



# ZenBox

Acoustic Solutions for Laboratories

## Model ZB-ARAGON noise enclosure for two vacuum pumps



- 85% reduction in noise perception.
- Self-regulated fans with temperature.
- Overheating temperature alarm.
- Easy access to the two vacuum pumps.
- The compact design is perfect for limited lab space.
- 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

- 4 ultra-quiet long-life fans (150.000 hours).
- Airflow of 187 m<sup>3</sup>/h
- The air is renewed every 2 seconds.
- 2 openwork doors that allow cold air to enter the box.

**NOTE:** Cold air is sucked trough 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

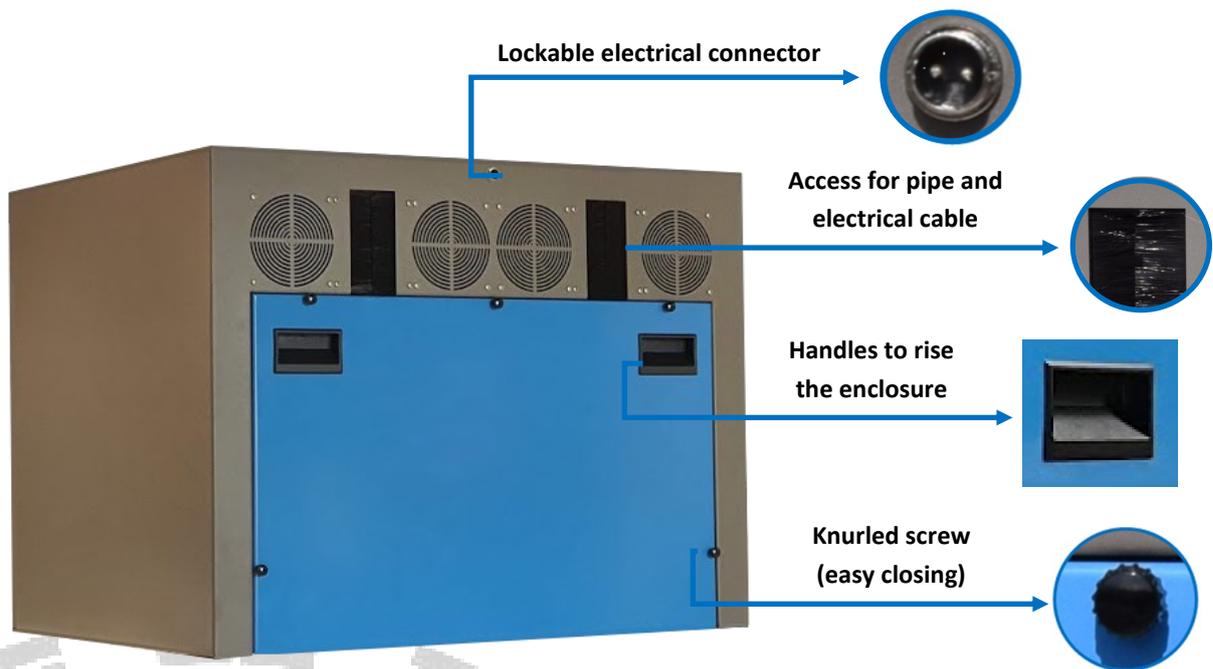
### Overheating temperature alarm

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.

## Easy access to the vacuum pump

- *Handles to lift and move the box.*
- *Back cover with easy closing mechanism.*
- *2 polypropylene brushes that allow the tubes and the power cable of the vacuum pump to pass through.*
- *Front cover that offers direct access to the gas ballast valve and easy maintenance when changing the oil.*
- *Safety electrical connector.*



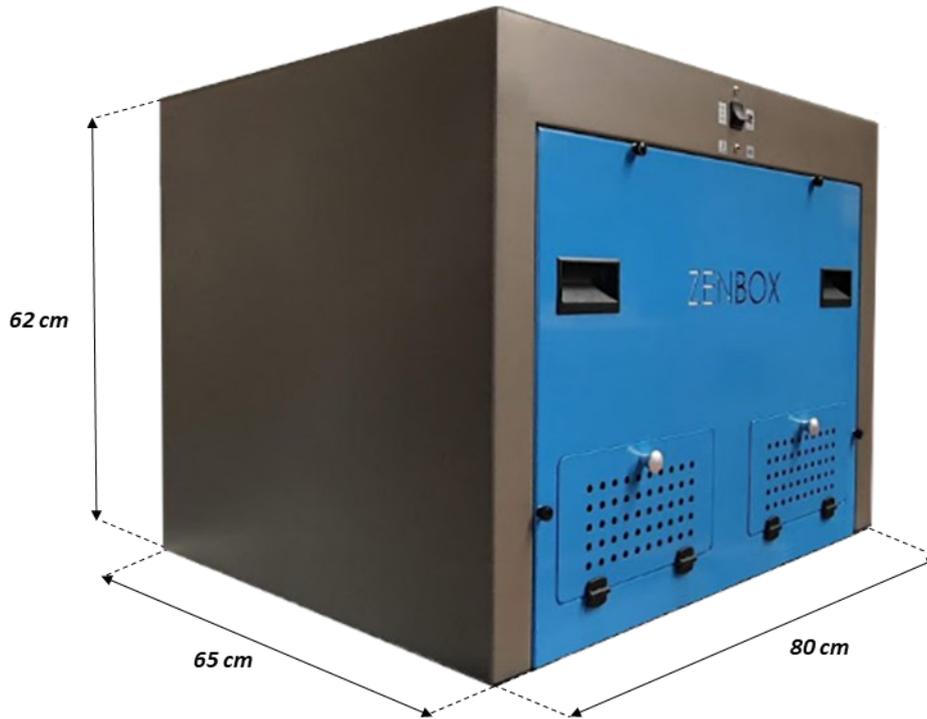
## Installation only 4 steps

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

1. **Remove** the blue back cover.
2. **Insert** the pump into the box, making sure it is centered.
3. **Place** the cover using all the screws.
4. **Connect** the power cord to the mains and turn on the switch.

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

## Detailed Technical specifications



### Internal dimensions

Width (cm)	Depth (cm)	Height (cm)
70	55	57

- 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 model of vacuum pump:

Agilent: MS40+ (x2)