

VACUCELL®

With Vacuum



Laboratory drying ovens

- Temperature sensitive, easy decomposable or oxidative materials can be dried very tenderly in VACUCELL® vacuum drying ovens, where there is the opportunity of extrusion of air by inert gas. Also complicated components with hardly accessible hollow spaces are drying quick and effectively in VACUCELL® ovens. Ideal for drying of samples to constant weight. Special application of the device is possible mainly in the fields of plastics processing, pharmaceutical, chemical, electro technical and other industries.

- **Volume:** 22, 55, 111 litres
- **Working temperature:** 5°C above ambient temperature up to 200°C
- **Door window**
- **Integrated duct for sensors etc.** (Ø 40 mm)
- **Inert gas connection**
- **Needle valve for fine dosing**
- **Pressure resistant inner chamber**
- **Safety valve-door VENTIFLEX**
- **Interior:** stainless steel, mat. No. 1.4571 (AISI 316Ti)

The Versatile Standard Line with Microprocessor Control Unit

Options

- 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



- base box Vacustation
- chemically resistant vacuum pump
- chemically resistant vacuum pump with inlet separator and exhaust condenser
- built-in vacuum control system
- Electronic pressure measuring and indication on the display
- 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

Options

- 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
- manual control of the air exhaust flap
- keyboard blocking
- door opening control



- base box Vacustation
- chemically resistant vacuum pump
- chemically resistant vacuum with inlet separator and exhaust condenser
- built-in vacuum control system
- Electronic pressure measuring and indication on the display
- BMS relay alarm contact
- special software WarmComm 4.0
- separate PT 100 sensor
- stainless steel casing of the devices

... comfort line

Specifications		Model	22	55	111
Interior of stainless steel material DIN 1.4571 (AISI316TI)	volume	litres	22	55	111
	width	mm	340	400	540
	depths	mm	260	320	410
	height	mm	300	430	480
External dimensions (including door and handle)	width	cca mm	560	620	760
	depths	cca mm	490	550	640
	height	cca mm	700	830	880
Package dimensions (three layers carton)	width	cca mm	740	830	830
	depths	cca mm	615	635	730
	height	cca mm	915	1010	1070
Shelves	number max.	ks	5	8	9
	Pieces suppl	ks	2	2	2
	Shelves distance	mm	40	40	40
	Storage area (w x d)	mm	280x326	340x296	480x386
Admissible weight of trays	per 1 tray	kg	20	25	25
	for a rack	kg			
	together inside the oven	kg	35	45	65
Weight	netto	kg	65	98	130
	brutto	kg	76	110,5	144,5
Electric parameters – mains 50/60 Hz	max. input	kW	0,8	1,2	1,8
	input in stand by mode	W	5	5	5
	current nominal voltage	A	4	5	8
		V	230	230	230
	current nominal voltage	A	7	10,5	15,7
		V	115	115	115
Temperature data Working temp (regulation start)	from 5°C over ambient temp to °C		200	200	200
Temp. deviations acc. to DIN 12 880 from working temp – Al shelves pressure 5–10 mbar	accuracy in space at 100°C	°C	2	2	3
	accuracy in space at 200°C	°C	<5	<6	<7
	in time	± °C	0,4	0,4	0,4
Temp. deviations acc. to DIN 12 880 from working temp – steel shelves pressure 5–10 mbar	accuracy in space at 100°C	± °C	10	10	11
	accuracy in space at 200°C	± °C	18	23	*
	in time	± °C	0,5	1,0	1,0
Time of rise onto 98% voltage 230 V – Al shelves pressure 5–10 mbar	onto temp 100°C	min	60	65	110
	onto temp 200°C	min	80	85	130
Time of rise onto 98% voltage 230 V – steel shelves, pressure 5–10 mbar	onto temp 100°C	min	130	140	170
	onto temp 200°C	min	170	180	220
Heat radiation	at 100°C	W	150	260	370
	at 200°C	W	300	520	750
Vacuum connection	vacuum connection measuring	DN mm	16	16	16
	feedthrough needle valve for	DN mm	40	40	40
	inert gas or air	Ø mm	8	8	8
	max. reached vacuum	mbar	5.10 ⁻⁴	5.10 ⁻⁴	5.10 ⁻⁴
	chamber leakage	mbar.l.s ⁻¹	5.10 ⁻³	5.10 ⁻³	5.10 ⁻³

*) not measured

Note: All technical data are related to 22°C of ambient temperature and ±10% voltage swing rate ventilator 100%, defrost off, lighting off. Changes in the design and make reserved.

