



**ZenBox**  
Acoustic Solutions for Laboratories

## Model ZB-1VP3 noise enclosure for vacuum pump



- 85% reduction in noise perception.
- Self-regulated fans with temperature.
- Overheating temperature alarm.
- Innovation design.
- Easy access to vacuum pump.
- Compatible with most existing brands in the market.
- Installation in only 4 simple steps.
- 3 year guarantee.

### Multilayer Acoustic Insulation

50 mm thick acoustic insulator formed by absorbent polyurethane foam and 5 kg/m<sup>2</sup> visco-elastic heavy mass, which provides the assembly with low dynamic rigidity, low transmission and high acoustic absorption generated by motors, compressors and vacuum pumps.

PU coating that protects and extends the life of the material, also facilitates the cleaning of the same.

Completely safe insulation as it is self-extinguishing.

**NOTE:** The inside of the enclosure is cover with this acoustic isolation, getting a noise reduction **up to 20 dB(A)**

## Ventilation System



- 3 ultra-quiet long-life fans (150.000 hours).
- Airflow of 187 m<sup>3</sup>/h
- The air is renewed every 2 seconds.

**NOTE:** Cold air is sucked through the bottom and more warm air is drawn from inside, thus creating a **negative pressure** inside the box.

## Three-position switch for fans



**Green LED:** Fans on

**AUTO:** Self-regulating fans with the temperature inside the box

**OFF:** Fans off

**MAX:** Fans running at the maximum power

**Red LED:** Overheating temperature alarm

## Overheating temperature alarm

If the inside of the box reaches a temperature higher than that recommended by the manufacturer, the **RED LED** and an alarm will sound uninterrupted.

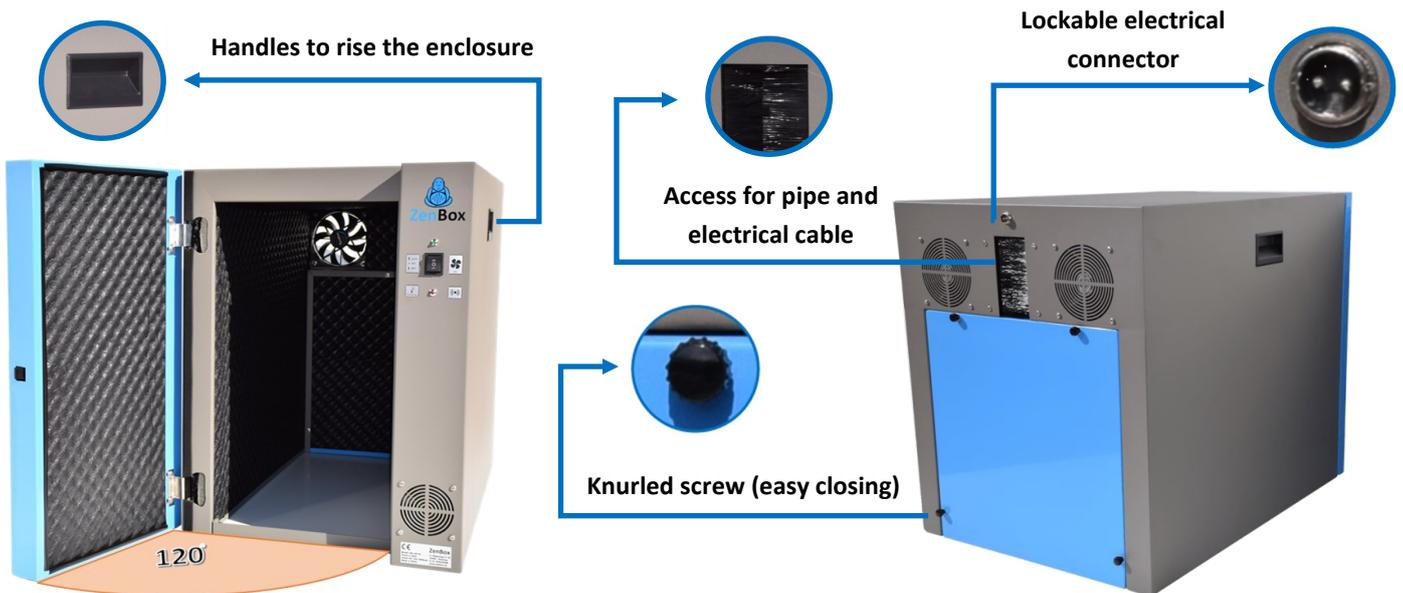
**NOTE:** If this happens, simply open the door to vent the pump. Later, check that the fans work correctly.



**NOTE:** The box has two temperature probes, one to control the speed of the fans and the other to prevent overheating.

## Easy access to the vacuum pump

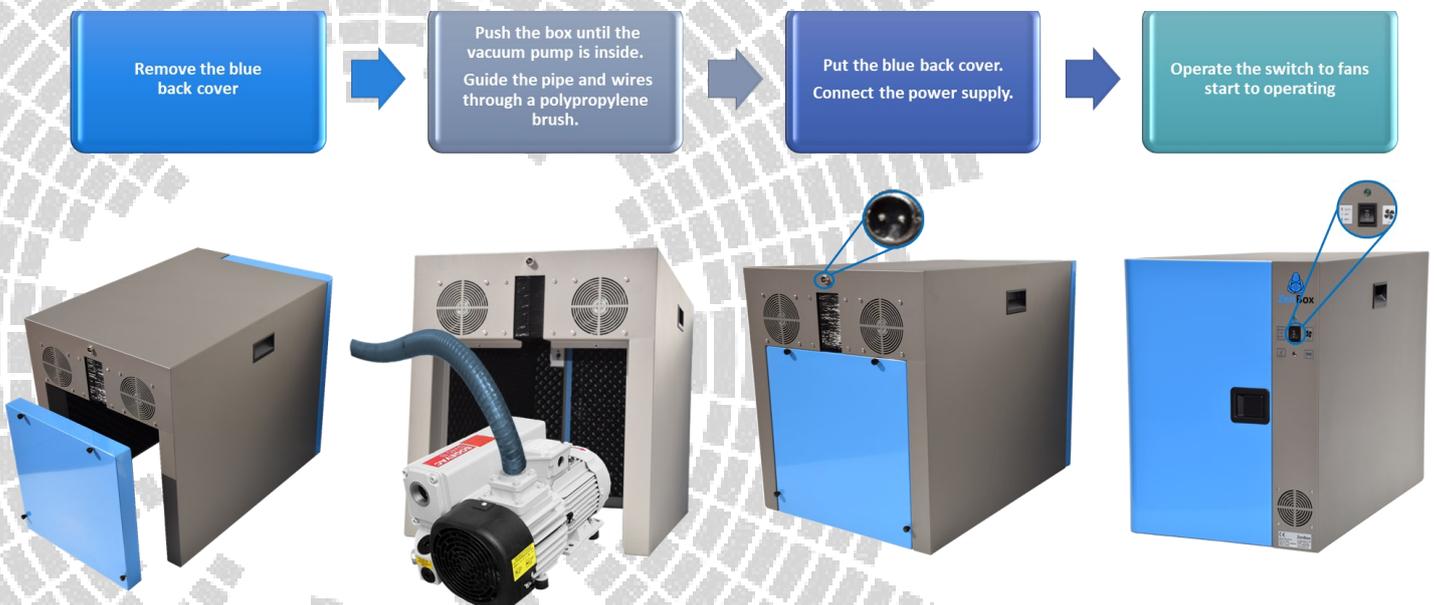
- Handles to lift and move the box.
- Back cover with easy closing mechanism.
- Gasket that allows the vacuum tubes and power cables to exit.
- Door with 120° opening that offers easy access to the vacuum pump to carry out the corresponding maintenance.
- Safety electrical connector.



## Installation only 4 steps

Installation is done in four easy steps, without the need for tools.

**NOTE:** It is NOT necessary to turn off the pump during installation.



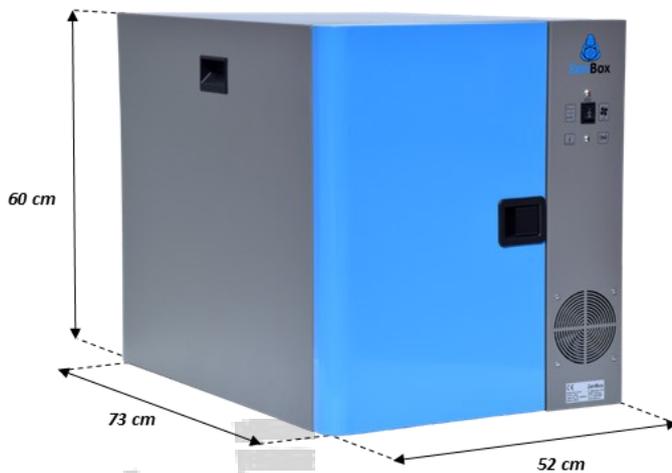
## Accessories

### Oil tray on caster wheels (optional)

- Made of AISI 304 stainless steel for easy cleaning and mobility.
- 4 wheels with gray rubber band to reduce vibrations.
- 2 of the 4 wheels are equipped with brakes.
- Supports a maximum weight of 120 Kg.
- Width / depth / height : 52,6 cm x 73,6 cm x 9,4 cm
- **Total height (box + oil tray): 69,4 cm**



## Detailed Technical specifications



### Internal Dimensions

Ancho (cm)	Fondo (cm)	Alto (cm)
42	63	55

- Soundproofing box made of 1.5 mm thick pickled sheet.
- Self-extinguishing acoustic insulation formed by layers that comply with FMVSC 302 and DIN 4102B3.
- All safety-related requirements have been taken into account; as we use heat resistant and non-flammable material.
- All electronic components comply with European directive RoHS2 (Restriction of Hazardous Substances Directive) 2017/2012/UE.
- The box is supplied with a 12V and 5A power supply that connects to the 230V/50Hz network and complies with Csa, Ce and Ccc. The connection of transformer to the box is made by means of a safety connector to avoid incidents.
- The noise reduction is in line with the European directive related to low voltage equipment (2014/35/UE) and electromagnetic (2014/30/UE).

**NOTE:** This noise enclosure has been designed for the following models of vacuum pumps:

**Boc Edwards:** nXDS, XDS 5 and XDS 10,

**Varian / Agilent:** Triscoll 300, Triscoll 600, MS 30 and MS 40+

**Leybold:** Sogevac BI: SV40BI / Sogevac: SV1 0B, SV 16B, SV 16D, SV 25B, SV 25D, SV 40B and SV 65B