

IMPACT SERIES



IMPACT 80

FULL-RANGE PASSIVE LOUDSPEAKER SYSTEM

The Impact Range 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

speaker to be mounted vertically or horizontally without altering the 80° horizontal x 80° vertical dispersion pattern. Input to the Impact 80 is via a single pair of colour coded screw-type banana terminals, 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

FEATURES

**Rotationally Moulded Enclosure
 Range of Fixing Hardware**

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

APPLICATIONS

**Discotheques and Clubs
 Themed Environments**

the Impact 80 to be used on tripod stands for audio visual applications or on top of the Impact 180 or other 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.

TECHNICAL SPECIFICATIONS

Type	2-way passive reflex box		
Dimensions (HxWxD)	440mm x 295mm x 238mm (17 ³ / ₈ " x 11 ⁵ / ₈ " x 9 ³ / ₈ ")		
Weight	8kg (17.6lbs)		
Components	1 x 203mm (8") driver, 1 x HF device		
Frequency Response ¹	70Hz to 20kHz @±4dB		
Nominal Dispersion	80°H x 80°V		
Power handling	125 Watts r.m.s. (250 Watts program)		
Sensitivity ²	93dB SPL, 1Watt @ 1metre		
Maximum SPL	111 dB (continuous) ³ 117dB (peak) ⁴		
Crossover	Integral passive crossover at 4.2kHz		
Impedance	16 Ohms		
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	Screw type banana terminals		
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-100	Adjustable telescopic wall bracket
	07B502	SM-100	Single point mount
	07B506	CB-100	Adjustable telescopic ceiling bracket
	07B504	SX-100	Single point mount extension bracket
	07B508	PA-100	Pole mount assembly
	07B512	TB-100	T-bar
	04B100	LS-8050	LF driver for IMPACT 80
	04B214	TW-508	HF driver for IMPACT 80
	10G430	PX-80	Passive crossover for IMPACT 80
	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

¹ Measured on axis.

² Average over stated bandwidth.

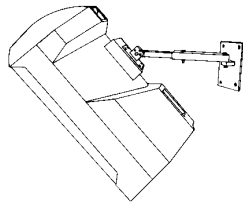
³ Measured at 1 metre.

⁴ Verified by subjective listening tests of familiar program material, before the onset of perceived signal degradation.

FLYING & MOUNTING HARDWARE

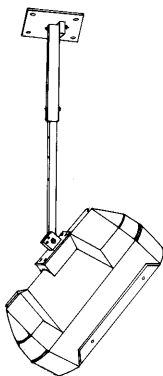
A range of fixing and mounting hardware is optionally available to implement safe and effective installations in a variety of differing situations. An integral moulded 'top hat' fitting is incorporated into the base of IMPACT 80 and IMPACT 120 enclosures, allowing them to be used with standard 35mm diameter loudspeaker stands and with the PA-100 straight pole assembly. A matching pole mount fitting is moulded into the top of the IMPACT 180.

An adjustable telescopic wall bracket, **WB-100**, allows the IMPACT 80 or IMPACT 120 to be fixed to walls 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.

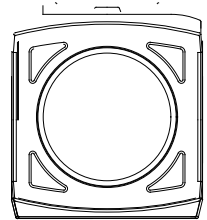


A single point mount, **SM-100**, is used for attaching the IMPACT 80 or IMPACT 120 to single point suspension systems such as TV spigots. A range of adjustments allows either loudspeaker to be flown upside down if required.

The **PA-100** straight pole assembly is a 35mm pole used for mounting IMPACT 80 or IMPACT 120 enclosures to be mounted on top of the IMPACT 180.



A telescopic ceiling bracket, **CB-100**, is used to fix the IMPACT 80 or IMPACT 120 to ceilings, including false ceilings. Several horizontal and vertical orientations are possible.



The **TB-100** T-bar allows two IMPACT 80's to be mounted on top of the IMPACT 180.

**ARCHITECTURAL & DESIGN
ENGINEER'S SPECIFICATIONS**

The loudspeaker shall be of the 2-way passive type consisting of one reflex loaded 203mm (8") low frequency loudspeaker and one high frequency device.

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 $\pm 4\text{dB}$ from 70Hz - 20kHz. Nominal impedance shall be 16 Ohms. Power handling shall be 125 Watts r.m.s., 250 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), mea-

sured with music program at stated amplifier power, shall be 117dB.

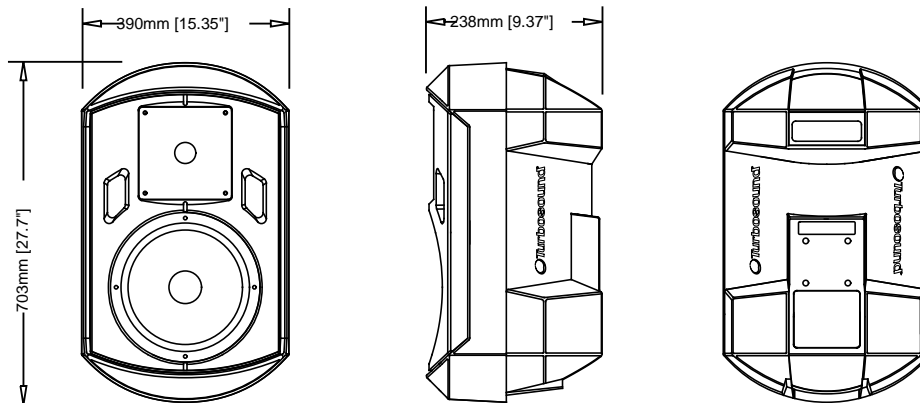
Dimensions: 440mm x 295mm x 238mm

(H x W x D) (17³/₈" x 11⁵/₈" x 9³/₈")

Weight: 8kg (17.6lbs)

Total enclosure volume shall not exceed 0.24 cu metres. The loudspeaker system shall be the Turbosound IMPACT 80. 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



Dealer Stamp



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Turbosound operates a policy of continuous research and development. The implementation of new materials and/or production methods will always equal or exceed the published specifications which are subject to change without notice.

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TURBOSOUND PATENT INFORMATION: TurboBass™ device; TurboMid™ device; V-Series devices (V-2™); Australia 515,535; Canada 1,076,033; Japan X11342/77; U.K. 1,592,246 1,598,310 & 8,614,434; U.S.A. 4,215,761 RE32,183 & 4,882,562; West Germany P274600/2. Worldwide patents pending on the TurboConcentric™ device. Other patents pending.