

DOWNDRAFT TABLE DT 100 / DT 150

APPLICATION

The downdraft table DT 100 / DT 150 was specially designed for use in laboratories and workshops. It can be used wherever painting (e.g. spot repair), gluing (solvents) or decanting takes place. The downdraft table was designed as a base unit to which different hoods can be attached.

The DT 150 was specially designed according to ATEX principles and is suitable for zones 22 (dust) and 2 (gas).*



Similar to image

AREAS OF APPLICATION:

- Painting work (e.g. spot repair)
- Gluing processes (solvents)
- Cleaning work (solvents)
- Transferring materials (e.g. powders, granulates or liquids)

THE SYSTEM INCLUDES NUMEROUS FEATURES:

- Height adjustment for optimum adjustment of the working height
- Movable safety screen for easy operation
- Differential pressure indicator for monitoring the saturation filters
- Activated carbon/BAC filter (optional)
- Foot switch (optional)

FUNCTIONAL PRINCIPLE

The system collects dusts and gases that are generated during work in the cabinet. They are sucked downwards and passed through the prefilter (M5) into the downstream particle filter (H13), where even very fine particles (0.1-0.3 μm) are filtered out reliably. The gaseous substances are then deposited or neutralised in the activated carbon/BAC filter.

The installed filters can be changed to meet the individual application.

* The filters can be easily changed from the top (prefilters and particle filters) or through the front door (activated carbon/BAC filter). Different prefilters can be used depending on the application.

PRODUCT FEATURES

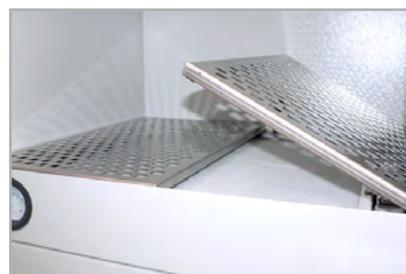
ADJUSTABLE SYSTEM HEIGHT, MOVEABLE SAFETY SCREEN

The height of the system can be adjusted (max. 100 mm) to the user's preferred working height by simply extending the feet of the downdraft table. The moveable safety screen allows the work area to be used optimally for the application at hand.



SIMPLE FILTER REPLACEMENT

This downdraft table includes the familiar multi-level design from the other TBH series. The system includes a prefilter and a particle filter, which together filter out all particles from the contaminated air. The filters can be easily replaced from the top of the system. To do so, move the safety screen upward and remove the stainless steel grates. The filters can now be easily removed.



EASY FILTER MONITORING

The system includes a differential pressure indicator for monitoring the saturation filter. This indicator displays the rising differential pressure of the filters as they become increasingly saturated. When a defined value is reached, the filters should be replaced, since the extraction level dissipates with increasing filter saturation.



ACTIVATED CARBON/BAC FILTER (OPTIONAL)

Depending on the application, the downdraft table can be optionally equipped with a gas filter (activated carbon + BAC). This filter is replaced from the front of the system through the door of the filter module.



FOOT SWITCH (OPTIONAL)

The system can be optionally purchased with a factory-installed foot switch to further improve the ease of operation.

OPERATING ELEMENTS:

Main switch



Emergency switch



Differential pressure indicator for filter monitoring



ADSORPTION OF GASEOUS SUBSTANCES

Two complimentary filter materials are used for the adsorption of gaseous substances. The activated carbon facilitates the physical adsorption process while the BAC granules facilitate a chemical adsorption process. Neutralisation of specific gaseous substances is achieved through chemical binding with the reaction substance that is deposited on the carrier material. Because the physical and chemical adsorption processes are complementary, an extremely wide range of gases and odours can be collected.

Activated carbon



BAC granules



Activated carbon/BAC



SPECIAL DESIGN ACCORDING TO ATEX PRINCIPLES

The downdraft table DT 150 was specially designed according to ATEX principles. It was designed in particular for zone 2 (gas) and zone 22 (dust), which can arise during painting or decanting work, for example, respectively.



The German Ordinance on Industrial Safety and Health [BetrSichV] has broken new ground in the areas of health and safety and has expanded the requirements for explosion protection. For example, the employer is responsible for providing appropriate work equipment. The basic requirement for this is a zone classification according to BetrSichV (Appendix 3) and the ATEX directive RL99/92/EC (ATEX 137) as well as the creation of an explosion protection document. This can apply to areas where flammable dusts are used or could arise, where flammable liquids or gases are used or where an explosive atmosphere could arise (decanting/painting work).

The TBH downdraft table corresponds to category EX II 3 GD and is thus suitable for extraction of zones 2 and 22. We will gladly provide you with a sample explosion protection document.