

GC/MS

Customer support

BRECHBÜHLER
scientific analytical solutions
AG



Whisper 9000

- **silent box for rough pumps**
- **for up to two pumps**
- **effective noise reduction**

Whisper 9000: General description

Make your lab a tranquil place, where you are not disturbed by noisy rough pumps attached to your GC-MS or LC-MS.

Brechbühler AG has developed the new Whisper 9000 to make your lab a place where you are not anymore disturbed by the noise of your Instruments. It is designed to significantly reduce the noise of your rough pump. Two internal fans are responsible for the heat exchange to ensure your pump won't overheat.

The Whisper 9000 silent box allows easy access to the pump by just opening the front and/or the top cover having full access to the pump making oil changes and routine maintenance a quick and easy process.



Front view



Back view



Top view

Key Features and Benefits

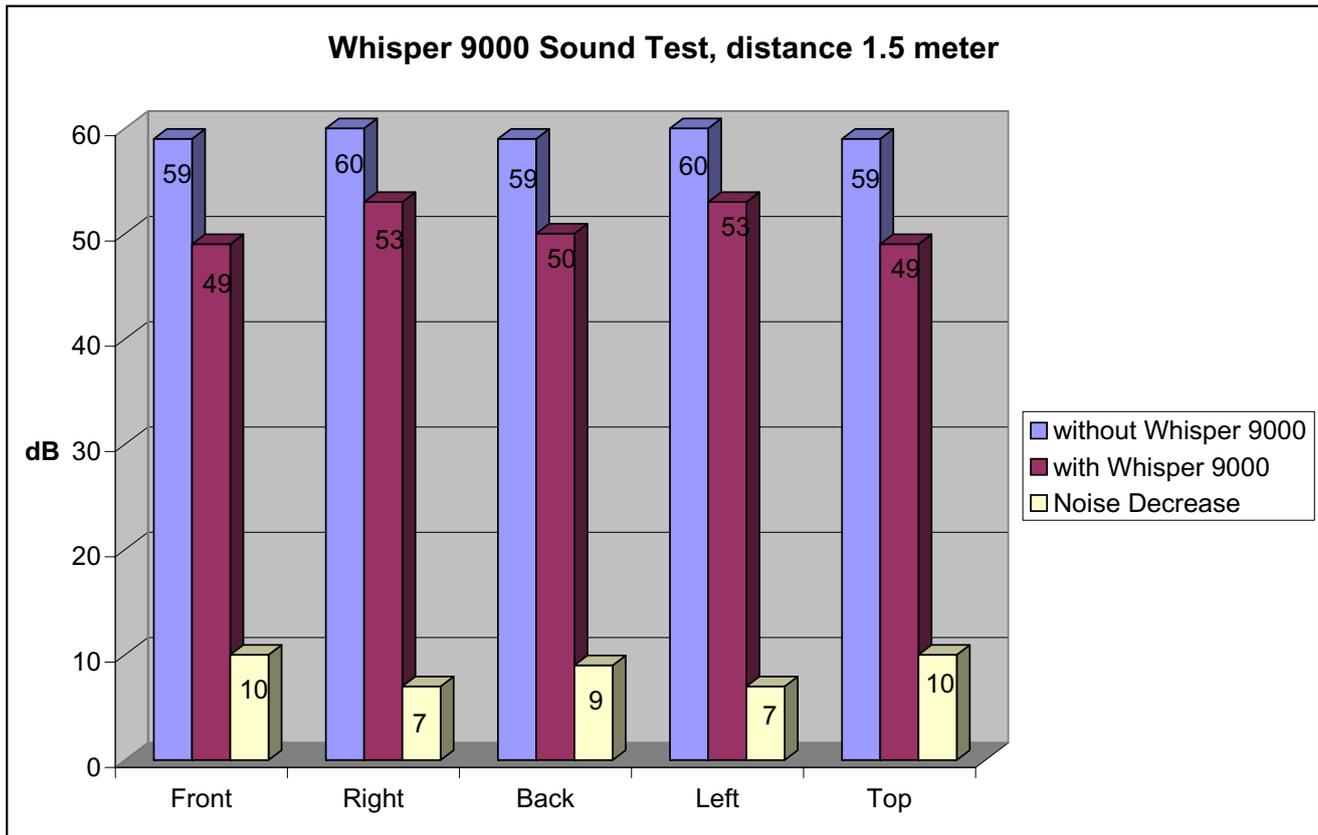
- Silent box Movable on wheels, front door and / or top cover access
- High quality, environment friendly noise adsorbing material, oil and water resistant.
- Heat exchange controlled by two internal silent fans, efficient air circulation is guaranteed.
- Up to two Pumps can be installed in one Whisper 9000 Silent box
- Temperature measurement, audible/visual alarm and digital temperature display.
- Stainless Steel oil tray for each pump separately.
- No tools are needed to access the pump compartment
- Easy routine maintenance and oil change can be performed
- Compatible with Pumps Edwards RV3, RV5, RV8, RV12, E1M18, E2M18
- Opto electronic Oil leakage Sensor with audio alarm (optional)

Whisper 9000: sound levels

Table of Sound Levels

To get a feel of decibels, look at the table below which gives values for the sound pressure levels of common sounds in our environment.

Examples	Sound Pressure Level L_p dB SPL
Jet aircraft, 50 m away	140
Threshold of pain	130
Threshold of discomfort	120
Chainsaw, 1m distance	110
Disco, 1 m from speaker	100
Diesel truck, 10 m away	90
Kerbside of busy road, 5 m	80
Vacuum cleaner, distance 1 m	70
Rough Pump without Whisper 9000	60
Conversational speech, 1m	60
Rough Pump in Whisper 9000	50
Average home	50
Quiet library	40
Quiet bedroom at night	30
Background in TV studio	20
Rustling leaf	10
Threshold of hearing	0



Average sound level decrease = 8.6 dB

Understanding Sound Levels

A sound level change of 1 dB can be detected by the human ear

Decreasing sound by 10 dB results in a 50% sound reduction

A sound at 60 dB is twice as loud as 50 dB

Whisper 9000



One or two pumps can be installed in the Whisper 9000



Two silent Fans



Front, Top and back cover can be removed for easy access

Air entry on both sides

Usable internal dimensions L 750mm x W 400mm X H 500mm

External dimensions L 840mm x W 480mm x **H 680mm** (incl. wheels)

Option low height ball wheels

With this option you gain 10cm in height. Please note! using the ball wheel option you can move the box easily. However it is not done for long distance rolling on the floor



Usable internal dimensions L 750mm x W 400mm X H 500mm

External dimensions L 840mm x W 480mm x **H 580mm** (incl. wheels)

Whisper 9000: Ordering information

Part No.	Description
9 1007010	Whisper 9000 1 Pump system
9 1007020	Whisper 9000 2 Pump system
9 1007025	additional Oil Tray (for 1 pump)
9 1007026	Oil Tray for two pumps 400mm width(if oil leak sensor is ordered)
9 1007030	Optoelectrical Oil leak sensor
9 1007031	Low height ball wheels



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