



# MS NOISE ENCLOSURES FOR VACUUM PUMPS (NRVP-S)

## Product Overview

- Performance: average sound level decrease is - 15 dB(A) (equivalent to a 75% reduction in noise perception)
- Heat exchange controlled by one internal silent fans 120 m (double ball bearings)
- Efficient air circulation is guaranteed (about 100 m<sup>3</sup>/h) while keeping optimal acoustic insulation
- Worldwide electrical compatibility [enclosures are delivered with European, US, Japan, and UK plugs]
- Easy installation: no equipment downtime (no need to "break vacuum" on your system and do not require disconnecting pipes during installation)
- Easy access for pump servicing (no tools required to remove the cover)
- Easy oil change can be performed.
- Easy visual check for operation (Green LED)
- Involuntary power supply disconnection secured (lockable connector)



Pipe and cable are going through a polypropylene brush



Easy visual check for operation



lockable connector



NRVP-S with Agilent GCMS



Open NRVP-S with Pfeiffer DUO 2.5



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## Accessories Noise Enclosure Model NRVP-S

### **Oil tray on caster wheels**

With the oil tray you can store your vacuum pump in a clean way and MS NOISE enclosure is simply placed onto the oil pan, so the box and the pump become mobile. This stainless steel oil tray on castor wheels is also equipped with four vibration absorbing caster wheels, to reduce vibration transmission through the floor. Two of the four wheels are equipped with brakes and the oil tray is made of stainless steel for easy cleaning.



### **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).

Overheating alarm independent from noise enclosure main power supply and battery operated. In case of main power supply failure, overheating alarm will work. It includes an 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.



### **Heat removal system :**

On request, we can add to MS Noise Enclosures flanges connected to 120 mm diameter flex pipes, which allow a direct connection from the enclosure exhaust to the main building heat exhaust. Vacuum pump heat is directly removed outside the lab building.



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## Oil drain (see separate brochure)

Fast, easy and clean oil change ! Vacuum pump manufacturers recommend regular oil changes to prevent damage to the rough pump, and to extend pump life-time. This recommendation is very often because changing the oil could be difficult : oil leaks everywhere, heavy pumps makes it difficult to move...Therefore MS NOISE designed the Oil drain valve and oil change pump kit ! Save time on your maintenance and perform oil change in an easy and clean way, even in very difficult access areas.

Oil drain valve : 1 ball bearing valve with quick connector to install on the pump definitively [with adaptations compatible for all vacuum pump oil drain plug threading] and one plastic hose for oil draining

Oil drain pump : compact oil pump with on/off switch and power supply compatible 110/ 220 Volts (worldwide compatible plugs provided) and 2 plastic hoses for oil pumping directly into a waste container (empty bottle,...)

## Detailed Technical specifications :

- Environment friendly noise adsorbing material, oil and water resistant.
- The noise reduction is in conformity with the European directive related to low voltage equipments (2006/95/EC) and electromagnetic compatibility (2004/108/EC).
- Compatible with 230V/50HZ or 110V/60HZ. delivered with a set of European, US, Japan, and UK plugs
- Power supply Csa, Ce and Ccc
- All requirements related to security are taken into account in the conception (ventilation box by double ball bearing fans, use of non flammable materials, and use of heat resistant materials)
- Electronic components are all compliant with RoHS directives (Restriction of Hazardous Substances Directive).
- Enclosures are made of ABS UL V0 and PS Choc UL 94V0 6 mm thickness.
- Foam complies with FMVSS 302 and DIN 4102 B3

External Dimensions	Enclosure model x (cm)	Enclosure model x (inch)
Depth	46	18.11
Width	26.1	10.28
Height	40.1	15.79
Height with oil tray	50	19.69
Weight :	Enclosure model (kg)	Enclosure model x (lbs)
Enclosure	9	19.9
Oil tray	6	13.2



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## *Summary*

Description	Part-number
Noise Enclosure	NRVP-BOX-S
Optional Tray on caster wheels	NRVP-PAN-S
Optional overheating temperature alarm	NRVP-ALA-S
Oil drain valve	ODK (please specify vacuum pump model when ordering)
Oil drain pump	ODP
Connection to building AC unit	On Request