arabidopsis lamps [/Mri]2143Arabidopsis lamps [/Mri]2143Koninal power (version 230 V) [/W]2435Fixtures140002435Fixtures140003035Fixtures140003035 </td <td>Depth net [mm]</td> <td>800</td> <td>890</td>	Depth net [mm]	800	890
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Interior volume [L]247700Net weight of the unit (empty) [kg]214374permitted load [kg]100150Load per rack [kg]3045Performance Data Temperature10601060Temperature range with 100% illumination (°C]070070Performance Data Climate1060070Performance Data Climate1060070Performance Data Climate1060070Performance Data Climate1060070Performance Data Climate10701070Performance Data Climate10701070Performance Data Climate10701070Performance Settes, with illumination [% RH]10701070Humidity range without illumination (% RH]10801080Upslight tubes [Wm²]24383000Paylight tubes [Wm²]2436300Paylight tubes [Wm²]100013001000Paylight tubes [k]100013001000Arabidopsi slamps [Wm²]21300300Arabidopsi slamps [k]10001400300Arabidopsi slamps [k]10001400300Perforate10001400300Arabidopsi slamps [k]2433Arabidopsi slamps [k]10001400300Arabidopsi slamps [k]100014003Arabidopsi slamps [k]2433Arabidopsi slamps	Depth [mm]	485	576
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Lada per rack [kg] 30 45 Performance Data Temperature 1060 1060 Temperature range with 100% illumination [°C] 1060 070 Temperature range without illumination cassettes [°C] 070 070 Performance Data Climate 1060 1060 Temperature range with 100% illumination [°C] 1070 1070 Temperature range with 100% illumination [°C] 1070 1070 Temperature range with 100% illumination [°C] 1070 1070 Humidity range without illumination cassettes [°C] 1070 1070 Humidity range without illumination cassettes [°C] 1070 1070 Humidity range without illumination Cassettes [°C] 1080 1080 Lightdata per Illumination Cassettes [°C] 1080 1080 Lightdata per Illumination Cassettes [°C] 24 38 Daylight tubes [W/m ²] 23 36 Fluora@ growth lamps [W/m ²] 23 43 Arabidopsis lamps [W/m ³] 1000 1000 Letrical data 24 3.5 <td>Net weight of the unit (empty) [kg]</td> <td>214</td> <td>374</td>	Net weight of the unit (empty) [kg]	214	374
Performance Data Temperature 1060 1060 Temperature range with 100% illumination [°C] 070 070 Temperature range without illumination cassettes [°C] 070 070 Performance Data Climate 1060 2060 Temperature range with 100% illumination [°C] 1070 1070 Temperature range with 100% illumination [°C] 1060 2060 Temperature range with 100% illumination cassettes [°C] 1070 1070 Humidity range with illumination cassettes [°C] 1075 1075 Humidity range with illumination [% RH] 1080 1080 Lightdata per Illumination Cassettes 24 38 Daylight tubes [W/m ²] 23 36 Fluora@ growth lamps [W/m ²] 32 43 Arabidop	permitted load [kg]	100	150
Temperature range with 100% illumination [°C] 1060 1060 Temperature range without illumination cassettes [°C] 070 070 Performance Data Climate 1060 2060 Temperature range with 100% illumination [°C] 1060 2060 Temperature range without illumination [°C] 1060 2060 Temperature range without illumination cassettes [°C] 1070 1070 Humidity range without illumination [% RH] 1080 1080 1080 Lightdata per Illumination Cassettes 24 38 300 Daylight tubes [k]/m²] 23 36 31 Floora@ growth lamps [k]/m²] 32 43 43 Arabidopsis lamps [k]/m	Load per rack [kg]	30	45
Temperature range without illumination cassettes [°C]070070Performance Data Climate10602060Temperature range with 100% illumination [°C]10701070Temperature range without illumination cassettes [°C]10701070Humidity range without illumination cassettes [°C]10701070Humidity range without illumination cassettes, with illumination [% RH]10751075Humidity range without illumination [% RH]10801080Lightdata per Illumination Cassettes10801080Daylight tubes [W/m²]2438Daylight tubes [W/m²]2336Fluora@ growth lamps [W/m²]2336Fluora@ growth lamps [k]1050010500Arabidopsis lamps [k]1100014000Electrical data1100014000Fluora@2.43.5Fixtures1515Wumber of shelves (std./max.)2/73/12	Performance Data Temperature		
Performance Data Climate Temperature range with 100% illumination [°C] 1060 2060 Temperature range with 100% illumination cassettes [°C] 1070 1070 Humidity range with illumination cassettes, with illumination [% RH] 1075 1075 Humidity range without illumination [% RH] 1080 1080 Lightdata per Illumination Cassettes 1080 1080 Lightdata per Illumination Cassettes 24 38 Daylight tubes [W/m²] 23 36 Pluora@ growth lamps [W/m²] 23 36 Fluora@ growth lamps [k] 1000 10500 Arabidopsis lamps [W/m²] 32 43 Arabidopsis lamps [k] 1000 14000 Electrical data 24 3.5 Fixtures 24 3.5	Temperature range with 100% illumination [°C]	1060	1060
Temperature range with 100% illumination [°C]10602060Temperature range without illumination cassettes [°C]10701070Humidity range with illumination cassettes, with illumination [% RH]10751080Humidity range without illumination [% RH]10801080Lightdata per Illumination Cassettes2438Daylight tubes [W/m²]2436Daylight tubes [k]900013000Fluora@ growth lamps [W/m²]2336Fluora@ growth lamps [k]750010500Arabidopsis lamps [k]100014000Electrical data1100014000Fluora@2.43.5Fixtures243.5Fixtures243.5	Temperature range without illumination cassettes [°C]	070	070
Temperature range without illumination cassettes [°C]10701070Humidity range with illumination cassettes, with illumination [% RH]10751075Humidity range without illumination [% RH]10801080Lightdata per Illumination Cassettes2438Daylight tubes [W/m²]2438Daylight tubes [k]900013000Fluora@ growth lamps [W/m²]2336Fluora@ growth lamps [k]750010500Arabidopsis lamps [W/m²]3243Arabidopsis lamps [k]1100014000Electrical data243.5Fixures2.43.5	Performance Data Climate		
Humidity range with illumination cassettes, with illumination [% RH] 1075 1075 Humidity range without illumination [% RH] 1080 1080 Lightdata per Illumination Cassettes 24 38 Daylight tubes [W/m²] 24 36 Fluora® growth lamps [W/m²] 23 36 Fluora® growth lamps [lx] 7500 10500 Arabidopsis lamps [W/m²] 32 43 Arabidopsis lamps [lx] 11000 14000 Electrical data 2.4 3.5 Fixtures 2.4 3.5	Temperature range with 100% illumination [°C]	1060	2060
Humidity range without illumination [% RH] 1080 1080 Lightdata per Illumination Cassettes 24 38 Daylight tubes [W/m²] 24 36 Daylight tubes [lx] 9000 13000 Fluora® growth lamps [W/m²] 23 36 Fluora® growth lamps [lx] 7500 10500 Arabidopsis lamps [W/m²] 32 43 Electrical data 11000 14000 Electrical data 2.4 3.5 Fixtures 2.4 3.5	Temperature range without illumination cassettes [°C]	1070	1070
Lightdata per Illumination CassettesDaylight tubes [W/m²]2438Daylight tubes [lx]900013000Fluora® growth lamps [W/m²]2336Fluora® growth lamps [lx]750010500Arabidopsis lamps [W/m²]3243Arabidopsis lamps [lx]1100014000Electrical data2.43.5Fixtures5.45.5Number of shelves (std./max.)2/73/12	Humidity range with illumination cassettes, with illumination [% RH]	1075	1075
Daylight tubes [W/m²] 24 38 Daylight tubes [lx] 9000 13000 Fluora® growth lamps [W/m²] 23 36 Fluora® growth lamps [lx] 7500 10500 Arabidopsis lamps [W/m²] 32 43 Arabidopsis lamps [lx] 11000 14000 Electrical data 2.4 3.5 Fixtures 2.4 3.5	Humidity range without illumination [% RH]	1080	1080
Daylight tubes [lx] 9000 13000 Fluora® growth lamps [W/m²] 23 36 Fluora® growth lamps [lx] 7500 10500 Arabidopsis lamps [W/m²] 32 43 Arabidopsis lamps [lx] 11000 14000 Electrical data 2.4 3.5 Fixtures 2.4 3.5	Lightdata per Illumination Cassettes		
Fluora® growth lamps [W/m²] 23 36 Fluora® growth lamps [lx] 7500 10500 Arabidopsis lamps [W/m²] 32 43 Arabidopsis lamps [lx] 11000 14000 Electrical data 2.4 3.5 Fixtures 27 3/12	Daylight tubes [W/m²]	24	38
Fluora® growth lamps [lx] 7500 10500 Arabidopsis lamps [W/m²] 32 43 Arabidopsis lamps [lx] 11000 14000 Electrical data 2.4 3.5 Fixtures 500 11000 14000 State of shelves (std./max.) 2/7 3/12	Daylight tubes [lx]	9000	13000
Arabidopsis lamps [W/m²] 32 43 Arabidopsis lamps [lx] 11000 14000 Electrical data 2.4 3.5 Fixtures 5 5 Number of shelves (std./max.) 2/7 3/12	Fluora® growth lamps [W/m²]	23	36
Arabidopsis lamps [lx] 11000 14000 Electrical data 2.4 3.5 Nominal power (version 230 V) [kW] 2.4 3.5 Fixtures 2/7 3/12	Fluora® growth lamps [lx]	7500	10500
Electrical data Nominal power (version 230 V) [kW] 2.4 3.5 Fixtures Number of shelves (std./max.) 2/7 3/12	Arabidopsis lamps [W/m²]	32	43
Nominal power (version 230 V) [kW] 2.4 3.5 Fixtures Number of shelves (std./max.) 2/7 3/12	Arabidopsis lamps [lx]	11000	14000
Fixtures 2/7 3/12	Electrical data		
Number of shelves (std./max.) 2/7 3/12	Nominal power (version 230 V) [kW]	2.4	3.5
	Fixtures		
Number of illumination cassettes (std./max.) 2/2 3/3	Number of shelves (std./max.)	2/7	3/12
	Number of illumination cassettes (std./max.)	2/2	3/3

LIGHT SPECTRA





DIMENSIONS incl. fittings and connections [mm]



ORDERING INFORMATION [Art. No.]

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

Voltage	Option model	KBWF 240	KBWF 720
200240 V 1 50 Hz	Standard	9020-0336	9020-0337

▶ You will find a selction of options, accessories and services suitable for each product on page 12



EXCERPT FROM OPTIONS AND ACCESSORIES

Access port with silicone plug	For introducing external measuring instruments. Large selection of different diameters and positions (left, right, or top) Series KBW, KBWF
Data Logger Kit TH	Independent temperature and humidity data logging. The tailored product solution contains helpful accessories: From the magnetic mounting of the data logger to the BINDER unit and securing sensor cable for accurate readings. Series KBW, KBWF
Interior socket	Waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding plug (nominal voltage; max. 500 W; max. 90 °C; protection class IP67) Series KBW, KBWF
Illumination	Illumination cassettes equipped with FLUORA®, Arabidopsis, or daylight fluorescent tubes. Series KBW, KBWF
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 KBW, KBWF
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 KBW, KBWF







Data Logger





Shaker operation in the chamber

Illumination variants

BINDER products

CO₂ incubato	rs
Incubators	
Cooling incul	
Growth cham	bers
Ultralow tem	perature freezers
Drying and h	eating chambers
Safety drying	g chambers
Vacuum dryiı	ng chambers
Constant clin	nate chambers
Dynamic clim	ate chambers
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