



ED series: Drying ovens with natural convection

Reliable drying and sterilization tasks, precise warm storage.



► Performance features and equipment:

- Electronically-controlled APT.line® preheating chamber technology with natural convection
- Temperature range of 5 °C above ambient temperature up to 300 °C
- DS-controller with integrated timer 0 to 99 hours
- Digital temperature setting with degree accuracy
- One ramp function
- Adjustable safety device, Class 2 (DIN 12880), with visual temperature alarm
- Adjustable ventilation by means of rear exhaust duct Ø 50 mm with ventilation flap and front ventilation slide
- 2 chrome-plated shelves
- Units up to 115 liters are stackable
- Optional RS 422 interface for communication software APT-COM® DataControlSystem

► Only at BINDER: Precision regardless of size – the 20-liter bench-top units.



Technical data ED series



	ED 23	ED 53	ED 115	ED 240	ED 400	ED 720
▶ Exterior dimensions						
Width (mm/inch)	433 / 17.1	634 / 25.0	834 / 32.8	1034 / 40.7	1234 / 48.6	1234 / 48.6
Height (inclusive feet/castors) (mm/inch)	492 / 19.4	617 / 24.3	702 / 27.6	822 / 32.4	1022 / 40.2	1528 / 60.2
Depth (mm/inch)	516 / 20.3	575 / 22.6	645 / 25.4	745 / 29.3	765 / 30.1	865 / 34.1
plus door handle, I-panel and exhaust duct (mm/inch)	85 / 3.4	85 / 3.4	85 / 3.4	85 / 3.4	85 / 3.4	85 / 3.4
Wall clearance rear (mm/inch)	100 / 3.9	100 / 3.9	100 / 3.9	100 / 3.9	100 / 3.9	100 / 3.9
Wall clearance side (mm/inch)	100 / 3.9	160 / 6.3	160 / 6.3	160 / 6.3	160 / 6.3	160 / 6.3
Exhaust duct outer-Ø (mm/inch)	52 / 2.1	52 / 2.1	52 / 2.1	52 / 2.1	52 / 2.1	52 / 2.1
Steam space volume (l/cu.ft.)	36 / 1.3	70 / 2.5	142 / 5.0	283 / 10.0	457 / 16.2	808 / 28.6
Number of doors	1	1	1	2	2	2
▶ Interior dimensions						
Width (mm/inch)	222 / 8.7	400 / 15.8	600 / 23.6	800 / 31.5	1000 / 39.4	1000 / 39.4
Height (mm/inch)	330 / 13.0	400 / 15.8	480 / 18.9	600 / 23.6	800 / 31.5	1200 / 47.2
Depth (mm/inch)	277 / 10.9	330 / 13.0	400 / 15.8	500 / 19.7	500 / 19.7	600 / 23.6
Interior volume (l/cu.ft.)	20 / 0.7	53 / 1.9	115 / 4.1	240 / 8.6	400 / 14.3	720 / 25.7
Shelves, chrome-plated (number standard/max.)	2/3	2/5	2/6	2/7	2/10	2/16
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 of the unit (empty) (kg/lbs.)	25 / 55	42 / 93	57 / 126	86 / 190	125/276	174 / 384
▶ Temperature data						
Temperature range, 5 °C/41 °F above ambient up to (°C/°F)	300 / 572	300 / 572	300 / 572	300 / 572	300 / 572	300 / 572
Temperature variation ¹⁾						
at 70 °C (± °C)	1.5	2	1.5	1.5	1.7	1.5
at 150 °C (± °C)	2.5	3.2	2.5	2.5	3	2.8
at 300 °C (± °C)	3.8	4.5	4.5	5.0	5.0	5.0
Temperature fluctuation (± °C)	0.3	0.3	0.3	0.3	0.3	0.3
Heating-up time ²⁾						
to 70 °C (Min.)	13	14	15	40	49	56
to 150 °C (Min.)	24	27	29	48	62	69
to 250 °C (Min.)	35	61	66	61	74	80
Recov. time after door was opened for 30 sec. ²⁾						
at 70 °C (Min.)	2.5	2	2	5	4	4
at 150 °C (Min.)	5	6	9	13	20	14
at 300 °C (Min.)	8	11	14	18	24	18
Air change						
at 70 °C (x/h)	8	8	12	11	11	10
at 150 °C (x/h)	19	19	10	10	10	9
at 300 °C (x/h)	20	20	10	9	9	8
▶ Electrical data						
Housing protection acc. to EN 50529	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Nominal voltage (± 10 %) 50/60 Hz (V)	230	230	230	230	400 3/N	400 3/N
Nominal power (W)	800	1200	1600	2700	3400	5000
Energy consumption						
at 70 °C (W)	56	56	90	143	201	220
at 150 °C (W)	188	188	300	447	672	750
at 300 °C (W)	320	320	360	700	1000	1200

¹⁾ value without window ²⁾ 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 DIN 12880, part 2 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.