

Accessioning station Zefiro 180 with stainless steel working plane

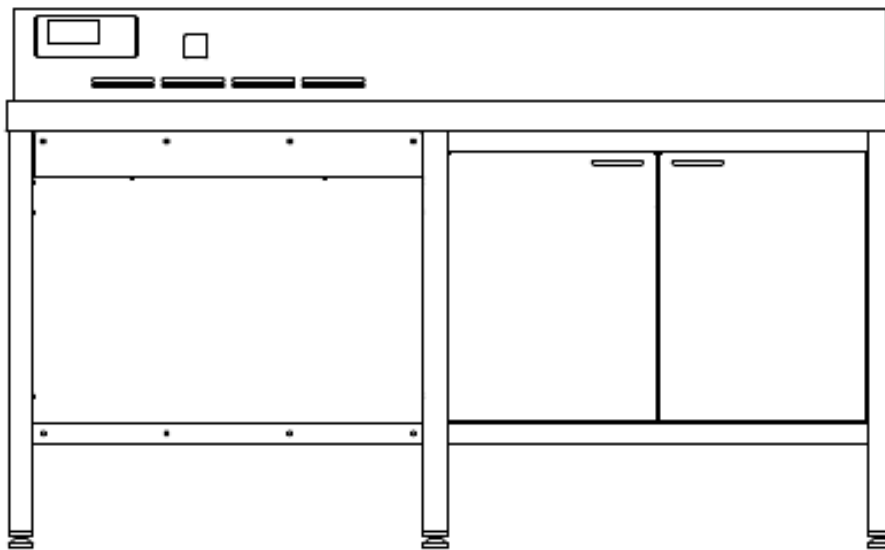
Ventilated workstation for operators protection

Ventilated accessioning station Zefiro

CODE BA18XX

Manufacturer: Diapath

Distributor: Diapath



The picture above shows the product, but it is indicative for dimensions and equipped accessories

General features

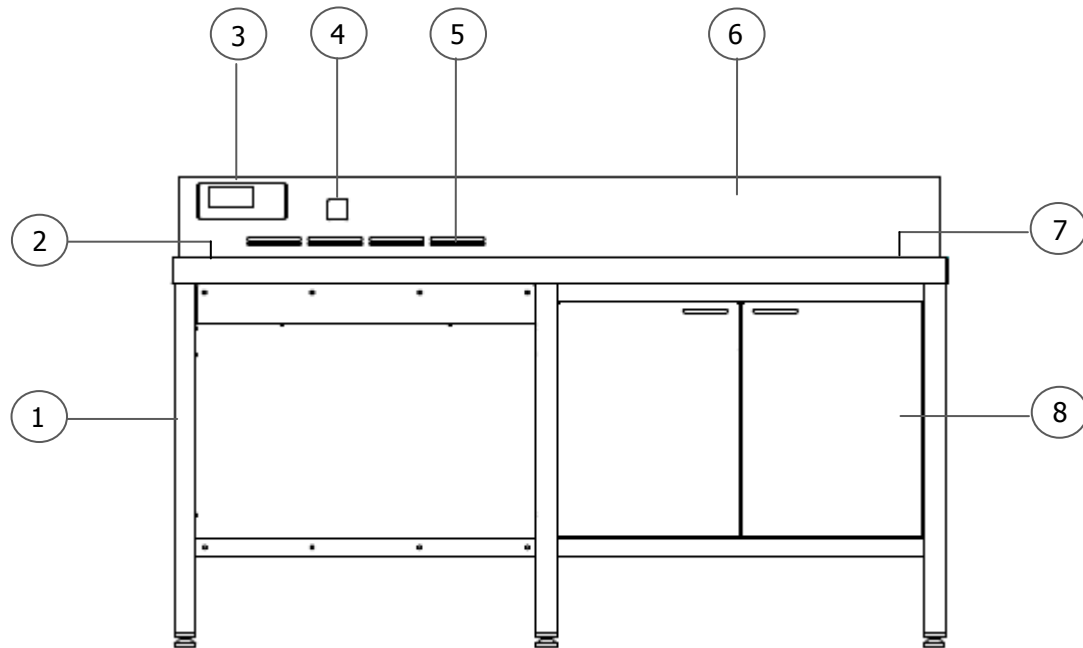
The Zefiro ventilated workstations are designed to protect the operator during operations that could expose him to inhalation of harmful vapors.

They are modern modular ventilated working stations that, depending on the desired configuration, offer an optimal solution in every step of specimen processing.

The attention to manufacturing materials ensures reliability and durability, offering meanwhile an innovative line and a functional and attractive design.

The accessioning station Zefiro is designed to protect operator during storing, accessioning and handling of specimens containing harmful substances.

The station operation is controlled by an electronic board with LCD color display on which are displayed all operation parameters.



The picture above shows the product, but it is indicative for dimensions and equipped accessories

Overview

- | | |
|------------------|-----------------|
| ① Base structure | ⑤ Suction grid |
| ② Grid plane | ⑥ Riser |
| ③ Control panel | ⑦ Working plane |
| ④ RFID reader | ⑧ Cabinet base |

Overview

Base structure

Tubular structure, entirely made of AISI 304 stainless steel, dimensions 1800x750x900 (WxDxH).

Control panel

Control console with membrane keyboard and LCD 4,3" color display where are displayed all process parameters.

Grid plane

Removable grid plane, made of AISI 304 stainless steel. Equipped with suction nozzles in the lower part inside the waste liquid collecting tank.

RFID reader

The accessioning stations Zefiro are equipped with a modern patented control system of filter exhaustion that informs the user about the need to replace filtering batteries. This system ensures that ventilated station works always in CE IVD certified conditions and that provides always the right protection to the operator.

Suction grid

Suction grid on the front riser to perform grid plane ventilation and to ensure the ventilation of the whole plane.

Riser

Front riser, made entirely of AISI 304 stainless steel. It ensures the maximum protection for the operator improving the performance of the ventilation system.

Working plane

The plane is made entirely of AISI 304 stainless steel with rounded edges. It has a smooth support surface and a working area with removable grid plane

Cabinet base

Comfortable cabinet base with winged stainless steel doors.

Functions

Zefiro ventilated workstations offer a number of functions designed to make easier and more comfortable the operations performed by users.



Possibility to manage exhaust fan speed by user interface.

Suction



Possibility to manage switching off delay of many functions, such as ventilation.

Function delay

Filtering batteries

The Zefiro ventilated hoods are equipped with activated charcoal filters and, optionally, with absolute filters (HEPA).

Each filtering battery consists of: synthetic fiber prefilter, activated charcoal filter and, where foreseen, HEPA filter. Filters have a duration limited to the amount of chemical agent absorbed.

Synthetic fiber prefilter



The first part of the filtering battery is composed by elements made of synthetic fibers, able to remove bigger dust particles. The use of these filters (dim. 500x510 mm) prevents the premature clogging of activated charcoal filters, in order to increase the longevity and effectiveness of micro charcoal granules present in the next filter part.

Activated charcoal filter



The second filtering part consists on cells of 10Kg of charcoals activated by chemical processes. Micro granules present in these cells are able to filter the air removing it from molecules of harmful or even toxic fumes. The activated charcoal filters may be specific for filtration of formalin or generic.

Diapath SpA, in its continuous effort to improve the service offered and the quality of its products, introduces in its ventilated hoods a patented electronic control system able to detect and save filtering battery expiry date. The filtering batteries must be periodically replaced with original spare parts approved and certified by the manufacturer.



Ventilation

The vapors containing harmful substances are suctioned by the nozzles on the elevation and in the area under the grooved plane.



Exhaust fans

The equipped exhaust fan is designed according to the following factors: type of hood, filtering battery (activated charcoal, absolute, anti-dust, etc ...), line of vapor exhalation, length of suction ducts.



Local exhaust fan 132 – SDB099007

Local centrifugal exhaust fan model 132 with casing and impeller made of spark-proof plastic material

- Rated power: 0.18 KW

Remote exhaust fan 202 – SDB099008

Remote centrifugal exhaust fan model 202 with casing and impeller made of spark-proof plastic material

- Rated power: 0.18 KW

Remote exhaust fan 222 – SDB099009

Remote centrifugal exhaust fan model 222 with casing and impeller made of spark-proof plastic material

- Rated power: 0.25 KW

Remote exhaust fan 252 – SDB099010

Remote centrifugal exhaust fan model 252 with casing and impeller made of spark-proof plastic material

- Rated power: 0.37 KW

Remote exhaust fan 282 – SDB099011

Remote centrifugal exhaust fan model 282 with casing and impeller made of spark-proof plastic material

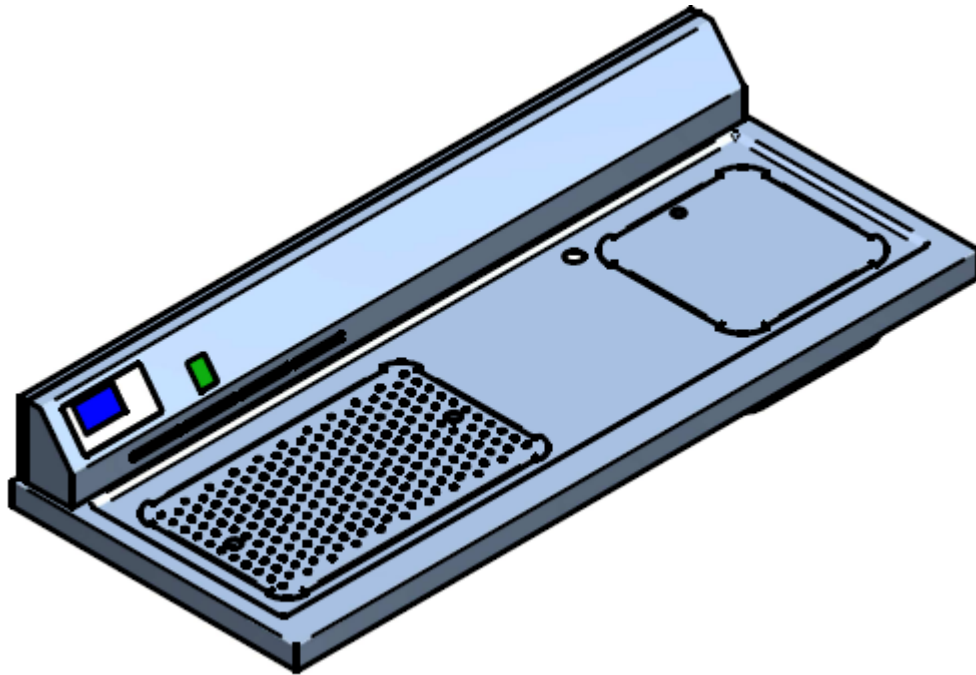
- Rated power: 0.75 KW

Remote exhaust fan 312 – SDB099012

Remote centrifugal exhaust fan model 312 with casing and impeller made of spark-proof plastic material

- Rated power: 1.5 KW

Working plane



The plane is made entirely of AISI 304 stainless steel, with smooth surfaces and rounded edges. The characteristic cradle profile ensures a good containment of liquids that might otherwise accidentally spill on the floor.

The plane has an area composed by a basin with removable grid plane and a smooth supporting area. The collecting basin of liquid waste, immediately under the grid plane, is equipped with suction nozzles.

Suction grid on the front riser to perform grid plane ventilation and to ensure the ventilation of the whole plane.

Total dimensions of the working plane: 1800X750 mm (WxD)

Dimensions of the suctioned basin with upper grid: 700X400X100 mm (WxDxH)

Available models:

AISI 304 stainless steel working plane – mod. 11

AISI 316 stainless steel working plane – mod. 41

Technical features

Dimensions	■ Width	1800 mm
	■ Depth	750 mm
	■ Total height	1087 mm
	■ Working plane height	900 mm

Total weight ■ Variable depending on configuration

Material	■ Plane	Available: AISI304/AISI316 stainless steel
	■ Base	AISI304 stainless steel

Power ■ 230VAC 50 Hz

Arrangements ■ Fume exhalation Ø 200 mm

Filtering battery

- 1 Filter made of synthetic anti-dust fiber
- 1 Activated charcoal or generic filter
- 1 HEPA filter, efficiency 99,97% (optional)

Exhaust fan ■ Verify power specifics in the dedicated section

Speed adjustment ■ Single-phase inverter sized according to exhaust fan model

Detection system for filtering battery replacement ■ RFID antenna

Alarm for filter replacement ■ Timer that counts the residual working time of filtering batteries and highlights the necessary replacement date

User interface ■ LCD color 4,3" display with membrane control keyboard

Zefiro ventilated accessions stations are manufactured according to rule EN14175