

VENTICELL

with forced air convection



Laboratory drying ovens

Due to a patented ventilation system the air within the VENTICELL-chamber is ventilated in a regular spiral way. This leads to a homogenous 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:

22, 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)

The versatile standard line with microprocessor control unit

- 3 adjustable programs
- RS 232 – interface for printer or PC-communication
- delayed heating start and stop function
- acoustic and visual alarm of error state
- time range 99 hours 59 minutes
- digital safety thermostat
- manual control of the suction flap and the air exhaust flap
- adjustable ventilation rate 50–100%



Options

- door window and interior lighting (excluded volume 22 litres)
- access ports Ø 25, 50, 100 mm (Ø 100 mm is not available for 22-litres volume)
- door lock
- left door versions (excluded volume 22 and 707 litres)
- special software WarmComm
- HEPA - filter for installation in air inlet
- two-door (passing through) version (possible only by types with volume 222, 404 and 707 litres)
- temperature range enlargement up to 300 °C
- stainless steel casing of the device
- PT100 sensor (with representation on a display or PC)

... 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 and visual alarm of error state
- time range 0–40 years with 1 min-intervals
- digital safety thermostat
- real time
- programming temperature ramps
- heating sequences
- programme cycles
- adjustable ventilation rate 10 to 100 %
- manual control of the air exhaust flap
- keyboard blocking
- door opening control



Options

- door window and interior lighting (excluded volume 22 litres)
- access ports Ø 25, 50, 100 mm (Ø 100 mm is not available for 22-litres volume)
- door lock
- left door versions (excluded volume 22 and 707 litres)
- special software WarmComm
- HEPA-filter for installation in air inlet
- potential-free alarm contact
- PT100 sensor
- two-door (passing through) version (possible only by types with volume 222, 404 and 707 litres)
- temperature range enlargement up to 300 °C
- stainless steel casing of the device

... comfort line

Technical data		Models	22	55	111	222	404	707
Interior of stainless steel material No. 1.4301	volume	cca ltrs	22	55	111	222	404	707
	width	cca mm	240	400	540	540	540	940
	depth	cca mm	320	390	390	540	540	540
	height	cca mm	295	350	530	760	1410	1410
Trays	racks	max. No.	4	4	7	10	19	19
	standard equipment	pcs. included	2	2	2	2	2	2
	distance between guide rails	mm	60	70	70	70	70	70
	storage area (w x d)	mm	185x265	380x335	520x335	520x485	520x485	920x485
Maximal weight of the load ^{*)}	per tray	max. kg	10	20	20	30	30	50
	inside the oven	max. kg	25	50	50	70	100	130
Door		No.	1	1	1	1	1	2
External dimensions (including door and handle)	width	cca mm	406	620	760	760	760	1160
	depth	cca mm	560S/580C	640	640	790	790	790
	height (incl. Foots and Rolls)	cca mm	604F	680F	860F	1090F	1910R	1910R
	diameter of the air branch outer/inner	cca mm	52/49	52/49	52/49	52/49	52/49	52/49
Package dimensions (three layers carton)	width	cca mm	465	700	830	830	830	1230
	depth	cca mm	665	730	730	860	860	860
	height (incl. palette)	cca mm	655	880	1050	1280	2070	2080
Weight	netto	max. kg	31	55	75	100	150	215
	brutto	max. kg	36	66	87	116	175	240
Working temperature (beginning of the regulation)**		from 10 °C above ambient temp. to °C	250/300	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	1,2	1	1	1	1,5	2,5
	time variation	cca ± °C	0,3	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.	28	49	53	70	58	64
Heat emission at 250 °C		cca W	350	590	760	990	1940	2550
Air exchange speed at 150 °C		cca/hour	45	45	49	24	18	12
Electricity -mains 50/60 Hz	max. power input stand by	cca kW	0,96	1,3	1,9	1,9	3,7	4,9
		cca W	5	5	5	5	5	5
	current	A	4,2	5,7	8,3	8,3	5,7; 5,2; 5,2	5,7; 5,2; 10,4
				11,3	16,5	16,5	9,5; 9,9	11,9; 13,5; 11,4
nominal voltage	V		230	230	230	230	3x400+N+PE	3x400+N+PE
			115	115	115	115	3x230	3x230
						3x115	3x115	

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

***) 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.



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