

Model BF 115 | Standard-Incubators with forced convection

The BINDER incubator of the BF Avantgarde.Line series with forced convection is suitable for all gentle incubation applications, particularly under a full load and large batch throughputs. This incubator is extremely homogeneous and has quick recovery times.

BENEFITS

- Excellent temporal and spatial temperature accuracy
- High process reliability
- 100 °C disinfection routine



Model 115

MAIN FEATURES

- Temperature range: +8 °C above ambient temperature to +100 °C
- High temperature accuracy thanks to APT.line[™] technology
- Forced convection
- Controller with LCD display
- Electromechanical control of the exhaust air flap
- Inner door made of tempered safety glass



Model 115

- 2 chrome-plated racks
- Stackable
- Class 3.1 integrated independent temperature safety device (DIN 12880) with visual alarm
- Ergonomic handle design
- USB port for recording data

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
114	230 V 1~ ph 50/60 Hz	Standard	BF115-230V	9010-0315
	120 V 1~ ph 60 Hz	Standard	BF115UL-120V	9010-0316

TECHNICAL DATA

Description	BF115-230V ¹	BF115UL-120V ⁴
Article Number	9010-0315	9010-0316
Performance Data Temperature		
Temperature range +8 °C above ambient temperature to [°C]	100	100
Temperature variation at 37 °C [± K]	0.3	0.3
Temperature fluctuation at 37 °C [± K]	0.1	0.1
Heating-up time to 37 °C [min]	8	8
Recovery time after 30 seconds door open at 37 °C [min]	3	3

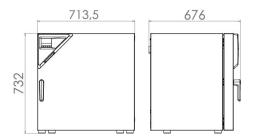
1 All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10%. The temperature data is determined to BINDER factory standard following DIN 12880, observing the recommended wall clearances of 10 % of 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.



escription	BF115-230V ¹	BF115UL-120V ¹
rticle Number	9010-0315	9010-0316
lectrical data		
ated Voltage [V]	230	120
ower frequency [Hz]	50/60	60
ominal power [kW]	0.4	0.4
nit fuse [A]	6.3	12.5
hase (Nominal voltage)	1~	1~
leasures		
nterior volume [L]	114	114
et weight of the unit (empty) [kg]	56	56
ermitted load [kg]	150	150
oad per rack [kg]	30	30
/all clearance back [mm]	160	160
/all clearance sidewise [mm]	100	100
nternal Dimensions		
/idth [mm]	550	550
eight [mm]	550	550
epth [mm]	380	380
oors		
nit doors	1	1
ousing dimensions not incl. fittings and connections		
/idth net [mm]	710	710
eight net [mm]	725	725
epth net [mm]	605	605
nvironment-specific data		
ound-pressure level [dB(A)]	43	43
ixtures		
umber of shelves (std./max.)	2/5	2/5

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 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

Description	*	ArtNo.
left		
10 mm	01	8012-1274
30 mm	01	8012-1156
50 mm	01	8012-1164
right		
10 mm	01	8012-126;
30 mm	01	8012-1153
50 mm	01	8012-1162
top		
10 mm	01	8012-126
30 mm	01	8012-1150
50 mm	01	8012-1159
100 mm	01	8012-116
Switchable acoustic alarm, with adjustable limit value on the independent temperature safety device	-	8012-163
for temperature values (output not adjustable)	02	8012-162
for temperature; for extending the measurement in center of chamber to include another test temperature	-	8012-1111
for temperature, measurement in center of chamber at specified temperature	-	8012-1130
temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-159
temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-156
temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-154
battery-backed	-	8012-163
lockable door handle	-	8012-166
for Multi Management Software APT-COM™	-	8012-099
Incl. additional measures for the greatest possible impermeability to gas; not in conjunction with access port or interior lighting option	_	8012-104
With gas inlet and outlet, Ø 10 mm, incl. additional measures for the greatest possible impermeability to gas; not in conjunction with access port or interior lighting option	-	8012-104
additional flexible Pt 100, interior, for displaying the temperature on the unit display	_	8012-161
	left 10 mm 30 mm 50 mm right 10 mm 30 mm 50 mm 10 mm 30 mm 50 mm top 10 mm 30 mm 50 mm 10 omm 30 mm 50 mm 100 mm 30 mm 50 mm 100 mm Switchable acoustic alarm, with adjustable limit value on the independent temperature safety device for temperature values (output not adjustable) for temperature; for extending the measurement in center of chamber to include another test temperature for temperature, measurement in center of chamber at specified temperature temperature measurement incl. certificate, 15 - 18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature battery-backed lockable door handle for Multi Management Software APT-COM™ Incl. additional measures for the greatest possible impermeability to gas; not in conjunction with access port or interior lighting option With gas inlet and outlet, Ø 10 mm, incl. additional measures for the grea	left 10 mm 30 mm 31 50 mm 31 10 mm 30 mm 32 mm 33 mm 34 mm 35 mm 35 mm 35 mm 36 mm 37 mm 37 mm 38 mm 39 mm 39 mm 30 mm 31 mm 32 mm 32 mm 32 mm 32 mm 33 mm 34 mm 35 mm 35 mm 35 mm 36 mm 36 mm 37 mm 37 mm 38 mm 39 mm 39 mm 30 mm

* Notes > See last page

ACCESSORIES

Designation	Description	*	ArtNo.
APT-COM™ 4 BASIC-	for simple logging and documentation requirements with up to 5 networked units.		
Edition	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
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	_	1002-0016
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* Notes > See last page

BINDER

Data Sheet Model BF 115

BINDER

Designation	Description	*	ArtNo.
	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	-	7057-000
Qualification de sumante	Hard copy inside folder	-	7007-000
Qualification documents	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	-	7057-000
	Hard copy inside folder	-	7007-000
Deale	chrome plated	-	8012-2040
Rack	stainless steel	-	6004-0151
Rubber pads	set anti-slip feet	-	8012-2030
Shelf, perforated	Stainless steel	-	6004-018
Table on castors	stable cart, casters with locking brakes, dimensions: W 1,000 x D 800 x H 780 mm	_	9051-0018

* Notes > See last page

SERVICES

Description	*	ArtNo.
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
Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0500
Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts	05	DL20-0710
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 test temperature specified by the user in the center of the usable space, including certificate	05	DL20-0910
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	DL20-0200
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	DL20-0810
Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
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
Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0118
Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0127
Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0109
Execution of IQ/OQ in accordance with qualification folder	05	DL40-0100
Execution of IQ/OQ/PQ in accordance with qualification folder	05	DL44-0500
The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0010
	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) Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts 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 test temperature specified by the user in the center of the usable space, including certificate One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical and electrical components, testing of all key functions, calibration of one test temperature specified by the user in the center of usable space without certificate Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, testing of all key functions, calibration of one test temperature specified by the user in center of usable space without certificate Calibration of one (1) test temperature specified by the user in center of chamber, including certificate Extension of calibration of one (1) additional test temperature specified by the user, including certificate Temperature measurement with 18 measuring points with a set value specified by the user, including certificate Execution of IQ/OQ/PQ in accordance with qualification folder Execution of IQ/OQ/PQ in accordance with qualification folder	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) os Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming os Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts os 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 test temperature specified by the user in the center of the usable space, including certificate os 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 os Maintenance service as contractually agreed, visual inspection of mechanical and electricat components, check of control response, 20% discount on spare parts, testing of all key functions, calibration of one (a) test temperature specified by the user in center of chamber, including certificate os Calibration of one (a) test temperature specified by the user in center of chamber, including certificate os, oa, oa, oa, oa, oa, oa, oa, oa, oa, oa

* 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. 01
- 02
- Sensor calibration is performed in an accredited calibration laboratory. 03
- Calibration is performed according to the BINDER factory standard. 04
- 05 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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