VACUCELL

with vacuum





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 affectively in VACUCELL ovens.

Volume:

22, 55, 111 litres

Working temperature: 5°C above ambient

temperature up to 200 °C

Door window

Intergrated duct for sensors etc. (\varnothing 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 316 Ti)

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



Options

- cbase box Vacustation
- chemicaly resistant vacuum pump
- chemicaly resistang vacuum pump with inlet separator and exhaust condenser
- external vacuum control system
- special software WarmComm
- 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 of error state
- time range 0-40 years with 1 min-intervals
- · digital safety thermostat
- real time
- programming temperature ramps
- heating sequences
- programme cycles



Options

- base box Vacustation
- chemicaly resistant vacuum pump
- chemicaly resistant vacuum pump with inlet separator and exhaust condenser
- built-in vacuum control system
- special software WarmComm
- BMS relay alarm contact
- separate PT 100 sensor
- stainless steel casing of the device
- electronic measurement of pressure with indication on a display

c omfort line



Specifications			Model	22	55	111
Interior of stainless	volume		cca litres	22	55	111
steel material	width		cca mm	340	400	540
DIN 1.4571 (AISI316TI)	depths		cca mm	260	320	410
	height		cca mm	300	430	480
Shelves	Shelves guides-impressions in the					
	chamber side walls		number max.	5	8	9
	number		Pieces suppl	2	2	2
Shelves distance	height		mm	40	40	40
Usefull dim. of shelf	width x depths		mm	280 x 236	340 x 296	480 x 386
Max. permissible load of	one shelf		kg	20	25	25
the shelves	totally per unit		kg	35	45	65
External dimensions	width		cca mm	560	620	760
(including door and	depths		cca mm	490	550	640
handle)	height		cca mm	700	830	880
Package dimensions	width		cca mm	740	830	830
(three layers carton)	depths		cca mm	615	635	730
	height		cca mm	915	1010	1070
Weight	netto		cca kg	65	98	130
	brutto		cca kg	76	110,5	144,5
Electric parameters	max. input		kW	0,8	1,2	1,8
– mains 50/60 Hz	input in stand by mode		W	5	5	5
	current		A	3,5	5,2	7,8
	nominal voltage		V	230	230	230
Temperature data Working temp (regulation start)	from 5 °C over ambient temp to °C			200	200	200
Temp. deviations acc. to	at 100 °C	accuracy	1 00	2	2	3
DIN 12 880 from	at 200 °C	in space	do ± °C	<5	<6	<7
working temp – Al shelves		accuracy	1 00	0.4	0.4	0.4
pressure 5-10 mbar**		in time	do ± °C	0,4	0,4	0,4
Temp. deviations acc. to	at 100 °C	accuracy	do . 0C	10	10	11
DIN 12 880 from	at 200 °C	in time	do ± °C	18	23	*
working temp — Al shelves pressure 5—10 mbar**		accuracy in time	do ± °C	0,5	1,0	1,0
Time of rise onto 98 %	onto temp 100 °C		min	60	65	110
voltage 230 V – (Al shelves pressure 5–10 mbar)	onto temp 200 °C		min	80	85	130
Time of rise onto 98 %	onto temp 100 °C		min	130	140	170
voltage 230 V – steel	onto temp 200 °C		min	170	180	220
shelves, pressure 5–10 mbar Heat radiation	at 100 °C		W	150	260	370
Hoat Taulation	at 200 °C		W	300	520	750
Vacuum connection	vacuum connection measuring		DN mm	16	16	16
vacaum comiculom	feedthrough needle valve for		DN mm	40	40	40
	inert gas or air	<u> </u>		8	8	8
	max. reached vacuum		∅ mm mbar	5.10 ⁻⁴	5.10 ⁻⁴	5.10 ⁻⁴
		chamber leakage		5.10 5.10 ⁻³	5.10 5.10 ⁻³	5.10 5.10 ⁻³
	onambor rounage		mbar.l.s ⁻¹	J.10	J. 10	J. 10

The heat in vacuum is transferred to the goods on the shelves by conduction in the shelves, therefore the mentioned temperature deviations are valid for temperatures on the surface of the shelves, there must be a perfect heat-conducting contact between the temperature sensors and the shelf surface. Goods placed on the shelves must also be in a perfect contact with the shelves, the goods temperature depends especially on their physical properties and on the contact with the shelf.



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