Turbosound®

ENGINEERING INFORMATION

IMPACT 180

LOW FREQUENCY 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 180 enclosure is manufactured using a unique 'foam-in-place' rotational moulding technique, giving an attractive and extremely durable exterior finish. The process involves the use of a second inner thickness of foamed material, bonded to the outside skin, which dramatically strengthens the overall structure and eliminates resonances in the cabinet walls. IMPACT enclosures are made from recyclable materials.

The IMPACT 180 is a low frequency enclosure designed for use with IMPACT series enclosures such as the IMPACT 50, IMPACT 80 or IMPACT 120. The drive unit is a custom-designed 3" voice-coil 18" loudspeaker, providing 250 Watts r.m.s. of power handling.

It is available as standard with a built-in passive crossover network when used in passive systems with IMPACT 80 or IMPACT 120 enclosures, or without the internal crossover for use with bi-amped IMPACT systems. Speaker connectors are Neutrik Speakon NL4MP for easy and reliable connection. A moulded-in pole mount socket allows mid-high enclosures to be mounted on top. Integral moulded side handles are provided for carrying.

A versatile range of mounting hardware is available that allows IMPACT range enclosures to be permanently installed in a wide variety of ways.

FEATURES

Rotationally Moulded Enclosure
Range of Fixing Hardware

APPLICATIONS

Discotheques and Clubs
Themed Environments

TECHNICAL SPECIFICATIONS

Type	Passive vented box		
Dimensions (HxWxD)	700mm x 640mm x 630mm ($27^1/_2$" x $25^1/_4$" x $24^3/_4$")		
Weight	33kg (72.6lbs)		
Components	1 x 457mm (18") driver		
Frequency Response[1]	50Hz to 150Hz @±4dB		
Power handling	250 Watts r.m.s., (500 Watts program)		
Sensitivity[2]	96dB SPL, 1 Watt @ 1 metre		
Maximum SPL	118dB (continuous)[3], 124dB (peak)[4]		
Crossover	Built in passive crossover network at 110Hz		
Impedance	8 Ohms nominal		
Construction	Foam-in-place rotationally moulded enclosure, finished in TurboBlue Integral pole mount socket and carrying handles		
Grille	Black powder-coated perforated steel grille		
Connectors	Speakon NL4 connectors Wired Pin 1 +: positive, Pin 1-: negative		
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	07B508	PA-100	Pole mount assembly
	04B130	LS-1806	LF driver for IMPACT 180
	05B130	RC-1806	Recone kit for LS-1806
	10G434	PX-180	Passive crossover for IMPACT 180
	07A944	MG-IMP180	Metal grille for IMPACT 180

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.

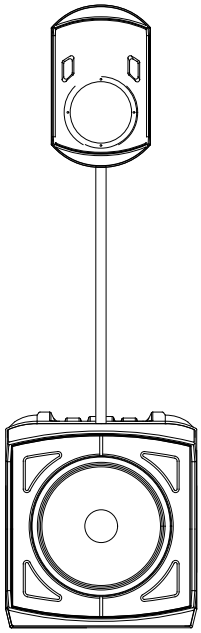
[3] Measured at 1 metre.

[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.

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.



The loudspeaker shall be of the low frequency type consisting of one reflex loaded 457mm (18”) low frequency loudspeaker.

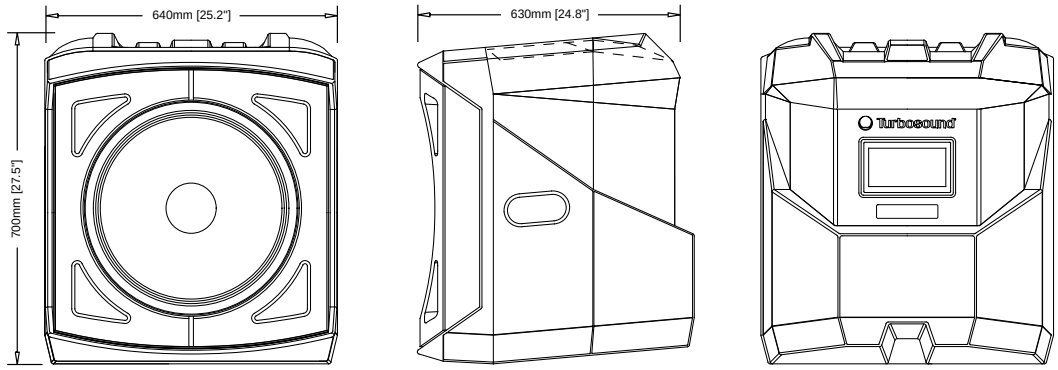
Performance specifications of a typical production unit shall meet or exceed the following:

Frequency response, measured with a swept sine-wave input, shall be flat within ±4dB from 50Hz - 150Hz. Nominal impedance shall be 8 Ohms. Power handling shall be 250 Watts r.m.s., 500 Watts program. Sensitivity measured with 1 Watt input at 1 metre distance on axis, mean averaged over stated bandwidth, shall be 96dB. Maximum SPL (peak), measured with music program at stated amplifier power, shall be 124dB.

Dimensions: 700mm x 640mm x 630mm
(H x W x D) (27 1/2” x 25 1/4” x 24 3/4”)
Weight: 33kg (72.6lbs).

Total enclosure volume shall not exceed 0.35 cu metres. The loudspeaker system shall be the Turbosound IMPACT 180. 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



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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.