Passive NanoDamp Workstation User Guide

INTRODUCTION

The Passive NanoDamp Series of Workstations are designed to isolate sensitive equipment from vibrations caused by foot traffic, HVAC systems, nearby operating machinery, and more. The research-grade workstation consists of a honeycomb breadboard supported by four pneumatic isolators, which can be easily inflated using an external air source. When properly inflated, these isolators will reduce the transmission of vibrations to the tabletop, providing a vibration-free work surface for sensitive research equipment.

INSTALLATION PROCEDURES

Step 1:   Uncrate the workstation from the wooden crate by removing the front door screws and lifting the workstation from the base pallet. Lifting the workstation (approximately 65 lbs) can be accomplished by having multiple people lift one side of the workstation, hoisting it off of the base pallet or by utilizing a forklift. Using a forklift to lift the workstation will require the forklift blades to use the lower side cross bars as support points.

Step 2:   Adjust the leveling feet of the workstation to allow it to rest on its caster wheels for mobility.

Step 3:   Transport the workstation and the accompanying breadboard to the desired installation location.

Step 4:   Position the workstation in the desired installation location and adjust the leveling feet of the workstation to allow it to no longer rest on its caster wheels, whereby resting on its leveling feet.

Step 5:   Place the optical breadboard on top of the four pneumatic air isolators, carefully setting the breadboard on top of the isolators vertically. **Please note:** it is important to not shift the breadboard in the X or Y direction when placing the breadboard on top of the pneumatic air isolators as it can damage the air-isolators and/or cause the air-isolators to not inflate properly.

Step 6:   Install the instrument on top of the workstation by placing it vertically onto the top of the breadboard.

Step 7:   Connect the 6mm tubing found in the back of the workstation to the outlet side of the air regulator.

Step 8:   Connect the other end of the 6mm tubing to the inlet on the supplied regulator to a supply of compressed air in the room.

Step 9:   Begin to increase the air pressure of the workstation isolators by lifting the cap on the regulator and slowly turning the knob clockwise. Continue to rotate the knob clockwise until the air-isolators are floating. **Please Note:** the approximate PSI for when the table is floating will be between 65 – 75 PSI (air supply should not exceed 90 PSI).

Step 10:   Allow 1 – 2 minutes for the workstation leveling to stabilize once fully inflated.

ADDITIONAL NOTES

The height of the workstation top plate was pre-adjusted at the factory, but can be re-adjusted by manipulating the three bolts attached to the three lever arms. When making adjustments, please do so evenly so that the workstation maintains its optimal level of vibration isolation.

FEEDBACK

Herzan welcomes your feedback! Please let us know what we can do to improve our products. You can reach us at feedback@herzan.com or (949) 363-2905. We look forward to hearing from you!

Please contact Herzan with any questions, support@herzan.com or 949-363-2905.