



BD series: Incubators with gravity (natural) convection

BD series test chambers are specially designed for long-term and stable continuous operation. Ideal for gentle incubation of organisms, such as on agar plates, and also for conditioning of heat sensitive media.



Model BD 23







► Performance features and equipment

- Electronically controlled APT.line™ preheating chamber technology
- Temperature range of 5 °C (9 °F) above ambient temperature up to 100 °C (212 °F)
- DS controller with integrated timer 0 to 99 hours
- Digital temperature setting with an accuracy of a tenth of a degree
- Independent adjustable temperature safety device, Class 3.1 (DIN 12880), with visual alarm
- Adjustable ventilation by means of rear exhaust duct, 50 mm (2 inch) diameter with ventilation flap and front ventilation slide
- Inner glass door
- RS 422 interface for communication software APT-COM™ DataControlSystem
- Units up to 115 liters (4.1 cu.ft.) are stackable
- 2 chrome-plated racks
- BINDER test certificate



Model BD 53

Technical specification BD series

						
	BD 23	BD 53	BD 115	BD 240	BD 400	BD 720
▶ Exterior dimensions						
Width (mm/inch)	433/17.05	634/24.96	834/32.83	1034/40.71	1234/48.58	1234/48.58
Height (inclusive feet/castors) (mm/inch)	492/19.37	617/24.29	702/27.64	822/32.36	1022/40.24	1528/60.16
Depth (mm/inch)	516/20.31	575/22.64	645/25.39	745/29.33	765/30.12	865/34.06
plus door handle, I-panel and exhaust duct (mm/inch)	90/3.54	90/3.54	90/3.54	90/3.54	90/3.54	90/3.54
Wall clearance rear (mm/inch)	100/3.94	100/3.94	100/3.94	100/3.94	100/3.94	100/3.94
Wall clearance side (mm/inch)	100/3.94	160/6.30	160/6.30	160/6.30	160/6.30	160/6.30
Steam space volume (l/cu.ft.)	36/1.27	70/2.47	142/5.02	283/10.0	457/16.15	808/28.55
Quantity of doors	1	1	1	2	2	2
▶ Interior dimensions						
Width (mm/inch)	222/8.74	400/15.75	600/23.62	800/31.50	1000/39.37	1000/39.37
Height (mm/inch)	330/12.99	400/15.75	480/18.90	600/23.62	800/31.50	1200/47.24
Depth (mm/inch)	277/10.91	330/12.99	400/15.75	500/19.69	500/19.69	600/23.62
Interior volume (l/cu.ft.)	20/0.7	53/1.9	115/4.1	240/8.6	400/14.3	720/25.7
Quantity of shelves (standard/max.)	2/3	2/4	2/5	2/7	2/10	2/15
Load per shelf (kg/lbs.)	12/26	15/33	20/44	30/66	35/77	45/99
Permitted total load (kg/lbs.)	25/55	40/88	50/110	70/155	90/199	120/265
Weight (empty) (kg/lbs.)	26/57	43/95	61/135	93/205	135/298	191/422
▶ Temperature data						
Temperature range, 5°C/9°F above ambient up to °C/°F	100/211.8	100/211.8	100/211.8	100/211.8	100/211.8	100/211.8
Temperature uniformity						
at 37°C/98.6°F (± K)	0.5	0.5	0.4	0.5	0.5	0.5
at 50°C/122°F (± K)	1.8	1.1	0.8	0.9	0.9	0.8
Temperature fluctuation						
at 37°C/98.6°F (± K)	0.2	0.1	0.1	0.1	0.1	0.1
at 50°C/122°F (± K)	0.3	0.1	0.1	0.1	0.1	0.1
Heating up time ¹⁾						
to 37°C/98.6°F (minutes)	49	38	62	70	105	84
to 50°C/122°F (minutes)	51	59	91	115	132	90
Recovery time after door was opened 30 sec ¹⁾						
at 37°C/98.6°F (minutes)	3	5	5	5	6	4
at 50°C/122°F (minutes)	4	7	7	6	29	24
▶ Electrical data						
Housing protection acc. to EN 60529	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Nominal voltage (±10 %) 50/60 Hz (V)	230	230	230	230	230	230
Nominal power (kW)	0.2	0.4	0.4	0.68	0.85	1.25
Energy consumption at 37°C / 98.6°F (W)	11	11	20	33	56	80

¹⁾ up to 98% of the set value

All technical data are specified for units with standard equipment at an ambient temperature of +25 °C and a voltage fluctuation of ±10 %. The temperature data are determined in accordance to factory standard following DIN 12880 respecting 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 alter technical specifications at all times.