

MHVVS

MID-HIGH FREQUENCY VVS



PRODUCT DATA

Microflown Technologies
Charting sound fields



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MID HIGH FREQUENCY VOLUME VELOCITY SOURCE

DIRECT VOLUME VELOCITY MEASUREMENT

This omni-directional noise source is equipped with a Microflown particle velocity sensor on the tip of its nozzle, being the only source capable of directly measuring the radiated volume velocity for a broad frequency range with unparalleled accuracy.

The source is capable of generating high excitation levels in order to properly excite the sound field under study. The Mid-High Frequency Volume Velocity Source is supplied

with an integrated amplifier, eliminating the need of oversized external amplifiers and ensuring the best performance and usability.

This Mid-High Frequency Volume Velocity Source can be used for a wide range of applications like transfer path analysis, airborne source quantification, component vibroacoustic behavior characterization, airborne source quantification and pass by noise simulations.

THE MHVVS AT A GLANCE

- Covering a relevant and broad range of 300Hz - 12kHz
- High power output, maximum Sound Power Level of 107 dB
- Direct volume velocity measurement using an integrated particle velocity sensor
- Embedded amplifier, making it compact & user friendly
- Fast reciprocal transfer function acquisition

SPECIFICATIONS

PERFORMANCE

Parameter	Value	Unit
Frequency range	300 - 12.000	Hz
Omni-directionality	300 - 6.000 (+/-2dB) 300 - 12.000 (+/-4dB)	Hz
Sound power level	107	dB re 1 pW
Sound pressure level @1 m	96	dB re 20 uPa
Input signal nominal	0	dBV (1 Vrms)

PHYSICAL // MHVVS

Parameter	Value	Unit
Sound source (diameter ; length)	200 ; 95	mm
Hose (diameter ; length)	44 ; 3.000	mm
Nozzle (diameter ; length)	14 ; 90,2	mm
Material	Black anodized aluminum	

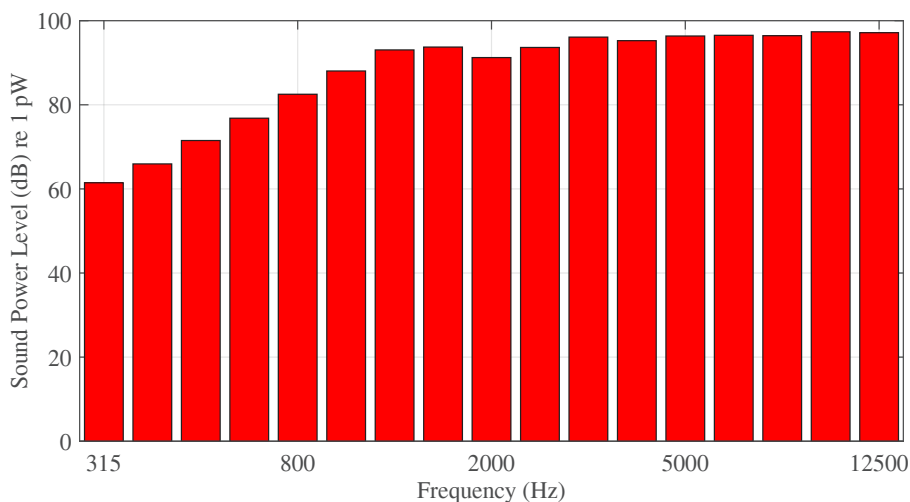
POWER SUPPLY

Parameter	Value	Unit
Idle Power consumption (mute mode)	3,5	W
Power consumption at full load	50	W
Nominal Power supply voltage	30	VDC

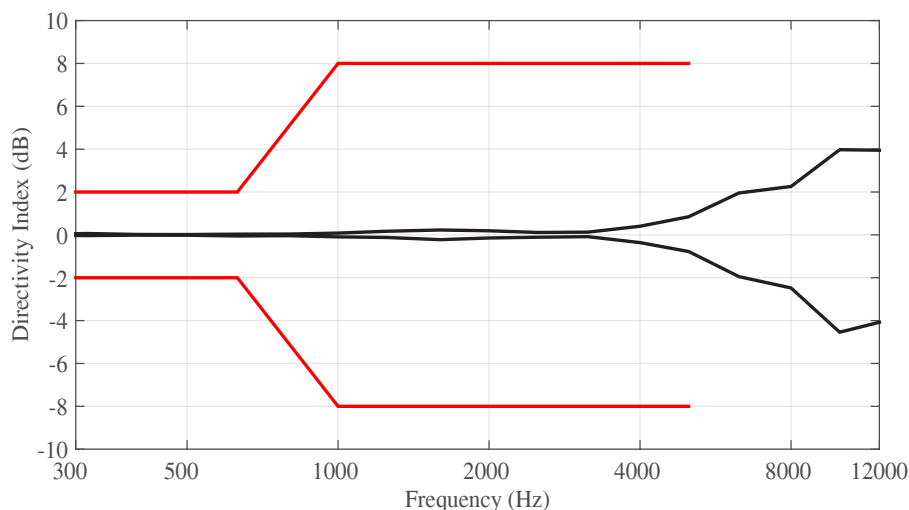
PHYSICAL // CASE

Parameter	Value	Unit
Case dimensions	631 x 500 x 302	mm
Weight	18	Kg

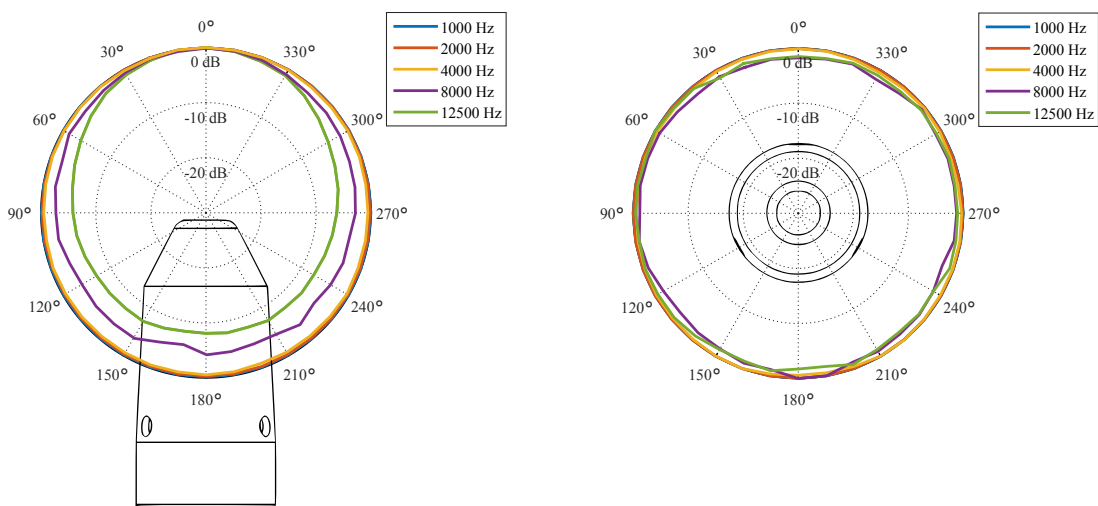
MAX. SOUND POWER LEVEL // 1/3 OCTAVE BANDS



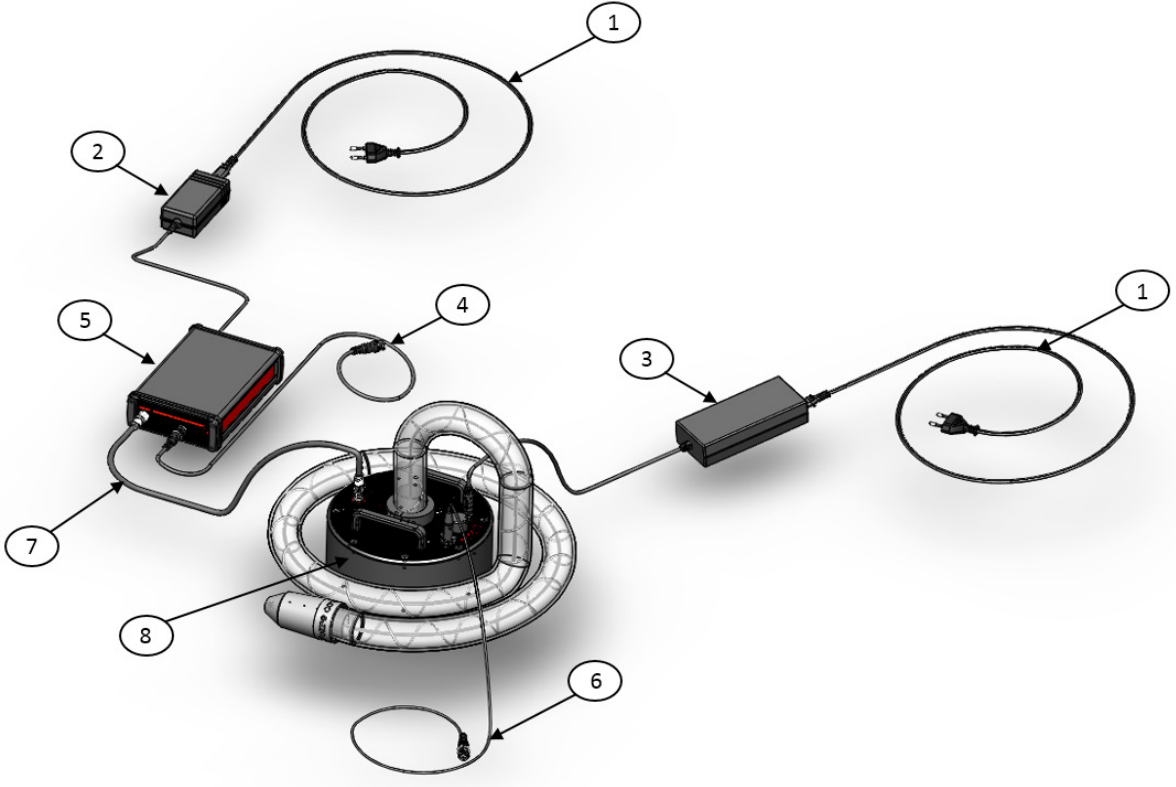
ISO 140 // RED = TOLLERANCES & BLACK = MEASURED



DIRECTIONALITY RESPONSE



INCLUDED ITEMS



No.	Description	Quantity
1	Power cable	2
2	MFPA power adaptor	1
3	MHVVS power adaptor	1
4	BNC cable	1
5	MFPA-1	1
6	XLR to BNC cable	1
7	2.5 meter LEMO cable	1
8	Mid-High Frequency Volume Velocity Source	1
	Peli Case with inlay	1