FUME HOOD SPECIFICATION

1. General characterization

Fume hood is an equipment intended for safe work with substances unsafe for life or health. As a result of its design, it protects users against toxic, harmful or fetid fumes, gases and dust.

Fume hoods LabAirTec are made of laminated plates and powder coated aluminium frame in standard. At the request of a client, there is a possibility to create the fume hood with different materials, like phenolic resin, ceramic or polypropylene.

Our fume hood has a single wall with outlet columns allowing for air exchange in the entire volume of the working chamber. In the chamber there is a cold water faucet with sink (made of polypropylene: 290 mm x 135 mm), situated on the back panel and cold water valve with two electrical socket on the front panel. In the chamber there is also a light, which facilitates work. There is possibility to change the position and amount of valves, spouts, electrical sockets and other medias. Client could also turn away from all of the items.

Under the fume hood are two cabinets, which could be easily outthrust. The vented cabinets could have wheels or sockel.

2. Technical data

	TFW 120	*TFW150*	*TFW 180*
Width (mm)	1200	1500	
Depth (mm)	960		
Hight with closed/ open window (mm)	2600		
Height of the workspace (mm)	900		
Dimensions of the working chamber (width x depth x height)	1112 x 752 x 1504		752 x 04
Recommended air flow with the open window (m3/h)	480		
Recommended air flow with the closed window (m3/h)	200		200
The diameter of the outlet (mm)	250		

3. Equipment

Element	*Standard version*	*Optionally*
Height (mm)	2400/2600	Different dimensions valuated and realised individually
Worktop	Ceram	Phenolic resin, polypropylene quarella, postforming
Front window	Aluminium frame with two glasses	A g
Driver	Schneider FM 100	Schneider FC 500
Way of moving the window	Manual	Automatic with motion detector
Medias	Valve + faucet + sink	Set of water and gases with any

		configuration
Glazed side panels	No	Yes
The way of ventilation	Direct connection to the existing client's ventilation (diameter: 250 mm)	Every different diameter valuated individually
Warranty	2 years	To individual settling

4. Elements of the fume hood

1. Control of air volume flow.

The volume flow of the air remains at the desired level throughout the working time. It increases safety and reduce significantly operating costs.

2. A motion sensor

The motion sensor detects presence and sends a signal to close the front window when the User is not working at the fume cupboad. Greater security, significant reduction of operating costs.

3. Front Frame

All control and monitoring functions of the Bypass interface and system are integrated in the front frame. Installation of additional media and maintenance can be done in a very simple and convenient way for the user. The aluminium front frame is characterized by optimal design and modern design.

4. Air extraction module

The patented system has many advantages as opposed to standard constructions. Profiles of our extraction modules increase the air flow efficiency, which increases the emission removal rate, additionally provides optimal laminar flow. These modules are easily disassembled, which simplifies access for regular disinfection.

5. Monitoring and control

The user-friendly monitoring and control system is at eye level. It is easy to use, which affects the safety of use. System operation is intuitive.

6. Bypass system

The modern Bypass system features specially designed air intake slots at the edge of the worktop,the front guide and the side of the front frame. The inlet slots provide a laminar (no turbulent) air flow and a constant window aeration indicator.

7. Automatic front stop

The air flow control is regulated by monitoring the position of the front window. In combination with an automatic window closure, it significantly reduces operating costs.

8. A drawer with media

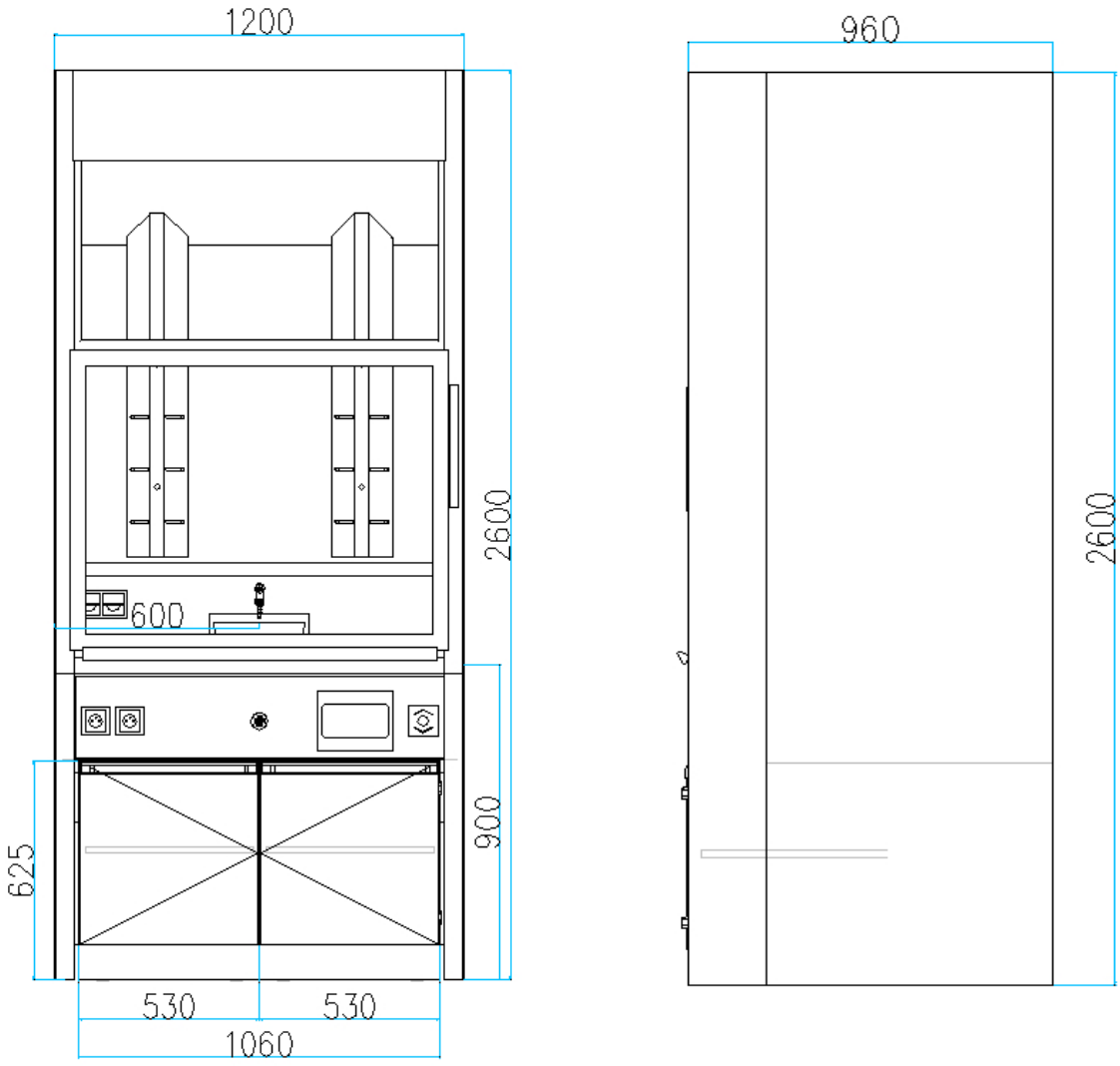
The media drawer provides high security during installation as well as during use. It contains control valves and power connections. The drawer can be fully extended and reassembled, eg during modernization.

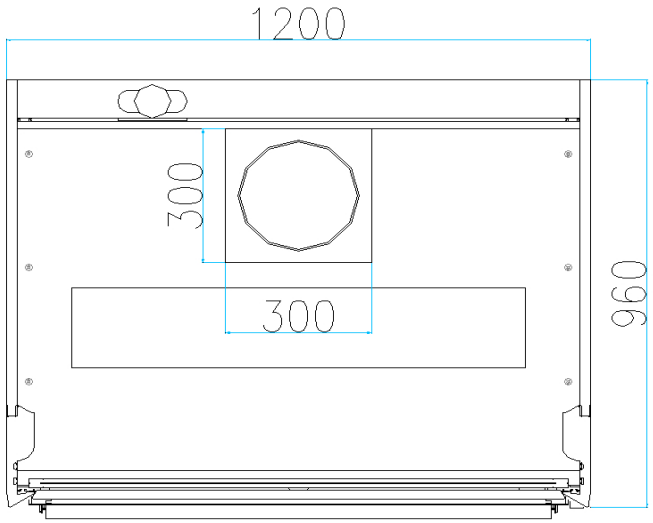
9. Optical sensor

The front window does not leave when it detects an obstacle in its path. It allows for unmanned opening when the user has his hands occupied.

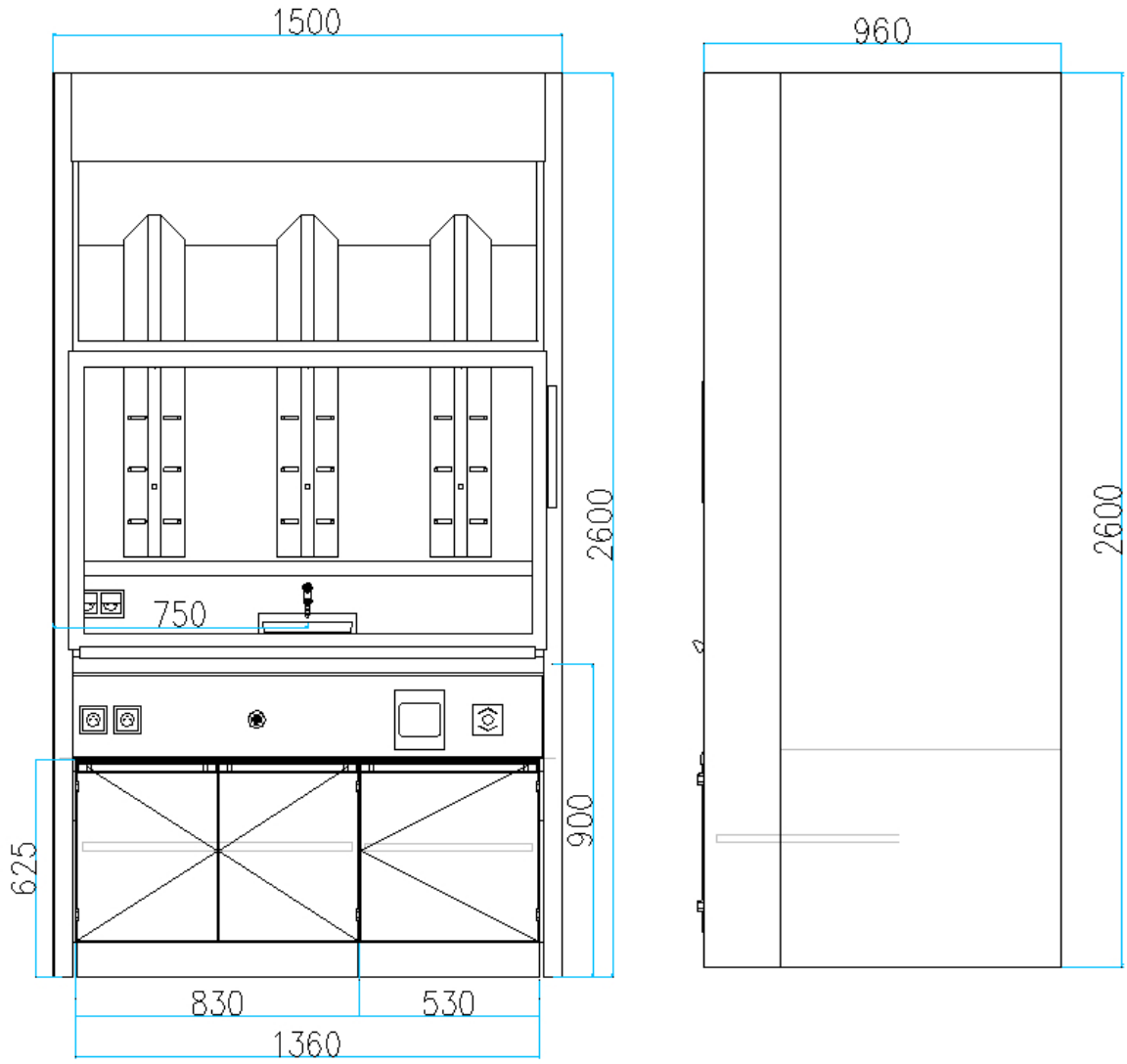
10. Active air intake

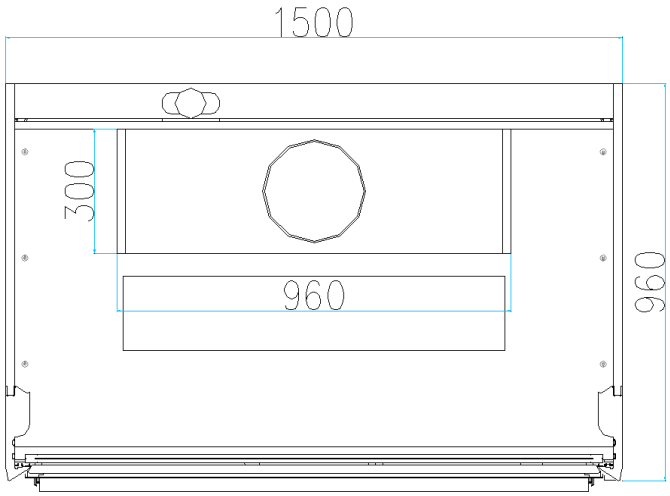
The air flow is actively supported by the fans placed in the front aluminium frame.



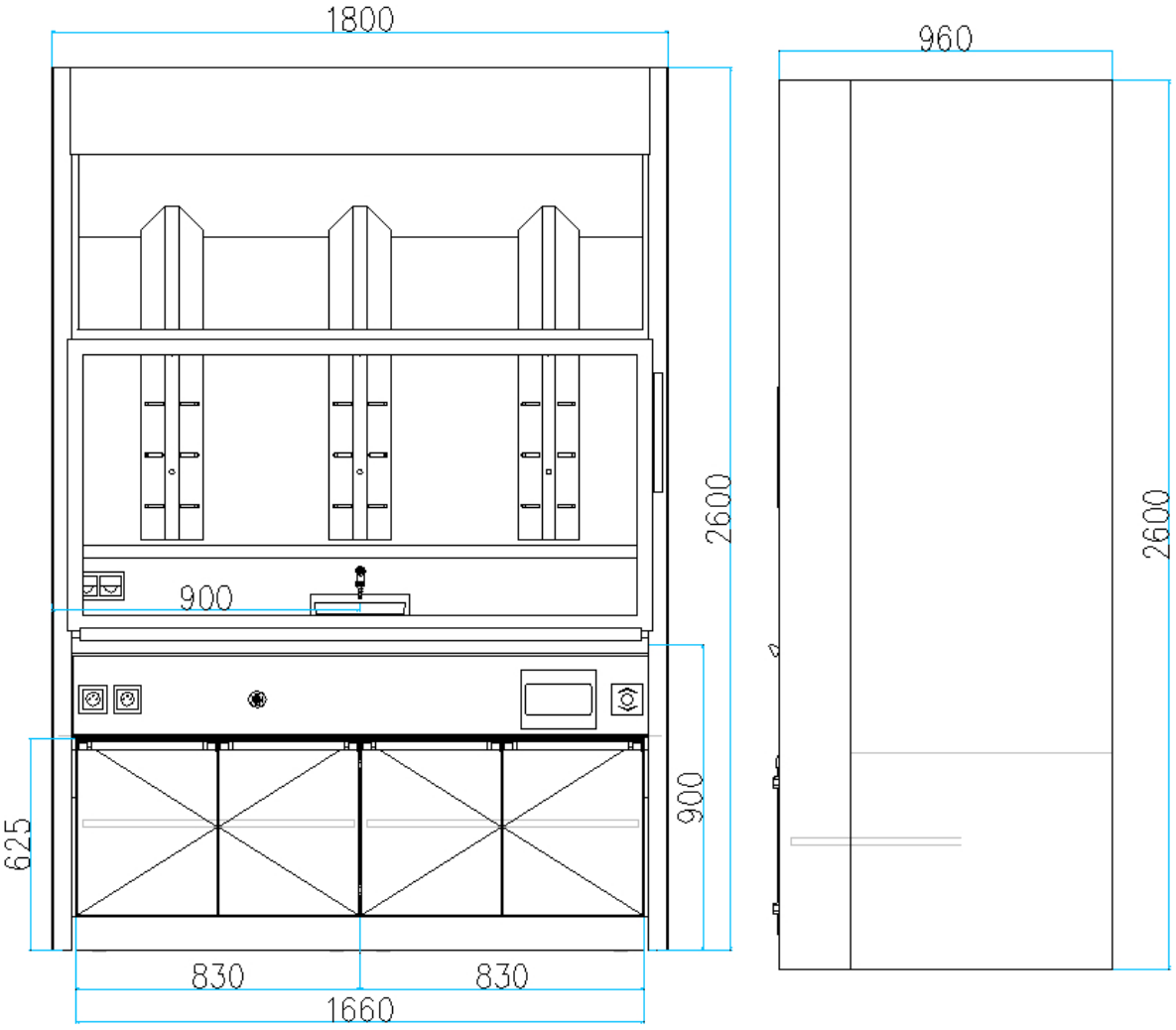


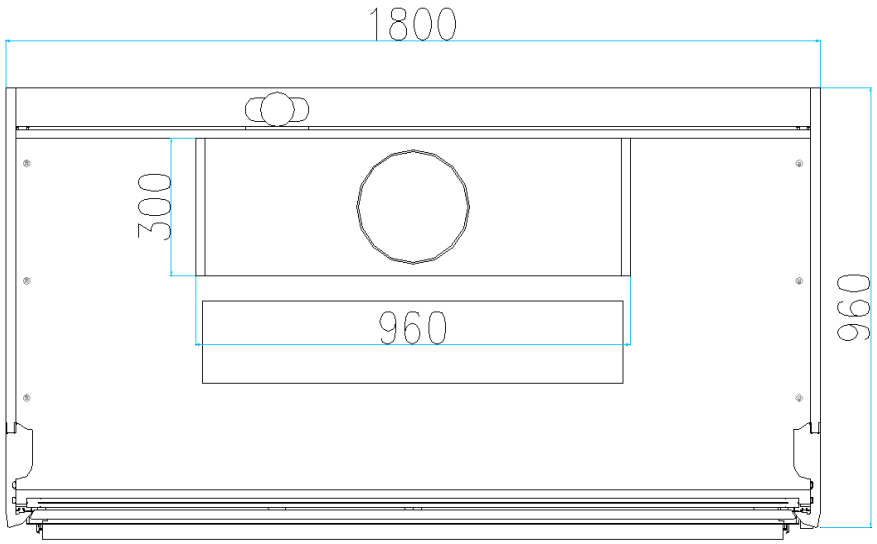
Technical drawings of the 1200 mm fume hood





Technical drawings of the 1500 mm fume hood





Technical drawings of the 1800 mm fume hood