



Fume Cupboards

Standard fume cupboard

The standard fume cupboard type AS is used for general use, both in industrial laboratories and in hospitals, universities, research and inspection institutes, control stations, etc.

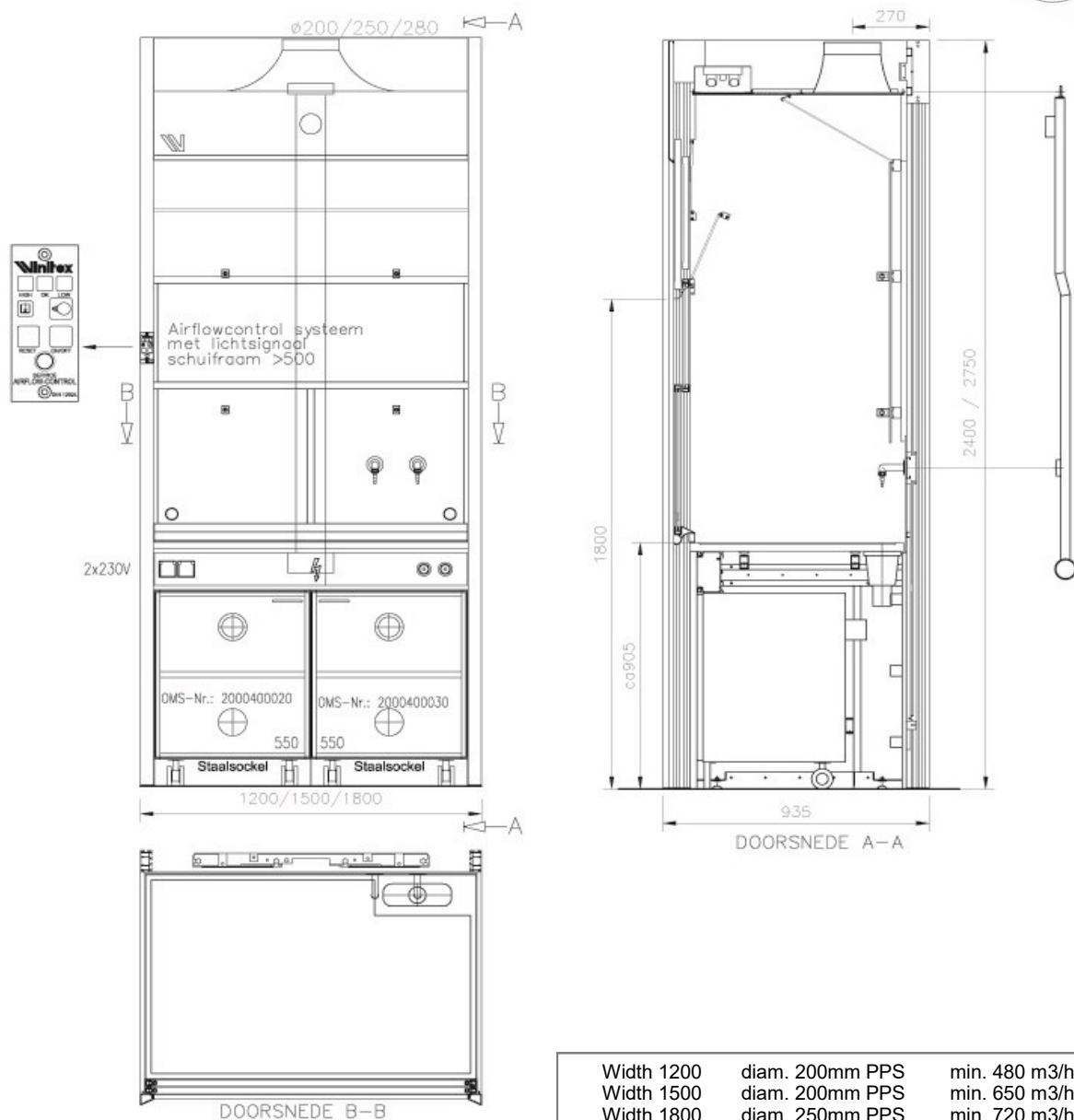
The fittings and electrical facilities can be fitted to specification.

In addition, there are various worktop and accessory options for fulfilling individual wishes.

The fume cupboard is permanently mounted and must be connected to an extraction system.

Due to the construction, an air roller is created in the fume cupboard that ensures that gases and vapors cannot escape from the cupboard.

We recommend acrylic sliding windows when working with **HF** (hydrofluoric acid) and flow baffles and possibly a PP cabin in connection with the etching effect of this substance.



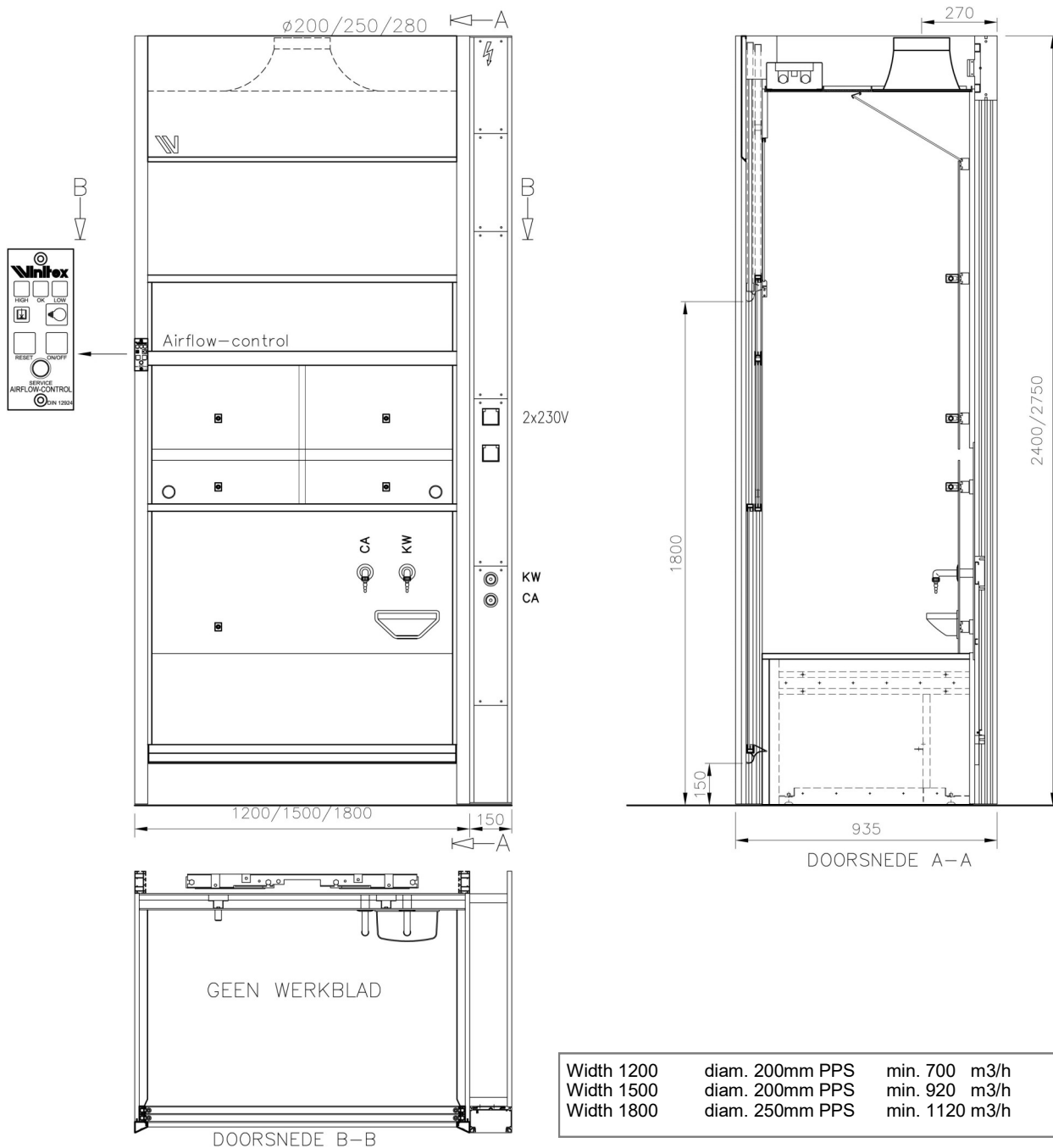
Type: Standard Fume cupboard AS (Always Safe)

Not suitable for work with radioactive substances, micro-organisms and open destruction works.

Drive-in fume cupboard

The drive-in fume cupboard is especially suitable for installing high installations. The drive-in fume cupboard has no worktop, but is placed directly on the floor. Equipment and setups can therefore be driven in or built up on the floor.

The fittings and electrical facilities can be operated from the vertical control panel (to be provided on the left or right). The vertical sliding window consists of one large window with the advantage that the user is continuously protected against broken glass. During manipulations in the cabinet, the horizontal sliding windows are worked, so that the vertical sliding window can remain closed.



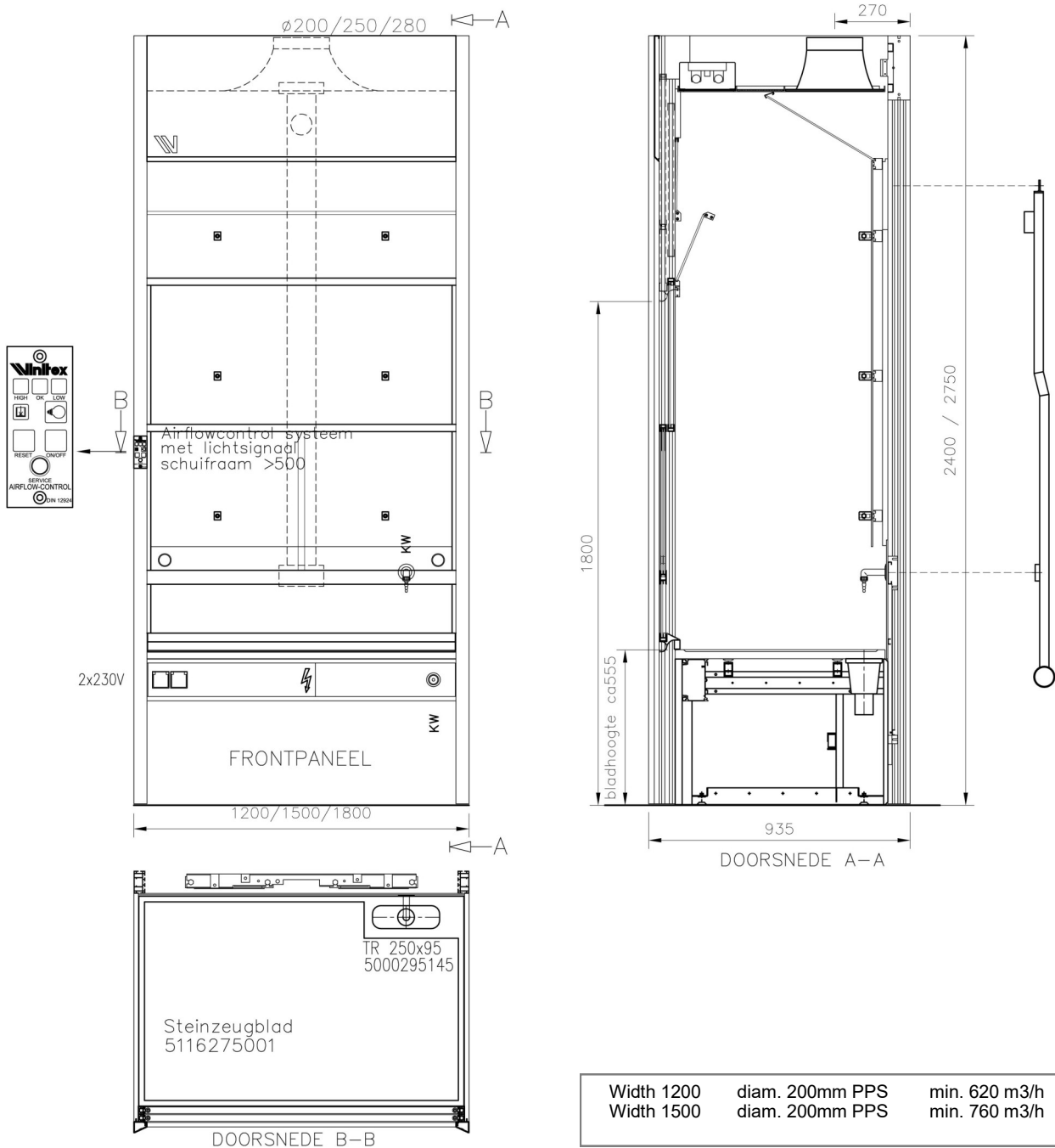
Type: Drive-in fume cupboard AS (Always Safe)

Not suitable for work with radioactive substances, micro-organisms and open destruction works.

Walk-in fume cupboard

In those cases, where more working height is required than with the standard fume hood, the Walk-in fume cupboard offers a solution. The cabinet is fitted with a low-placed worktop.

The front has one vertical and two horizontal sliding windows. If the vertical sliding window is left completely closed during manipulation in the cabinet and works through the opening of the horizontal windows, the operator is optimally protected against splashes and hazardous substances at all times.



Type: Walk-in fume cupboard AS (Always Safe)

Not suitable for work with radioactive substances, micro-organisms and open destruction works.

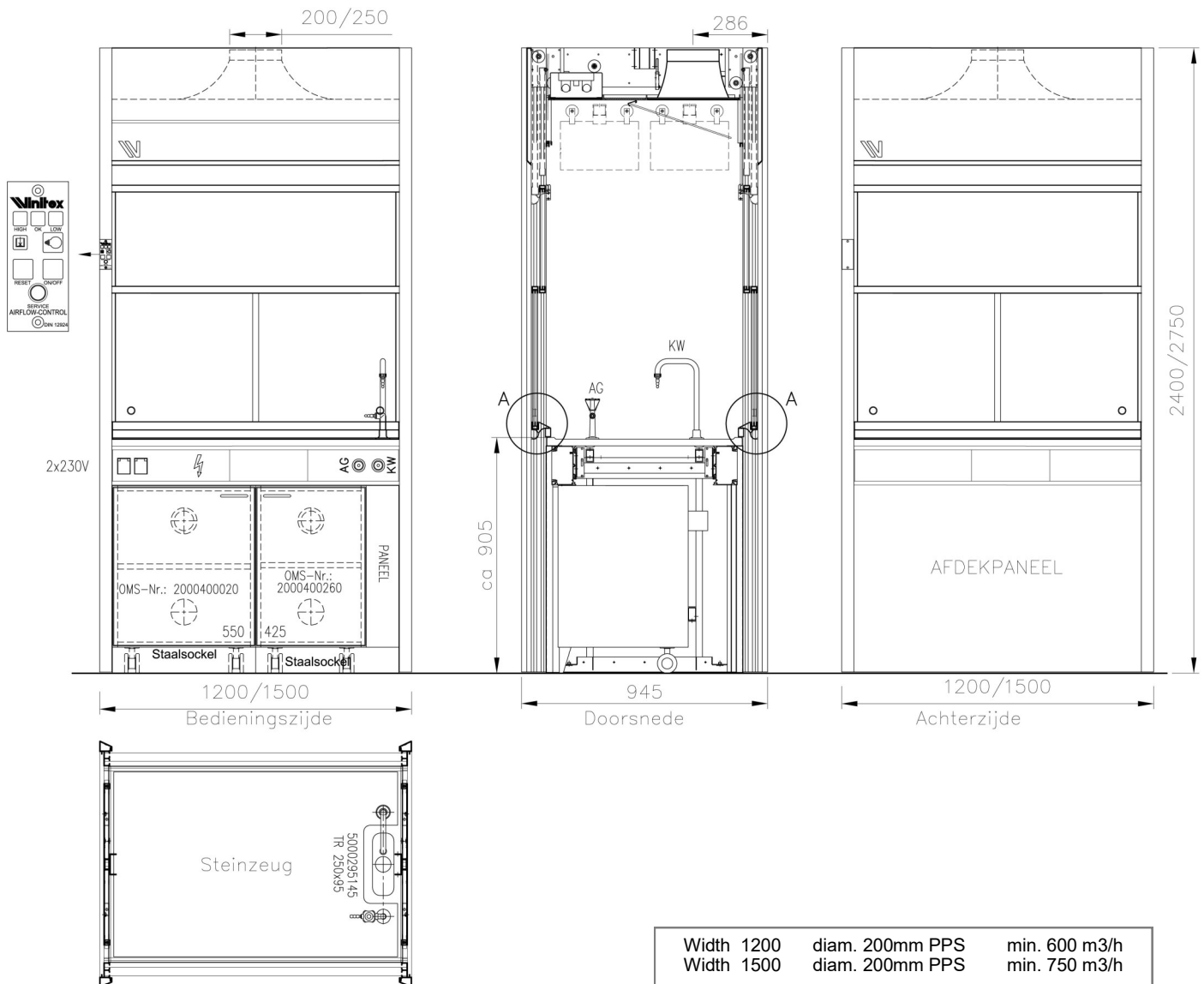
Instruction fume cupboard

Where there is a need for a pass-on fume cupboard, such as between the TOA room and the classroom, the instruction fume cupboard is an excellent solution.

The fume cupboard has sashes on both sides. However, there is always one side closed for air-technical safety to function.

If the cupboard does not function as a pass-through fume cupboard, but only as an instruction cupboard, it can also be fitted with one sash and one fixed window.

Electricity and fittings are provided on one side as standard. Optional on both sides.



Type: Instruction fume cupboard AS (Always Safe)

Not suitable for work with radioactive substances, micro-organisms and open destruction works.

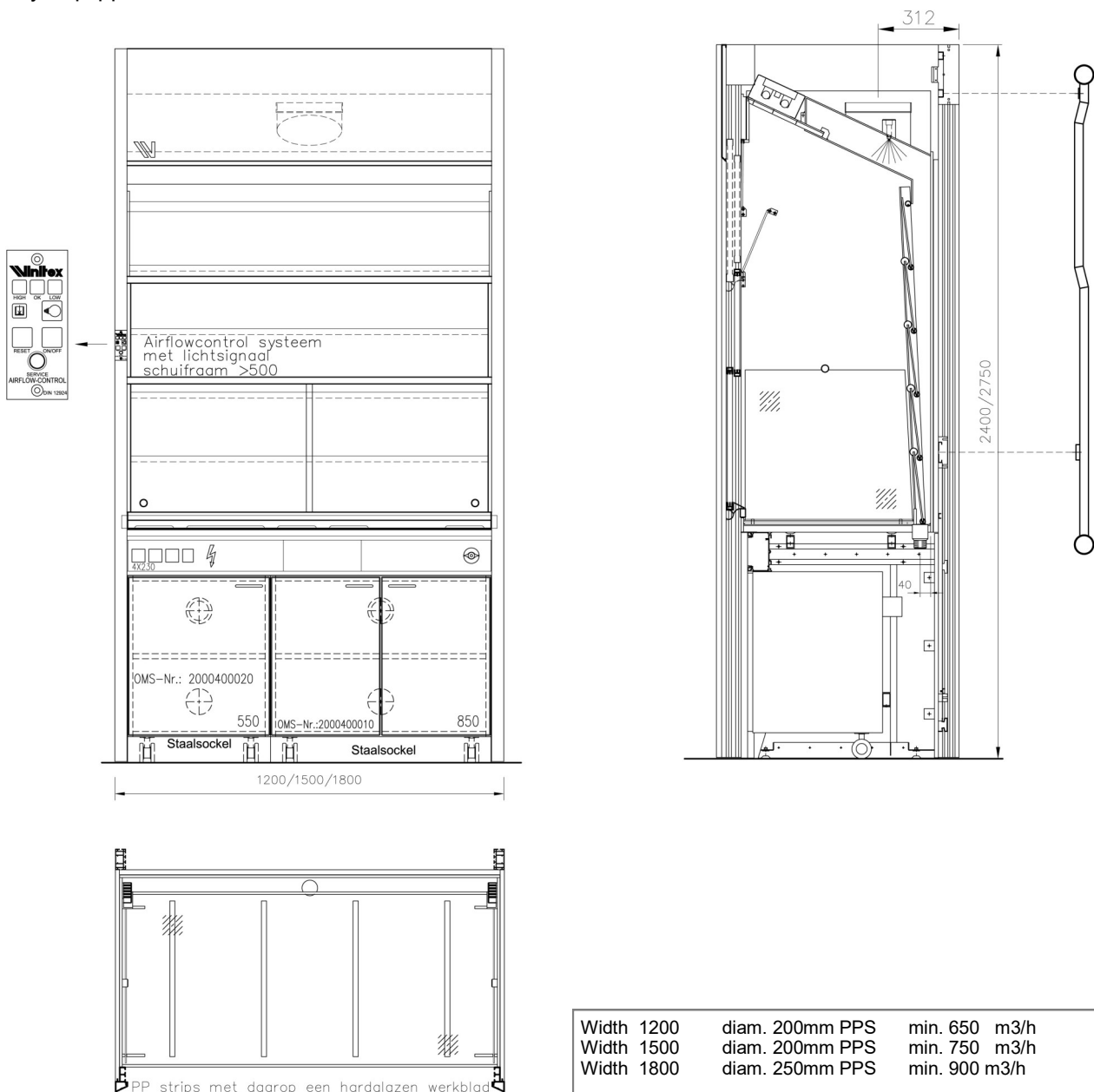
Destruction Fume cupboard

Suitable for open, thermal destruction with aggressive media such as Nitric acid and Perchloric acid. The structural design of the fume cupboard and the materials used in the workspace determine the options for use when it comes to aggressive media.

The standard destruction fume cupboard is equipped with a complete synthetic cabin. This cabin is made of seamlessly welded PP with spray installation, heat shields of enameled hard glass and a hardened glass plate worktop, which is placed on PP strips for a "floating" construction. The destruction fume cupboard is standard equipped with a build-in drip catcher with a capture percentage of 99.9% at a droplet size greater than 45 µm.

Option

Depending on the work, it is also possible to opt for a ceramic covering or other synthetic materials, possibly equipped with a scrubber and / or neutralization unit.



Type: Destruction fume cupboard AS (Always Safe)

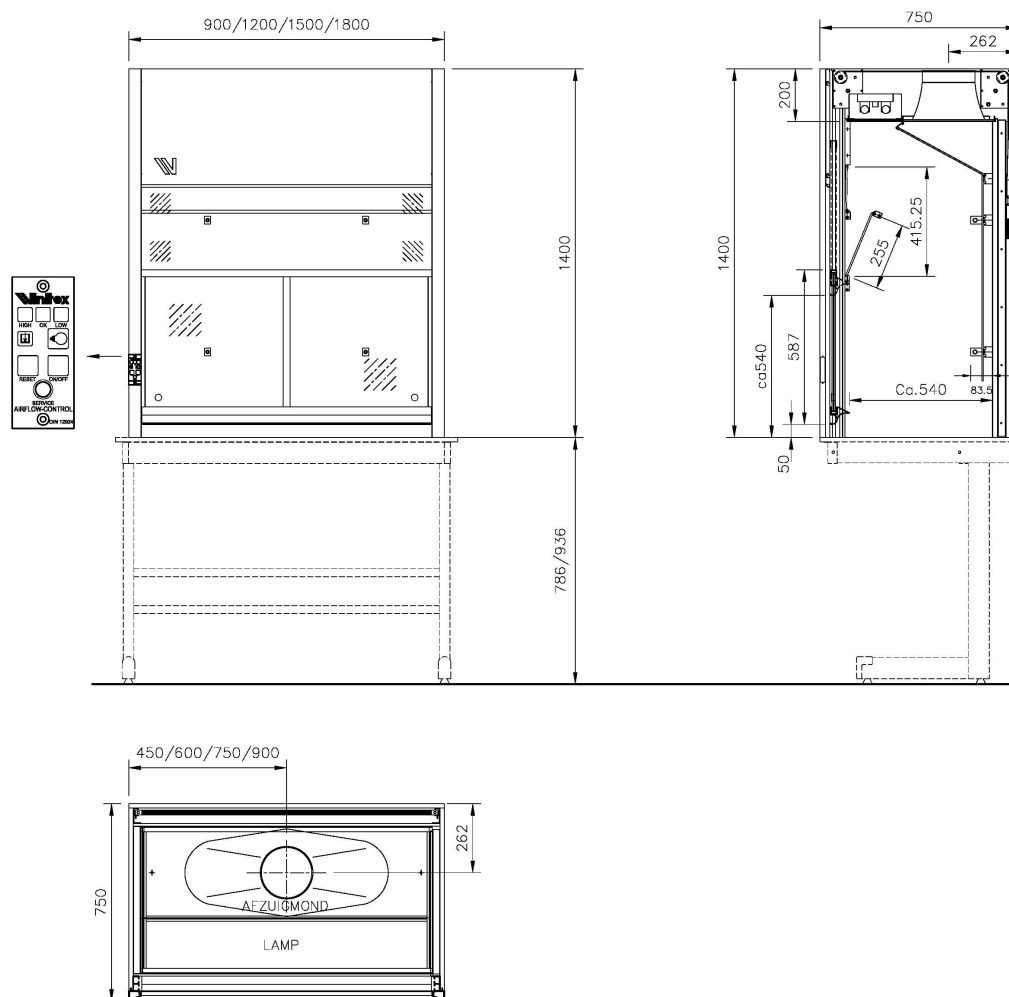
Not suitable for work with radioactive substances and micro-organisms.

Bench mounted fume cupboard

This fume cupboard is simply placed on a table. With a cabinet depth of 750 mm, the cabinet fits exactly on a Vinitex laboratory table or on existing furniture. The top part of the cupboard is the same as a normal fume cupboard and the operation of the cupboard is identical.

The fume cupboard is ideal for light chemical work in a laboratory, a room with existing furniture or in case of lack of space.

The fume cupboard is available in widths of 900, 1200, 1500 and 1800 mm. Height: 1400 mm
 The fume cupboard is supplied excluding worktop, taps and electricity (must be provided on the table).
 The table fume cupboard is supplied with an airflow control unit as standard.



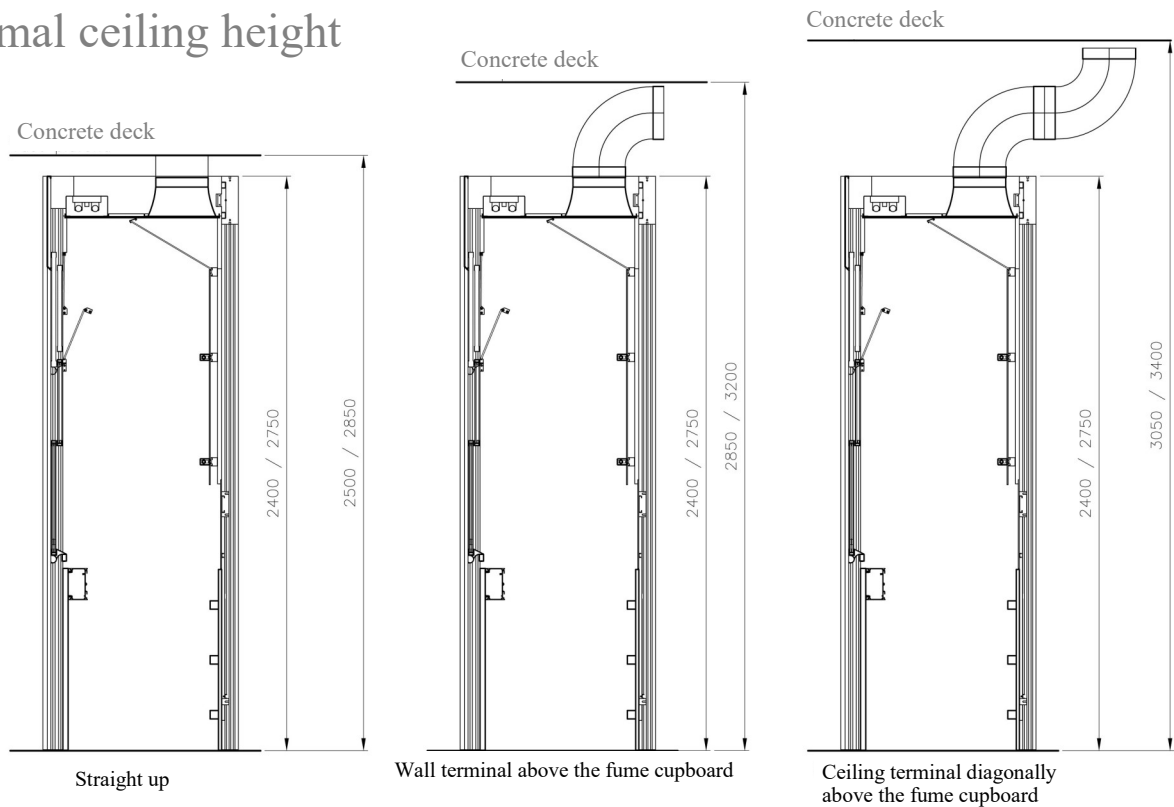
Type: Bench mounted fume cupboard AS (Always Safe)

Not suitable for work with radioactive substances, micro-organisms and open destruction works.

Mechanical exhaust

A fume cupboard must be connected to an external extraction system for proper operation. Depending on the connection, a **minimum ceiling height** of;

Minimal ceiling height



The standard fume cupboards are tested according to EN 14175-3 with extraction capacities of resp. 480/600/720 m³ / h. Depending on a number of external factors, it may be advisable to adjust the extraction capacity.

The decision to deviate from the “standard” extraction capacities is influenced by the factors that determine the (inhalation) risk in a chemical experiment;

- the amount of substance to be processed
- the volatility of the substance under the given conditions
- the type of operation, open or closed
- the toxicity of the substance
- the flammability of a substance

Worktops

There are various options for worktops in a fume hood. The choice of materials is based on the activities and chemicals used.

Seamless Steinzeug (ceramic) worktop according to DIN 12916, RAL 7035 (light gray speckled). Blade thickness 26 mm. Steinzeug is resistant to acids, alkalis, salts and solvents at any concentration and temperature (with the exception of HF, Hydrogen fluoride). During a thermal process (1200 degrees) ceramic glazes are melted so that the top layer is glazed.

White, glazed ceramic tiles (8mm), grouted with acid-resistant epoxy cement and a PP water-resistant edge (H = 42 mm) all around. The tiles have a high hardness, excellent chemical resistance and good heat resistance, with the exception of hydrogen fluoride and hot lye. Carrier panel 25mm thick water resistant plate.

Full core Trespa or equivalent material, 16mm thick. Fitted with a decorative surface based on melamine impregnated paper. Trespa is a durable material with good chemical resistance and excellent mechanical properties. Trespa has good resistance to organic solvents such as acetone, toluene, xylene and the like. The worktop is also resistant to disinfecting and cleaning chemicals, food juices and dyes. Not suitable for biochemistry (when there is a water barrier edge)

Stainless steel, quality AISI 304. Very suitable for biochemistry and for work with radioactive substances. Stainless steel has good heat insensitivity. The material is slightly sensitive to scratches and very sensitive to chlorine. City water, swimming pool water, bleach, hydrochloric acid and iron trichloride are very aggressive to stainless steel. Option for AISI 316. It is more resistant to salt corrosion and more corrosion resistant.

Polypropylene (PP) Top thickness 5 mm, surrounded by a PP water barrier edge. Carrier panel 25mm thick water resistant sheet material. High acid, lye, salt and many solvents resistant. A high-quality thermoplastic plastic. The material is slightly sensitive to scratches and heat.

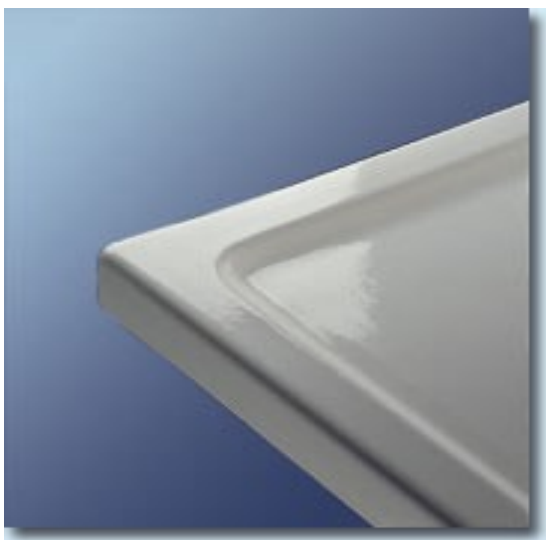
All fume cupboard tops are fitted with an all-round water barrier as standard.

Drip cup

By default, a funnel is included at the back right of the worksheet.

Environment: All drains are fitted with a water barrier, so that spilled liquids are not flushed directly down the drain (according to EN 14175-2).

More information about material selection and other options on request.



Seamless steinzeug worktop



White ceramic tiles

Appendages, electricity & accessories

For the various media, the panel valves and spouts are color-coded according to EN 13792: 2000. Coding is based on colored controls, which indicate the main groups. The subdivision in which the medium is specified in more detail is done by a color ring with a color picture in it.

If desired, the fume cupboard can be fitted with a few 230V / RA wall sockets at the front (incl. Hinged lid).

In addition to the standard facilities, the fume cupboards can be expanded with the following accessories:

- 230V sockets in the fume cupboard incl. On / off switch (front fume cupboard)
- 380V sockets
- 42 volt wall sockets
- Cable entry in the side wall
- Separation opening with sliding acrylic panel.
- Explosion-proof accessories

Maintenance and Control

Although Vinitex fume cupboards require little maintenance, we recommend the following maintenance depending on the intensity of use of the fume cupboard:

The fume cupboard can be cleaned with normal cleaning agents. Concentrated chemicals should be removed as soon as possible to avoid damage to the surface. The use of organic solvents is to be avoided from a health point of view. Before maintenance work on the fume cupboard, it must always be thoroughly cleaned (chemical radiation) by the client on forehand.

Treat horizontal and vertical sliding windows once a year with silicone oil / spray. Provide optimum brightness for the lighting glass plate. Replacement of lamps should be left to qualified personnel.

The air-technical function of the fume cupboard must be checked annually. With the special service module and measuring equipment, Vinitex or one of its partners can take care of this for you, whereby an official measurement report is issued with the necessary comments and recommendations.

Regularly test the fittings for leaks and damage.

The electrical installation complies with NEN 1010. Regularly test the installation for function and damage

Technical description

Vinitex fume cupboard AS-12

Fume cupboard in accordance with EN 14175

Working height 900 mm.

Measurement fume cupboard	External m.	Internal m.
Width:	1200 mm	1160mm
Depth:	932 mm	790mm
Height :	2750 mm	1660mm
Depth of worktop	750 mm	750mm
Max. sash opening:	1800 mm	
Exhaust outlet diam.	200 mm	

Vinitex fume cupboard AS-15

Fume cupboard in accordance with EN 14175

Working height 900 mm.

Measurement fume cupboard	External m.	Internal m.
Width:	1500 mm	1460mm
Depth:	932 mm	790mm
Height :	2750 mm	1660mm
Depth of worktop	750 mm	750mm
Max. sash opening:	1800 mm	
Exhaust outlet diam.	200 mm	

Vinitex fume cupboard AS-18

Fume cupboard in accordance with EN 14175

Working height 900 mm.

Measurement fume cupboard	External m.	Internal m.
Width:	1800 mm	1760mm
Depth:	932 mm	790mm
Height :	2750 mm	1660mm
Depth of worktop	750 mm	750mm
Max. sash opening:	1800 mm	
Exhaust outlet diam.	250 mm	

Construction in accordance with EN 14175-2, certificate EN 14175-3.

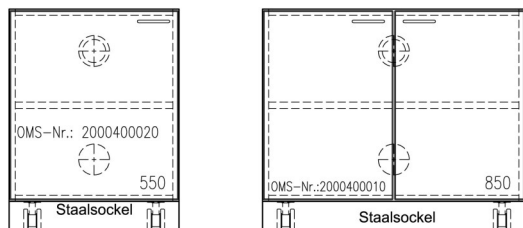
OPTION

Lowered fume cupboard H= 2400 mm.



Under cabinet

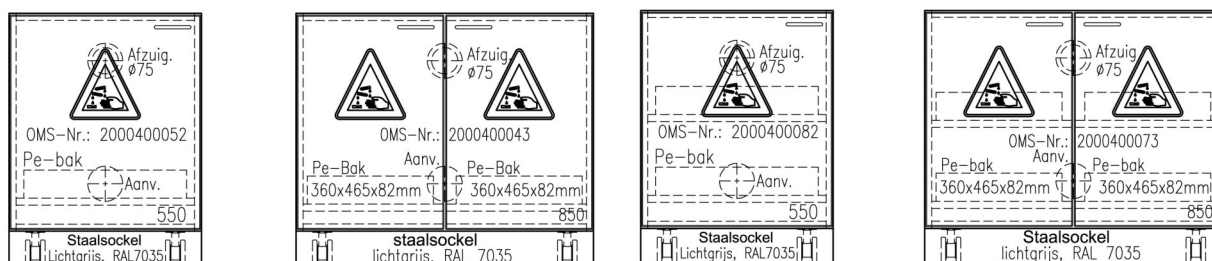
The cabinets are placed underneath the service bar of the fume cupboard and can be replaced or adjusted very easily because the cabinets are no part of the construction.



Standard cabinets with swing door(s) en 1 adjustable shelf.

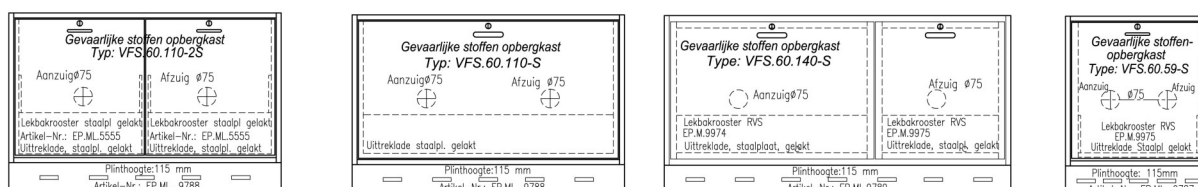
Equipped with 2 wheels (rear) and finished with a steel plinth at the front.

De cabinets are connected to the exhaust of the fume cupboard (except for cabinets under the instruction fume cupboard).



Under cabinets with swing door(s) and pull-out shelf with PE collection tray for acids or alkalis. Equipped with 2 wheels (rear) and finished with a steel plinth at the front.

Acid/ alkaline base cabinets are provided with a separate extraction channel (diam. 75mm.)



Fireproof storage cabinet according to DIN 12925 / EN 14470 (different versions).

Fire-safe base units are provided with a separate extraction channel (diam. 75mm.)

In addition to base units, it is also possible to provide the fume cupboard with an open space for sitting work.

Pay attention!

Under cabinets in which dangerous chemicals, such as in acid/ alkalis and fire-safe storage cupboards, are stored, continuous mechanical ventilation must take place.

Other versions on request.