



ZenBox
Acoustic Solutions for Laboratories

Vacuum pump noise enclosure Model ZB-1VP1

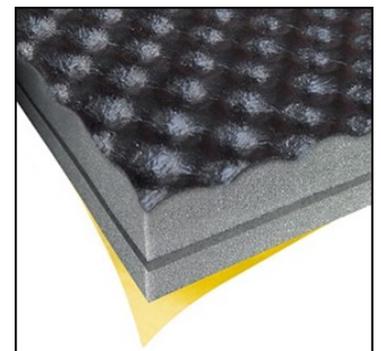


- **85% reduction in Noise perception**
- **Efficient ventilation system** and automatically temperatura regulated.
- **Overheating Protection** (temperatura alarm)
- Innovation Design.
- **Easy Access to vacuum pump**
- Compatible with most existing brands in the market.
- Installation in only 4 simple steps.
- **3 year guarantee.**

Multilayer Acoustic Insulation

Acoustic insulation of 50 mm of thickness formed by two layers of absorbent material and a heavy and flexible mass. This provides to the isolation a low dynamic rigidity, low transmission and a high absorption of the noise caused by engines, compressors and vacuum pumps.

A protector Surface of PU protects and enable an easy cleaning and a long life time. Moreover, this acoustic insulation is perfectly safe because is self-extinguishing.



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

Ventilation system

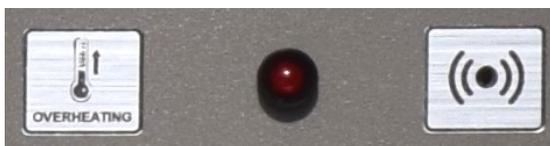
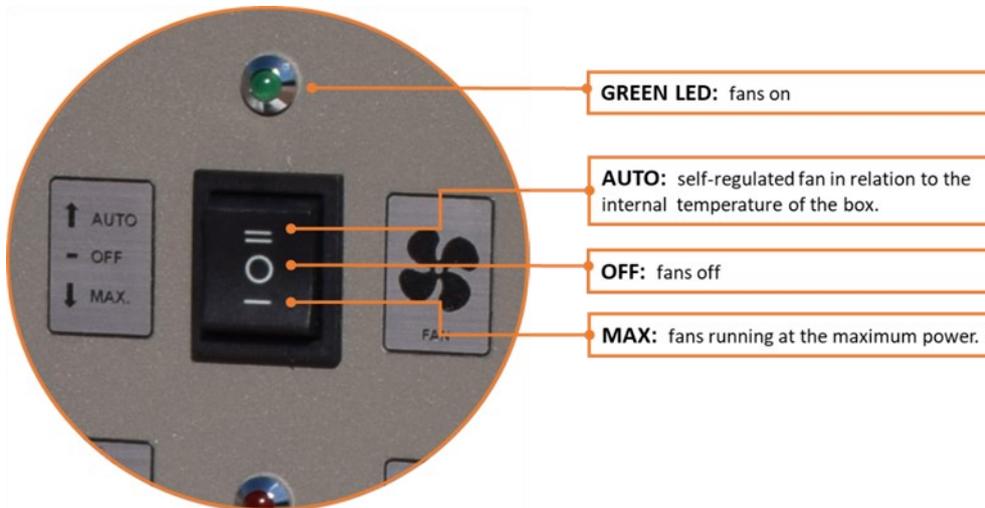


- 2 ultra quiet fans with a long life time (160.000 horas)
- Airflow of 263 m3/h
- The air is changed each 2 seconds.



Exhaust cold air on the bottom part and the hot air is extracted with more intensity on the top part. This way is created a negative pressure difference.

Three-position switch for fans



If the temperature inside of the enclosure is higher than recommended by vacuum pump manufacturers, a red LED will light on and a warning alarm sound continuously.

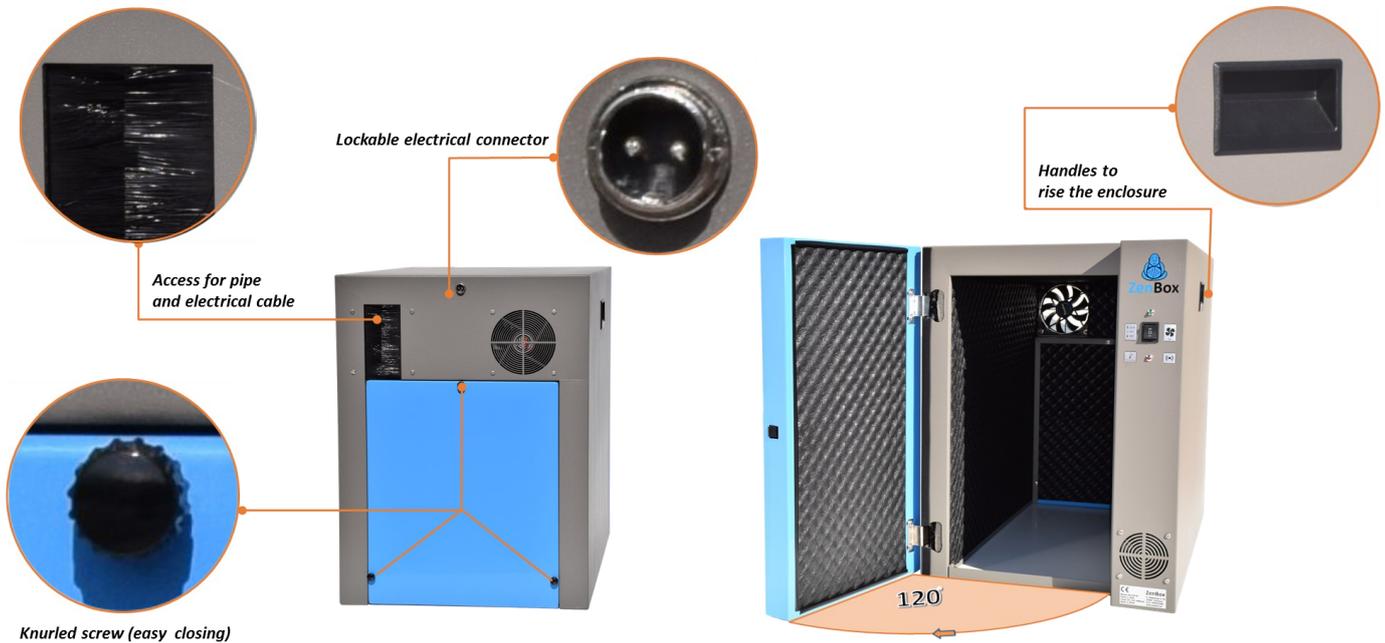
NOTE: if this happens, open the door to vent the vacuum pump and inspect fans for proper operation.



Soundproofing enclosure has temperature probes to control the fans speed and to avoid a possible overheating.

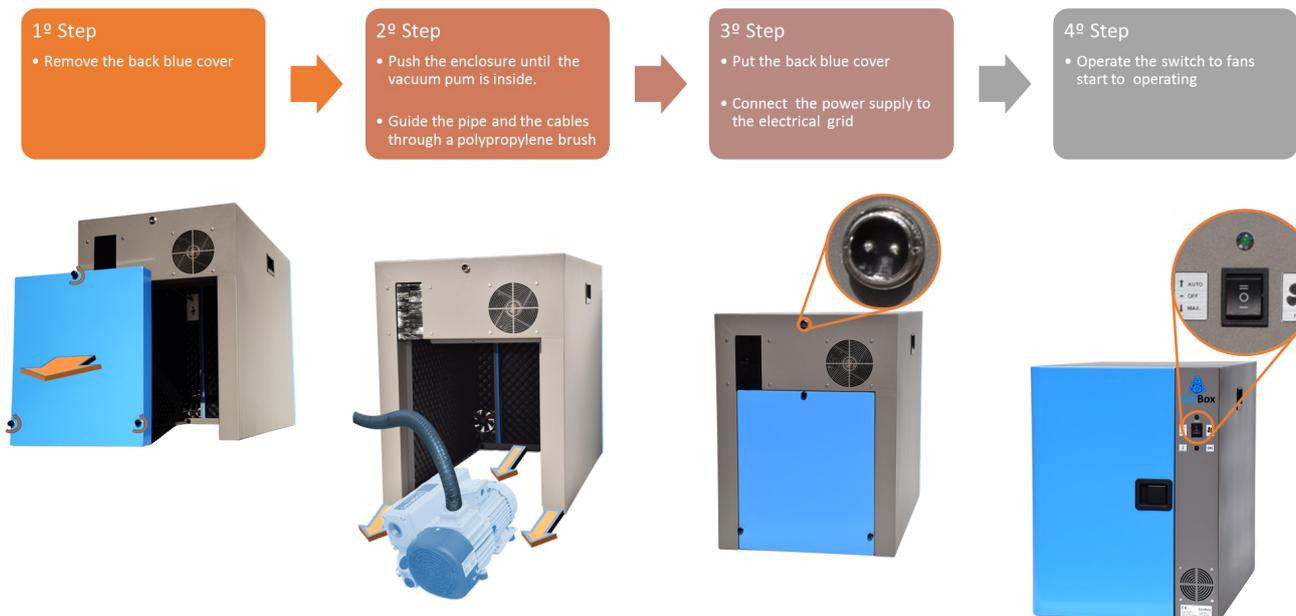
Easy access to the vacuum pump

The door opens 120° for easy checking of oil level and change the gas ballast.



Installation only in 4 steps

- It is not necessary tools for the installation.
- You don't need turn off the vacuum pump for installation of the noise enclosure.

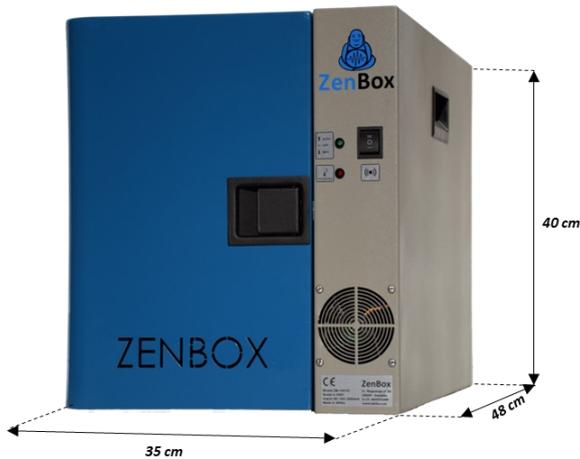


Oil pan on caster wheels (optional)

- It is built in AISI 304 Stainless Steel for easy cleaning.
- It is equipped with four jockey wheels with a rubber coated to reduce the vibrations.
- Two of the four wheels are equipped with brakes.
- ZenBox enclosure is placed onto the oil pan, so you can move both in all directions.
- Width/Depth/Height : 35,6 cm x 48,6 cm x 9,4 cm.
- The total height (pan and enclosure) is 49,4 cm.
- The pan supports up to 120 Kg.



Detailed Technical Specifications



Internal dimensions

Width (cm)	Depth (cm)	Height (cm)
25	38	35

- Noise enclosure fabricated in descaled cold-laminated iron sheet of 1 mm of thickness.
- The interior is covered by a multilayer acoustic insulation of 50 mm of thickness. This material is self-extinguishing and complies with FMVSC 302 y DIN 4102B3.
- All requirements related to security are taken into account in the design and the fabrication. It has been used good-quality materials (non flammable and heat resistant)
- All electronic components complies RoHS (Restriction of Hazardous Substances Directive)
- The enclosure comes with a power supply of 12V and 5A (Csa, Ce, Ccc) and it is compatible with electrical grid 230V /50 Hz
- The noise reduction in accordance with the European directive for low voltage equipments (2006/95/EC) and electromagnetic compatibility (2004/108/EC)

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

Boc Edwards: E2M 1.5, E2M 0.7

Pfeiffer: Duo 2.5, Duo 3