

VENTICELL®

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 in error state
- time range 99 hours 59 minutes
- digital safety thermostat
- manual control of the air exhaust flap programme cycles
- adjustable ventilation rate 50–100%



Options

- door window and interior lighting (excluded volume 22 litres)
- access ports Ø 25, 50, 100 mm (Ø 50, 100 mm is not available for 22 litres volume)
- door lock
- left door versions (excluded volume 22 and 707 litres)
- HEPA-filter for installation in air inlet
- temperature range enlargement up to 300°C
- two-door (pass through) version (possible only by types with volume 55, 222, 404, and 707 l)
- special software WarmComm 4.0
- separate PT 100 sensor
- stainless steel casing of the devices

... standard line

The High-Tech Comfort Line with Multi-Functional Microprocessor Control Unit

- 6 adjustable 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 in error state
- time range 0–40 years with 1 min intervals
- digital safety thermostat
- real time
- selectable rate of temperature increase or decrease – "RAMPS"
- programming of program time segments – "SEGMENTS"
- 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 50, 100 mm is not available for 22 litres volume)
- door lock
- left door versions (excluded volume 22 and 707 litres)
- HEPA-filter for installation in air inlet
- temperature range enlargement up to 300°C
- two-door (pass through) version (possible only by types with volume 222, 404, and 707 l)
- BMS relay alarm contact
- special software WarmComm 4.0
- separate PT 100 sensor
- stainless steel casing of the devices

... comfort line

Technical data		Model	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
External dimensions (including door and handle)	width	cca mm	460	620	760	760	760	1160
	depth	cca mm	580	640	640	790	790	790
	height	cca mm	604	680	860	1090	1910	1910
	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	cca mm	655	880	1050	1280	2070	2080
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
Admissible weight of trays *)	per 1 tray	kg	10	20	20	30	30	50
	for a rack	kg	10	20	20	30	30	20
	together inside the oven	kg	25	50	50	70	100	130
Door		No.	1	1	1	1	1	2
Weight	netto	cca kg	31	55	75	100	150	215
	brutto	cca kg	36	66	87	116	175	240
Electric parameters – mains 50/60 Hz	max. power input	cca kW	0,96	1,3	1,9	1,9	3,7	4,9
	stand by	cca W	5	5	5	5	5	5
	current nominal voltage	A	4,2	5,6	8,3	8,3	5,2	7,8
		V	230	230	230	230	400/3NPE	400/3NPE
	current nominal voltage	A	8,4	11,3	16,6	16,6	18	27,1
V		115	115	115	115	115	115	
Temperature data Working temperature (beginning of the regulation) **)	VENTICELL®/ VENTICELL® PLUS	rom 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	space deviation	cca ± °C	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
Air exchange speed at 150°C		cca/hour	45	45	49	24	18	12
Heat emission at 250°C		cca W	420	590	760	990	1940	2550

*) 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.

