beyma
PROFESSIONAL LOUDSPEAKERS

TD460/N

Constant Directivity Horn

KEY FEATURES

- Designed for compression drivers with 2" mouth diameter
- It provides uniform response, on and off-axis with a neutral and natural frequency reproduction
- Coverage angles of 60º in the horizontal plane and 40º in the vertical plane
- Straightforward mounting thanks to its plane mouth finish



GENERAL DESCRIPTION

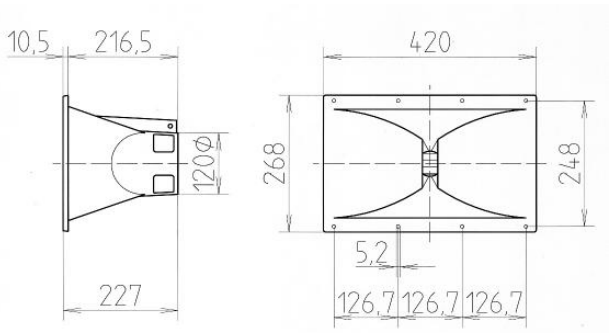
This 2” throat entry horn has been improved in order to provide uniform on and off-axis frequency response, with uncoloured and natural sound reproduction. The constant directivity characteristics of this model ensure the ability to cover 60° wide horizontally and 40° wide vertically, at virtually any frequency within its operational range. Since the response remains essentially constant, equalisation is easily simplified. To ensure freedom of resonance, this flare is constructed of high-density rigid polyurethane foam, with flat front finish to facilitate flush mounting.

TECHNICAL SPECIFICATIONS

Throat diameter	49 mm. 2 in.
Horizontal beamwidth	60º (+18º -20º) (-6dB, 0.63 - 16 kHz)
Vertical beamwidth	40º (+16º -12º) (-6dB, 1.6 - 16 kHz)
Directivity factor (Q)	18.5 (average 0.63 -16 kHz)
Directivity index (DI)	12.7 dB (+3.1 dB, -4.1 dB)
Cutoff frequency	800 Hz
Dimensions	W x H x D: 420 x 270 x 227 mm.
Cutout dimensions	W x H: 365 x 235 mm.
Net weight	2 kg.
Shipping weight	2.8 kg.

Construction
Rigid polyurethane foam.
Connection of driver by four screws on a 4 in (101.6 mm.) diameter bolt circle.
Mounting hardware is supplied.

DIMENSION DRAWINGS

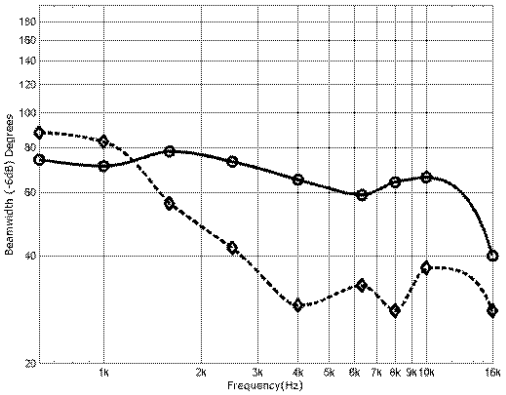


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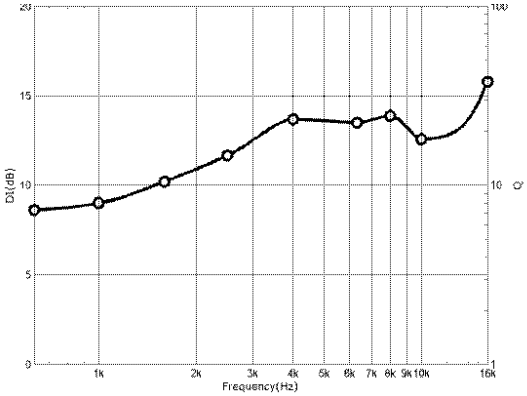
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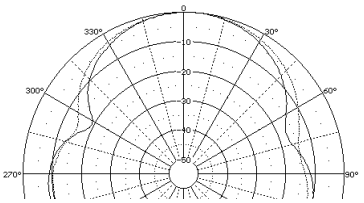
-6dB BEAMWIDTH*



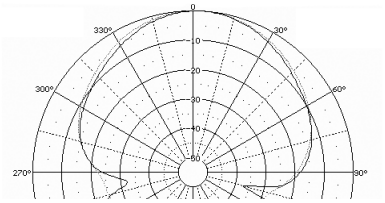
DIRECTIVITY



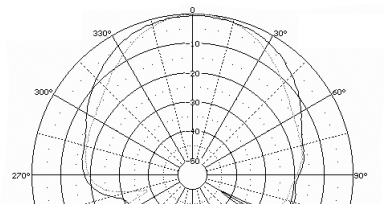
POLAR RESPONSE**



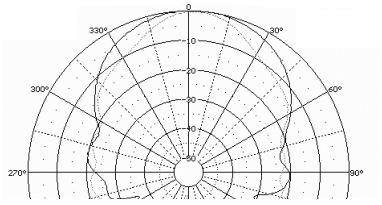
630 Hz



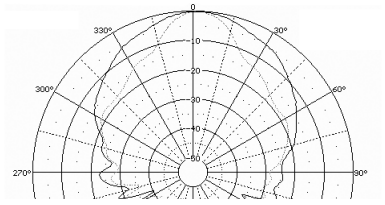
1 kHz



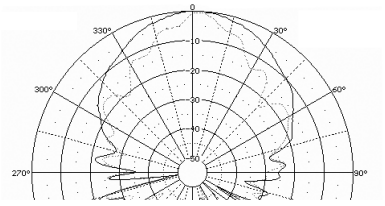
1,6 kHz



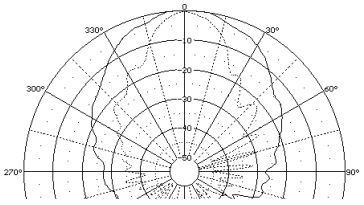
2,5 kHz



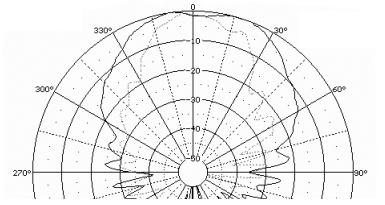
4 kHz



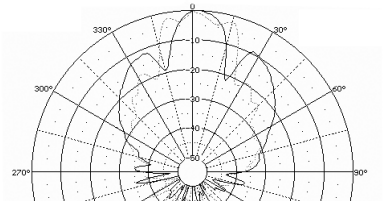
6,3 kHz



8 kHz



10 kHz



16 kHz

NOTES.

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

** Horizontal response is represented by the heavy lines. Vertical response is represented by the discontinuous lines. The polar plots are reproduction of measurements done with single sinusoidal signal tones, at the indicated frequencies. The microphone was placed 2 m from the horn, and rotation was about the centre of the emitter source.

beyma
acústica beyma, s.a.

Polígono Industrial Moncada II · C/. Pont Sec, 1c · 46113 MONCADA - Valencia (Spain)
· Tel. (34) 96 130 13 75 · Fax (34) 96 130 15 07 · http://www.beyma.com · E-mail: beyma@beyma.com ·