

- Compliant with:
 - ISO 12884 ISO 16362 US-EPA T09 US-EPA T013A
- Sampling of PM₁₀, PM_{2,5}, PTS, micro-polluants
- Venturi flow meter (ISO 5167)



The **HORNET** high volume control unit, designed for **outdoor environments**, it is suitable for sampling TSP, PAH, micro-pollutants, PM₁₀ and PM_{2,5}.

- Compliant with ISO 12884 (particulate/gas), ISO 16362 (particulate), US-EPA Tog e US-EPA To13A (particulate/gas).
- It uses the Venturi flow meter and is made in accordance with ISO 5167.

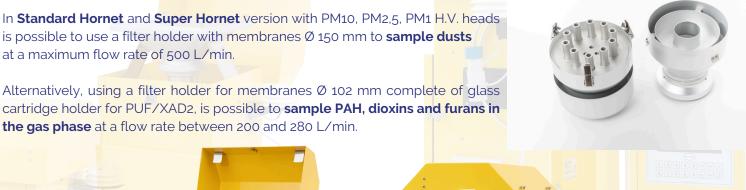
The instrument is equipped with a with a backup battery, which allows active programs to be paused in the event of a power failure. Once power is restored, the instrument automatically resumes sampling and logs the event in the final summary.

In **Standard Hornet** and **Super Hornet** version with PM10, PM2,5, PM1 H.V. heads is possible to use a filter holder with membranes Ø 150 mm to sample dusts at a maximum flow rate of 500 L/min.

cartridge holder for PUF/XAD2, is possible to sample PAH, dioxins and furans in the gas phase at a flow rate between 200 and 280 L/min.







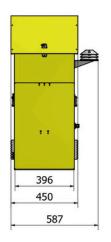


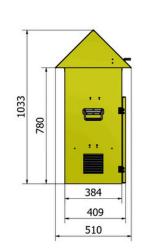
- The instrument is equipped with a 4-stage 60 m³/h blower. The brushless motor guarantees continuous instrument operation over long periods with less maintenance.
- The electronic flow regulation system enables real-time updates to the sampling flow, ensuring a constant volumetric flow within the sampling area. It also maintains consistent flow sampling by automatically compensating for load losses.
- The **Standard and Super versions** include an integrated GSM modem for remote management of sampling and alarms via SMS (SIM card not included)
- The **Hornet Light** version include an ethernet port, enabling the activation of the web server service for remote monitoring of sampling parameters.
- It is possible to install sensors for detecting weather parameters (wind speed and/or direction) for selective sampling.



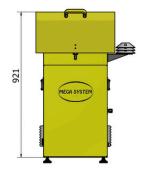
HORNET SERIES _____

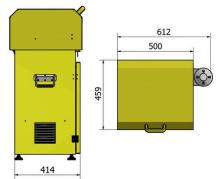
STANDARD



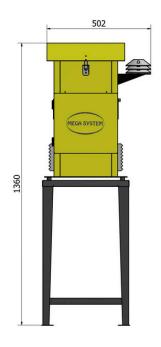


LIGHT





SUPER





TECHNICAL FEATURES _____

VERSION	LIGHT	STANDARD	SUPER		
• PERFORMANCE					
Flow sensor	Venturi				
Type of pump	4 stage blower				
Operative range	100 ÷ 600 L/min 100 ÷ 1000 L/mir		100 ÷ 1000 L/min		
Flow resolution	0,1 L/min				
INTERFACE, DATA ARCHIVING					
Display	Alphanumeric LCD (40x2)				
Interface	Ethernet RJ45 USBhost (on PenDrive)	RS232 USB host (on Pen Drive)			
Modem GSM	-	✓			
• ENERGY					
Power supply	230 Vac - 50 Hz				
Consumption	100	W	200 W		
• FEATURES					
Protection degree	IP55				
Noise level (8 m distance)	<33 dB (A)				
Pump weight	15 Kg	23 Kg			
• OPTIONS					
Weather paramete	r sensors (wind sp	eed and direction	n, humidity etc.)		
Stand for installation in fixed position, adjustable and desmountable					
Printer					
SUPPLIED WITH					
Technical manual					
Test report					
COMPATIBILTY					
Filter holder ø 102 mm	✓				
Filter holder ø 150 mm	-		/		
Filter holder 203x254 mm	-		~		
Heads PM ₁₀ /PM _{2,5} / PM ₁ H.V.	-		/		

• SENSORS				
	Range	Resolution	Accuracy	
Environmental temperature	- 10 ÷ 50 °C	0,1 °C	±1 °C	
Inlet temperature	- 10 ÷ 50 °C	0,1 °C	±1 °C	
Venturi cell differential pressure	± 1000 Pa	0,1 Pa	±1% FS	
Venturi cell inlet pressure	0 ÷ 2000 kPa	0,1 kPa	±1% FS	
Atmospheric pressure	800 ÷1100 mbar	0,1 mbar	± 2 mbar	