

## Bench-mounted fume hoods with side installation

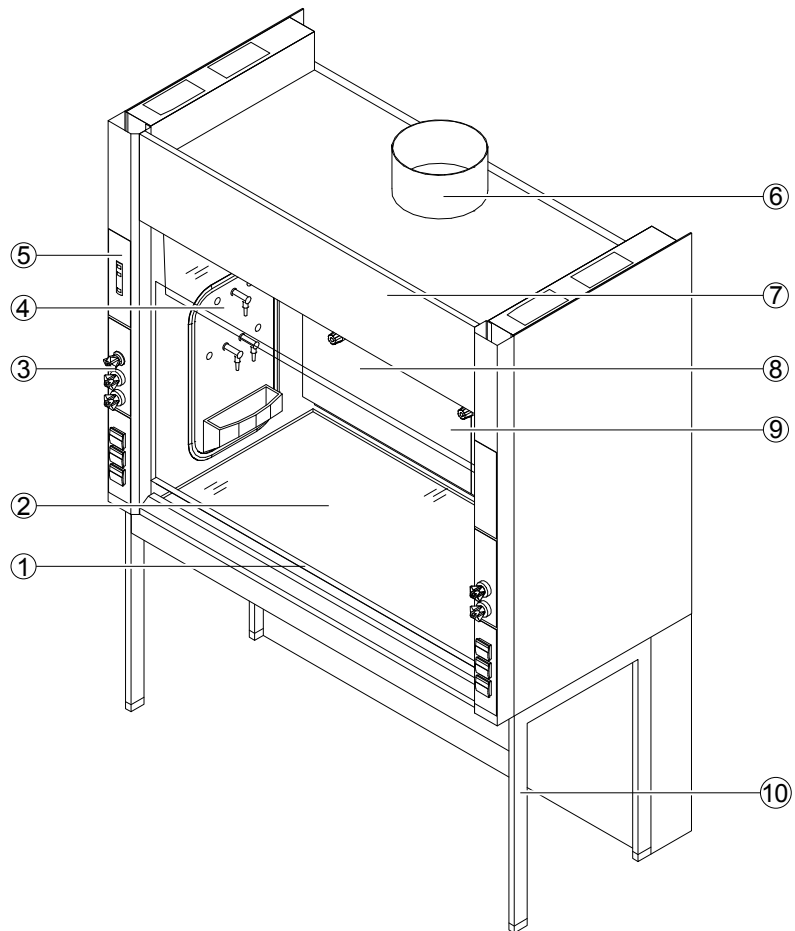
### Fume hood with side installation, made of steel

#### SI 3 steel

#### Intended use

- Protective equipment for users, tested in accordance with EN 14175 and ASHRAE 110-2005.
- Extraction of fumes, aerosols and dust from the internal workspace to prevent dangerous concentrations of pollutants from escaping into the laboratory
- Reduced risk of the formation of a high concentration of hazardous substances / hazardous explosive atmosphere in the internal workspace
- Protection from splashes of hazardous substances
- Protection from flying particles, bodies or parts from the internal workspace
- General purpose fume hoods constructed in compliance with EN 14175 and ASHRAE 110-1005 are normally not suitable for use with radioactive substances or micro-organisms
- Not suitable for openly breaking down chemicals
- Service outlets in the side panel of the internal workspace
- Control units located externally on the service panels

#### Design



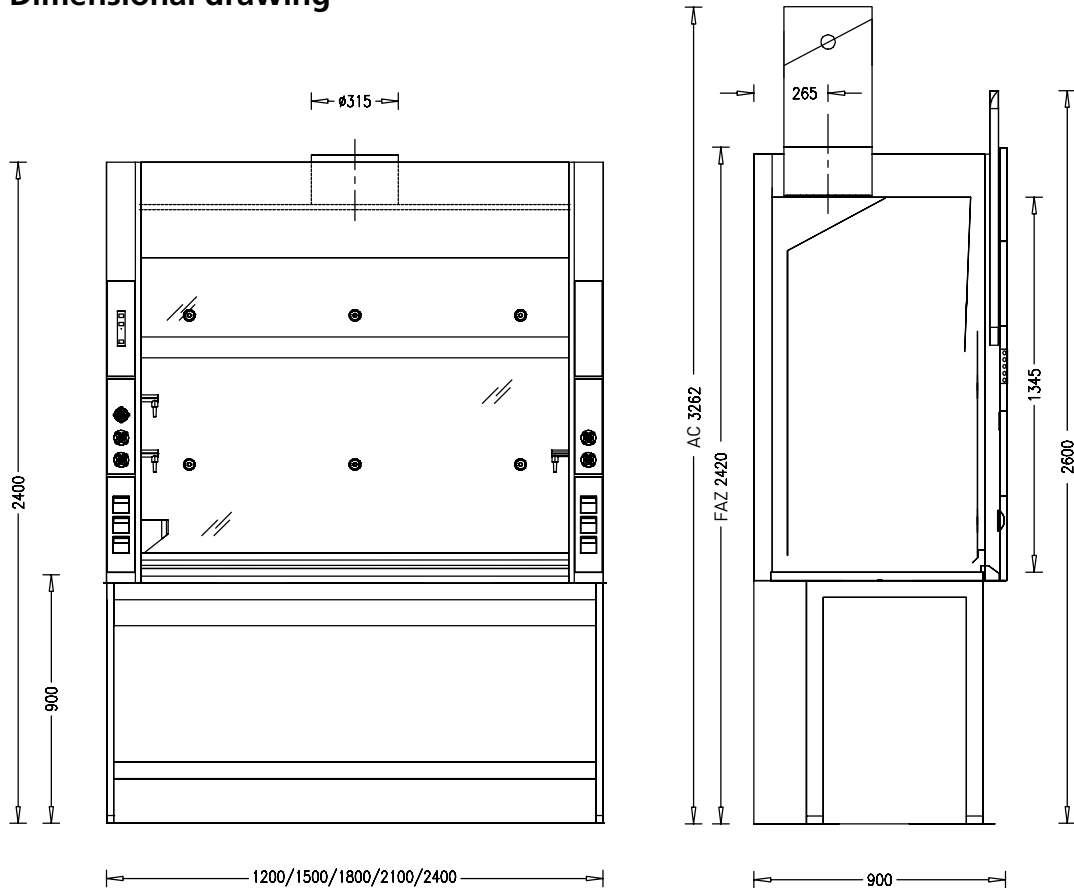
- 1 Sash with sash handle
- 2 Worktop
- 3 Service panel
- 4 Side panel in fume hood wall
- 5 Function display control panel
- 6 Extract air spigot
- 7 Removable fascia panel
- 8 Upper sash window
- 9 Baffle with scaffold points
- 10 Bench frame

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#### Dimensional drawing



#### Technical data

| Dimensions                            | 1200 | 1500 | 1800 | 2100 | 2400 |
|---------------------------------------|------|------|------|------|------|
| Width [mm]                            | 1200 | 1500 | 1800 | 2100 | 2400 |
| Depth [mm]                            | 900  |      |      |      |      |
| Height [mm]                           | 2400 |      |      |      |      |
| Clear width, internal workspace [mm]  | 940  | 1240 | 1540 | 1840 | 2140 |
| Clear height, internal workspace [mm] | 1345 |      |      |      |      |
| Working height [mm]                   | 900  |      |      |      |      |

| Weight                    | 1200        | 1500        | 1800        | 2100        | 2400        |
|---------------------------|-------------|-------------|-------------|-------------|-------------|
| Without installation [kg] | Approx. 220 | Approx. 290 | Approx. 350 | Approx. 410 | Approx. 470 |

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| Design characteristics                             | 1200   | 1500 | 1800                | 2100 | 2400 |
|--|--|------|---------------------|------|------|
| Supporting construction                            | H-frame with push-in underbench units                    |      |                     |      |      |
| Sash   | One-piece  |      |                     |      |      |
| Sash, divided (optional)                           | 2 horizontal sashes                                      |      | 3 horizontal sashes |      |      |
| Side panel of the fume hood                        | Without glazing and without equipment pass through hatch |      |                     |      |      |
| Number of units for scaffold points, ø 12 to 13 mm | 6  | 6    | 6                   | 8    | 10   |

| Electrics          |  |
|--------------------|--|
| Electrical supply  | Sockets only external in service panel |
| Fuse box           | Optional                               |
| Sash controller SC | Optional                               |

| Sanitary technology |   |
|---------------------|---|
| Sanitary supply     | Optional: Take-off valves for vacuum, gases and/or water and integrated sink (PP) in side panel |

| Ventilation technology  | 1200   | 1500 | 1800 | 2100 | 2400 |
|---|--|------|------|------|------|
| EN 14175 minimum air exchange rate [m³/h] <sup>1)</sup>                       | 380  | 460  | 500  | 650  | 750  |
| ASHRAE with 0.3 m/s / 60 fpm [m³/h] <sup>2)</sup>                             | 470  | 620  | 770  | 910  | 1060 |
| ASHRAE with 0.5 m/s / 100 fpm [m³/h] <sup>3)</sup>                            | 780  | 1030 | 1300 | 1520 | 1770 |
| Function display  | FAZ / External control                             |      |      |      |      |
| Airflow damper, variable  | Airflow-Controller AC                              |      |      |      |      |
| Connection height [mm] with function display with extract air spigot Ø 315 mm | 2420   |      |      |      |      |
| Connection height [mm] with AC with extract air spigot Ø 315 mm               | 3262   |      |      |      |      |
| Floor/underbench extraction system  | Optional depending on requirements and regulations |      |      |      |      |

<sup>1)</sup> Air volume specifications refer to an opening height of the sash window of 500 mm (test opening in line with EN 14175) and the maximum tracer gas values recommended by BG Chemie.

<sup>2)</sup> Air volume specifications refer to the prototype test in line with ASHRAE 110-2005 with a face velocity of 60 fpm (0.3 m/s).

<sup>3)</sup> Air volume specifications refer to the prototype test in line with ASHRAE 110-2005 with a face velocity of 100 fpm (0.5 m/s).

The indicated minimum air exchange rates were determined under specified test conditions in compliance with EN 14175-3 and ASHRAE 110-2005. Adapt these minimum air exchange rates when sizing the ventilation system.

The required air volumes may be different if on-site extract air monitoring systems or airflow dampers are used. Agree the operating limitations with Waldner.

| Material/surface |   |
|------------------|---|
| Worktop          | Epoxy, polypropylene, stainless steel                           |
| Internal lining  | Polyresin, solid grade laminate, polypropylene, stainless steel |