



FUME CUPBOARD

Installation, User guide and Service Manual

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INSTALLATION

Installation of the Fume Cupboard

The fume cupboard is always held in the legs, upright, when transporting it to the space reserved for it. The glass in the fume cupboard can break if you move it, for example, by holding the glass or the moldings. The accessibility must be ensured, concerning such as doors and stairways.

The fume cupboard with manual height adjustment:

The fume cupboard can be transported either sideways or upright.

Raising the fume cupboard to the operating height, if it is lowered for easier transport:

The support blocks, which are included in the shipment, will be placed in front of the legs, as shown below. Two persons should lift the fume cupboard. The support blocks are dimensioned according to the operating height of the fume cupboard. The foot bolts are tightened and the support blocks removed.



The fume cupboard with electrically adjustable height:

Transport has to be done only in an upright position due to the risk of damage to the electric stand. If the fume cupboard does not fit in a vertical position, the electric legs must be removed. To remove the legs, the cupboard must be lifted from the steel frame structures, for example with a stacking trolley, from the lifting points shown in Figure 1. The points differ depending on the model of the stand.

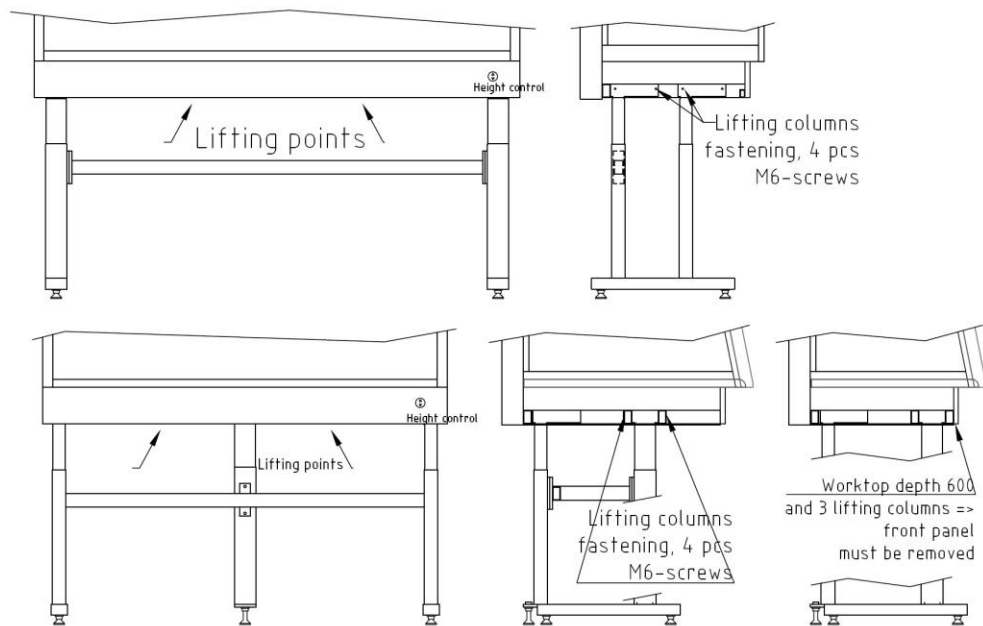


Figure 1. Lifting points of electrical fume cupboards and instructions for removing the legs.

The fume cupboard is aimed to be installed as close to the wall as possible, taking into account the limitations of the installations etc. The cupboard is adjusted straight using the adjustment pawls and a spirit level. An eventual lower cabinet will be installed as well as the suction of the fume cupboard. The water, electrical and duct connections will be directed to the places reserved for them.

The coupling surfaces for designing and contractors are shown for the fume cupboards VISU Pro and VISU ProFocus (Fig. 2), and for the VISU ProFlex (Fig. 3).

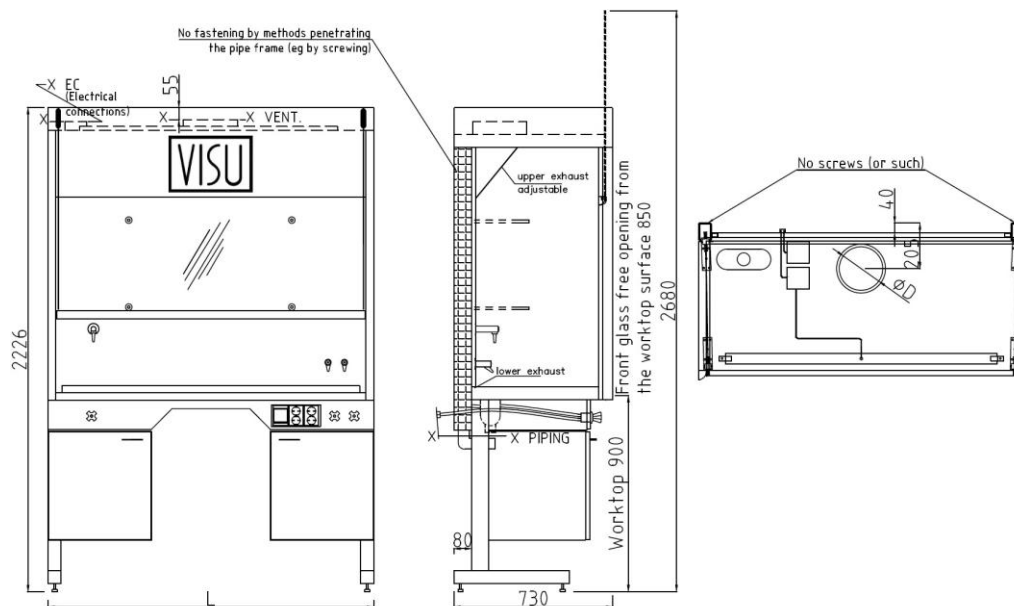
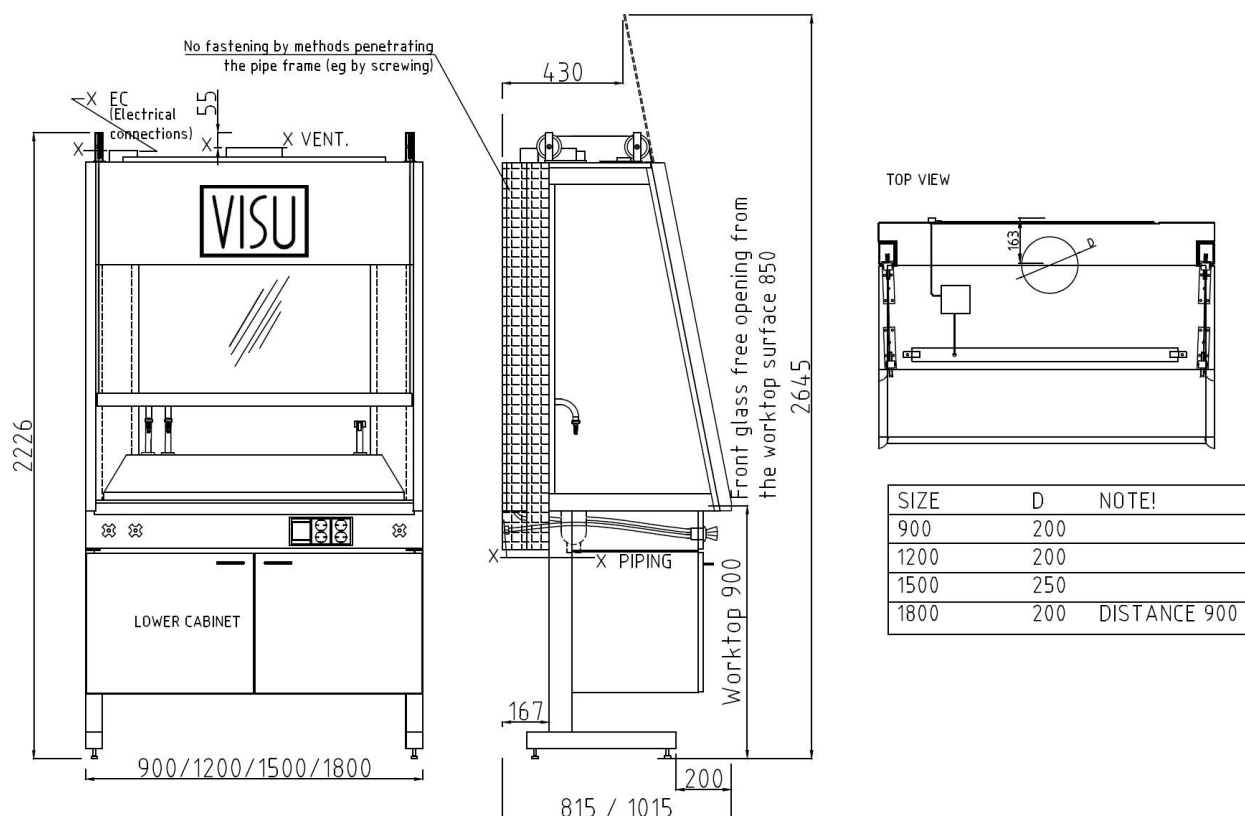


Figure 2. Schematic for coupling surfaces for the fume cupboards VISU Pro and VISU ProFocus.



HVAC-installation

In the fume cupboards, the water and gas taps are installed with flexible steel braided hoses. The most common connection sizes are shown in Table 1.

Table 1. The most common hose connections.

Media	Building	Fume cupboard
Water	½" external thread	½" internal thread
Technical gases		

Figure 4 shows the recommended HVAC connection heights for fume cupboards with a fixed level height or an adjustable height of 750-1000 mm. If the pipes run horizontally in the wall, the recommended installation height is a maximum of 550 mm. The installer of the building services system must ensure that the fume cupboard is able to move its full trajectory so that the joints or connecting hoses are not subjected to harmful draft or pinching. The connection points must be located laterally within 200 mm of the corresponding operating valve in the fume cupboard so that the length of the connection hose is enough for installation.

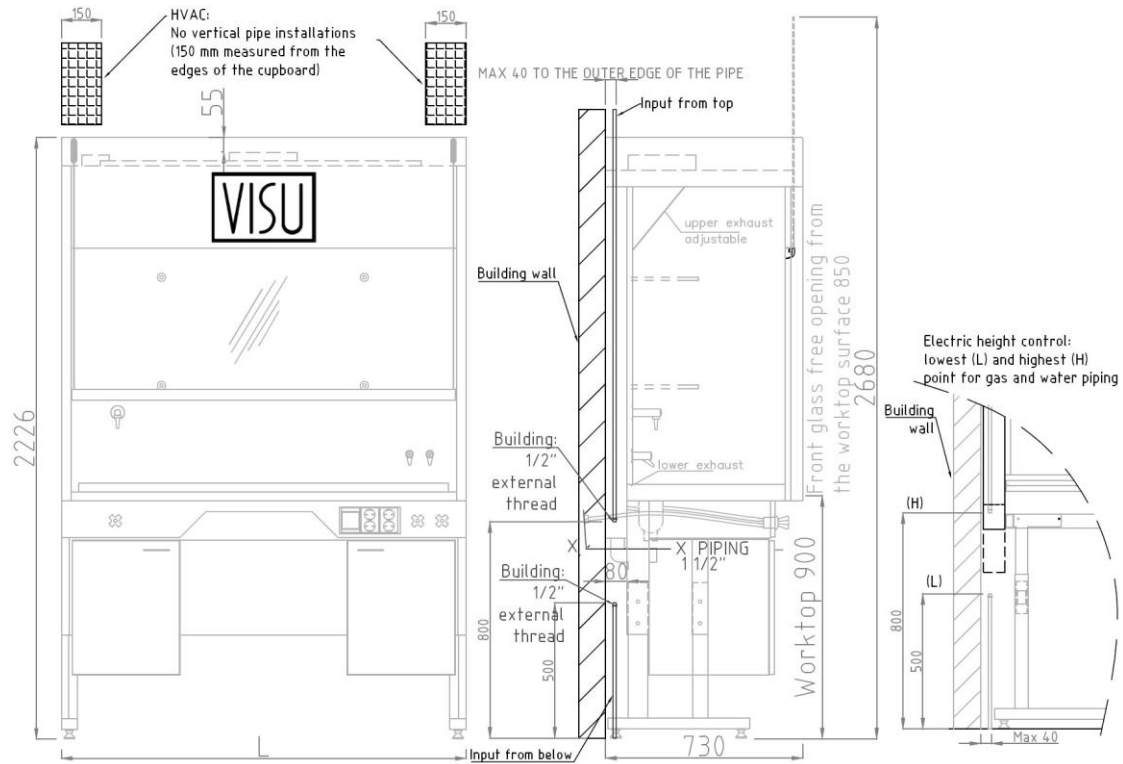


Figure 4. HVAC connection heights for cupboards with a fixed or an adjustable height of 750-1000 mm.

USER GUIDE

Generally

1. Before starting the work, check the air flow in the sash opening or in the function indicator on the fume cupboard, if installed.
2. Keep the fume cupboard sash as close as possible during use and closed when not in use.
3. Unnecessary objects in the fume cupboard block and impede the flow of air. Therefore, do not use the fume cupboard as storage space.

Electrical functions of the fume cupboard on the front panel

Depending on the type of fume cupboard:

- Fume cupboard interior light ON/OFF-switch
- Ventilation control
- Indicator lights
- Sockets
- A residual-current device (RCD)
 - 16 A / 30 mA
 - After tripping the RCD, the devices must be disconnected and the switch retuned.
 - The function of the RCD is checked by pressing the "T" test button.
The switch must then switch off. If this does not happen, contact the supplier of the fume cupboard or an approved electrician.
 - The inspection must be carried out at regular intervals, eg once a month.

Water and gas taps

The water and gas tap handles are located on the front panel, according to the order. The general color coding system EN 13792 is used to identifying.

- Cold water – Green
- Hot water – Green/Red
- Compressed air – Light blue
- Burning gases – Yellow
- Vacuum – Dark grey
- Nitrogen – Dark blue

The taps for burning gases operate as follows:

- Gas tap open – Press in the tap and turn counterclockwise.
- Gas tap closed – Turn the knob clockwise to the end position and let the knob to return.

Additional Safety Features

If the fume cupboard is implemented in accordance with EN 14175-2, it has the following additional safety features that are not part of the standard fume cupboard structure:

- Sash lifting limiter
- Sash Emergency brake

The sash lifting limiter prevents the glass from rising more than 500 mm without manual release. The releaser is located to the left from the sash, see figure 5. The release is done by turning the knob clockwise, after which the sash can be lifted unobstructed. The sash goes down without limiter.



Figure 5. The lift limiter on the Fume cupboard.

The patented emergency brake automatically stops the sash if the wire breaks. If resistance is felt when lifting the sash, check the top of the fume cupboard at the rear corner that the wire brake lock is in place and that the brake does not rub against the door wire. The emergency brake system should not be touched in other cases. The operation of the system is shown in Figure 6.

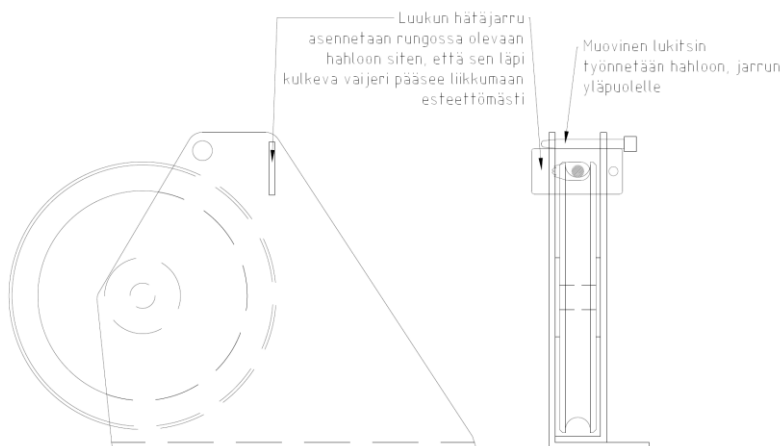


Figure 6. Description of the emergency braking system.

SERVICE

Replacement of Light Fixture

Built-in LED lights are used in the fume cupboards. The light fixture may only be replaced by an approved electrician. The following table shows the luminaires suitable for different width cabinets.

Fume cupboard width (mm)	900	1200	1500 ja 1800
LED-light output (W)	10	15	20

Wires

The wire for the fume cupboard sash is made of plastic-coated acid-resisting steel. The wire has to be inspected inside and outside the fume cupboard. Attention should be paid to the integrity of the plastic shell and whether the wire is corroded or broken. In case of doubt or if you need a new wire, contact the cabinet manufacturer.

It is recommended to check the condition of the sash wire for the first time 5 years after commissioning. The user organization then determines the desired inspection interval, for example 1-5 years. A short inspection interval is especially recommended in corrosive and warm environments.

Worktop cleaning

The worktop is usually made of acid-resistant steel, which should be wiped and dried after each use to prevent spillage. All-purpose cleaners are best suited for cleaning. Adhering contaminants can be removed, for example, with a non-ferrous abrasive cloth. The material is not scratch resistant, so the use of steel wool should be avoided. The polypropylene worktop is recommended to be cleaned like the steel worktop.

The ceramic worktop has excellent durability properties, which also applies to cleaning. However, the manufacturer recommends the environmentally friendly detergents, as well as drying with a clean cloth.

Suction System

The construction of the fume cupboards is designed so that no maintenance is required during use according to the instructions. If the need for cleaning arises, the cover plate of the fume cupboard suction duct can be removed and the necessary cleaning performed.

VISU Pro and VISU ProFocus:

The entire background is removed in one piece. First, loosen the ceiling mounting screws at the top, then remove the bolts in the center of the fume cupboard backing.

The contractor must take care of his or her own protection, for example due to possible hazardous substances on the surfaces and to avoid accidents.

VISU Proflex:

Top suction: The top suction box is opened by removing the supporting screws. The plates are then carefully removed from the inside walls of the cupboard and cleaning is performed.

Underflow: Underflow measures are usually performed only when water or gas connections are added to or removed from the fume cupboard. They can be accessed by removing the box behind the cover plate. The box must be cleaned of old adhesive before reassembly.

Glass

The glasses in the fume cupboard are laminated glass and / or polycarbonate plastic. Both are washed with a standard all-purpose cleaner without rubbing. In particular, polycarbonate is not resistant to oxidizing acids, bases, solvents or water above 60 degrees.

General service

The manufacturer recommends general maintenance of fume cupboards approximately every 5 years. During maintenance, the functions are checked, the moving parts are cleaned and lubricated, and the necessary adjustments are made to ensure proper operation. If necessary, the glasses in the fume cupboard can also be replaced. Maintenance can be performed without moving the fume cupboard. Service can be ordered directly from the fume cupboard manufacturer Visu Kaluste Oy or from the distributor of the product.