VOGEL GmbH & Co. KG was founded in 1952 by Mr. Wilhelm Vogel and was taken over in the second generation by Marlies and Thomas Knauber in 1980. Today, the company is still a 100% family owned business. VOGEL produces, develops and sells complete systems of high quality equipment and single parts. VOGEL is a specialist in planning laboratory equipment. The product line includes exhaust systems for histolabs, sophisticated stainless steel constructions (for example: grossing-, cutting table and working table for staining) as well as lab equipment, storage cabinets for wet formalin preparations. Vogel provides planning of complete Histology Laboratories, including installation of stainless steel laboratory equipment, and exhaust air systems with and without special formalin filters.

TIMETABLE:

1972  launch of the first digital photometer module with kinetic calculator
1974  launch of the first semi-automated electrophoresis system baskets and filing cabinets as a complete system
SINCE 1973 also in the field of histology/pathology
FROM 1973 - 2005 exclusive Dealer for Sakura Tissue Tek Product Line in Germany
1980  first cassette printer
1987  introduced a new archive system for Histology while expanding the system with a whole variety of different filling systems starting from a simple box up to a shelf system
1987  introduced the first cutting table
1990  launch of the first round and square water bath also stretch table
2014  launch of the 6th generation of cassette and slide printers and also an automatic cassette printer
OCTOBER 2014 move to our new 15600 square foot building
VOGEL MEDICAL TECHNOLOGY AND ELECTRONIC:

✓ Made in Germany

✓ Customized stainless steel

✓ Individual solution for your laboratory

✓ Laboratory equipment

✓ Storage systems

✓ Cassettes and slide labelling machines

✓ Lab planning and consulting projects
<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
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<td>INITIATION</td>
<td>1-3</td>
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<td>INDEX</td>
<td>4-5</td>
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<td>NEW VOGEL PATHOLOGY</td>
<td>6</td>
</tr>
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<td>DISSECTION TABLES</td>
<td>7-8</td>
</tr>
<tr>
<td>Customisable – various equipment components available</td>
<td></td>
</tr>
<tr>
<td>CUTTING</td>
<td></td>
</tr>
<tr>
<td>Cutting Tables: “UCS-387/ 493”</td>
<td>9</td>
</tr>
<tr>
<td>Cutting Station: “UCSF-2015”</td>
<td>10</td>
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<td>Cutting Station: “UCSF-1300/ UCSA-1300”</td>
<td>11-12</td>
</tr>
<tr>
<td>Cutting Station: “UCSF-1800/ UCSA-1800”</td>
<td>14</td>
</tr>
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<td>AIR CIRCULATION TOWER</td>
<td>15</td>
</tr>
<tr>
<td>Filter operated air circulation system</td>
<td></td>
</tr>
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<td>STORAGE</td>
<td>16</td>
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<td>Preparation cabinet</td>
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</tr>
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<td>PREPARATION CABINETS</td>
<td>17</td>
</tr>
<tr>
<td>With integrated recirculating air system and filter cartridges</td>
<td></td>
</tr>
<tr>
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<td>18-20</td>
</tr>
<tr>
<td>Formalin monitoring to ensure compliance</td>
<td></td>
</tr>
<tr>
<td>SUCTION</td>
<td>21</td>
</tr>
<tr>
<td>Suction-Unit: “VAE-988 / VAE-991”</td>
<td></td>
</tr>
<tr>
<td>VOGEL EZ-SCALE</td>
<td>22</td>
</tr>
<tr>
<td>Grossing board</td>
<td></td>
</tr>
</tbody>
</table>
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NEW VOGEL PATHOLOGY

Gottlieb-Daimler-Strasse 2, DE-35463 Fernwald-Annerod, Germany
Phone: +49 (0) 641 93231-0, E-Mail: zentrale@vogel-giessen.de

6

Ask for our customisation options:
- magnifying glasses
- foot switches
- coloured cutting boards

©W. Vogel GmbH
**DISSECTION TABLE**

2700mm (Length) x 900mm (Width)

Customized dissection table made of stainless steel to your specification. Our special base construction ensures a very high level of stability.

An overview of different versions can be found in the table on the next page.
## DISSECTION TABLE

### Different versions

<table>
<thead>
<tr>
<th>DISSECTION TABLE</th>
<th>Basic</th>
<th>Stationary</th>
<th>Stationary, exhausted</th>
<th>Electrical height adjustment</th>
<th>Electrical height adjustment, exhausted</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equipment:</strong></td>
<td>VO-5-2100-SB</td>
<td>VO-5-2100-SS</td>
<td>VO-5-2100-SSA</td>
<td>VO-5-2100-SH</td>
<td>VO-5-2100-SSHA</td>
</tr>
<tr>
<td>Expanded base construction</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Sink 500 x 400 x 250mm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Shower tube with hand sprinkler 2.600mm</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Knee-operated mixing tab for cold and hot water</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Stationary fixed base construction without height-adjustment</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stationary fixed base construction with height-adjustment</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Exhaust system perforated working surface</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>1 splash proofed electrical outlet</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>1 waste container</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Integrated sprinkler system</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

### Special accessories:

<table>
<thead>
<tr>
<th>Special accessories:</th>
<th>Basic</th>
<th>Stationary</th>
<th>Stationary, exhausted</th>
<th>Electrical height adjustment</th>
<th>Electrical height adjustment, exhausted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing tab for the sink</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Cascade spout (waterfall bath)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Support surface for mortuary</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Carrying capacity for up to 300 kg</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Small on top dissection table for organs</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
CUTTING
Cutting Table “UCS-387 / 493”

CUSTOMIZED worktables with down or backwards airflow guarantees a laboratory environment free of pollutants while sectioning and preparing histological tissue. Well suited for small dissections like small and big biopsies. In different variations available (customized versions available).

BENEFIT
Ability for the connection to your filter tower (connection backwards possible page 15) for air purification
VOGEL – UNIVERSAL - CUTTING-STATION UCSF-2015

Special worktable guarantee a laboratory environment free of pollutants while sectioning and preparing formalin containing histological tissue, and is even well suited for small dissections like biopsies. Made of high-grade stainless steel (AISI 304 =1.4301). This station is individual configurable for each customers requirements.

STANDARD EQUIPMENT:
✓ 3-piece construction for easy delivery and placement
✓ For Formalin containing tissues only
✓ Filter-exhaustion downwards and/ or backwards
✓ Suction area in the center of the working surface
✓ 4 refillable filter cassettes
✓ 2 ventilators
✓ LED-lamp at the upper construction

OPTIONAL EQUIPMENT:
✓ Formalin sink
✓ Formalin waste removal sideways directly into an on-site disposal system, or respectively in a formalin waste container
✓ Formalin-Detector sideways for filter monitoring available
✓ Mounting rail for monitor and keyboard
✓ Adjustable feet are provided on all corners
✓ Expandable on both sides, like for instance further working tables
✓ Acrylic or safety glass

DIMENSIONS:  (H) 1.200mm x (D) 900mm x (W) 1.450mm
VOGEL CUTTING STATIONS UCSF - 1300 AND UCSA - 1300

(Length) 1300mm x (Width) 850mm x (Height) 2050mm

This, for routine examinations developed unit, is either equipped with a waste air circulation system (UCSF) or can be connected to a central exhaust air system (UCSA). There is a variety of different equipment for individual workplace solutions. The sketches show different versions which are possible and the table on the next page will give you an overview about other available equipment.

EXAMPLES:

UCSA-1300

UCSF-1300
## Cutting Station

<table>
<thead>
<tr>
<th></th>
<th>UCSF-1300</th>
<th>UCSA-1300</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equipment:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated working surface with exhaustion</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Slightly exhausted formalin sink</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Sink</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Integrated light</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Suction downwards or backwards</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Suction within the tabletop</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>2 ventilators</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>2 filter cassettes</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Step by step switch</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Special Accessories (on request):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slightly exhaustion at the sink</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mixing tab with shower hose with hand shower</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Power outlet</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Magnetic mounting rail for monitor and keyboard</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Floor unit with sliding-or hinged doors made of safety glass or stainless steel</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Formalin tab with foot switch</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Formalin disposal system with alarm system</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Formalin-Detector for filter control and/or workplace monitoring</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Timer for filter monitoring</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Safety glass shield on the left and right side</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Filing board</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Garbage can</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Garbage chute</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>LED Spots</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>LED lighted magnifier</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Voice recorder</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Microphone amplifier</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Foot pedal</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
VOGEL CUTTING STATIONS UCSF 1800 AND UCSA 1800

(Length) 1800mm x (Width) 850mm x (Height) 2050mm

UCSF/A-1800 is a special worktable designed to ensure a pollution free, laboratory-grade working environment for slicing and preparing histological slide preparations. This compact design makes it readily applicable to all size facilities. It is either equipped with a waste air circulation system (UCSF) or can be connected to a central exhaust air system (UCSA). There is a variety of different equipment for individual workplace solutions. The sketches show different versions which are possible and the table on the next page will give you an overview about obtainable equipment.

Examples:

UCSF-1800

UCSA-1800
### CUTTING STATION

<table>
<thead>
<tr>
<th></th>
<th>UCSF-1800</th>
<th>UCSA-1800</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EQUIPMENT:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated working surface with exhaustion</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Slightly exhausted formalin sink</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Sink</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Integrated light</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Suction downwards or backwards</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Suction within the tabletop</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>2 ventilators</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>3 filter cassettes</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Step by step switch</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>SPECIAL ACCESSORIES (ON REQUEST):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slightly exhaustion at the sink</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Mixing tab with shower hose with hand shower</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Power outlet</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Magnetic mounting rail for monitor and keyboard</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Floor unit with sliding-or hinged doors made of safety glass or stainless steel</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Formalin tab with foot switch</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Formalin disposal system with alarm system</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Formalin-Detector for filter control and / or workplace monitoring</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Timer for filter monitoring</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Safety glass shield on the left and right side</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Filing board</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Garbage can</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Garbage chute</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>LED Spots</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>LED lighted magnifier</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Voice recorder</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Microphone amplifier</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Foot pedal</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
**FILTER TOWER** with Formalin-filter

Filter operated air circulated station

Consisting of:

- Oxing construction elements, changeable, Box components needed for inspection
- Filing-elements, double-wall
- Soundproofing 20mm
- Exhaust vent upwards + 1 protection grid
- 1 fan
- 1 step switch attached to the convection tower
- 1 ea. pre-filter (dust filter) class 5
- 16 ea. Carusorb filter cartridges for formalin absorbing
- Step switch (mounted at the tower or by customer demands)
- Corpus: aluminium frame and cover plates made of steel galvanized

<table>
<thead>
<tr>
<th>FILTER TOWER 1000M³/H</th>
<th>FILTER TOWER 2000M³/H</th>
<th>FILTER TOWER 3000M³/H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recirculation: 1000m³ / h</td>
<td>Recirculation: 2000 m³ / h</td>
<td>Recirculation: 3000 m³ / h</td>
</tr>
<tr>
<td>Power: 230V 50 / 60Hz, 600W, 2.72A, 1 phase</td>
<td>Power: 230V 50 / 60Hz, 600W, 2.72A, 1 phase</td>
<td>Power: 400V 50 / 60Hz, 2500W, 3.90A, 3 phase</td>
</tr>
<tr>
<td>Fan motor IP54</td>
<td>Fan motor IP54</td>
<td>Fan motor IP54</td>
</tr>
<tr>
<td>Dimensions: (L)670mm x (D)670mm x (H)2330mm</td>
<td>Dimensions: (L)670mm x (D)670mm x (H)2330mm</td>
<td>Dimensions: (L)800mm x (D)800mm x (H)2316mm</td>
</tr>
<tr>
<td>Slightly exhausted formalin sink</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ventilator</td>
<td>1 ventilator</td>
<td>1 ventilator</td>
</tr>
</tbody>
</table>
STORAGE

PREPARATION CABINET

The preparation cabinet is specially designed for storing formalin-filled shipping vessels. Our range can be custom designed as per the requirements of the clients.

STANDARD DESIGN FEATURES:

✓ All stainless steel construction available with 4 sliding glass (safety glass ESG 6 mm) doors
✓ Cabinet’s part with adjustable shelves (2 shelves, permanently integrated)
✓ Exhaust air duct integrated in the back wall
✓ Socket can be placed in the middle and one air connection on the top of the cabinet Ø 100mm Air supply and spent air
✓ Available in different sizes
✓ The exhaust air flow, the pressure drop and other technical data depend on size of cabinet and have to be individually adapted

<table>
<thead>
<tr>
<th></th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1000</td>
<td>2000</td>
<td>600</td>
</tr>
<tr>
<td>2.</td>
<td>1300</td>
<td>2000</td>
<td>600</td>
</tr>
<tr>
<td>3.</td>
<td>1500</td>
<td>2000</td>
<td>600</td>
</tr>
<tr>
<td>4.</td>
<td>2000</td>
<td>2000</td>
<td>600</td>
</tr>
</tbody>
</table>
PREPARATION CABINETS

with integrated recirculating air system and replaceable filter cartridges

✓ Complete made of stainless steel
✓ Operating with recirculating air – no exhaust installation necessary
✓ 2 replaceable filter cartridges
✓ Glass sliding doors

Dimensions:
(WxHxD): 1.000 x 2.200 x 650mm
(WxHxD): 1.200 x 2.200 x 650mm

Exhaust air amount: 100 m³/h

Material: CNS 1.4301 stainless steel, finishing grain 320
VOGEL Formalin-Detector Product Line

Formalin monitoring to ensure compliance with workplace threshold limit value (TLV)

Single and Multi-detector Systems. The VOGEL Formalin-Detector as well as the VOGEL Multi-Gas-Detector (MGD) and the Room Controller are designed to monitor the formalin concentration in the workplace, on instruments and in formalin filter systems. All VOGEL Formalin-Detectors are individually adjustable to different concentration levels (factory setting). Depending on the model it is almost gapless to ensure to monitor the working environment as well as storage rooms, cabinets, instruments etc. The VOGEL Formalin-Detectors have a compact design to make the integration in existing systems as simple as possible.

VOGEL-FORMALIN-DETECTOR

To integrate into cutting tables (can be retrofitted into existing cutting tables)

Designed to monitor the formaldehyde concentration of exhaust systems with formalin filters.

✓ Sensor and buzzer in a PVC housing also
✓ Mountable in an empty box
✓ Exact threshold monitoring
✓ Variable Threshold Range: 0-5 ppm
VOGEL-FORMALIN-DETECTOR

Formalin-detector including visual / audible warning

- The flexible variant is used to monitor the concentration of formaldehyde on / beside cutting tables, work stations or in laboratories
- Exact threshold monitoring
- Variable Threshold Range: 0-5 ppm
- for exact values, the units must be serviced/recalibrated every year
- Yearly calibration required

VOGEL-GAS-DETECTOR ROOM MONITORING

Room Controller for maximum two formalin sensors

The VOGEL-Room Controller is used for monitoring and warning of toxic and combustible gases as well as of external temperature and humidity. The Room Controller can control 2 analog gas transmitters with 4 to 20 mA or (0)2 to 10 V analog signal.

The free adjustable parameters and alarm threshold enable a very flexible use in the gas measuring technique (variable threshold for visual and audio alarm available). Simple and comfortable commissioning is possible due to factory adjusted parameters.

Configuration, parameter settings and operation are done via the logical, easy system menu structure without specific programming knowledge.
VOGEL-MULTI-GAS-DETECTOR connects up to max. 98 Detectors (available in 4-steps connecting)

Measuring, warning and controlling device series for toxic, combustible and vapours. In addition, the Multi-Gas-Detector is available with an uninterruptible power supply supported by a rechargeable battery. The optional data logger function permits to protocol all measured values, alarms and faults. Serial interface with ModBus protocol for the connection to BMS etc.

ACCESSORIES:
The S1-Software enables the loading, changing and storing of the application parameters via a serial interface.

PORTABLE GAS DETECTOR with Datalogger for formalin including:
✓ Software
✓ USB port adapter
✓ Wall charger
Portable CH2O measuring unit with Datalogger for the continuous monitoring of the ambient air to detect the presence of Formaldehyde. Up to 16.000 measuring values are recorded in the data logger. Measuring cycle adjustable from 2 sec. to 5 hours
✓ Datalogger for 16.000 measuring values
✓ Data readout via the USB port
✓ Data output in Excel standard format
✓ Internal rechargeable battery: lifetime
✓ Depending on sensor type
✓ Certified calibration
✓ Yearly calibration required
EXHAUST WORKSTATION
For staining and covering with xylene and alcohol or formalin

AVAILABLE IN TWO VERSIONS „VAE-988 / VAE-991“

FEATURES:
✓ Backwards airflow over the entire working area
✓ Provides optimal removal of unsanitary vapors of xylene
✓ Glass shield for improved air circulation
✓ Alcohol and coverslipping resin
✓ Complete stainless steel, easy to clean
✓ Big working bench, front open
✓ Easy handling with the Carusorb filter mat for working places with formalin
✓ Carbon filter for working places with xylene and alcohol
✓ Elapsed time indicator
✓ Two stage airflow
✓ Integrated light

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>DIMENSIONS</th>
<th>CNS stainless steel V2A 1.4301 refined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small version</td>
<td>„VAE 988“</td>
<td>625mm (Width) x 600mm (Depth) x 420mm (Height)</td>
</tr>
<tr>
<td>Bigger version</td>
<td>„VAE-991“</td>
<td>980mm (Width) x 600mm (Depth) x 420mm (Height)</td>
</tr>
</tbody>
</table>

Exhaust system FAE-CUSTOM-MADE (photo not available)
✓ Constructed for the connection to a central exhaust air system
✓ Fast cutting workplace
✓ Fully customizable in size and equipment

NOTE
VOGEL EZ-SCALE

Grossing board „white“, with rubber feet for highest stability and measuring device. The measuring device is DIN-tested and supplied with a test certificate.

✔ Excellent background for cutting surgical or research specimens
✔ Easy and fast sectioning on a firm basis
✔ Different sizes and versions available
**Universal Shelf Systems “SBA 3010“ (100-System)**

Two different drawer-achievements available

**a)** Drawer-achievement „SBA-3010“:
plain frontage with one wall and hand-board made of aluminum, black anodized

**b)** Drawer-achievement „SBA-3010-E“:
plain frontage with one wall and attached handle, black anodized
UNIVERSAL SHELF SYSTEMS “SBA 3010”

The universal Shelf-System from VOGEL is available in different sizes and capacities. Standard widths: approx. 1m and 0,75m are deliverable.

Width = number of axes
1.050 mm + 70 mm, center-to-center distance 1.050 mm

Width = number of axes
750 mm + 70 mm, center-to-center distance 750 mm

These standard heights are available:

2.750 mm  ladder height

2.150 mm  arm’s height

1.625 mm  safety height

1.100 mm  counter height
Universal Shelf Systems “SBA 3010”

<table>
<thead>
<tr>
<th>Height x Width x Depth (mm)</th>
<th>Description</th>
<th>Slides Approx.</th>
<th>Tissue-Blocks Approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1625 x 1120 x 750</td>
<td>base unit</td>
<td>231.000</td>
<td>63.000</td>
</tr>
<tr>
<td>2. 1625 x 1050 x 750</td>
<td>extension unit</td>
<td>231.000</td>
<td>63.000</td>
</tr>
<tr>
<td>3. 2150 x 1120 x 750</td>
<td>base unit</td>
<td>308.000</td>
<td>84.000</td>
</tr>
<tr>
<td>4. 2150 x 1050 x 750</td>
<td>extension unit</td>
<td>308.000</td>
<td>84.000</td>
</tr>
<tr>
<td>5. 2725 x 1120 x 750</td>
<td>base unit</td>
<td>385.000</td>
<td>105.000</td>
</tr>
<tr>
<td>6. 2725 x 1050 x 750</td>
<td>extension unit</td>
<td>385.000</td>
<td>105.000</td>
</tr>
<tr>
<td>7. 1625 x 820 x 750</td>
<td>base unit</td>
<td>154.000</td>
<td>42.000</td>
</tr>
<tr>
<td>8. 1625 x 750 x 750</td>
<td>extension unit</td>
<td>154.000</td>
<td>42.000</td>
</tr>
<tr>
<td>9. 2150 x 820 x 750</td>
<td>base unit</td>
<td>206.000</td>
<td>56.000</td>
</tr>
<tr>
<td>10. 2150 x 750 x 750</td>
<td>extension unit</td>
<td>206.000</td>
<td>56.000</td>
</tr>
<tr>
<td>11. 2725 x 820 x 750</td>
<td>base unit</td>
<td>257.000</td>
<td>70.000</td>
</tr>
<tr>
<td>12. 2725 x 750 x 750</td>
<td>extension unit</td>
<td>257.000</td>
<td>70.000</td>
</tr>
</tbody>
</table>
VOGEL Universal Filing-System “SBA 3010”

Has been created and designed according to the latest developments and needs in laboratory filing. The following practical needs have been implemented:

- Favorable storage of slides and tissue-blocks free from dust and safe from moisture
- Extremely large capacity through an optimum on room consumption
- Solid and safe sheet steel construction
- Built-in central locking device
- Automatic safety device for each drawer so that only one drawer can be opened

- Full travel drawers completely removable with roller bearings
- Inscription stripes on the hand-board of each drawer
- Removable plastic trays allow the pre-filing of slides and tissue-blocks
- Metal riser for easy removal of the plastic trays
- Plastic trays also for maxi-slides (76x52mm) available
- Foam insertions fix the slides and tissue-blocks in upright position
- Stripes to put between the slides in different colors available

<table>
<thead>
<tr>
<th>Height x Width x Depth (mm)</th>
<th>Slides Approx.</th>
<th>Tissue-Blocks Approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 600 x 750 x 750</td>
<td>51.500</td>
<td>14.000</td>
</tr>
<tr>
<td>2. 1100 x 750 x 750</td>
<td>103.000</td>
<td>28.000</td>
</tr>
<tr>
<td>3. 1100 x 1050 x 750</td>
<td>154.000</td>
<td>42.000</td>
</tr>
<tr>
<td>4. 1100 x 1050 x 750</td>
<td>154.000</td>
<td>42.000</td>
</tr>
<tr>
<td>5. 1600 x 1050 x 750</td>
<td>231.000</td>
<td>63.000</td>
</tr>
</tbody>
</table>
Universal Filing-System “SBA-3010-ES” -Stackable-

In addition to the Filing-Cabinets the Drawers Shelf-System “SBA-3010” offers the possibility to find a real customized solution for the special needs in laboratory filing. Plain frontage with one wall and hand-board made of black anodized aluminum,

Color: tomato-red RAL 3013
Filing-Box „VZS-910“

For the storage / presorting of slides and tissue blocks at the workplace

✓ Solid sheet-steel box
✓ Stackable unit with 4 drawers
✓ Complete with trays
✓ Mixed storage possible
✓ Secure and simple handling

<table>
<thead>
<tr>
<th>Capacity</th>
<th>approx. 10,500 slides in 20 trays</th>
</tr>
</thead>
</table>

or

approx. 3,000 tissue-blocks in 16 trays (5 rows)
This well-priced Universal-Filing-System has been designed according to the latest developments and needs in laboratory filing. The following practical needs have been implemented:

- Special size for installation under working tables in laboratories
- Favorable storage of slides and tissue-blocks free from dust and safe from moisture
- Solid sheet-steel cabinets
- Stackable unit with 10 full extension drawers
- Automatic safety device for each drawer. **ONE DRAWER CAN BE OPENED ONLY!**
- Built-in central locking device
- Plain frontage with one wall
- Storage of 120 trays for tissue blocks (approx. 21,000 tissue blocks) or storage of 160 trays for slides (approx. 82,000 slides)
  ***MIXED STORAGE POSSIBLE***
- Color: grey RAL 7032 (additional colors available on request)
- **DIMENSIONS:**
  1.100mm (H) x 597mm (W) x 715mm (D)
TIMETABLE OF THE PRINTER GENERATION

1987  MKD-587: First manual cassette printer

1991  VCP/VSP-90: Compact bench-model for fast and simple labelling of Superfrost Colour-Slides or of cassettes with or without lid

2000  VCP/VSP-2001: Compact unit, which allows to print two lines on a cassette or slide

2005  VCP/VSP-3001: Compact unit with integrated keyboard for slide or cassette

      VCP/VSP-3001 IDENT: OIM product for SAKURA Finetek

2008  VCP/VSP-4001: Compact printer with separate Keyboard for cassettes or slides

      VCP/VSP-2008 (Surgipath): OIM product for SURGIPATH (LEICA)

2012  VCP/VSP-5001: table printer for cassettes or slides with UV-light ribbon

2014  VCP/VSP-6001: table printer for cassettes or slides with integrated UV-light and 2D-Barcode printing possible

2014  VCPA-5001: automated cassettes printer, with 2D-Barcode printing
VOGEL CASSETTE LABELLING MACHINE VCP-6001

Compact cassette printer for on-demand printing. The unit offers flexibility, consistency and reliability for cassette printing needs. Can be used as a stand-alone unit, or integrated in to your LIMS-System.
VCP-6001

✓ Accepts all standard tissue cassettes with or without lid; 45° angle print area
✓ Print 2 line with 16 characters
✓ 2 lines a 11 characters and bar code
✓ 1 line with 13 larger font characters, without bar code
✓ Upper & lower case letters
✓ Alpha-numeric characters
✓ Bar code optional
✓ Up to 10.000 different print layouts semiautomatic and automatic counter
✓ Back-lighting LCD-touch-display
✓ Standard-keyboard
✓ On-demand printing
✓ Second keypad for quick number entry on request
✓ Special characters available
✓ Recall saved screens from memory
✓ Stored computer information can be downloaded
✓ Upper and lower case letters
✓ Bar code scanner adaptable
✓ Prints cassettes in approximately 5-6 seconds
✓ Ribbon, with UV-sensitive substance and RFID-chip
✓ ≈ 15,000+ cassettes per ribbon
✓ USB connection
VOGEL SLIDE LABELLING MACHINE VSP-6001

Compact slide printer for on-demand printing. The unit offers flexibility, consistency and reliability for slide printing needs. Can be used as a stand-alone unit, or integrated in to your LIMS-System.
VSP-6001

- Accepts all standard size microscope color slides
- 4 lines with 16 characters
- 2 lines with 13 larger font characters, without bar code
- 2 lines with 11 characters and bar code
- 2 lines with 11 characters and bar code plus 2 lines with 16 characters
- Upper & lower case letters
- Alpha-numeric characters
- Bar code optional
- Up to 10,000 different print layouts semiautomatic and automatic counter.
- Back-lighting LCD-touch-display
- Standard-keyboard
- On-demand printing
- Second keypad for quick number entry “on request”
- Special characters available
- Recall saved screens from memory
- Stored computer information can be downloaded
- Upper and lower case letters
- Bar code scanner adaptable
- Prints slide in approximately 4-5 seconds
- Ribbon, with UV-sensitive substance and RFID-chip
- ≈ 15,000+ slides per ribbon
- USB connection
VOGEL CASSETTE LABELLING MACHINE VCPA-5001

The automated cassette printer with carousel magazine offers flexibility, consistency and reliability for cassette printing needs.
VCPA-5001

The VCPA-5001 unit includes a carousel magazine. The unit offers flexibility, consistency and reliability for cassette printing needs. Can be used as a stand-alone unit or with computer, barcode scanner and LAN or USB-access.

- Up to 10.000 different print layouts
- Semiautomatic and automatic counter
- Back-lighting LCD-touch-display
- 1 Carousel with 6 magazines and 6 adapters for cassettes without lid
- In automatic mode up to 650 cassettes per hour.
- Carousel for 6 x 45 cassettes
- Receiving magazine for up to 45 cassettes
- Easily switch between automatic and manual print
- Capable of printing special characters
- Stores up to 100 different programmable formats
- Prints cassette in approximately 5,5 - 6,0 seconds
- LAN- or USB access makes it easy to transfer external data from a computer/laptop to the printer
- Ribbon, with UV-sensitive ink and RFID-chip
- The prints are resistant against all usual solutions in the labs

PRINT

- 2 line with 16 characters,
- 2 lines with 11 characters and bar code
- 1 line with 13 larger font characters, without bar code
- Upper & lower case letters
- Alpha-numeric characters
- Bar code optional

TECHNICAL INFORMATION

Compact dimensions: 49cm x 52cm x 35cm
Voltage main adapter: AC 110/240 V, 50 / 60 Hz, 65 W
Voltage unit: D 24 V, 1,6 A
Connections: 4 USB slot, 1 LAN connection, 1 USB device
LABELLING

Securline-Marker II

✓ Resists xylene, alcohol, acetone, and formalin
✓ For the "Securline II Marker - 10/ pk" model only
✓ Categorization: Organization > Labelling

Specifically designed to enable histology and cytology laboratories to permanently mark Superfrost slides, as well as ordinary frosted-end microscope slides and embedding cassettes. Write on glass, plastic, porcelain, metal, and paper. Resistant to most solvents and fixatives commonly used in histology/cytology procedures not requiring abrasive contact. Ink can be removed with various solvents if necessary. Markers should be tested with laboratory’s solvents and equipment before use on actual specimens.
OSMOMETER

Micro-Osmometer “OM-806“ (manual version)

✓ Sample volume 50 µl or 100 µl
✓ Measuring time approx. 1,5 minutes
✓ Simple operation with menu-led display
✓ 3-point calibration
✓ Clear sample identification with keyboard and time clock
✓ Single-use plastic sample tubes air cooling

OSMOMETER FOR SMALL SAMPLES


✓ Sample volume 10 µl or 25 µl
✓ Measuring time approx. 1,3 minutes
✓ Simple operation with menu-led display
✓ 3-point calibration
✓ Clear sample identification with keyboard and time clock
✓ Single-use plastic sample tubes air cooling
EMBEDDING

HISTOLOGY TISSUE BATHS WITH LIDS

The Histology Tissue Bath provides a simple, secure method of stretching paraffin-sections as required in every histology pathology, bacteriology and chemistry laboratories.

The working temperature should not exceed 60° degrees to avoid damage to your valuable biopsy specimen.

THE PRODUCTION OF TISSUE BATH, SQUARE, WAS STOPPED!

Optimal drying on wide, heated preparation-area. The working temperature can be adjusted from the room temperature to approximately 80° degrees and controlled with the help of a thermometer.

HISTOLOGY PARAFFIN HEATING TABLE

Optimal drying on wide heated preparation-area. The temperature of the working plate can be adjusted from 30° to approximately 70° degrees. The working temperature should not exceed 60° degrees to avoid damage to your valuable biopsy specimen.
HEATED FORCEPS „HEIDELBERGER“

- Easy and safe embedding and handling operations
- Temperature control
- Different lengths available
- Heats only the tip of the forceps

<table>
<thead>
<tr>
<th>Length</th>
<th>Type</th>
<th>Tip of Forceps</th>
</tr>
</thead>
<tbody>
<tr>
<td>145mm</td>
<td>FINELY</td>
<td>graded tip: 1mm</td>
</tr>
<tr>
<td></td>
<td>MEDIUM</td>
<td>graded tip: 2mm</td>
</tr>
<tr>
<td></td>
<td>WIDE</td>
<td>graded tip: 3mm</td>
</tr>
<tr>
<td>160mm</td>
<td>FINELY</td>
<td>graded tip: 1mm</td>
</tr>
<tr>
<td></td>
<td>MEDIUM</td>
<td>graded tip: 2mm</td>
</tr>
<tr>
<td></td>
<td>WIDE</td>
<td>graded tip: 3mm</td>
</tr>
<tr>
<td>180mm</td>
<td>FINELY</td>
<td>graded tip: 1mm</td>
</tr>
<tr>
<td></td>
<td>MEDIUM</td>
<td>graded tip: 2mm</td>
</tr>
</tbody>
</table>
## CONSUMABLES

<table>
<thead>
<tr>
<th>Item</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Metal Base Molds (different sizes), 6mm height</td>
<td><img src="image1.jpg" alt="Image" /></td>
</tr>
<tr>
<td>✓ Metal Base Molds for SUPER-MEGA-Cassettes</td>
<td><img src="image2.jpg" alt="Image" /></td>
</tr>
<tr>
<td>✓ SUPER-MEGA-Cassettes (different colors)</td>
<td><img src="image3.jpg" alt="Image" /></td>
</tr>
<tr>
<td>✓ Stainless steel lids for embedding cassettes</td>
<td><img src="image4.jpg" alt="Image" /></td>
</tr>
<tr>
<td>✓ Filter Paper for standard cassettes</td>
<td><img src="image5.jpg" alt="Image" /></td>
</tr>
</tbody>
</table>
### Consumables

- **Super-Mega-Quick Release Clamp**
  - Chuck adapter for basic sledge microtomes

- **Biopsy-Capsule**

- **VOGEL Histo-Comp**
  - (embedding medium 50°/ 56°C)
CONSUMMABLES / FILTERS

✓ Activated carbon filters 350x51x100 mm (usable in VIP-6®, Prisma®Film®)
✓ Activated carbon filters 420x62x200 mm (usable in VIP-5®, VIP Junior®, VIP-E® Serie)

® is a registered trademark of Sakura Finetek Europe B.V.
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E-Mail: t.binzel@vogel-giessen.de

Haslab GmbH / T. +41 31 934 54 54 / haslab.ch
NOTES

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We reserve the right of technical modifications, changes of devices and features.

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