

# VENTICELL

## Laboratory drying oven

Due to a patented ventilation system the air within the Venticell-chamber is ventilated in a regular spiral way. This leads to a homogeneous temperature profile throughout the chamber and short heating times. Operating economy is ensured by higher rate and precision of heating in laboratories. Especially suitable for very moist goods.

**Volume:**

55, 111, 222, 404, 707 litres

**Working temperature:**

10°C above ambient temperature up to 250°C-300°C

**Interior:**

stainless steel, mat. no. 1.4301 (AISI 304)



Venticell with forced air convection 250°C and 300°C

### The versatile standard line with microprocessor control unit

- 3 programs
- RS-232 interface for printer or PC-communication
- delayed heating start and stop function
- acoustic alarm
- time range 99 hours 59 minutes
- mechanic safety thermostat class 2



**Options:**

- door window and interior lighting
- access ports diameter 25, 50, 100 mm
- door lock
- left door versions (excluded volume 707 l)
- separate PT100-sensor and display
- communication software for PC (Windows)
- HEPA-filter for installation in air inlet
- two-door (passing through) version (available only with types volume 404 l)
- temperature range expansion up to 300°C

standard line

### The high-tech comfort line with multi-functional microprocessor control unit

- 6 programs
- chip card system for individual program storage
- RS-232 interface for printer or PC-communication
- delayed heating start and stop function
- acoustic alarm
- time range 0-16 years with 1 min-intervals
- digital safety thermostat class 3
- real time
- programming temperature ramps
- heating sequences
- programme cycles
- adjustable ventilation rate 10 to 100 %



**Options:**

- door window and interior lighting
- access ports diameter 25, 50, 100 mm
- door lock
- left door versions (excluded volume 707 l)
- communication software for PC (Windows)
- HEPA-filter for installation in air inlet
- potential-free alarm contact
- independent temperature measuring through PT100-sensor (with indication on LCD display or PC)
- two-door (passing through) version (possible only by types with volume 404 l)
- temperature range expansion up to 300°C

comfort line

## Technical data

Technical data		Models	55	111	222	404	707
Interior of stainless steel material No. 1.4301	volume	cca ltrs	55	111	222	404	707
	width	cca mm	400	540	540	540	940
	depth	cca mm	390	390	540	540	540
	height	cca mm	350	530	760	1410	1410
Tray	racks	max. No.	4	7	10	19	19
	standard equipment	pcs. included	2	2	2	2	2
Maximal weight of the load <sup>*)</sup>	per tray	max. kg	20	20	30	30	50
	inside the oven	max. kg	50	50	70	100	130
Door		No.	1	1	1	1	2
External dimensions (including door and handle)	width	cca mm	620	760	760	760	1160
	depth	cca mm	640	640	790	790	790
	height (incl. Foots and Rolls)	cca mm	680F	860F	1100F	1910R	1910R
	diameter of the air branch outer/inner	cca mm	52/49	52/49	52/49	52/49	52/49
Package dimensions (three layers carton)	width	cca mm	710	850	850	850	1250
	depth	cca mm	720	730	860	860	910
	height (incl. palette)	cca mm	900	1080	1320	2150	2150
Mass	net	max. kg	55	75	100	150	215
	brut	max. kg	61	84	117	165	233
Working temperature (beginning of the regulation)**		from 10 °C above ambient temp. to °C	250/300	250/300	250/300	250/300	250/300
Temperature accuracy according to DIN 12 880 T2, at working temperature with closed air flap and door, > 50 °C	space deviation	cca (±)% of the reached temperature	1	1	1	1,5	2,5
	time variation	cca ± °C	0,4	0,4	0,4	0,4	0,4
Time required to reach 250 °C with closed air flap and voltage 230 V		cca min.	49	53	70	58	64
Heat emission at 250 °C		cca W	590	760	990	1940	2550
Air exchange speed at 150 °C		cca/hour	45	49	24	18	12
Electricity -mains 50/60 Hz	max. power input	cca kW	1,3	1,9	1,9	3,7	4,9
	stand by	cca W	5	5	5	5	5
	current	A	5,6	8,3	8,3	5,2; 5,2; 5,2	5,2; 5,2; 10,4
	nominal voltage	V	230	230	230	400/3N	400/3N

<sup>\*)</sup> Approx. 50% of the tray area can be filled in a way a uniform air circulation is enabled inside the chamber.

<sup>\*\*)</sup> Standard type is up to 250 °C, optional type is up to 300 °C.

Note: All technical data are related to 22 °C ambient temperature and ± 10% voltage swing (if not specified). Changes in the design and make reserved.

Cardboard

Non-wovens

Packaging

Paper

Plastics

Printing Inks

Pulp

Textile

Agent