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TD-194
CONSTANT DIRECTIVITY HORN

KEY FEATURES

- Designed to be used with 1” compression drivers.
- Coverage angles of 90º in the horizontal plane and 40º in the vertical plane.
- Precise directivity control in the pass band.
- Square and compact design, providing versatile mounting options.
- Cast aluminium construction.



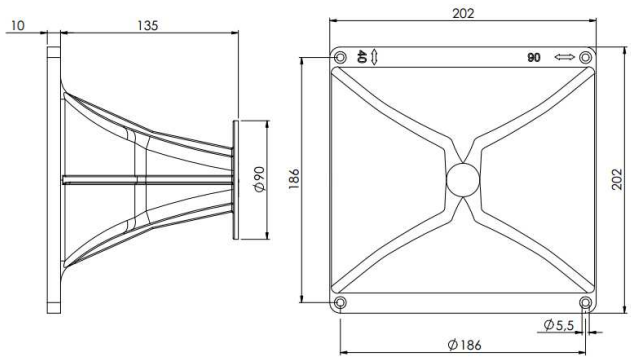
GENERAL DESCRIPTION

This horn has been designed to work specifically with 1” compression drivers, providing uniform on and off-axis resposne.

The constant directivity characteristics of this model ensure the ability to cover 90º width horizontally and 40º width vertically, at virtually any frequency within its operational range.

To ensure freedom of resonance, this horn is constructed of cast aluminium, with flat frot finish to facilitate flush mounting. Its square shape allows to easily rotate the horn without any need for modification in the cabinet.

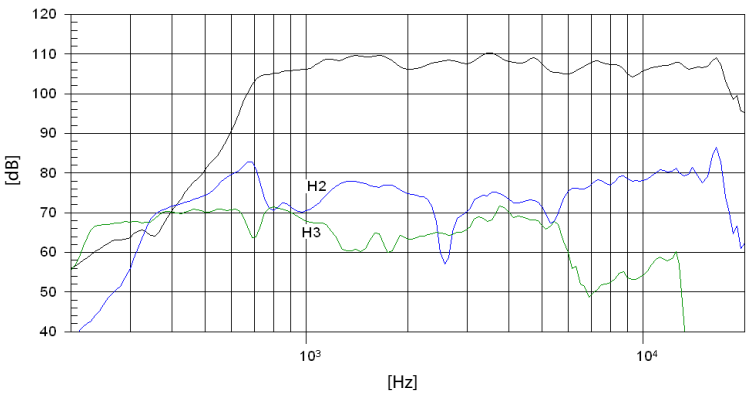
DIMENSION DRAWINGS



TECHNICAL SPECIFICATIONS

Throat diameter	25,4 mm 1in
Horizontal beamwidth	90º (-2º, -18º) (-6dB, 2 - 16 kHz)
Vertical beamwidth	40º (+34º, -3º) (-6 dB, 2 - 16 kHz)
Directivity factor (Q)	11,2 (average 0,8 - 16 kHz) 10,2 dB (+2 dB, -6,4 dB)
Directivity factor (DI)	1200 Hz
	202 x 202 x 145 mm
Cut-off frequency	7,95 x 7,95 x 5,71 in
	177 x 177 mm
Dimensiones (W x H x D)	6,97 x 6,97 in
	1 kg 2,2 lb
Cut-out dimensions (W x H)	1,3 kg 2,87 lb
	Cast aluminium
Net weight	
Shipping weight	
Material	

FREQUENCY RESPONSE



Note: On axis frequency response measured with CP-385/Nd standing on infinite baffle in anechoic chamber, 1W @ 1m

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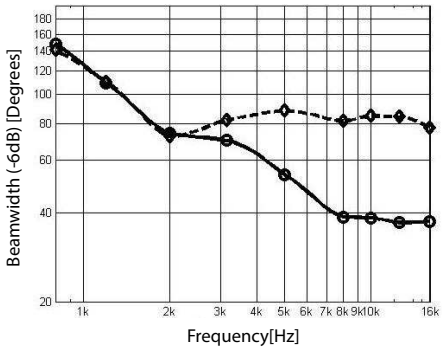
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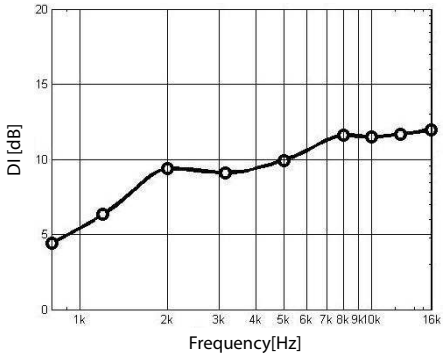
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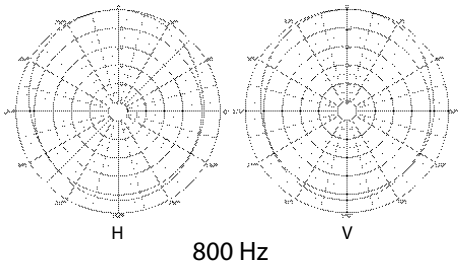
-6 dB BEAMWIDTH *



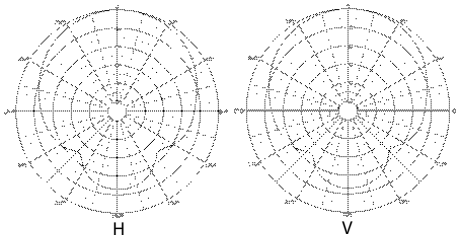
DIRECTIVITY



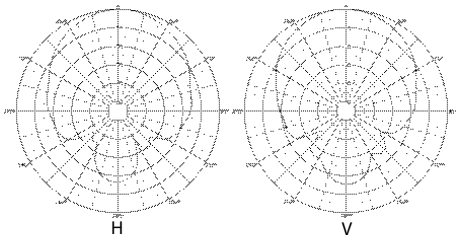
POLAR RESPONSE **



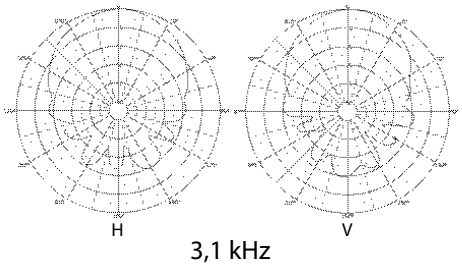
800 Hz



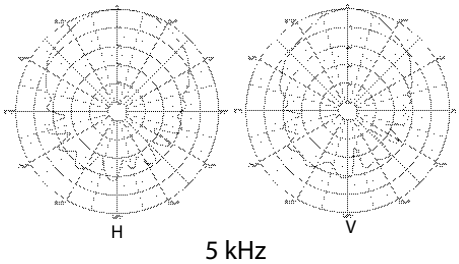
1,2 kHz



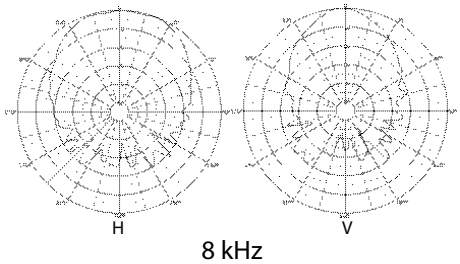
2 kHz



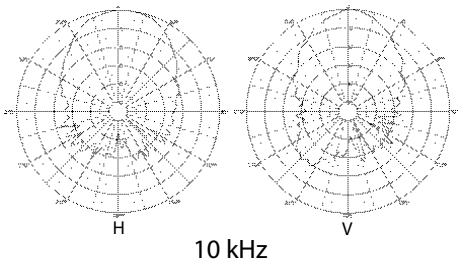
3,1 kHz



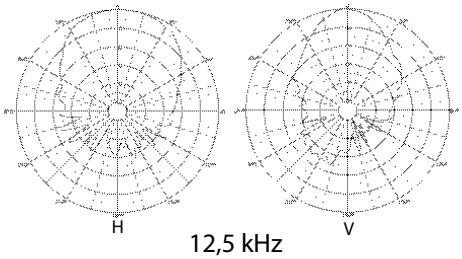
5 kHz



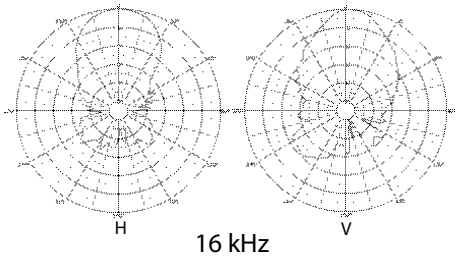
8 kHz



10 kHz



12,5 kHz



16 kHz

Notes:

* Horizontal beamwidth is represented by the heavy line. Vertical beamwidth is represented by the discontinuous line.

** The polar plots are reproduction of measurements done with single sinusoidal signal tones, at the indicated frequencies. The microphone was placed 2m from the horn and rotation was around the centre of the emitter source.

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