series

PW

PLYWOOD ENCLOSURES

Applications

Live Front of House Sound Reinforcement in Clubs, Discos, Piano Bars, Conference Halls, Houses of Worship, Sports Arenas, Schools, Theatres, Mobile D.J. use, Foreground Music Reproduction, etc.

Kempton's PW Series speaker enclosures are the perfect compliment for high power live sound and permanent installation applications. Featuring quality custom designed woofers, and quality compression drivers that are coupled to a constant

directivity 80°H x 50°V horn in plywood enclosures. The acoustically contoured crossover network provides full protection for both LF woofers and HF drivers.

Model		PW 10	PW 12	PW 15
System Configuration	Way	2 - full range	2 - full range	2 - full range
Recommended amplifier	W rms	200	250	300
Long term power AES	W	100	125	150
Short-term power IEC268-5	W	400	500	600
Nominal Impedance	ohm	8	8	8
Frequency response	@-6dB	68Hz - 20kHz	56Hz - 20kHz	53Hz - 20kHz
Low frequency woofer	inch	10" (1,5" coil)	12" (2" coil)	15" (2" coil)
High frequency compr. driver	inch	1" (1,4" coil)	1" (1,4" coil)	1" (1,4" coil)
Sensitivity @1W/1m	dB	93	97	98
Max SPL	dB	116	121	123
Dispersion	H x V	80°x50°	80°x50°	80°x50°
Crossover frequency	kHz	3	2,5	2
Recommended HP filter		45Hz - 12/24 dB oct.	40Hz - 12/24 dB oct.	35Hz - 12/24 dB oct.
Recommended ext. filter		-	-	-
Input connectors		2x4-pin speakon	2x4-pin speakon	2x4-pin speakon
Net dimensions (W x H x D)	mm	360x595x300	405x642x380	453x728x418
	inch	14,17x23,42x11,81	15,94x25,27x14,96	17,83x28,66x16,45
Net weight	Kg	11,5	18	21
	Lb	25,35	39,68	46,29

Cabinet Enclosures

15mm, (5/8") plywood is used in the construction of cabinet enclosures on all models. The use of solid glue joints and the critical placement of internal bracing results in enclosures that virtually indestructible as well as resonance-free.

Shape: Maximum Versatility

The Asymmetrical trapezoidal design shape with a 45° angle provides for Stage Monitor use and Front of House applications (PW10-PW12-PW15).

Finish

Durable textured black paint is used to withstand to the rigors of the road when transporting and provide a stylish appearance for permanent installations.

Pole Mount Sockets & Handles

For speaker stand mounting, all PW models are equipped with a 35mm Ø (1 3/8") aluminium pole mount socket.

Ergonomically placed integrated handles are built into the 100% plywood structure of the cabinet enclosure.

Heavy Duty Grilles

An extremely rugged 1.2mm (0.05") steel grille with high aperture ratio protects the speakers without detracting from their sonic performance in any way.

Rigging / Fly Points

All Kempton PW enclosures are provided with multiple M10 fly points (M6 on PW10) to accept standard eye bolts and facilitate safe and easy flying capabilities.

Connectors

All Kempton PW model Speakers feature professional 2 x 4-pin Speakon connectors that are mounted to a recessed panel to prevent inadvertent operation.

Components

All components were carefully selected and manufactured to Kempton's specifications and tolerances and then severely tested for reliability for the Kempton PW Speaker series. The custom designed Woofers feature high strength curvilinear cones on die cast frames, high temperature resistant voice coils to prevent burnout failures and ferrite magnet structures to produce solid low frequency response. The HF compression drivers provide clean and clear high frequency output and are coupled to an 80°H x 50°V custom designed constant directivity horn for precise dispersion.

Crossover Networks

The Heavy Duty Crossover Networks that divide the signal going to the woofer and compression driver are constructed with oversize coils, high voltage capacitors and power resistors to provide the best possible sound quality and minimize signal loss. Independent LF and HF overload protection circuits are employed to protect the woofers and HF drivers from failures.

PW 18s **PW 12**

Model		PW 215	PW 18s
System Configuration	Way	2 - full range	1 - subwoofer
Recommended amplifier	W rms	600	500
Long term power AES	W	300	250
Short-term power IEC268-5	W	1200	1000
Nominal Impedance	ohm	8	8
Frequency response	@-6dB	53Hz - 20kHz	38Hz - 300kHz
Low frequency woofer	inch	2x15" (2" coil)	18" (3" coil)
High frequency compr. driver	inch	1" (1,4" coil)	-
Sensitivity @1W/1m	dB	101	98
Max SPL	dB	129	125
Dispersion	H x V	80°x50°	omnidirectional
Crossover frequency	kHz	2	external
Recommended HP filter		35Hz - 12/24 dB oct.	28Hz - 12/24 dB oct.
Recommended ext. filter		-	LP 90Hz 12/24dB oct.
Input connectors		2x4-pin speakon	2x4-pin speakon
Net dimensions (W x H x D)	mm	495x1155x480	500x615x642
	inch	19,48x45,72x18,89	19,68x24,21x25,27
Net weight	Kg	34,5	29,5
	Lb	76,05	65,03

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