



## io Product Overview

- Fully movable Mass Spectrometer Bench with solidly built lockable casters
- Integrated noise reduction noise enclosure housing vacuum pumps
- Specific patented dampening system to avoid vibrations being telegraphed to the Mass Spectrometer
- Audible & visual overheating temperature alarm
- Quick & easy oil change process
- Pipes & cables management
- Dedicated place for the solvent storage



### Detailed technical specifications



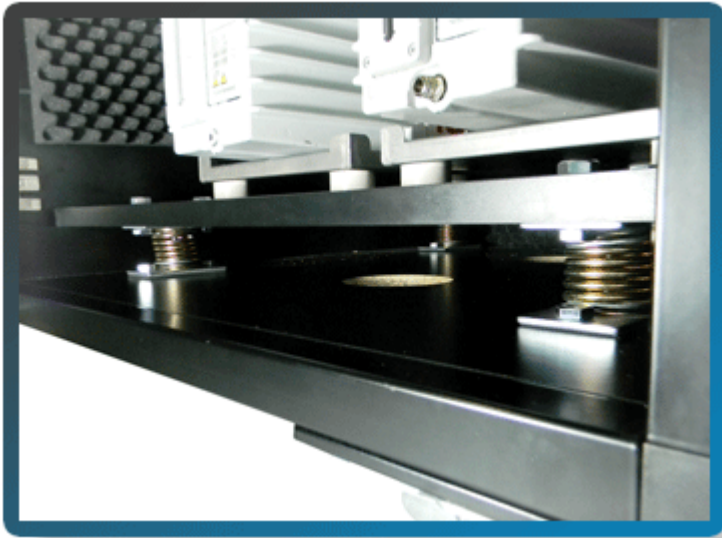
Noise enclosure for vacuum pumps

- Noise reduction performance : - 15 db(A) (75% reduction in noise perception)
- Compatible with one, two or more vacuum pumps
- Silent technology cooling fans (110/220 V, 50/60 hz)
- Thick special acoustic foam covers the interior of the cabinet
- All requirements related to security are taken into account in the conception  
[ventilated enclosure by double ball bearing fans, use of non flammable materials (class 1 rated), and use of heat resistant materials]
- Noise reduction cabinet integrates an audible & visual (red LED) overheating temperature alarm (on battery backup) for an increased vacuum pump lifetime.



Overheating temperature alarm

- In case of air intake or air exhaust obstruction, the air inside the noise enclosure could exceed the limits set by vacuum pump manufacturers for the pump operation at best capacity.  
With this sensor, if the temperature is going above an acceptable limit, the alarm will operate (a red led will light on and an audible continuous alarm by buzzer will start - ~ 90 dB).
- Alarm Test function: test switch button available to make sure batteries are charged and alarm is functional. When pushing the switch, the red led will light on and a continuous audible sound by buzzer will start if the system is correctly operational.  
Operating by 2 x 1.5 AA Batteries - independent from noise enclosure main power supply.



Vibration dampening



Pipe and cable management

- One issue that is not addressed by conventional lab furniture for mass spectrometers is the vibration translated by the vacuum pump toward the mass spectrometer. Excessive vibration reduces the performance and lifetime of turbomolecular pumps inside the mass spectrometer, and thus diminishes performance and hastens costly repairs. The IonBench solution is to apply patented coil spring based vibration dampeners that reduce vibration by 99%.
  - Specific system avoids vibrations being telegraphed from the primary vacuum pumps to the Mass Spectrometer (especially to the Turbomolecular pump inside the MS)
  - High quality vibration dampening system, patented and based on custom build springs system
  - Calibrated springs according to your vacuum pump configuration (rotation speed, frequency and weight)
  - Optional oil drip pan can be provided for each vacuum pump
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- Pipes and cables channels go through the worksurface
  - Direct connection from Mass Spec vacuum pipe to the vacuum pump(s) inside the Noise Reduction Cabinet
  - Signification Space saving with a compact bench design (>30% compared to a standard MS installation configuration)
  - Eliminate trip hazards & protusion into walkways



Fully movable bench with a weight capacity above 440 kg / 970 lbs and Chemical resistant worksurface for laboratory applications. Different bench sizes available depending the configuration of the LC/GC/MS. Black steel powder coated frame.

Solidly built lockable casters. Simplify moving the system to get an easy access to the rear of the instruments.

Fully movable bench

External Dimensions	cm	inch
Depth	88	34.64
Width	120	47,24
Height	94.5	37.20
Weight :	150 kg	440.92 lb

## Available options

**PC Holder**



**Solvent waste storage**



**Oil Drain Pump**



Custum worksurface (example 132x108) : please contact us

### Summary

Description	Part-number
Ionbench MS	BCH120-NE58
Optional CPU Holder	PC1
Optional Solvent Waste Storage	SRC1
Optional Oil Drain Pump	ODP