The Impact series of full-range, passive loudspeakers has been designed to be used in a variety of installed sound system applications ranging from discotheques, clubs and wine bars to theatres, themed environments and places of worship. In addition, thanks to its elegant styling and practical durability, Impact is ideal for many mobile sound system applications.

The Impact 80 enclosure is manufactured using a unique 'foam-in-place' rotational moulding technique, giving an attractive and extremely durable finish, plus the added benefit of eliminating resonances in the cabinet walls. Impact enclosures are made from recyclable materials.

The Impact 80 is a passive 2-way reflex box design using a proprietary 8" low frequency drive unit matched to an HF device with an internal passive crossover. Its physical design is symmetrical, allowing the speaker to be mounted vertically or horizontally

without altering the 60° horizontal x 60° vertical dispersion pattern. Input to the Impact 80 is via a single pair of colour coded binding posts, serving as both the input from the power amplifier and a parallel connection to additional loudspeakers.

A pole mount socket is moulded into the bottom of the enclosure, thereby allowing the Impact 80 to be used on tripod stands for audio visual applications or on top of bass enclosures from the Turbosound range. An integral moulded handle is provided at the rear for easy lifting and carrying. A versatile range of load tested mounting hardware is available that allows Impact range enclosures to be permanently fixed in installations to walls and ceilings in a wide variety of ways.

Recommended complementary products: TSB-110 sub bass enclosure



FEATURES

Rotationally mounted enclosure

Range of fixing hardware

APPLICATIONS

Discotheques and clubs

Themed environments





DIMENSIONS (HxWxD) 480mm x 295mm x 250mm (18.9" x 11.6" x 9.8")

NET WEIGHT 6.6kg (14.5lbs)

COMPONENTS 1 x 8" (203mm) driver, 1 x HF tweeter

FREQUENCY RESPONSE¹ 70Hz to 18kHz @±4dB

NOMINAL DISPERSION 60°H x 60°V @-6dB points

POWER HANDLING 200 watts r.m.s., 400 watts program

SENSITIVITY² 93dB SPL, 1 watt @ 1 metre

CALCULATED MAX SPL 119 dB (continuous) 125dB (peak)

NOMINAL IMPEDANCE 8 ohms

CROSSOVER Integral passive crossover at 4kHz

CONSTRUCTION Foam-in-place rotationally moulded enclosure, finished in TurboBlue™ Integral pole mount

socket and carrying handle

GRILLE Black powder-coated perforated steel grille

CONNECTORS Binding posts

OPTIONS Optional colours available to order:

Postbox red (346) Turquoise (55455) Charcoal grey
Mid grey (88273) White Lime green (269)
Crimson red (079) Avocado green (383) Racing green (384)
Orange (365A) Sky blue (018D) Yellow (320)

SPARES AND ACCESSORIES

07B500 WB-20 Adjustable telescopic wall bracket
07B502 SM-100 Single point mount
07B506 CB-55 Adjustable telescopic ceiling bracket

07B504 SX-100 Single point mount extension bracket

07B508 PA-100 Pole mount assembly
04B100 LS-8010 LF driver for IMPACT 80.2
RC-8010 Recone kit for LS-8010

04B214 TW-510 HF driver for IMPACT 80.2

10G430 PX-80.2 Passive crossover for IMPACT 80.2

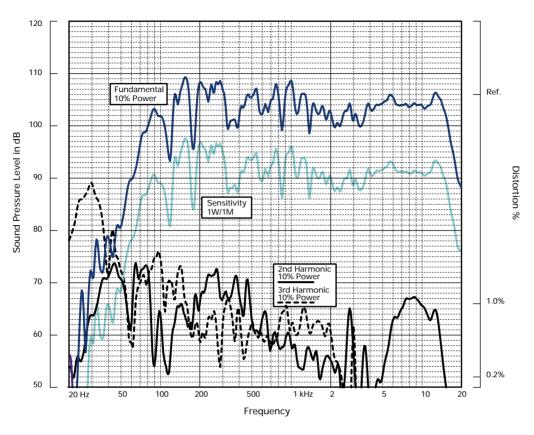
07A940 MG-IMP80 Metal grille for IMPACT 80

All measurements are actual figures taken from real-time testing using stated inputs, free from any filtering or weighting. Therefore actual figures may significantly exceed that of other manufacturers with higher published weighted ratings.

Notes

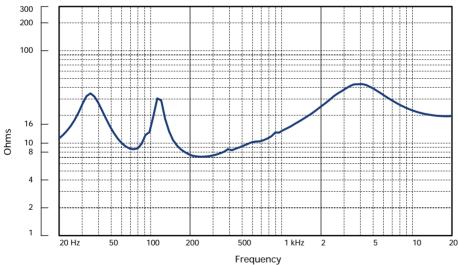
¹Measured on axis

² Average over stated bandwidth



FREQUENCY RESPONSE

IMPEDANCE

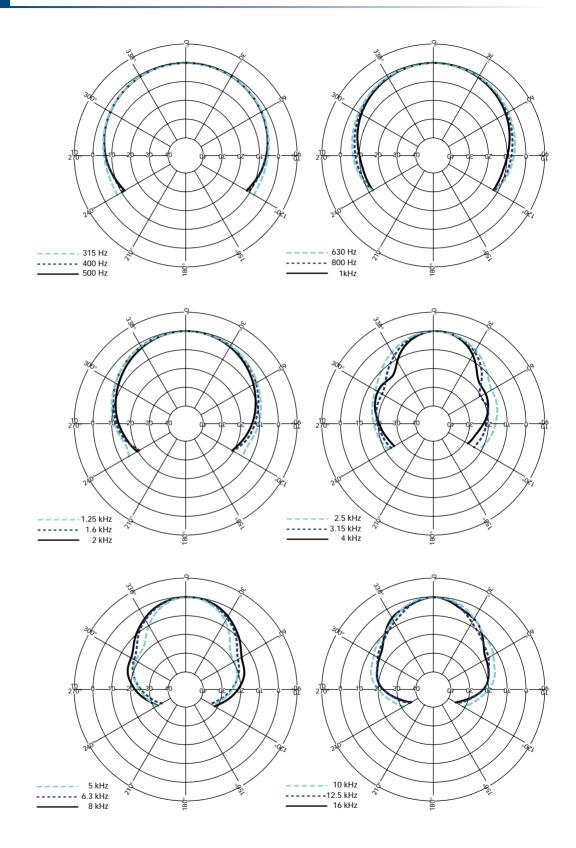


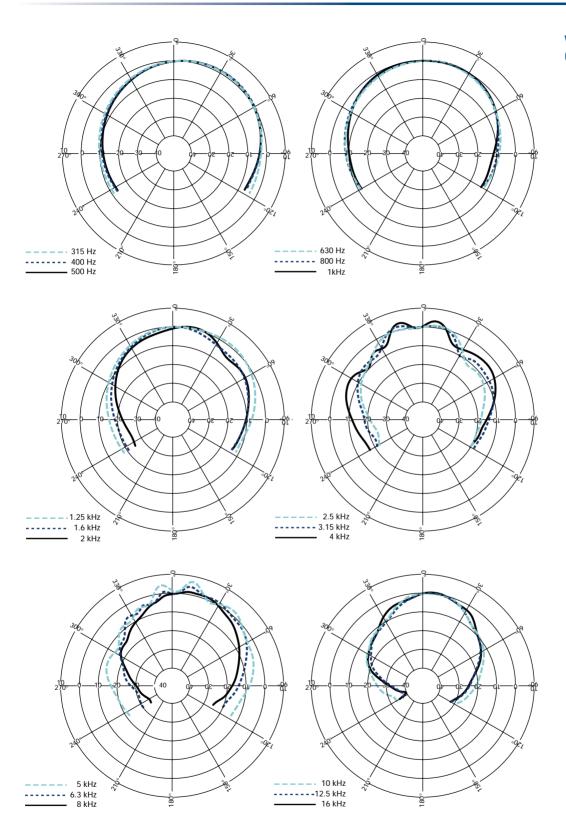
Impedance A constant current circuit was used to measure the impedance. Frequency response The frequency response shown was obtained by feeding a swept sine wave through the system in a half space environment. The position of the microphone was vertically on-axis at a distance of 2 metres, then scaled to represent 1 metre. 2nd & 3rd Harmonic Distortion Distortion measurements were obtained using an Audio Precision harmonic distortion analysis system and comply with AES recommendations for enclosure measurement (AES paper ANSI S4-26-1984). Data Conversion All graphs were digitally generated using the APEX custom software system, designed to translate data derived from Audio Precision 'System One' test equipment into AutoCAD™. This program enables graphical information to be plotted to a high degree of accuracy.

NOTES ON MEASUREMENT CONDITIONS



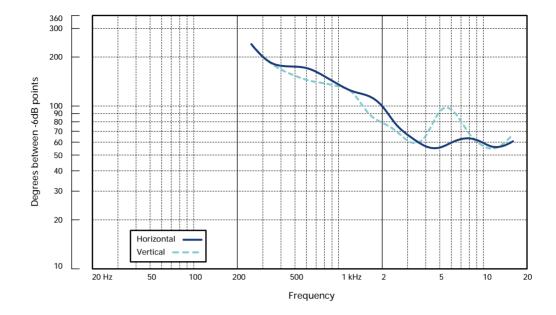
HORIZONTAL THIRD OCTAVE POLARS







BEAMWIDTH

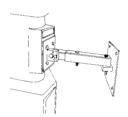


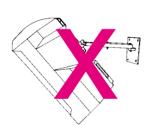
A range of fixing and mounting hardware is optionally available to implement safe and effective installations in a variety of differing situations. An integral moulded 'top hat' fitting is incorporated into the base of the enclosure, allowing it to be used with standard 35mm diameter loudspeaker stands and with the PA-100 straight pole assembly.

FLYING AND MOUNTING HARDWARE

A single point mount, **SM-100**, is used for attaching to single point suspension systems such as TV spigots. A range of adjustments allows either loudspeaker to be flown upside down if required







An adjustable telescopic wall bracket, **WB-20**, allows wall mounting in a variety of possible horizontal and vertical orientations. The vertical orientation of the loudspeaker can be adjusted in 15° increments as shown from 0° (vertical) to 45° of downward inclination



A telescopic ceiling bracket, **CB-55**, is used for ceiling mounting. Several horizontal and vertical orientations are possible



ARCHITECTURAL & ENGINEER'S SPECIFICATIONS

The loudspeaker shall be of the 2-way passive type consisting of one 203mm (8") low frequency loudspeaker and one high frequency tweeter. Performance specifications of a typical production unit shall meet or exceed the following: frequency response, measured with a swept sine-wave input, shall be flat within ±4dB from 70Hz - 18kHz. Nominal dispersion, at -6dB points, shall average 60°H x 60°V. Nominal impedance shall be 8 ohms. Power handling shall be 200 watts r.m.s., 400 watts program. Sensitivity measured with 1 watt input at 1 metre distance on axis, mean averaged over stated bandwidth, shall be 93dB. Maximum SPL (peak), measured with music program at stated amplifier power, shall be 125dB. Dimensions: 480mmH x 295mmW x 250mmD (18.9" x 11.6" x 9.8"). Net weight: 6.6kg (14.5lbs). Total enclosure volume shall not exceed 0.24 cu metres. The loudspeaker system shall be the Turbosound Impact 80.2. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance/size specifications are equalled or exceeded.

DIMENSIONS

