

# VarioFlow



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*regineering*

# VarioFlow



Certified according to DIN EN 14175



The engineering VarioFlow fume cupboard is a device for protecting researchers from hazardous or toxic fumes, dusts, splinters and splashing liquids. The fume hoods are built, tested and certified in accordance with DIN EN 14175.

VarioFlow combines advanced technology with efficient use of space. Designed specifically for complex laboratory environments with demanding requirements, it provides a highly adaptable and stable workstation solution. The fume cupboard control with visual and acoustic alarms ensures maximum safety for researchers.

VarioFlow fume cupboards are precisely tailored to your requirements, providing an optimal solution for digestion and distillation processes in your laboratory. Combined with our laboratory equipment and furniture systems, they enable you to design an efficient research environment and achieve reliable, high-quality results.

As an option, the VarioFlow fume cupboard can be equipped with OptiFlow, a support airflow technology that ensures stable, energy-efficient, and safe operation.

# VarioFlow

## Fume cupboard design

**Presence sensor**

**Explosion protection valve**

**Front slide**

**Fume cupboard control unit**

**Stand mount**

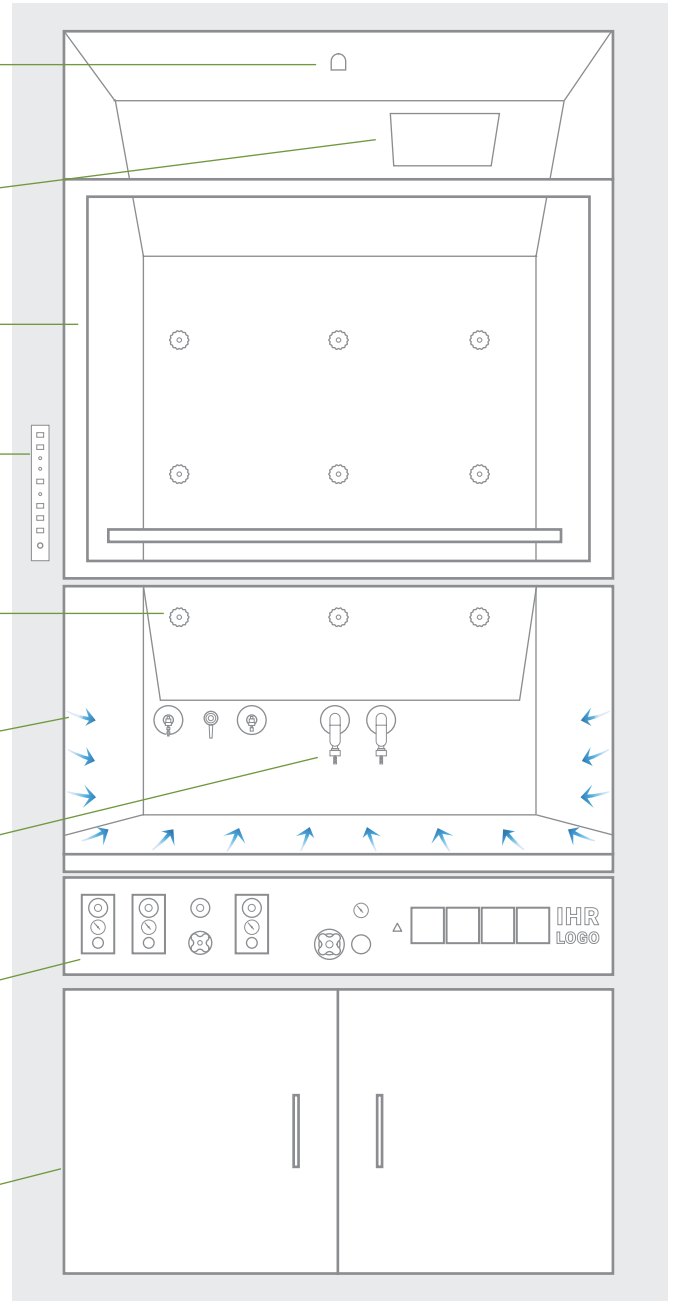
**OptiFlow support air flow (optional)**

**Media outlets**

**Fitting panel**

Example: 3x high-purity gas, 1x compressed air, 1x cooling water and 4x sockets with illuminated customer logo

**Base cabinet installation space**



# Features

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## Technical data

| Outer dimensions                            |                       | fume cupboard width   |                       |
|---|-----------------------|-----------------------|-----------------------|
| Width                                       | 1200 mm               | 1500 mm               | 1800 mm               |
| Height                                      |                       | 2660 mm               |                       |
| Height (low space)                          |                       | 2460 mm               |                       |
| Depth                                       |                       | 900 mm                |                       |
| <b>Utilisable space</b>                     |                       |                       |                       |
| Width                                       | 1070 mm               | 1370 mm               | 1670 mm               |
| Height (back)                               |                       | 1570 mm (1200)        |                       |
| Height low space (back)                     |                       | 1370 mm (1000)        |                       |
| Depth                                       |                       | 750 mm                |                       |
| <b>Exhaust air volume</b>                   |                       |                       |                       |
| Front slide closed                          |                       | 220 m <sup>3</sup> /h |                       |
| Front slide opened                          | 480 m <sup>3</sup> /h | 600 m <sup>3</sup> /h | 720 m <sup>3</sup> /h |
| Front slide opened with OptiFlow (optional) | 340 m <sup>3</sup> /h | 400 m <sup>3</sup> /h | 510 m <sup>3</sup> /h |
| Pressure loss                               | 39 Pa                 | 31 Pa                 | 41 Pa                 |
| Pressure loss planning basis                |                       | 100–150 Pa            |                       |

# Features

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## Interior equipment

### Work surface

|                 |  |          |  |
|-----------------|--|----------|--|
| Stoneware       |  | series   |  |
| Stainless steel |  | optional |  |
| Polypropylene   |  | optional |  |
| Funnel tank     |  | optional |  |

### Side panel

|                       |              |              |              |
|-----------------------|--------------|--------------|--------------|
| Melamine resin finish |              | series       |              |
| Polypropylene         |              | optional     |              |
| Stoneware             |              | optional     |              |
| Stainless steel       |              | optional     |              |
| Feed-through Ø 84 mm  |              | optional     |              |
| Stand mount           | 3 x 3 series | 3 x 4 series | 3 x 5 series |

### Set-up

|   |  |  |  |
|---|--|--|--|
| Socket outlets 230 V / switchable   | optional / optional  |  |  |
| 400V CEE socket outlet / switchable   | optional / optional  |  |  |
| Digestor valves<br>(water, gases, vacuum)   | optional – free choice of manufacturer<br>(Broen, Ila, Novalab, GCE, Spectron etc.)                      |  |  |
| Media extraction on the side  | optional (e.g. for water outlets)  |  |  |
| Disposal system with funnel<br>in table top with visual and acoustic<br>fill level monitoring | optional – up to 5 different<br>types of chemicals can be<br>disposed of properly (5 l or 10 l canister) |  |  |

# Features

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## Front slide

|   |  |
|---|--|
| Presence detection with automatic locking | standard                                       |
| Collision protection                      | standard – light barrier below the front slide |
| Split cross slide                         | standard                                       |
| Opening / closing by foot switch          | optional                                       |

## Electric connection

|                              |   |
|------------------------------|---|
| Fume cupboard control supply | 120 V–264 V / 50 Hz / max. 10 A LSS Char C<br>24 VDC, max. backup fuse 10 A (t) |
| Socket supply                | 400 / 230 V AC / 50 Hz / max. 63 A Gg   |

## Interested in our product?

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Get in touch:



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Do you need a customised solution?  
We're looking forward to collaborate  
and design, plan and realise the product  
that meets your needs.