

CL3564

MID-SIZE 300-WATT, 3-WAY, 8 Ω LOUDSPEAKER SYSTEM

EUROCOM Installed Sound

CL3564 Features:

- 300-Watt 15" low-frequency and 75-Watt 6" mid-frequency transducers provide deep bass and precise mid-range for medium to large sized rooms
- Constant directivity 60° H x 40° V rotatable waveguide with 1.35" high-frequency transducer
- Passive crossover with overload circuitry ensures optimal driver protection
- Dual professional speaker connectors (compatible with Neutrik Speakon connectors) and 4-position terminal strip
- Internally braced and acoustically inert 15° trapezoidal birch plywood enclosure ideal for array applications
- Multiple threaded inserts for flexible installation including Omnimount™ bolt pattern
- Powder coated steel grille wrapped with acoustically transparent fabric and foam matching cabinet color
- Available in either black (CL3564) or white (CL3564-WH)



Product Overview:

The EUROCOM CL3564 is a professional high-performance two-way loudspeaker system that is ideal for a wide variety of fixed installation applications. Featuring clean lines and a unique fabric-finished wrap-around grille, the CL3564 is fully at home in even the most elegant settings, including theaters and auditoria, houses of worship, themed entertainment, and sporting venues. Perfect for mains in medium to large venues, the CL3564 also excels for fill and delay systems in large rooms.

Built of high-quality laminated Baltic birch plywood, the CL3564's lightweight cabinet combines natural rigidity and acoustic inertness with the additional strength of internal steel bracing. Threaded mounting-point inserts in the internal brackets provide a rated load factor of at least 10 times overall cabinet weight, making the CL3564 exceptionally safe for flown installation, either singly or in arrays.

The CL3564 achieves fully-professional performance and reliability with newly-designed components whose frequency response, sensitivity, and power handling

CL3564 Technical Specifications:

Frequency range (-10 dB)	33 Hz - 20 kHz
Frequency response (+/-3 dB)	37 Hz - 18 kHz
Nominal dispersion	60° H x 40° V
Directivity factor (Q)	13.5
Directivity index (DI)	11 dB
Sensitivity (1 W @ 1 m passive) (half space)	97 dB
Crossover modes	Bypassable
Crossover frequency	600 Hz, 3.8 kHz
Power handling (long term, IEC passive)	300 W RMS @ 49 V

Transducers:

Nominal impedance	8 Ω
Low frequency driver	15" @ 300 W
Mid frequency driver	6" @ 75 W
High frequency driver	1.35" @ 30 W



CL3564 MID-SIZE 300-WATT, 3-WAY, 8 Ω LOUDSPEAKER SYSTEM

EUROCOM Installed Sound

Overview continued:

are all custom-tailored for CL Series loudspeakers. BEHRINGER maintains complete control over quality and sonic character by manufacturing all CL Series components—starting with the pulp used for cone fabrication—in our own factories.

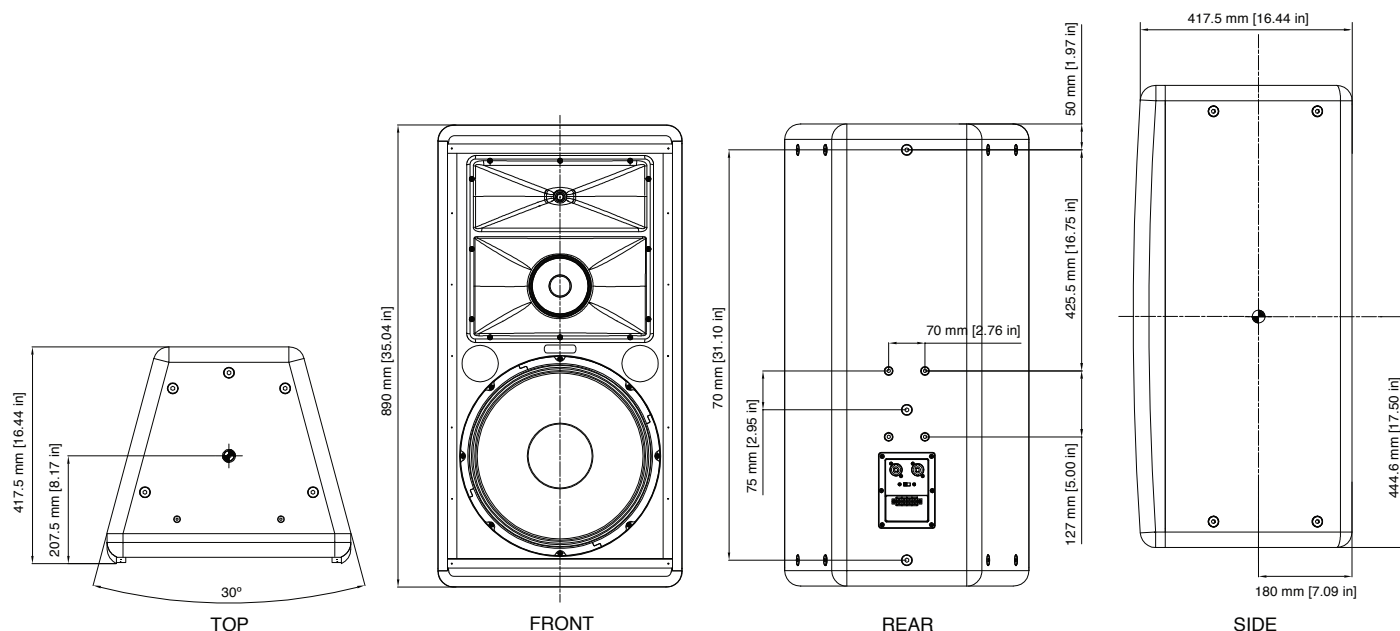
A 15" woofer providing full, rich lows is matched to a 6" mid-range cone driver and a 1.35" compression driver via internal passive crossovers at 600 Hz and 3.8 kHz to deliver clear, smooth sound across the entire audible spectrum. A rotatable waveguide allows optimal application of the 60° x 40° coverage pattern regardless of speaker orientation, which may be either vertical or horizontal. Easy bypass of the crossover offers the added flexibility of operating the loudspeaker in a bi-amped configuration.

Every aspect of the CL3564 has been thought through to maximize value and convenience for both the installer and the end user. The result is an attractive, durable, installation-ready loudspeaker system that will deliver top-notch sound day-after-day for years to come.

CL3564 Technical Specifications continued:

Maximum continuous SPL (passive)	122 dB
Maximum peak SPL (passive)	128 dB
Overload protection	Full range power limiting to protect drivers and crossovers
Enclosure	Trapezoidal 15° side angle, laminated birch plywood
Grille	Steel
Horn waveguide	60° H x 40° V MF/HF, rotatable
Rigging points	23 x M10 threaded points; 4 x M8 threaded inserts for OmniMount™ 60 series.
Termination	Dual NL4 and 4-position terminal strip connection
Dimensions (H x W x D)	35.0 x 18.5 x 16.5" / 890 x 470 x 418 mm
Weight	77.4 lbs / 35.2 kg
Optional accessories	Yoke and bracket, Fly Kit

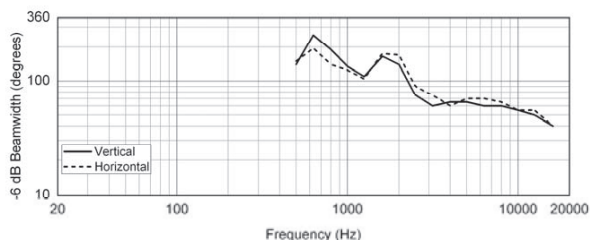
Dimensional Drawings:



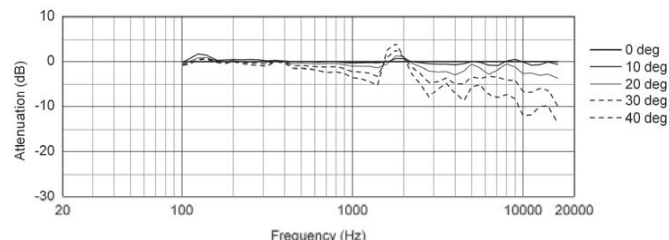
CL3564 MID-SIZE 300-WATT, 3-WAY, 8 Ω LOUDSPEAKER SYSTEM

EUROCOM Installed Sound

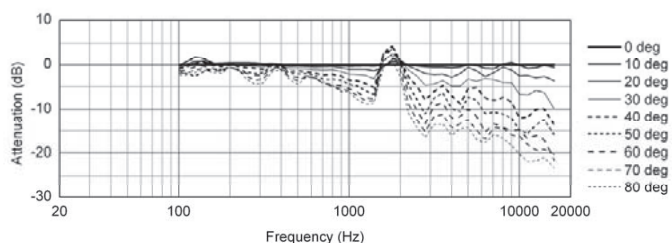
BEAMWIDTH VS. FREQUENCY



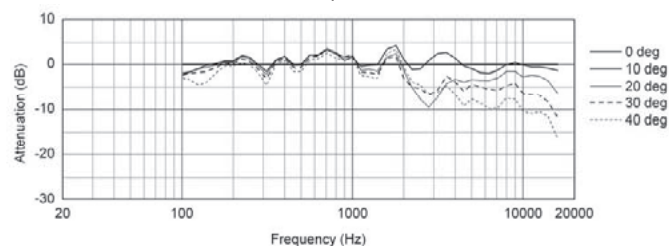
VERTICAL UP OFF-AXIS FREQUENCY RESPONSE



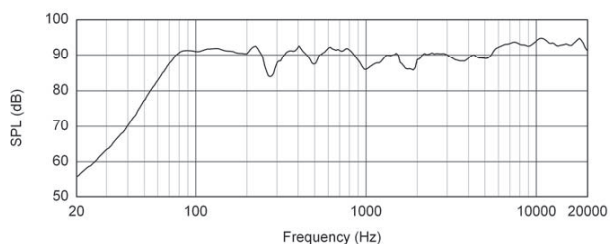
HORIZONTAL OFF-AXIS FREQUENCY RESPONSE



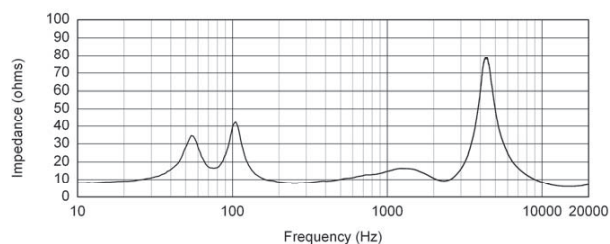
VERTICAL DOWN OFF-AXIS FREQUENCY RESPONSE



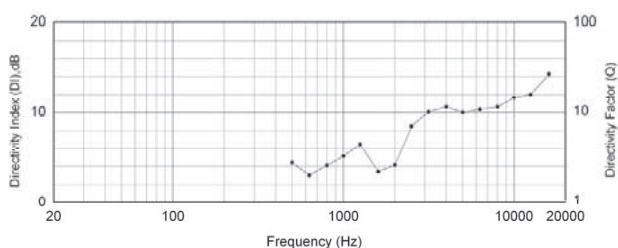
FREQUENCY RESPONSE, 1 W @ 1 M



IMPEDANCE VS. FREQUENCY



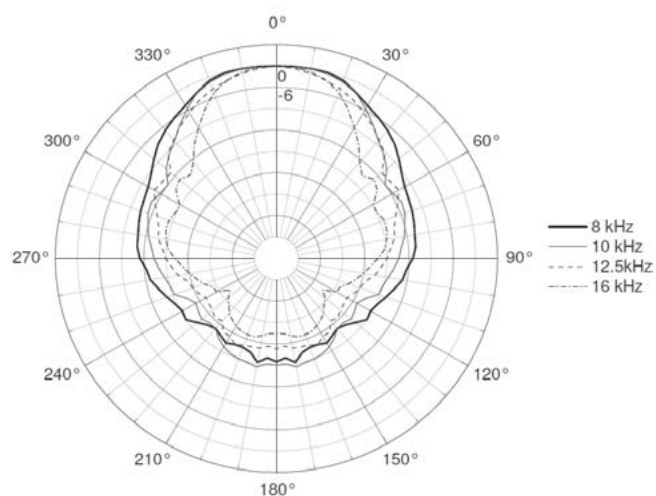
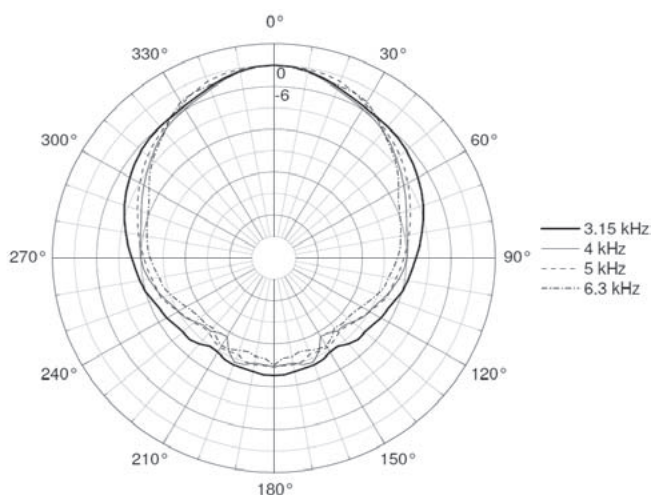
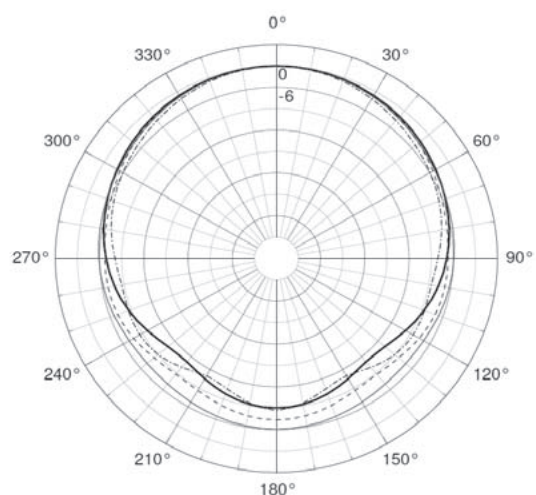
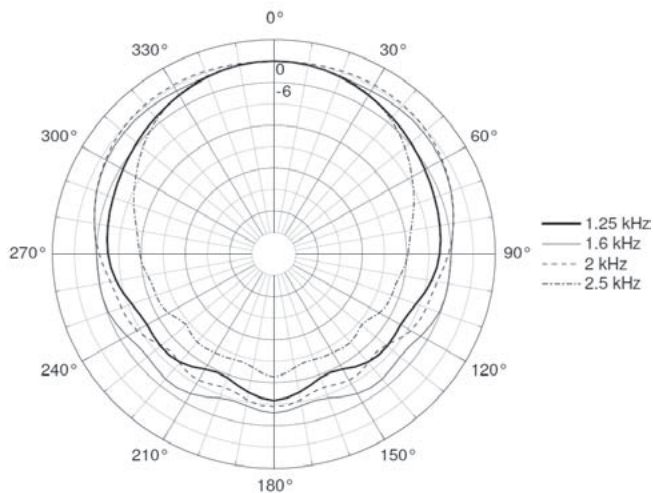
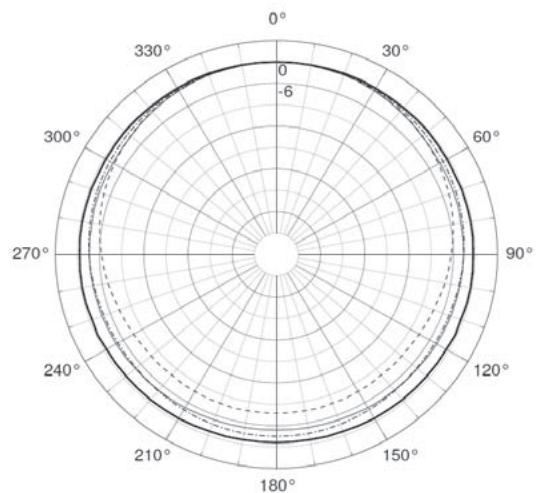
DIRECTIVITY INDEX, Q



CL3564 MID-SIZE 300-WATT, 3-WAY, 8 Ω LOUDSPEAKER SYSTEM

EUROCOM Installed Sound

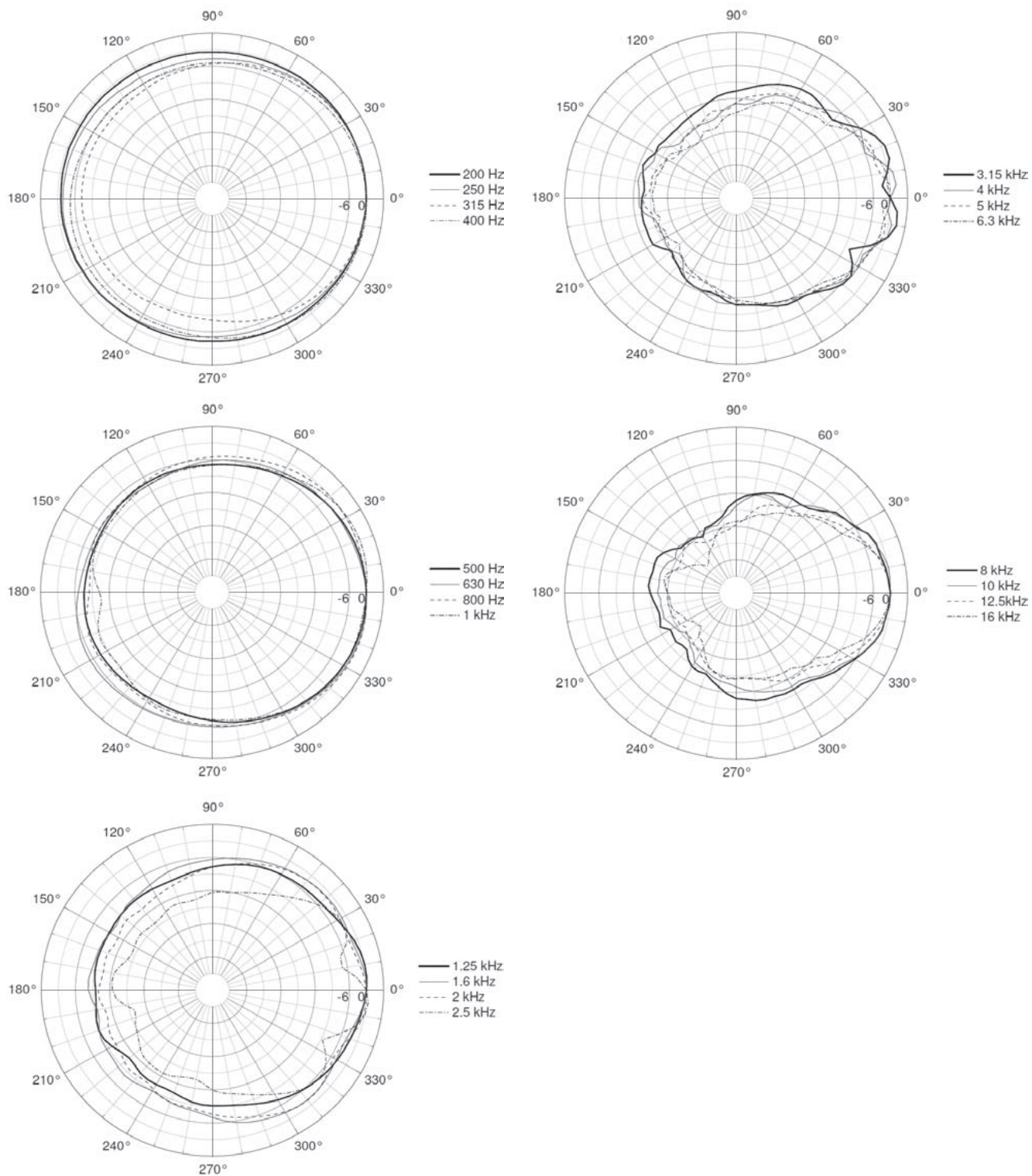
VERTICAL 1/3 OCTAVE POLARS



CL3564 MID-SIZE 300-WATT, 3-WAY, 8 Ω LOUDSPEAKER SYSTEM

EUROCOM Installed Sound

HORIZONTAL 1/3 OCTAVE POLARS



CL3564 MID-SIZE 300-WATT, 3-WAY, 8 Ω LOUDSPEAKER SYSTEM

EUROCOM Installed Sound

Architect's and Engineer's Specifications:

Summary description: The loudspeaker shall be a professional 3-way fixed-installation loudspeaker system in a steel-braced plywood enclosure using a bypassable internal crossover network with a 15" (380 mm) low-frequency cone transducer and waveguide-mounted 6" (150 mm) mid-frequency cone driver and 1.35" (34 mm) high-frequency compression driver.

Drivers: The loudspeaker system shall use three transducers:

- Low-frequency driver shall be a 15" (380 mm) direct-radiating cone transducer
- Mid-frequency driver shall be a 6" (150 mm) cone driver mounted in tandem with the high-frequency driver on a rotatable 60° x 40° waveguide constructed of polypropylene
- High-frequency driver shall be a 1.35" (34 mm) diaphragm compression driver mounted in tandem with the mid-frequency driver on a rotatable 60° x 40° waveguide constructed of polypropylene

Enclosure: The loudspeaker system shall be housed in an enclosure constructed of laminated birch plywood that is internally braced with steel. The enclosure shall be finished with durable, scuff-free black or white paint. The front of the enclosure shall be protected with a perforated grille of powder-coated structural steel behind fabric-wrapped acoustically transparent foam. The back of the enclosure shall have a recessed steel input plate for connectors.

Rigging and mounting: The exterior of the enclosure shall be fitted with 23 M10 threaded rigging points. The rear of the enclosure shall have 4 M8 threaded inserts for OmniMount™ 60 series. The enclosure shall provide attachment points for an optional yoke bracket.

I/O and connectors: The loudspeaker system shall have the following connectors:

- Two NL4 connectors, wired in parallel as full-range inputs to the passive crossover
- One 4-position terminal strip with captive wire clamps and removable plastic cover, with IN terminals wired in parallel to OUT terminals and to the NL4 connectors
- Crossover bypass as a detachable connector on the crossover PCB, allowing direct connection to each driver

Performance criteria: The loudspeaker system shall meet the following performance criteria:

- Nominal impedance shall be 8 Ω
- Sensitivity (1 W / 1 m passive) shall be 97 dB
- Usable frequency range (-10 dB) shall be 33 Hz - 20 kHz
- Frequency response (+/-3 dB) shall be 37 Hz - 18 kHz
- Power Handling (IEC268-5, passive) shall be 300 W RMS @ 40 V
- Nominal dispersion shall be 60° x 40° (axis dependent on horn orientation)
- Maximum SPL (1 m, passive) shall be 122 dB continuous and 128 dB peak

Dimensions and weight: The loudspeaker system shall have the following physical characteristics:

- Height shall be 35.0" (890 mm)
- Width shall be 18.5" (470 mm)
- Depth shall be 16.5" (418 mm)
- Net Weight shall be no more than 77.4 lbs (35.2 kg)

Model: The loudspeaker shall be the BEHRINGER EUROCOM CL3564/CL3564-WH.