



**ZenBox**  
Acoustic Solutions for Laboratories

## Acoustic box model ZB-CHILLER.LAIRD-MRC for chiller



- 85% reduction in noise perception.
- Efficient ventilation system with on/off switch.
- Overheating temperature alarm.
- Innovation design.
- Two hatches; one to access control panel and the other to access the on/of button the chiller .
- Easy access to chiller.
- 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.

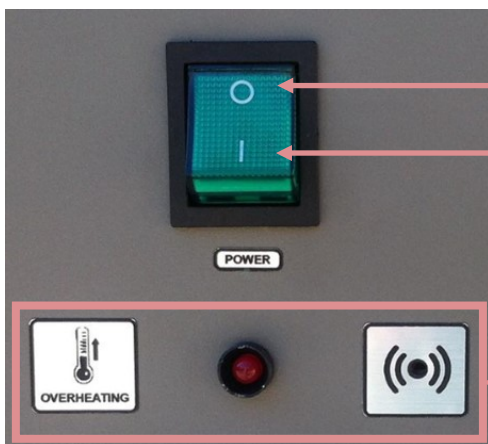
**NOTE:** The inside of the enclosure is cover with this acoustic isolation, getting a noise reduction **up to 20 dB(A)**

## Ventilation System

- 1 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 trough the bottom and more warm air is drawn from inside, thus creating a **negative pressure** inside the box.

### Two-position switch for fans



**Position 0:** Fans off

**Position 1:** Fans running at the maximum power

### Overheating temperature alarm

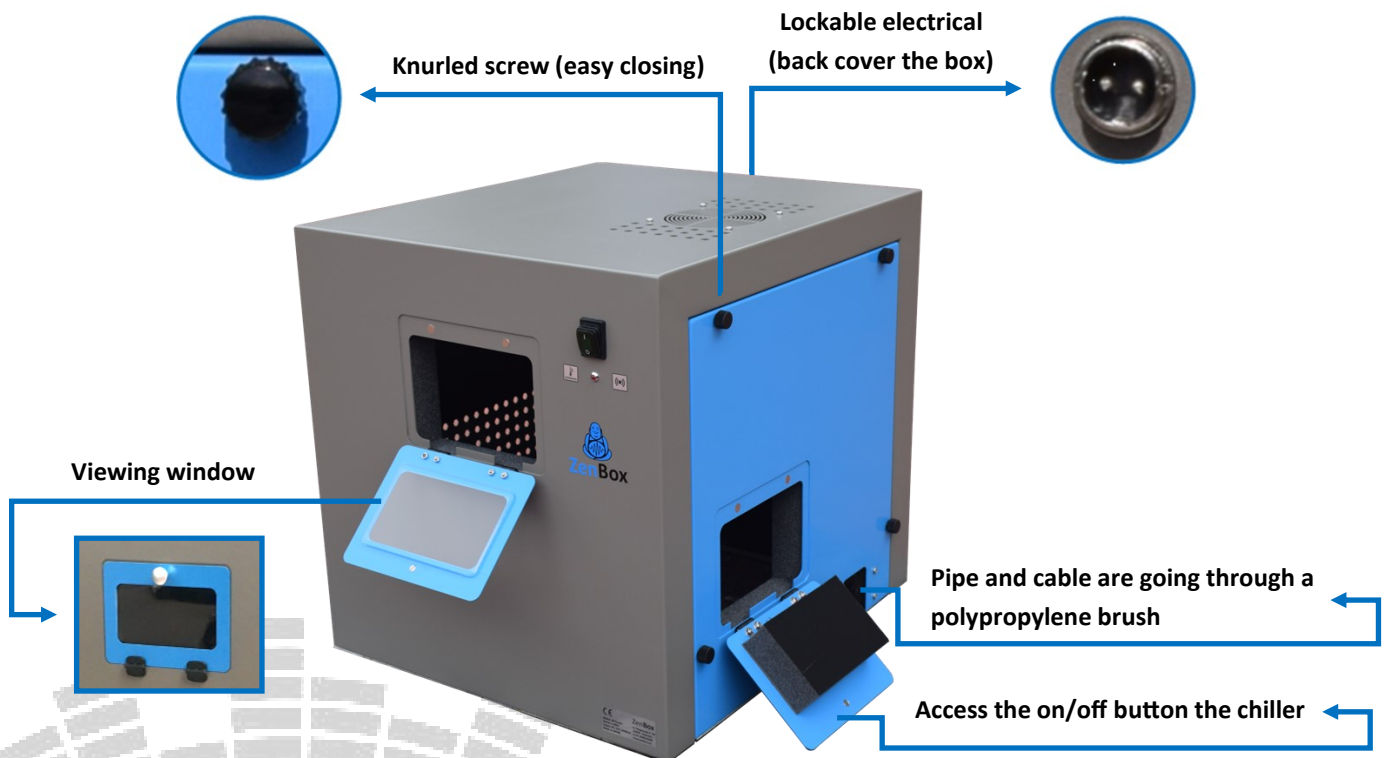
The inside of the box reaches a temperature higher than that recommended by the manufacturer, the **RED LED** and an alarm will sound uninterrupted.

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



## Easy access to chiller

- Handles to lift and move the box.
- Side cover that allows easy access to the chiller for maintenance (checking the water level and the air filter)
- Access for pipe and cable are going through a polypropylene brush.
- Transparent window that allow you to see and access the controls of the chiller.
- Safety electrical connector.



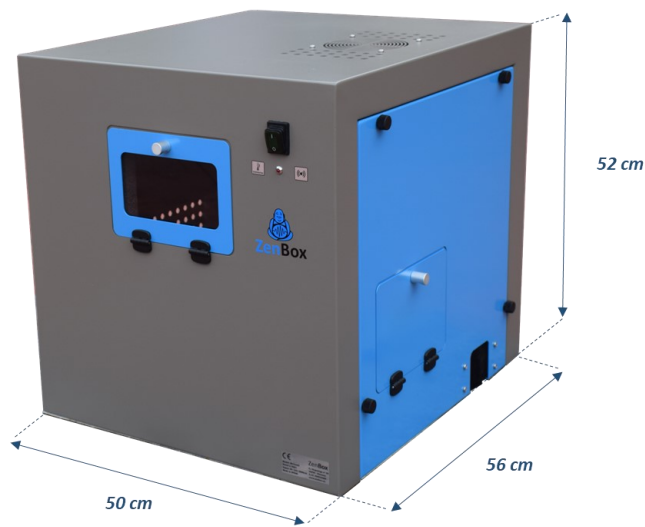
## Installation only 4 steps

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

1. **Remove** the blue side cover.
2. **Insert** the chiller 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 chiller during installation.

## Detailed Technical specifications



### Internal dimensions

Width (cm)	Depth (cm)	Height (cm)
40	46	47

- Soundproofing box made of 1.5 mm thick pickled sheet.
- Acoustic Isolation of black PU film, with absorbing polyurethane foam and 5 KG/m<sup>2</sup> heavy viscoelastic mass: Measurements according to UNE-EN ISO 140-3 standard (December 1995) and calculations according to NBECA88.
- 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 chiller:

Thermal Systems: Laird MRC150-DH2-HT-DV