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

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 55, 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 22, 404, and 707 l)
- BMS relay alarm contact
- special software WarmComm 4.0
- separate PT 100 sensor
- stainless steel casing of the devices
### Technical data

#### Inter dimensions

- **volume** l: 22, 55, 111, 222, 222/2
- **width** mm: 240, 400, 540, 540, 540, 540, 540, 940, 940
- **depth** mm: 320, 390, 390, 540, 540, 540, 540, 790, 790
- **height** mm: 295, 350, 530, 760, 760, 1410, 1410, 1410, 1410

#### External dimensions (including door and handle, feet F or caster C)

- **width** max. mm: 406, 620, 760, 760, 760, 760, 760, 1160, 1160
- **depth** max. mm: 580, 640, 790, 790, 790, 790, 790, 790, 790
- **height** max. mm: 604F, 680F, 1050, 1280, 1280, 1910C, 1910C, 1910C, 1910C

#### Package – dimensions (three-layers carton)

- **width** cca mm: 465, 700, 830, 830, 830, 830, 830, 1230, 1230
- **depth** cca mm: 665, 730, 730, 860, 860, 860, 860, 860, 860
- **height** (incl. palette) cca mm: 655, 880, 1050, 1280, 1280, 2070, 2070, 2080, 2080

#### Screens/shelves

- max. No. psc.: 4, 4, 7, 10, 10, 19, 19, 19, 19
- standard equipment psc.: 2, 2, 2, 2, 2, 2, 2, 2, 2
- min. distance between screens mm: 60, 70, 70, 70, 70, 70, 70, 70, 70

#### Storage area

- **storage area** mm: 185 × 265, 380 × 335, 520 × 485, 520 × 485, 520 × 485, 920 × 485, 920 × 485, 920 × 485, 920 × 485

#### Maximal load *)

- **per 1 screen** kg/screen: 10, 20, 20, 30, 30, 30, 30, 50, 50
- **for a shelf** kg/shelf: 10, 20, 20, 30, 30, 30, 30, 20, 20
- **total inside of device** kg/case: 25, 50, 50, 70, 70, 100, 100, 130, 130

#### Number of outer metal doors

- **pc:** 1, 1, 1, 1, 2, 1, 2, 2, 4

#### Weight

- nett cca kg: 31, 55, 75, 100, 105, 150, 160, 215, 230
- brutt (carton) cca kg: 36, 66, 87, 116, 121, 175, 185, 240, 255

#### Electrical data

- **max. power** kW: 0.96, 1.3, 1.9, 1.9, 3.7, 3.7, 5.5, 4.9, 7.3
- **power input [stand by]** W: 5, 5, 5, 5, 5, 5, 5, 5, 5
- **current voltage (**) A**: 4.2, 5.6, 8.3, 8.3, 5.6, 5.6, 8.3, 7.8, 15.6
- **V**: 230, 230, 230, 230, 400/3NPE, 400/3NPE, 400/3NPE, 400/3NPE, 400/3NPE
- **current voltage (**) A**: 8.4, 11.3, 16.6, 16.6, 19, 19, 28, 28, 42
- **V**: 115, 115, 115, 115, 115/3PE, 115/3PE, 115/3PE, 115/3PE, 115/3PE

#### Protective system

- **IP20**
- **IP20**
- **IP20**
- **IP20**
- **IP20**
- **IP20**
- **IP20**
- **IP20**

#### Temperature data

<table>
<thead>
<tr>
<th>Working temperature <strong>)</strong></th>
<th>from 10°C above ambient temp. to °C</th>
<th>250/300</th>
<th>250/300</th>
<th>250/300</th>
<th>250/300</th>
<th>250/300</th>
<th>250/300</th>
<th>250/300</th>
<th>250/300</th>
</tr>
</thead>
<tbody>
<tr>
<td>The temperature deviations from the working temperature when the ventilation flap and doors are closed (DIN 12 880 section 2) ****)</td>
<td>in space</td>
<td>% temp. ± °C</td>
<td>1,1</td>
<td>1</td>
<td>1</td>
<td>1,2</td>
<td>1,5</td>
<td>1,8</td>
<td>2,5</td>
</tr>
<tr>
<td>in time</td>
<td>0,3</td>
<td>0,3</td>
<td>0,4</td>
<td>0,4</td>
<td>0,4</td>
<td>0,4</td>
<td>0,4</td>
<td>0,4</td>
<td>0,74</td>
</tr>
<tr>
<td>Temperature rise time 250°C with closed air flap and at the voltage of 230 V</td>
<td>min</td>
<td>28</td>
<td>49</td>
<td>53</td>
<td>70</td>
<td>33</td>
<td>58</td>
<td>43</td>
<td>64</td>
</tr>
<tr>
<td>Air exchange rate</td>
<td>at 250°C</td>
<td>h⁻¹</td>
<td>45</td>
<td>45</td>
<td>49</td>
<td>24</td>
<td>24</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Heat emission</td>
<td>at 250°C</td>
<td>W</td>
<td>420</td>
<td>590</td>
<td>760</td>
<td>990</td>
<td>990</td>
<td>1940</td>
<td>1940</td>
</tr>
</tbody>
</table>

**Note:**

All technical data are related to 22°C ambient temperature and ± 10% voltage swing (if not specified). For other parameters see section 5.1 – Electric connections.

* 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.

*** Supply voltage is indicated on the type label of the unit.

****) Temperature deviations were measured in accordance with DIN 12 880, section 2

+ Two-door open-through model.

The values may differ depending on specific charge and media parameters. Changes in the design and make reserved.