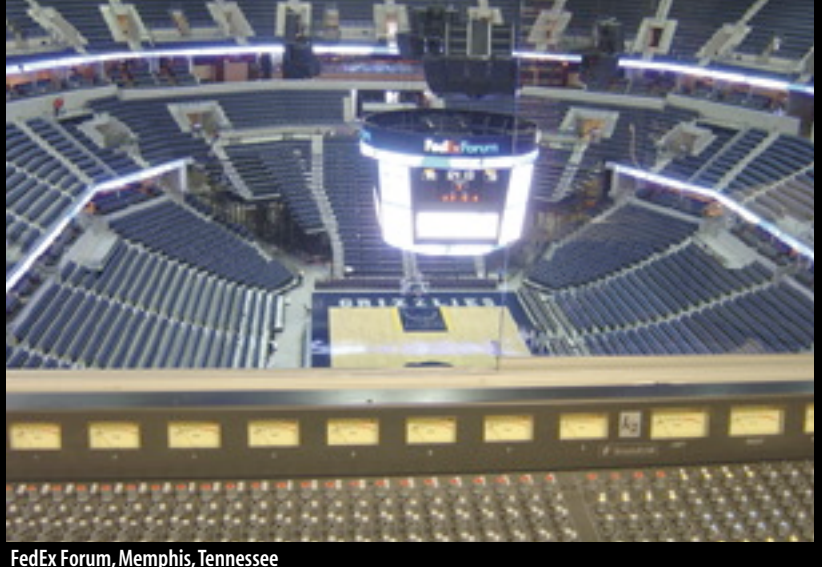
Installation Products

Stade de Suisse Wankdorf, Bern, Switzerland



FedEx Forum, Memphis, Tennessee

No matter where you go in this world, you'll find JBL Installed Sound Speaker Systems at many of the most notable venues.

With that kind of global perspective, JBL has come to respect the one indisputable truth of business: every customer is unique. A speaker system that is perfectly right for one job might be perfectly wrong for another. That's why JBL Installed Sound products offer a range of options without equal. From the extraordinary value of the Control Contractor Series to the ultimate precision of the JBL Precision Directivity Series, there's a JBL Installed Sound product with a solid business solution based on equally solid business savvy.

For more than 60 years, JBL has been the professional speaker of choice wherever sound matters. We'd like to believe it should be your choice, too.

Control® Series

key features

- MOLDED ENCLOSURES WITH SHIELDED MAGNETIC STRUCTURES
- HIGH SENSITIVITY AND POWER HANDLING CAPABILITY

CONTROL 5

CONTROL 1 PRO

CONTROL 1 PRO-WH

The JBL Control Series speakers offer high performance in a variety of applications. Well balanced sound and exceptional power handling make these speakers ideal for any installation requiring professional control monitor performance from a compact source.

CONTROL® 1 PRO

The Control 1 Pro is the next generation high-performance compact loudspeaker system incorporating the latest innovations in JBL Professional loudspeaker systems design. Monitor-grade, magnetically shielded transducers, a professional crossover network and full-range SonicGuard™ overload protection combine for a loudspeaker system that is perfect for a wide variety of critical near-field audio applications, audio-visual applications, computer workstations, recording and broadcast studios, mobile audio-video control rooms and foreground and background music. Includes wall-mounting brackets.

CONTROL 5™

The Control 5 is a high-performance, wide range control monitor suitable for use as the primary sound source in a variety of applications. The 165 mm (6 ½ in) low-frequency driver and 25 mm (1 in) pure titanium dome tweeter are magnetically shielded for use in close proximity to video monitors.

CONTROL SERIES MOUNTING ACCESSORIES

Control Series enclosures are designed for applications in which minimal space, tight corners and tough angles are all too common. Specialized mounting systems allow positioning of enclosures in exactly the right space for optimum performance.

specifications

	CONTROL 1 PRO	CONTROL 5
FREQUENCY RESPONSE	100 Hz - 18 kHz (± 3 dB)	75 Hz - 20 kHz (± 3 dB)
POWER CAPACITY[1]	150 W	175 W
SENSITIVITY: 1 W, 1 m	87 dB SPL	89 dB SPL
NOMINAL IMPEDANCE	4 ohms	4 ohms
COMPONENTS: LF HF	135 mm (5 ¼ in) 19 mm (¾ in)	165 mm (6 ½ in) 25 mm (1 in)
ENCLOSURE	Polypropylene structural foam	Polypropylene structural foam
FINISH	Black (C1Pro) or white (C1Pro-WH)	Black or white (-WH)
DIMENSIONS (H x W x D)	235 x 159 x 143 mm 9.25 x 6.25 x 5.6 in	387 x 251 x 229 mm 15.25 x 9.8 x 9 in
NET WEIGHT (each)	1.8 kg (4 lb)	4.5 kg (10 lb)

[1] *IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB.*

OPTIONAL MOUNTING ACCESSORIES

MTC-8

MTC-51

MTC-52

CONTROL 1 PRO — CONTROL 5

Control® Contractor

Ceiling Speakers

key features

- ALL-IN-ONE CONVENIENCE FOR FAST INSTALLATION AND EASY STOCKING
- AGENCY APPROVED FOR USE IN AIR HANDLING SPACES
- PREMIUM PERFORMANCE
- SONICGUARD™ OVERLOAD PROTECTION

JBL Control Contractor Ceiling Speakers deliver high power handling, overload protection and exceptional sound level capability and are packaged as complete assemblies, including integral backcan, front grille and tile bridge support hardware. Innovative design features such as titanium-coated tweeters and JBL's unique diffraction-horn loading provide broad, even coverage throughout the listening area.

Installation of JBL Control Contractor Ceiling Speakers is quick and easy and can be accomplished without requiring access above the ceiling. Bracketry for suspended ceilings is included. The speaker is held securely in place via mounting ears which rotate into position and lock into place. Inputs are attached to a removable locking connector (included) which can be prewired before installing for ultra-fast snap-on installation. All models (except 26-DT) contain formed steel backcans and are suitable for use in air handling spaces per UL1480. Control 24CT Micro, 24CT MicroPlus, 24CT, 26CT and 19CST feature top quality transformers pre-installed inside the speaker assembly for use on 70V/100V distributed lines. Tap selection is conveniently located on the front of the speaker (except Micro).

24C/CT MICRO and 24CT MICROPLUS

CONTROL 24C/CT MICRO AND CONTROL 24CT MICROPLUS

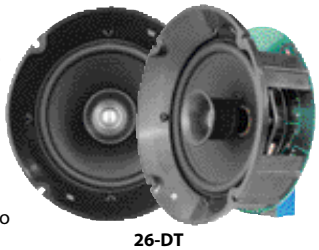
The Control 24C/CT Micro and Control 24CT MicroPlus are compact, easy-to-install in-ceiling speakers, providing full, high quality sound for background music and music-plus-paging systems. The Control 24CT Micro and Control 24CT MicroPlus both include multi-tap transformers.

CONTROL 24C/CT AND CONTROL 26C/CT

The Control 24C contains a coaxially mounted 4" woofer and ¾" titanium-coated tweeter, providing high-fidelity sound over a wide coverage area. The Control 24CT available in black (**C24CT-BK**). The **Control 26C** is a powerhouse ceiling speaker containing a coaxially mounted 6 ½" woofer and ¾" titanium-coated tweeter, able to deliver maximum sound level over a defined area.

CONTROL 26-DT

The Control 26-DT is an 8" driver assembly designed for sound systems requiring a higher fidelity sound and easy installation into standard backcans. A high quality, low insertion-loss transformer is supplied for use on 70V/100V distributed lines.



26-DT

CONTROL 19CS/CST

The unique Nested-Chamber design and Linear Dynamic™ port of the JBL **Control 19CS** subwoofer allows powerful low-frequency reinforcement from a compact in-ceiling enclosure. The Control 19CS is an ideal addition to any system, resulting in full-fidelity, high level sound. The optional **Control 19CST** has a special subwoofer-band transformer for use on 70V or 100V line distribution systems.

24C/CT 26C/CT 19CS/CST

ACCESSORIES

New Construction Bracket: **MTC-xxNC***
Plaster Ring Bracket: **MTC-xxMR***

Trim Rings: Allow for installation into existing ceiling speaker cutouts that are larger than the speaker's normal cutout size. **MTC-xxTR***.

** These models are available in different sizes. Specify speaker model when ordering.*

specifications

	24C/CT MICRO 24CT MICROPLUS	24C/CT	26C/CT	26-DT	19CS/CST
FREQUENCY RANGE (-10dB) [1]	85 Hz - 25 kHz	80 Hz - 20 kHz	75 Hz - 20 kHz	70 Hz - 20 kHz	42 Hz - 200 Hz
POWER CAPACITY: PROGRAM [2]	30 W	80 W	150 W		200 W
PINK [3]	15 W	40 W	75 W		100 W
NOMINAL DISPERSION	150° conical	130° conical	110° conical	90°	Omnidirectional
NOMINAL SENSITIVITY 1 W, 1 m	86 dB	86 dB	89 dB	89 dB (60 W tap)	95 dB (ceiling, near corner) 89 dB (center of ceiling)
NOMINAL IMPEDANCE	8 ohms (24C Micro)	16 ohms (24C)	16 ohms (26C)		8 ohms (19CS)
TRANSFORMER TAPS: 100V	8, 4, 2, 1 W (24CT Micro) 25, 12 W (24 CT MicroPlus)	30, 15, 7.5 W (24CT)	60, 30, 15 W (26CT)	60, 30, 15 W	60, 30, 15 W (19CST)
70.7 V	8, 4, 2, 1, .5 W (24CT Micro) 25, 12, 6 W (24CT MicroPlus)	30, 15, 7.5, 3.7 W (24CT)	60, 30, 15, 7.5 W (26CT)	60, 30, 15, 7.5 W	60, 30, 15, 7.5 W (19CST)
COMPONENTS: LOW FREQ.	4 ½ in (115 mm)	4 in (100 mm)	6 ½ in (165 mm)	6 ½ in (165 mm) *	8 in (200 mm)
HIGH FREQ.	½ in (12 mm)	¾ in (19 mm)	¾ in (19 mm)	¾ in (19 mm)	
ENCLOSURE	Formed steel backcan	Formed steel backcan	Formed steel backcan		Formed steel backcan
DIMENSIONS (H x DIA.)	106 x 195 mm 4.2 x 7.7 in	200 x 195 mm 7.9 x 7.7 in	210 x 252 mm 8.3 x 9.9 in	120 x 200 mm 4.72 x 7.87 in	345 x 345 mm 13.6 x 13.6 in
NET WEIGHT (each)	24C Micro: 1.6 kg (3.6 lb) 24CT Micro: 2.0 kg (4.4 lb) 24CT MicroPlus: 2.5 kg (5.5 lb)	24C: 2.7 kg (6 lb) 24CT: 3.5 kg (8 lb)	26C: 3.4 kg (7.5 lb) 26CT: 4.2 kg (10 lb)	1.9 kg (4.2 lb)	19CS: 5.5 kg (12 lb) 19CST: 6.3 kg (14 lb)

See footnotes on facing page.

** 8" compatible mounting*

In-Wall Speakers

key features

- MINIMAL VISUAL IMPACT
- HIGH POWER HANDLING CAPABILITY
- EASY TO INSTALL IN STANDARD STUD-WALL CONSTRUCTION
- 70V/100V VERSIONS AVAILABLE

126W/WT

128W/WT

JBL Control 126W/WT and 128W/WT are premium in-wall speakers designed for applications where top performance from a loudspeaker with minimal visual impact is required. The Control 100 Series speakers are voiced similarly to other JBL Control Contractor models, allowing mixing with surface-mount and in-ceiling speakers within a single listening space. The premium sound quality makes these loudspeakers ideal for critical listening environments, yet they are high power and rugged enough to handle venues requiring high-SPL, heavy duty-cycle music.

CONTROL 126W/WT and CONTROL 128W/WT

The Control 126 W and Control 128 W feature high performance woofers with a polymer coated aluminum cone, pure butyl rubber surround for long life and high reliability, and extended polepiece magnet design for long excursion and high reliability. The pure titanium dome high frequency driver is loaded with a built-in EOS™ (Elliptical Oblate Spheroidal) waveguide for low distortion and a smooth frequency response. A low-diffraction swivel mounting system enables the user to direct high frequencies where required without the diffraction distortion inherent in other aimable tweeter designs. A high-slope crossover network maintains natural midrange sound and produces more even coverage throughout the listening area.

The speakers fit into the wall space of ordinary stud-wall construction. An optional rough-in frame is available for installing the speakers into standard stud walls in new construction projects. As is the case with all Control Contractor speakers, the baffles and grilles are paintable to match any décor.

The optional Control 126WT and Control 128WT include 70V/100V transformers for use on distributed loudspeaker lines.

specifications

	CONTROL 126W/WT	CONTROL 128W/WT
FREQUENCY RANGE (-10 dB) [1]	38 Hz - 20 kHz	30 Hz - 20 kHz
POWER CAPACITY: PROGRAM [2] PINK [2]	100 W 50 W	120 W 60 W
SENSITIVITY: 1 W, 1 m	88 dB SPL	90 dB SPL
NOMINAL IMPEDANCE	8 ohms	8 ohms
TRANSFORMER TAPS: 100V 70.7 V	30, 15, 7.5 W (126WT) 30, 15, 7.5, 3.7 W (126WT)	50, 25, 12 W (128WT) 50, 25, 12, 6 W (128WT)
COMPONENTS: LOW FREQ. HIGH FREQ.	6 ½ in (165 mm) 1 in (25 mm)	8 in (200 mm) 1 (25 mm)
TERMINATION	Screw-down Euroblock type	Screw-down Euroblock type
OPTIMUM AIR CAVITY BEHIND SPEAKER	20 -40 liters (0.7 to 1.4 cu. ft.)	40 -80 liters (1.4 to 2.8 cu. ft.)
ROUGH-IN FRAME	MTC-126RIF	MTC-128RIF
DIMENSIONS (H x W x D)	280 x 215 x 105 mm 11 x 8.5 x 4.1 in	334 x 257 x 110 mm 13.1 x 10.1 x 4.3 in
NET WEIGHT (each)	126W: 2.1 kg (4.5 lb) 126WT: 2.7 kg (5.9 lb)	128W: 2.6 kg (5.5 lb) 128WT: 3.3 kg (7.2 lb)

[1] *Half-space (mounted in-wall or in ceiling)*

[2] *Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).*

[3] *Rated in Continuous Pink Noise for 100 hours.*

Control® Contractor

Surface-Mount Speakers

The Control Contractor Surface speakers are compact systems with rugged, molded high impact polystyrene shells. Designed for wide-ranging indoor and outdoor (except SB-2) applications, the Control Contractor Series offers versatility, ease-of-installation and paintability. JBL's Invisiball® mounting technology revolutionizes ease-of-installation with built-in hardware easily secured with a standard hex wrench from a front channel. Mounting bracket is included.

CONTROL 23/CONTROL 23T

The most compact of the JBL Control Contractor Series speakers, **the Control 23**, has a 3½" woofer and horn-loaded titanium-coated tweeter ideal for mid/high operation in limited space environments. This system delivers crisp, articulate sonic quality. The optional Control 23T has a pre-installed transformer for line distribution systems. Augmenting the bass with a JBL subwoofer results in an extremely full-fidelity system.

CONTROL 25/CONTROL 25T

The Control 25 incorporates a 5¼" low frequency loudspeaker with a horn-loaded 1" titanium-coated tweeter. Its full-range frequency response makes it an excellent choice for moderately large venues, providing superior dynamic performance and a smooth roll-off down to 80 Hz. The optional Control 25T includes a multitap transformer for line distribution systems.

CONTROL 25AV

The Control 25AV is an especially wide bandwidth, smooth response speaker. It is magnetically shielded for use in close proximity to video monitors. It features a top-quality 60 W multitap transformer for 70V/100V line distribution systems. The transformer may be bypassed allowing the Control 25AV to be used as an 8 ohm impedance speaker. Stainless steel grille and MTC-PC2 panel cover included for additional weather resistance.

CONTROL 28/CONTROL 28T-60

The Control 28 offers high power, performance, bandwidth and sensitivity in a compact, full-range speaker. Incorporating an 8" low-frequency woofer and 1" titanium- coated tweeter, the Control 28 provides vivid sound reproduction for large-space applications. The optional Control 28T-60 contains a multitap transformer for 70V/100V line distribution systems.

CONTROL 29AV-1

The Control 29AV-1 utilizes high power components, computer optimized horn and cabinet design, and complex network to achieve smooth high fidelity performance, extended bandwidth and well-controlled defined coverage from a compact loudspeaker. A rotatable 110° x 85° high-frequency horn allows use of the speaker in either vertical or horizontal orientation. Smooth frequency response and even coverage ensures excellent sound character throughout the listening area. Contains 10 inserts for suspending. Optional MTC-29UB U-bracket available.

CONTROL 30

The Control 30 is a three-way high output speaker designed for multiple uses. Weather resistance has been maximized, making the Control 30 suitable for outdoor applications. It features a top-quality 150 W multitap transformer for 70V/100V line distribution systems with a bypass for use as an 8 ohm speaker.

CONTROL SB-2

The SB-2 features a hybrid load-baffle/bandpass design for musical clarity. This single speaker functions as the subwoofer section of left/right music systems, preserving the stereo separation. The dual voice coil 10" bass transducer has been optimized to complement four Control 23 as satellite speakers. (Not outdoor capable.)

CONTROL SB210

The Control SB210 subwoofer contains two high power 10" woofers suitable for a variety of applications both indoors and out. Its compact size, durable enclosure, insert points, and stacking options make it one of the most versatile subwoofers in the installation market. Optional input modules are available to provide passive subwoofer/satellite crossover (MTC-210-SAT), 70 V/100V subwoofer-band transformer (MTC-210T) or both (MTC-210T-SAT for use with low impedance satellite speakers.)

ACCESSORIES

MTC-PC2: The MTC-PC2 Panel Cover provides sealed entrance protection for input terminals and strain relief for incoming speaker wire.

MTC-xxSSG and MTC-xxWMG: SSG stainless steel retrofit grilles for Control 23, 25, and 28. WMG WeatherMax™ grilles add a foam and tight-weave backing to break up driving rain.

MOUNTING BRACKETS

MTC-xxUB U-BRACKET

MTC-xxUB: U-brackets for installing Control 29AV, 30 and SB210. Available in black or white.

MTC-xxH* HORIZONTAL ARRAY BRACKETS

MTC-xxH* Horizontal Array Brackets: Allows horizontal arraying of two Control 23, 25 or 28 speakers with splay angles of 60˚. MTC-H brackets can be interconnected to form a suspended ring for mounting 6 speakers or 3 speakers in a 360˚ cluster module.

3) MTC-xxH* AS CLUSTER MODULE BRACKET (SHOWN PARTIAL)

MTC-xxV* VERTICAL ARRAY BRACKETS

MTC-xxV* Vertical Array Brackets: Allows vertical end-to-end arraying of up to three Control 23, 25, or 28 speakers in a tight attractive column.

MTC-xxCM* CEILING BRACKETS

MTC-xxCM* Ceiling Brackets: The curved arm allows installation of Control 23, 25, 28, 29AV or 30 speakers down from a ceiling.

SB-2 BRACKETS

SB-2 Installation Brackets: The MTC-SB2W wall/corner bracket allows mounting of the subwoofer onto a wall surface or into a corner. The MTC-SB2C ceiling bracket enables suspension of the SB-2 from above, projecting downward into the listening area.

Various adaptors for installing via threaded pipe or rod available from third party. Contact JBL for information.

** These models are available in different sizes. Specify speaker model when ordering.*

CONTROL SB-2

CONTROL SB210

CONTROL® CONTRACTOR SERIES

key features

- INVISIBALL® MOUNTING TECHNOLOGY
- WEATHEREDGE™ FOR MOISTURE PROTECTION
- OPTIONAL FACTORY INSTALLED TRANSFORMERS
- PAINTABLE TEXTURED HIPS ENCLOSURES
- SELECTION OF VERSATILE MOUNTING HARDWARE

CONTROL 29AV-1 | CONTROL 28/28T-60 | CONTROL 25AV | CONTROL 25/25T | CONTROL 23/23T | CONTROL 30-WH

All models available in black or white (-WH).

specifications

	CONTROL 23/23T	CONTROL 25/25T	CONTROL 25AV
FREQUENCY RANGE (-10 dB)[1]	85 Hz - 22 kHz (23) 100 Hz - 21 kHz (23T)	80 Hz - 16 kHz (25) 80 Hz - 15 kHz (25T)	70 Hz - 23 kHz
POWER CAPACITY: PROGRAM [2] PINK [3]	50 W (23) 25 W (23)	150 W (25) 75 W (25)	200 W 100 W
NOMINAL COVERAGE	90° x 90°	90° x 90°	100° x 100°
SENSITIVITY: 1 W, 1 m	86 dB SPL (23)	88 dB SPL (25)	87 dB SPL
NOMINAL IMPEDANCE	8 ohms (23)	8 ohms (25)	8 ohms
COMPONENTS: LOW FREQ. HIGH FREQ.	3 ½ in (88 mm) ½ in (13 mm)	5 ¼ in (135 mm) ¾ in (19 mm)	5 ¼ in (130 mm) ¾ in (20 mm)
TRANSFORMER TAPS: 100V 70.7V	10 W (23T) 5 W (23T)	30, 15, 7.5 W (25T) 30, 15, 7.5, 3.7 W (25T)	60, 30, 15 W 60, 30, 15, 7.5 W
ENCLOSURE	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)
FINISH	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)
DIMENSIONS (H x W x D)	193 x 140 x 111 mm 7.6 x 5.5 x 4.4 in	236 x 188 x 149 mm 9.3 x 7.4 x 5.8 in	236 x 186 x 159 mm 9.3 x 7.4 x 6.3 in
NET WEIGHT (each)	1.8 kg (4 lb) (23) 2.2 kg (5 lb) (23T)	2.3 kg (5 lb) (25) 3.6 kg (8 lb) (25T)	4.0 kg (9 lb)

A JBL Control SB-210 subwoofer with MTC-210-SAT crossover and two Control 29AV-1 speakers forms a full-range subwoofer/satellite system capable of outstanding musical impact.

[1] *Half-space (on wall).*

[2] *Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).*

[3] *Continuous Pink Noise for 100 hours.*

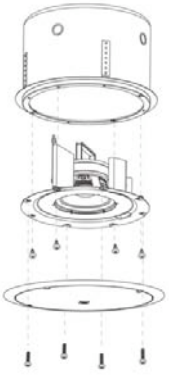
	CONTROL 28/28T-60	CONTROL 29AV-1	CONTROL 30	CONTROL SB-2	CONTROL SB210
FREQUENCY RANGE (-10 dB) [1]	60 Hz - 16 kHz (28) 55 Hz - 15 kHz (28T-60)	37 Hz - 18 kHz	38 Hz - 17 kHz	38 Hz - 160 Hz	42 Hz - 200 Hz
POWER CAPACITY: PROGRAM [2] PINK [3]	175 W (28) 87 W (28)	300 W 150 W	500 W 250 W	340 W (both inputs) 170 W (both inputs)	800 W 400 W
NOMINAL COVERAGE	90° x 90°	110° x 85° (rotatable)	120° x 110°	N/A	N/A
SENSITIVITY: 1 W, 1 m	92 dB SPL (28)	90 dB SPL	93 dB SPL	94 dB SPL (on wall) 100 dB SPL (near corner)	96 dB SPL (on wall) 102 dB SPL (near corner)
NOMINAL IMPEDANCE	8 ohms (28)	8 ohms	4 ohms	8 ohms per input	8 ohms
COMPONENTS: LOW FREQ. MID FREQ. HIGH FREQ.	8 in (200 mm) 1 in (25 mm)	8 in (200 mm) 1 in (25 mm) comp. driver	10 in (250 mm) 5 in (125 mm) 1 in (25 mm) comp. driver	10 in (250 mm) long-throw with dual voice coils	2 x 10 in (250 mm)
TRANSFORMER TAPS: 100V 70.7V	60, 30, 15 W (28T-60) 60, 30, 15, 7.5 W (28T-60)	110, 55, 28 W 110, 55, 28, 14 W	150, 75, 38 W 150, 75, 38, 19 W		
ENCLOSURE	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	Particle Board	HIPS (High Impact Polystyrene)
FINISH	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)	Black	Black or white (-WH)
DIMENSIONS (H x W x D)	380 x 280 x 220 mm 15.0 x 11.0 x 8.6 in	520 x 306 x 277 mm 20.5 x 12.0 x 10.9 in	593 x 372 x 345 mm 23.3 x 14.6 x 13.5 in	394 x 585 x 343 mm 15.5 x 23.0 x 13.5 in	335 x 590 x 570 mm 14 x 23.3 x 22.5 in
NET WEIGHT (each)	5.5 kg (12 lb) (28) 6.3 kg (14 lb) (28T-60)	12.2 kg (27 lb)	18.9 kg (42 lb)	19.1 kg (42 lb)	17.1 kg (38 lb)

Control® 200 Series Premium Medium-Format Ceiling Speakers

key features

- 6.5" KEVLAR-REINFORCED LF
- 1" EXIT COMPRESSION DRIVER HF
- INTEGRATED & INDEPENDENT BACKCAN VERSIONS
- HIGH OUTPUT, PREMIUM SOUND QUALITY

CONTROL 227C & 227CT Assembly with Backcan and Grille.



Control 226C/T, 227C and 227CT are premium in-ceiling speakers designed to meet the increasing market demand for premium quality sound in ceiling-mount applications. The Control 200 Series loudspeakers incorporate breakthrough performance features such as best-in-class pattern control to provides a consistent sound throughout the listening area. Especially wide coverage allows fewer speakers to cover the space, reducing both the material and labor cost for the installation.

Handy, clip-in connections further reduce installation time, and the premium backcan for Control 227C & 227CT gives the performance of a top-quality wood cabinet in a metal ceiling-can form factor. The high-power kevlar-reinforced 6.5 in (165 mm) low-frequency driver along with the titanium-diaphragm compression driver and the advanced-technology steep-slope crossover network provide superb, wide-bandwidth sound quality.

CONTROL 226C/T

Control 226C/T is a compact, easy-to-install speaker with integrated backcan for blind-mounting into ceilings. It features a top-quality 60 W multi-tap transformer for 70V/100V line distribution systems. The transformer may be bypassed, allowing the Control 226C/T to be used as a low-impedance 8 ohm speaker.

C-ring, tile rails and grille are included. This model is designed to be able to utilize the optional MTC-19NC new construction ring and MTC-19MR plaster-ring for new construction projects requiring pre-installation rings.

CONTROL 227C

Control 227C is a high-output, low-impedance 8 ohm speaker assembly for installation with the separate MTC-200BB8 backcan and MTC-RG6/8 grille (both sold separately). Optional accessories include MTC-19NC new construction ring, MTC-19MR plaster-ring, and MTC-TB6/8 tile bridge.

CONTROL 227CT

Control 227CT is a 70V/100V version of Control 227C, featuring a top-quality 60 W multi-tap transformer for 70V/100V line distribution systems.

PREMIUM ACCESSORIES

MTC-200BB6: Backcan for Control 227C and 227CT. Reinforced with 1/2 in (12 mm) MDF wood on back panel, this metal backcan provides the sound quality of a top wood enclosure. 13.3 inches (337 mm) max diameter x 8.5 inches (216 mm) deep.

MTC-RG6/8: Round grille for Control 227C and 227CT. Also fits Control 328C & 328CT. 13.6 inches (345 mm) in diameter

MTC-TB6/8: Tile bridge for Control 227C and 227CT. Also fits Control 328C & 328CT.

MTC-19NC & MTC-19MR: New-construction and mud rings fit Control 226 for new construction applications requiring pre-installation rings.

specifications

	CONTROL 226C/T	CONTROL 227C & 227CT
FREQUENCY RANGE (-10 dB)[1]	47 Hz – 19 kHz	43 Hz – 19 kHz
POWER CAPACITY: PROGRAM	300 W	300 W
PINK (2 hr)[2]	150 W	150 W
(100 hr)[2]	100 W	100 W
SENSITIVITY: 1 W, 1 m	90 dB	90 dB
NOMINAL IMPEDANCE	8 ohms	8 ohms (227C)
NOMINAL COVERAGE[3]	120°	120°
COMPONENTS: LOW FREQ.	6.5 in (165 mm)	6.5 in (165 mm)
HIGH FREQ.	1 in (25 mm)	1 in (25 mm)
TRANSFORMER TAPS: 100V	60W, 30W, 15W	60W, 30W, 15W (227CT)
70.7V	60W, 30W, 15W, 7.5W	60W, 30W, 15W, 7.5W (227CT)
DIMENSIONS (DIA. X DEPTH)	13 x 9.7 in (330 x 246 mm)	12.0 x 5.8 in (305 x 147 mm)
NET WEIGHT (each)	9.1 kg (20 lb)	4.1 kg (9 lb) 227C 5.2 kg (11.5 lb) 227CT

[1] Half-space (in ceiling) *[2] IEC standard, full bandwidth pink noise with a crest factor (peak to average ratio) of 6 dB.* *[3] Average 1 kHz to 16 kHz.*

CONTROL 226C/T

Control 200 models are available both in an independent backcan design (Control 227C & 227CT) and in an integrated backcan version (Control 226C/T).

Control® 300 Series

Large Format In-Ceiling Loudspeakers

key features

- HIGH FIDELITY PERFORMANCE
- PRECISION COVERAGE
- EASY TO DESIGN AND INSTALL
- PREMIUM ACCESSORIES

Control 300 Series represents the state of the art in large-format ceiling loudspeaker systems. True point-source coax designs, multiple power levels and transformer choices, plus an in-ceiling subwoofer, make it easy to fulfill any architectural, aesthetic and system performance requirements. Premium components include Kevlar-reinforced cones, low-saturation transformers and legendary JBL compression drivers. Advanced high-slope crossover networks, combined with low system distortion and smooth frequency response provides full, natural music along with exceptional speech intelligibility.

In these Control 300 coax models, the throat and cone combine to form a Constant Coverage waveguide which provides extraordinary broadband control, ensuring even coverage and consistent sound throughout the listening space. And Control 328 goes a step further with a 12" diameter waveguide, providing the pattern control of a 12" horn from an 8" driver. The EZ-Rail™ feature (on 12" models) provides a "helping hand" to hold one side of the loudspeaker in place while fastening it to a pre-installed back box. A multi-pin locking connector allows for easy pre-wiring and quick clip-in during installation.

ACCESSORIES: Premium accessories include best-in-class back boxes made of heavy 16 gauge metal and lined with 1/2" MDF, as well as contemporary grilles and an optional higher power transformer. Accessories include:

	MTC- 300BB8	MTC-300BB12	MTC-RG6/8	MTC-300SG12	MTC-TB6/8	MTC-300T150
DESCRIPTION	Premium 1 cu ft (28 cu l) Cylindrical Backbox	Premium 3 cu ft (28 cu l) Rectangular Backbox	Round Grille for 6 in (152 mm) and 8 in (200 mm) systems	Square Grille for 12 in (300 mm) systems	Tile bridge for 6 in (152 mm) and 8 in (200 mm) system	150 W Accessory Transformer
FITS:	Control 328C/CT	Control 321C/CT, 322C/CT and 312CS	Control 227C/CT and 328C/CT	Control 321C/CT, 322C/CT and 312CS	Control 27C/CT and 328C/CT	
DIMENSIONS:	15 dia x 10.6 in deep (380 x 270 mm)	23.1 x 18.2 x 12.6 in (587 x 461 x 324 mm)	13.6 in dia x 0.64 in deep (345 x 16.3 mm)	16.3 x 16.3 x 0.4 in deep (415 x 415 x 10 mm)	25.4 x 16.25 in (646 x 413 mm)	3.4 x 3.4 x 3.1 in (86 x 86 x 78 mm)

specifications

	Control 328C/CT	Control 321C/CT	Control 322 C/CT	Control 312CS
SYSTEM TYPE	8" Coaxial Ceiling Loudspeaker with HF Compression Driver	12" Coaxial Ceiling Loudspeaker with HF Compression Driver	High-output 12" Coaxial Ceiling Loudspeaker	12" In-Ceiling Subwoofer Loudspeaker
FREQUENCY RANGE (-10 dB)[1]	45 Hz – 18 kHz	34 Hz – 18 kHz	32 Hz – 20 kHz	30 Hz – 4.5 kHz
POWER CAPACITY: PROGRAM [2]	500 W	500 W	800 W	800 W
PINK [3]	250 W	250 W	400 W	400 W
NOMINAL COVERAGE	120° conical	90° conical	90° conical	
SENSITIVITY: 1W, 1m	93 dB	94 dB	95 dB	93 dB
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms	8 ohms
TRANSFORMER TAPS: 100V	60, 30 15 W	60, 30 15 W	100, 50, 25 W	n/a
70V	60, 30, 15, 7.5 W	60, 30, 15, 7.5 W	100, 50, 25, 12.5 W	n/a
COMPONENTS: LF	8 in (200 mm)	12 in (300 mm)	12 in (300 mm)	12 in (300 mm)
HF	1" diaphragm compression driver	1" diaphragm compression driver	1.5" diaphragm compression driver	
TERMINATION	Screw-down removable locking connector	Screw-down removable locking connector	Screw-down removable locking connector	Screw-down removable locking connector
DIMENSIONS (W)	12 in (305 mm) diameter round baffle	14.4 x 14.4 in (366 x 366 mm) square baffle	14.4 x 14.4 in (366 x 366) square baffle	14.4 x 14.4 in (366 x 366 mm) square baffle
(D)	6.3 in (160 mm) for C328C	8.8 in (223 mm) for C321C	8.8 in (223 mm) for C322C	5.8 in (147 mm)
	8.6 in (218 mm) for C328CT	9.5 in (240 mm) for C321CT	9.5 in (240 mm) for C322CT	
NET WEIGHT (each)	4.5 kg (10 lb) for C328C	7.3 kg (16 lb) for C321C	9.1 kg (20 lb) for C322C	
	5.4 kg (12 lb) for C328CT	8.2 kg (18 lb) for C321CT	10.0 kg (22 lb) for C322CT	

[1] *IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB*

[2] *Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor).*

[3] *Continuous Pink Noise for 2 hours.*

Application Engineered™ Series

AE Series loudspeakers are ideal for a wide variety of fixed installation applications including performing arts facilities, theatrical sound design, auditoriums, houses of worship, live music clubs, dance-clubs/discotheques, sports facilities and themed entertainment venues. The special mid-high frequency models can be used without LF reinforcement in voice-only PA and delay-fill applications. The smaller models are ideal in lecture halls and corporate learning centers as well as in delay-fill locations of larger systems.

Scaled System Design Approach

AE Series models provide a wide variety of building blocks for your system design, stair-stepped to give you just the right solution for your installation.

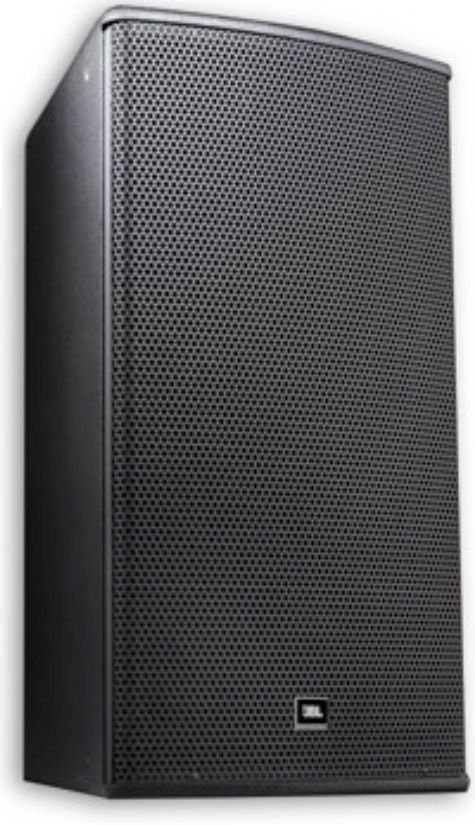
6000-Series models are the highest power speakers in the AE Series. **4000-Series** models are medium power and **2000-Series** are at lower power points for applications not requiring high power capability.

Waveguide Scaling

Sometimes you need maximum pattern control. Other times the speaker needs to be as compact as possible. [AM] models are performance-maximized for the greatest pattern control. [AC] models are compact speakers that fit in areas where a smaller frontal profile is required.

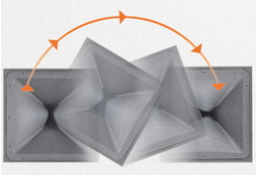
Selectable Crossover Mode

Many AE Series speakers offer selectable crossover modes: tri-amp/bi-amp or bi-amp/passive switchable.



Sophisticated Crossover Networks

AE Series models incorporate sophisticated crossover designs for outstanding sound quality and consistent coverage. To minimize overlap between adjacent frequency bands, steep slopes are utilized in passive crossovers — most are 4th order (24 dB/octave). This reduces off-axis lobing, providing consistent coverage throughout the crossover region. Conjugate networks are added in some models to fine tune the frequency response for optimum sound quality.



Rotatable Waveguides

The space often dictates how a speaker needs to be oriented. All [AM] two-way and three-way models include a rotatable waveguide, allowing the speaker to be installed in either vertical or horizontal orientation.

Versatile Model Options

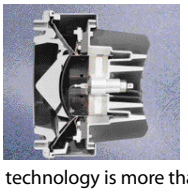
All AE Series speakers are available in several versions for matching décor or for outdoor use. Any model can be finished in white (-WH) or left unfinished and ready to paint (-UF). Additionally, two degrees of weather resistance are available. For many environments the basic weather resistance option (-WRC) is suitable. An extra thick DuraFlex™ coating, multilayer grille and component treatments provide excellent environmental protection. For extreme environments, with high humidity and/or rapid temperature cycling, a maximum weather treatment (-WRX) adds a full fiberglass covering of the cabinet.

Legendary JBL Transducers

AE Series incorporates the legendary reliability of JBL's VGC™ Vented Gap Cooled drivers, augmented by today's new generation of JBL compression drivers and neodymium Differential Drive® cone transducers. Where reliability is important, JBL transducers are known as the best, most reliable drivers in the business.

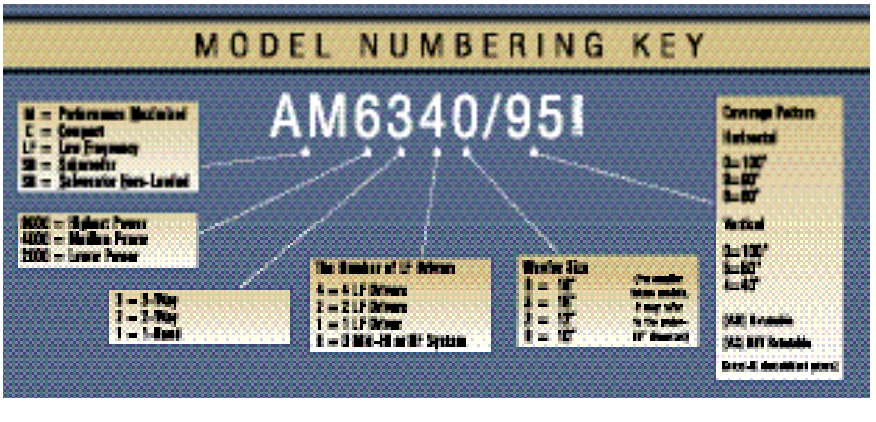
PT™ Progressive Transition Waveguides

JBL's new patent pending Progressive Transition Waveguides represent the latest in horn technology. In addition to providing smooth, low distortion sound, PT Waveguides deliver uniform off-axis frequency response to every point within the intended coverage area — not just in the horizontal and vertical planes — resulting in superior array-ability of multiple loudspeaker systems. PT Waveguides combine outstanding pattern control with undistorted sound for natural music and intelligible speech.



CMCD® Cone Midrange Compression Drivers

Incorporated into all cone midrange models — patented CMCD technology is more than a simple displacement plug. In addition to providing increased output and lower distortion, this cone-based true compression driver design extends operational bandwidth (both up and down in frequency) to cover the entire vocal range seamlessly, allows for better waveguide pattern control, and improves phase coherency of the midrange signal for clearer, more intelligible audio quality.



- VERSATILE SCALED SYSTEM APPROACH
- VGC™ DRIVERS AND DIFFERENTIAL DRIVE® CONE TRANSDUCERS
- PT™ PROGRESSIVE TRANSITION WAVEGUIDES FOR EXCELLENT PATTERN CONTROL

AM6340/xx

AM6315/xx

AM6200/xx

AM4315/xx

AM4200/xx

AM | maximized 3-Way

	AM6340/95 & /64	AM6315/95 & /64	AM6200/95 & /64	AM4315/95 & /64	AM4200/95 & /64
SYSTEM TYPE	High-power Three-way	High-power Three-way	High-power Mid-high	Medium-Power Three-way	Medium-Power Mid-high
FREQUENCY RANGE	50 Hz - 19 kHz (-10 dB)	38 Hz - 19 kHz (-10 dB)	200 Hz - 19 kHz (-10 dB)	40 Hz - 23 kHz (-10 dB)	350 Hz - 23 kHz (-10 dB)
FREQUENCY RESPONSE	55 Hz - 17 kHz (± 3 dB)	45 Hz - 17 kHz (± 3 dB)	250 Hz - 17 kHz (± 3 dB)	50 Hz - 20 kHz (± 3 dB)	400 Hz - 20 kHz (± 3 dB)
NOMINAL COVERAGE	AM6340/95: 90° x 50° AM6340/64: 60° x 40°	AM6315/95: 90° x 50° AM6315/64: 60° x 40°	AM6200/95: 90° x 50° AM6200/64: 60° x 40°	AM4315/95: 90° x 50° AM4315/64: 60° x 40°	AM4200/95: 90° x 50° AM4200/64: 60° x 40°
TRANSDUCER POWER RATING(AES) LF	1200 W (4800 W peak)	1000 W (4000 W peak)		500 W (2000 W peak)	
MF	350 W (1400 W peak)	350 W (1400 W peak)	350 W (1400 W peak)		125 W (500 W peak)
HF	75 W (300 W peak)	75 W (300 W peak)	75 W (300 W peak)	MF/HF: 125 W (500 W peak)	35 W (120 W peak)
LONG-TERM POWER RATING(IEC): LF	1000 W (4000 W peak)	600 W (2400 W peak)		350 W (1400 W peak)	
MF/HF	350 W (1400 W peak)	350 W (1400 W peak)	350 W (1400 W peak)	(Passive mode)	125 W (500 W peak)
MAXIMUM SPL [1]: LF	130 dB	125 dB		124 dB	
MF	133 dB	133 dB	133 dB		127 dB
HF	134 dB	134 dB	134 dB		129 dB
BI-AMP MODE: MF/HF	133 dB	133 dB	133 dB	127 dB	127 dB
SELECTABLE CROSSOVER MODES	Bi-amp, Tri-amp	Bi-amp, Tri-amp	Bi-amp, Passive	Bi-amp, Passive	Bi-amp, Passive
SUSPENSION	13 points	13 points	13 points	13 points	13 points
DIMENSIONS (H x W x D)	1094 x 561 x 657 mm 43.1 x 22.1 x 25.9 in	967 x 561 x 657 mm 38.1 x 22.1 x 25.9 in	548 x 561 x 657 mm 21.6 x 22.1 x 25.9 in	967 x 561 x 657 mm 38.1 x 22.1 x 25.9 in	548 x 561 x 657 mm 21.6 x 22.1 x 25.9 in
NET WEIGHT (each)	56.7 kg (125 lb)	48.3 kg (107 lb)	29.0 kg (64 lb)	46.7 kg (103 lb)	28.1 kg (62 lb)

AM6215/xx

AM6212/xx

AM4215/xx

AM4212/xx

AM | maximized 2-Way

	AM6215/95 & /64	AM6212/95, /64 & /00	AM4215/95 & /64	AM4212/95, /64 & /00
SYSTEM TYPE	High-power Two-way	High-power Two-way	Medium-power Two-way	Medium-power Two-way
FREQUENCY RANGE	35 Hz - 19 kHz (-10 dB)	40 Hz - 19 kHz (-10 dB)	40 Hz - 20 kHz (-10 dB)	55 Hz - 20 kHz (-10 dB)
FREQUENCY RESPONSE	45 Hz - 17 kHz (± 3 dB)	60 Hz - 17 kHz (± 3 dB)	45 Hz - 18 kHz (± 3 dB)	70 Hz - 18 kHz (± 3 dB)
NOMINAL COVERAGE	AM6215/95: 90° x 50° AM6215/64: 60° x 40°	AM6212/95: 90° x 50° AM6212/64: 60° x 40° AM6212/00: 100° x 100°	AM4215/95: 90° x 50° AM4215/64: 60° x 40°	AM4212/95: 90° x 50° AM4212/64: 60° x 40° AM4212/00: 100° x 100°
TRANSDUCER POWER RATING(AES): LF	1000 W (4000 W peak)	800 W (3200 W peak)	500 W (2000 W peak)	400 W (2000 W peak)
HF	75 W (300 W peak)	75 W (300 W peak)	35 W (140 W peak)	35 W (140 W peak)
LONG-TERM POWER RATING(IEC) PASSIVE MODE	600 W (2400 W peak)	600 W (2400 W peak)	350 W (2400 W peak)	350 W (2400 W peak)
MAXIMUM SPL [1]: LF/HF	LF: 127 dB; HF: 133 dB	LF: 124 dB; HF: 139 dB	LF: 124 dB; HF: 128 dB	LF: 120 dB; HF: 125 dB
PASSIVE MODE	127 dB	124 dB	124 dB	120 dB
SELECTABLE CROSSOVER MODES	Bi-amp, Passive	Bi-amp, Passive	Bi-amp, Passive	Bi-amp, Passive
SUSPENSION	15 points	15 points	15 points	15 points
DIMENSIONS (H x W x D)	783 x 422 x 504 mm 30.8 x 16.6 x 19.9 in	713 x 371 x 460 mm 28.1 x 14.6 x 18.1 in	783 x 422 x 504 mm 30.8 x 16.6 x 19.9 in	713 x 371 x 460 mm 28.1 x 14.6 x 18.1 in
NET WEIGHT (each)	29.9 kg (66 lb)	26.3 kg (58 lb)	29.0 kg (64 lb)	25.4 kg (56 lb)

specifications


AC2215/xx


AC2212/xx

APPLICATION ENGINEERED


AL6125


AL6115

AC | Compact 2-Way

	AC2215/95, /64 & /00	AC2212/95, /64 & /00
SYSTEM TYPE	Lower-power Two-way	Lower-power Two-way
FREQUENCY RANGE	42 Hz - 19 kHz (-10 dB)	50 Hz - 19 kHz (-10 dB)
FREQUENCY RESPONSE	50 Hz - 17 kHz (± 3 dB)	55 Hz - 17 kHz (± 3 dB)
NOMINAL COVERAGE	AC2215/95: 90° x 50° AC2215/64: 60° x 40° AC2215/00: 100° x 100°	AC2212/95: 90° x 50° AC2212/64: 60° x 40° AC2212/00: 100° x 100°
TRANSDUCER LF POWER RATING(AES): HF	275 W (1100 W peak) 30 W (120 W peak)	300 W (1100 W peak) 30 W (120 W peak)
LONG-TERM POWER RATING (IEC)	250 W (1000 W peak)	250 W (1000 W peak)
MAXIMUM SPL [1]: LF HF PASSIVE MODE	121 dB 127 dB 121 dB	120 dB 129 dB 120 dB
SELECTABLE CROSSOVER MODES	Bi-amp, Passive	Bi-amp, Passive
SUSPENSION	15 points	15 points
DIMENSIONS (H x W x D)	637 x 422 x 504 mm 25.1 x 16.6 x 19.9 in	548 x 355 x 352 mm 21.6 x 14.0 x 13.9 in
NET WEIGHT (each)	23.6 kg (52 lb)	18.1 kg (40 lb)

AL | Low Frequency

	AL6115	AL6125
SYSTEM TYPE	High-power Low Freq.	High-power Low Freq.
FREQUENCY RANGE	40 Hz - 2.5 kHz (-10 dB)	40 Hz - 2.5 kHz (-10 dB)
FREQUENCY RESPONSE	47 Hz - 2.1 kHz (± 3 dB)	42 Hz - 2.1 kHz (± 3 dB)
TRANSDUCER POWER RATING(AES)	1000 W (4000 W peak) (2 hrs)	2000 W (8000 W peak) (2 hrs)
LONG-TERM SYSTEM POWER RATING	600 W (2400 W peak) 100 hrs	1200 W (2400 W peak) 100 hrs
MAXIMUM SPL[1]	50 Hz –125 Hz: 129 dB 125 Hz - 800 Hz: 127 dB	50 Hz –125 Hz: 130 dB 125 Hz - 800 Hz: 129 dB
SELECTABLE CROSSOVER MODES	Discrete	Parallel, Discrete
ENCLOSURE	Trapezoidal, 15° side angles	Rectangular
SUSPENSION	13 points	12 points
DIMENSIONS (H x W x D)	548 x 561 x 657 mm 21.6 x 22 1 x 25.9 in	967 x 422 x 504 mm 38.1 x 16.6 x 19.9 in
NET WEIGHT (each)	29.0 kg (64 lb)	44.5 kg (98 lb)

[1] Maximum long-term average SPL. Peak SPL is 6 dB higher. Figure is for highest Q version.


ASB6128

ASB4128

ASB6128V

ASH6118

ASB6118

ASB | Subwoofers

ASH | Horn Loaded Subwoofer

	ASB6118	ASB6128	ASB4128	ASB6128V	ASH6118
SYSTEM TYPE	High-power Subwoofer	High-power Subwoofer	Medium-power Subwoofer	Extended Response Sub	Horn-loaded Subwoofer*
FREQUENCY RANGE	28 Hz - 1 kHz (-10 dB)	30 Hz - 1 kHz (-10 dB)	30 Hz - 1 kHz (-10 dB)	21 Hz - 300 Hz (-10 dB)	25 Hz - 250 Hz (-10 dB)*
FREQUENCY RESPONSE	35 Hz - 1 kHz (± 3 dB)	38 Hz - 1 kHz (± 3 dB)	40 Hz - 1 kHz (± 3 dB)	25 Hz - 300 Hz (± 3 dB)	30 Hz - 200 Hz (± 3 dB)
TRANSDUCER POWER RATING(AES)	1200 W (4800 W peak) (2 hrs)	2400 W (9600 W peak) (2 hrs)	1000 W (4000 W peak) (2 hrs)	2400 W (9600 W peak) (2 hrs)	1200 W (4800 W peak) (2 hrs)
LONG-TERM SYSTEM POWER RATING	800 W (3200 W peak) 100 hrs	1600 W (6400 W peak) 100 hrs	600 W (2400 W peak) 100 hrs	1600 W (6400 W peak) 100 hrs	800 W (3200 W peak) 100 hrs
MAXIMUM SPL [1]	30 Hz –100 Hz: 129 dB 100 Hz - 500 Hz: 129 dB	30 Hz –100 Hz: 136 dB 100 Hz - 500 Hz: 136 dB	30 Hz –100 Hz: 133 dB 100 Hz - 500 Hz: 133 dB	30 Hz –100 Hz: 134 dB 100 Hz - 500 Hz: 135 dB	30 Hz –140 Hz: 133 dB
SELECTABLE CROSSOVER MODES	Discrete	Parallel, Discrete	Parallel, Discrete	Parallel, Discrete	Discrete
ENCLOSURE	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular
SUSPENSION	14 points	12 points	14 points	13 points	None
DIMENSIONS (H x W x D)	548 x 561 x 816 mm 21.6 x 22.1 x 32.2 in	1094 x 561 x 816 mm 43.1 x 22.1 x 32.2 in	1094 x 561 x 816 mm 43.1 x 22.1 x 32.2 in	967 x 561 x 1215 mm 38.1 x 22.1 x 47.85 in	564 x 1530 x 1288 mm 22.3 x 56.4 x 50.7 in
NET WEIGHT (each)	44.5 kg (98 lb)	73.0 kg (161 lb)	64.9 kg (143 lb)	89.8 kg (198 lb)	159.3 kg (351 lb)

** Designed to be used in multiples (2 minimum, 4 optimum) with proximity placement or with proper boundary surface loading. Specifications shown are for one cabinet.*

Marquis Series

key features

- HIGH PERFORMANCE VS. COST
- PRE-FITTED WITH M10 THREADED INSERTS
- VERTICAL OR HORIZONTAL ORIENTATION
- EQUIPPED WITH "YOKE MOUNT" BRACKETS

The Marquis Series is designed for use in fixed installation applications. This series has been value engineered to provide systems with the highest performance vs. cost available. The full range enclosures are pre-fitted with M10 threaded inserts and are supplied with an eyebolt kit. The MS26 and MS28 are equipped with "yoke mount" brackets and hardware . The cabinets suspend easily—both horizontally and vertically—offering a greater degree of versatility.

MS26

The MS26 is a full-range, low profile system with 100° x 70° dispersion. This system features two 6" LF transducers and a 1" exit titanium composite tweeter integrated to a newly designed elliptical waveguide. The MS26 is ideal for close ceiling mounting or under-balcony applications.

MS28

The MS28 is a full-range, low profile system with 85° x 85° dispersion. This system features two 8" LF transducers and a 1" compression driver on an Optimized Aperture Symmetrical Radiator. The MS28 is ideal for similar applications where higher power is needed.

specifications

	MS26	MS28
SYSTEM TYPE	Two-way Full-range	Two-way Full-range
FREQ. RANGE (-10 dB)	45 Hz - 20 kHz	40 Hz - 20 kHz
FREQ. RESPONSE (-3 dB)	65 Hz - 19 kHz	60 Hz - 19 kHz
NOMINAL COVERAGE	100° x 70°	85° x 85°
POWER CAPACITY[1]	150 W	200 W
SENSITIVITY: 1 W, 1 m	91 dB	93 dB
NOMINAL IMPEDANCE	16 ohms	16 ohms
COMPONENTS: LF HF	2 x 152 mm (6 in) 25 mm (1 in)	2 x 203 mm (8 in) 25 mm (1 in)
ENCLOSURE	Low profile	Low profile
FINISH	Black DuraFlex™	Black DuraFlex
INPUT CONNECTORS	2 x NL4 Neutrik® Speakon®	2 x NL4 Neutrik Speakon
DIMENSIONS (H x W x D)	599 x 217 x 241 mm 23.6 x 8.55 x 9.5 in	676 x 291 x 321 mm 26.6 x 11.45 x 12.65 in
NET WEIGHT (each)	8.2 kg (18 lb)	12.7 kg (28 lb)

[1] *IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB*

Shrine Church of St. Stanislaus, Cleveland, Ohio

Precision Directivity® PD5000 Series

The PD5000 Series joins JBL's broad lineup of installed sound loudspeakers, complementing the larger PD700 mid-high cabinets with a more compact size and supplementing the smaller AE Series cabinets with higher SPL capability and larger horns for pattern control to a lower frequency. The PD5000 Series loudspeakers deliver high power and constant coverage in a low profile form.

Featured across the PD5000 Series, are 24 by 24 inch PT™ Progressive Transition mid-frequency rotatable waveguides that provide versatility, excellent pattern control with low distortion and extremely natural sound character. This is an evolution of the waveguide technology of the successful JBL Professional Application Engineered™ (AE) install series. Also incorporating sophisticated, steep-slope passive crossover networks minimize band overlap, further enhancing off-axis pattern control. User accessible internal switches allow for a fully active crossover.

PD5200/43 (40° x 30°)
PD5200/64 (60° x 40°)
PD5200/95 (90° x 50°)

The PD5200 Series Precision Directivity mid-high frequency loudspeakers are designed for applications requiring high output capability with excellent pattern control.

The CMCD-82H cone midrange compression driver consists of a driver/phasing plug assembly providing high output with low distortion. CMCD-82H's extended response allows for smoother transition to the high frequency driver and the smaller entrance diameter into the wave-guide provides for better pattern control. The internal 200 mm (8 inch) CMCD-82H features a high power neodymium Differential Drive® dual voice coil design. The 2431H large format high frequency compression driver utilizes a neodymium magnet and aluminum diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.

PD5212/43 (40° x 30°)
PD5212/64 (60° x 40°)
PD5212/95 (90° x 50°)

The PD5212 Series Precision Directivity full range two-way loudspeakers are designed for applications requiring high output capability with excellent pattern control. The speakers can be utilized alone in music or speech systems where frequency extension to 80 Hz is adequate or combined with subwoofers to create extended bandwidth full range systems.

The M222-8A 300 mm (12 in) low frequency transducer features high sensitivity and low power compression for high continuous SPL capability. It is horn-loaded for additional sensitivity and improved pattern control. A newly designed low frequency phasing plug extends frequency response, providing smoother transition to the high frequency driver. The 2451H-1 large format high frequency compression driver utilizes a neodymium magnet and pure titanium diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.

PD5322/43 (40° x 30°)
PD5322/64 (60° x 40°)
PD5322/95 (90° x 50°)

The PD5322 Precision Directivity full range, three way loudspeakers are designed for applications requiring high output sensitivity with excellent pattern control. They can be utilized standalone in demanding music or speech systems where low frequency extension to 40 Hz is required.

The low frequency section features two 2206H 300 mm (12 in) VGC™ Vented Gap Cooled low frequency transducers featuring high sensitivity and low power compression for high continuous SPL capability. A newly designed loading plate covering the slot loaded low frequency tranducers provides the highest possible sensitivity, low frequency output and system reliability.

The mid and high frequency sections are hornloaded for additional low-mid and midrange sensitivity and improved pattern control. The CMCD-82H cone midrange compression driver consists of a driver/phasing plug assembly providing high output with low distortion. The integral 200 mm (8 in) cone driver features a high power neodymium Differential Drive® dual, voice coil design. The 2431H large format high frequency compression driver utilizes a neodymium magnet and aluminum diaphragm to deliver clear and intelligible high frequency projection, extended frequency response, and low distortion at even the highest drive levels.

PD5122

The PD5122 is intended for use as a flown or ground supported, high power low frequency module used in conjunction with mid/high-only or full range systems of the PD5000 series to construct arrays with extended low frequency pattern control.

Low frequency transducers are the 2206H 300 mm (12 in) VGC™ Vented Gap Cooled drivers. They deliver excellent low frequency extension with minimal power compression and low distortion plus high sensitivity and power handling.

PD5125

The PD5125 is a high power low frequency loud-speaker comprised of two 380 mm (15 in) VGC Vented Gap Cooled low frequency drivers in a front-loaded, vented configuration. Though it is intended for use as a flown or ground supported, high power low frequency module used in conjunction with mid/high or full range systems of the PD5000 and PD700 series, the PD5125 will perform well in any application where high output low bass is required.

Low frequency transducers are the 2226H 380 mm (15 in) VGC Vented Gap Cooled drivers. They deliver excellent low frequency extension with minimal power compression and low distortion plus high sensitivity and power handling. Large vent area assures minimal port compression and low distortion at high output levels.

PD5000 Series loudspeaker inputs include both Speakon® and CE-compliant covered barrier strips. The cabinets are fitted with twenty M10 threaded suspension points, supporting a wide variety of installation approaches. All cabinets are constructed with 11 ply birch and finished with black DuraFlex™.

PD5000 SERIES

key features

- CLEAR, INTELLIGIBLE HIGH FREQUENCY PROJECTION
- LARGE PT™ PROGRESSIVE TRANSITION WAVEGUIDES FOR PATTERN CONTROL, LOW DISTORTION AND SMOOTH RESPONSE
- ROTATABLE WAVEGUIDES FOR HORIZONTAL OR VERTICAL CABINET ORIENTATION
- INTEGRAL, SOPHISTICATED STEEP-SLOPE PASSIVE CROSSOVER NETWORKS WITH BIAMP/ PASSIVE SWITCHABLE CROSSOVER MODES
- TWO FULLY-COMPATIBLE LOW FREQUENCY LOUDSPEAKERS FOR INSTALLATION VERSATILITY

PD5200/43, PD5200/64 (shown)
PD5200/95

PD5212/43 (shown), PD5212/64
PD5212/95

PD5322/43, PD5322/64
PD5322/95 (shown)

specifications

	PD5200/43	PD5200/64	PD5200/95	PD5212/43	PD5212/64	PD5212/95
SYSTEM TYPE	Mid-High Frequency	Mid-High Frequency	Mid-High Frequency	Two-Way Full-Range	Two-Way Full-Range	Two-Way Full-Range
FREQUENCY RANGE [1]	200 Hz - 18 kHz (-10 dB)	200 Hz - 18 kHz (-10 dB)	200 Hz - 18 kHz (-10 dB)	80 Hz - 18 kHz (-10 dB)	80 Hz - 18 kHz (-10 dB)	80 Hz - 18 kHz (-10 dB)
FREQUENCY RESPONSE	240 Hz - 16 kHz (± 3 dB)	240 Hz - 16 kHz (± 3 dB)	240 Hz - 16 kHz (± 3 dB)	90 Hz - 16 kHz (± 3 dB)	90 Hz - 16 kHz (± 3 dB)	90 Hz - 16 kHz (± 3 dB)
SYSTEM SENSITIVITY: 1 W, 1m	111 dB SPL (Passive Mode)	110 dB SPL (Passive Mode)	109 dB SPL (Passive Mode)	109 dB SPL (Passive Mode)	107 dB SPL (Passive Mode)	106 dB SPL (Passive Mode)
NOMINAL COVERAGE	40° x 30°	60° x 40°	90° x 50°	40° x 30°	60° x 40°	90° x 50°
TRANSDUCER POWER RATING (AES) [2]	MF:350 W (1400 W pk), 100 hrs HF:75 W (300 W pk), 2 hrs	MF: 350 W (1400 W pk), 100 hrs HF:75 W (300 W pk), 2 hrs	MF:350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	LF:400 W (1600 W pk), 2 hrs LF:300 W (1200 W pk), 100 hrs HF:75 W (300 W pk), 2 hrs	LF: 400 W (1600 W pk), 2 hrs LF:300 W (1200 W pk), 100 hrs HF:75 W (300 W pk), 2 hrs	LF:400 W (1600 W pk), 2 hrs LF:300 W (1200 W pk), 100 hrs HF:75 W (300 W pk), 2 hrs
LONG-TERM [3] LF POWER RATING (IEC): MF/HF	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs	300 W (1200 W peak), 100 hrs
MAXIMUM SPL: [4] LF				137 dB SPL (143 dB peak)	135 dB SPL (143 dB peak)	134 dB SPL (140 dB peak)
Cont. Avg. MF	137 dB SPL (143 dB peak)	135 dB SPL (141 dB peak)	134 dB SPL (140 dB peak)			
HF	135 dB SPL (141 dB peak)	135 dB SPL (141 dB peak)	133 dB SPL (139 dB peak)	135 dB SPL (141 dB peak)	135 dB SPL (141 dB peak)	133 dB SPL (139 dB peak)
PASSIVE MODE: MF/HF	136 dB SPL (142 dB peak)	135 dB SPL (141 dB peak)	133 dB SPL (139 dB peak)	134 dB SPL (140 dB peak)	132 dB SPL (138 dB peak)	131 dB SPL (137 dB peak)
ENCLOSURE	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles	Trapezoidal, 12.5° side angles
DIMENSIONS (H x W x D)	991 x 673 x 897 mm 39.0 x 26.5 x 35.3 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 897 mm 39.0 x 26.5 x 35.3 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in
NET WEIGHT (each)	69.0 kg (152 lb)	58.8 kg (130 lb)	58.8 kg (130 lb)	75.5 kg (175 lb)	69.0 kg (152 lb)	69.0 kg (152 lb)

	PD5322/43	PD5322/64	PD5322/95	PD5122	PD5125
SYSTEM TYPE	Three-Way Full-Range	Three-Way Full-Range	Three-Way Full-Range	Slot-Loaded Low Frequency	Dual 15" Low Frequency
FREQUENCY RANGE [1]	41 Hz - 17 kHz (-10 dB)	41 Hz - 17 kHz (-10 dB)	41 Hz - 17 kHz (-10 dB)	41 Hz - 1 kHz (-10 dB)	37 Hz - 2.5 kHz (-10 dB)
FREQUENCY RESPONSE	49 Hz - 15 kHz (±3 dB)	49 Hz - 15 kHz (±3 dB)	49 Hz - 15 kHz (±3 dB)	49 Hz - 300 Hz (±3 dB)	42 Hz - 2.1 kHz (±3 dB)
SYSTEM SENSITIVITY: 1 W, 1m	111 dB SPL (Passive Mode)	110 dB SPL (Passive Mode)	109 dB SPL (Passive Mode)	96 dB (60 Hz - 250 Hz) [5]	103 dB (50 Hz - 125 Hz) [5]
NOMINAL COVERAGE	40° x 30°	60° x 40°	90° x 50°		
TRANSDUCER POWER RATING (AES) [2]	LF:1600 W (6400 W pk), 2 hrs LF:1200 W (4800 W pk), 100 hrs MF:350 W (1400 W pk), 100 hrs HF:75 W (300 W pk), 2 hrs	LF: 1600 W (6400 W pk), 2 hrs LF:1200 W (4800 W pk), 100 hrs MF:350 W (1400 W pk), 100 hrs HF:75 W (300 W pk), 2 hrs	LF: 1600 W (6400 W pk), 2 hrs LF:1200 W (4800 W pk), 100 hrs MF:350 W (1400 W pk), 100 hrs HF: 75 W (300 W pk), 2 hrs	1600 W (6400 W pk) 2 hrs [2]	1600 W (6400 W pk) 2 hrs [2]
LONG-TERM [3] LF POWER RATING (IEC): MF/HF	1200 W (4800 W pk) 300 W (1200 W pk), 100 hrs	1200 W (4800 W pk) 300 W (1200 W pk), 100 hrs	1200 W (4800 W pk) 300 W (1200 W pk), 100 hrs	1200 W (4800 W pk), 100 hrs [6]	1200 W (4800 W pk), 100 hrs [6]
MAXIMUM SPL: [4] LF	128 dB SPL (134 dB peak)	128 dB SPL (134 dB peak)	128 dB SPL (134 dB peak)	128 dB SPL (134 dB pk) [4]	136 dB SPL (142 pk) (50 Hz - 125 Hz) [4]
Cont. Avg. MF	137 dB SPL (143 dB peak)	135 dB SPL (141 dB peak)	134 dB SPL (140 dB peak)		
HF	135 dB SPL 141 dB peak)	135 dB SPL (141 dB peak)	133 dB SPL 139 dB peak)		
PASSIVE MODE: MF/HF	136 dB SPL (142 dB peak)	135 dB SPL (141 dB peak)	134 dB SPL (140 dB peak)		
ENCLOSURE	Trapezoidal, 15° side angles	Trapezoidal, 15° side angles	Trapezoidal, 15° side angles	Trapezoidal, 15° side angles	Trapezoidal, 10° side angles
DIMENSIONS (H x W x D)	991 x 673 x 897 mm 39.0 x 26.5 x 35.3 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	991 x 673 x 706 mm 39.0 x 26.5 x 27.8 in	357 x 673 x 706 mm 14.1 x 26.5 x 27.8 in	991 x 476 x 691 mm 39 x 18.75 x 27.2 in
NET WEIGHT (each)	87.3 kg (192 lb)	77 kg (170 lb)	77 kg (170 lb)	36.4 kg (80 lb)	53.4 kg (118 lb)

[1] In bi-amp mode, with recommended active tuning.

[2] AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.

[3] IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours, passive mode.

[4] Calculated based on power rating and sensitivity, exclusive of power compression.

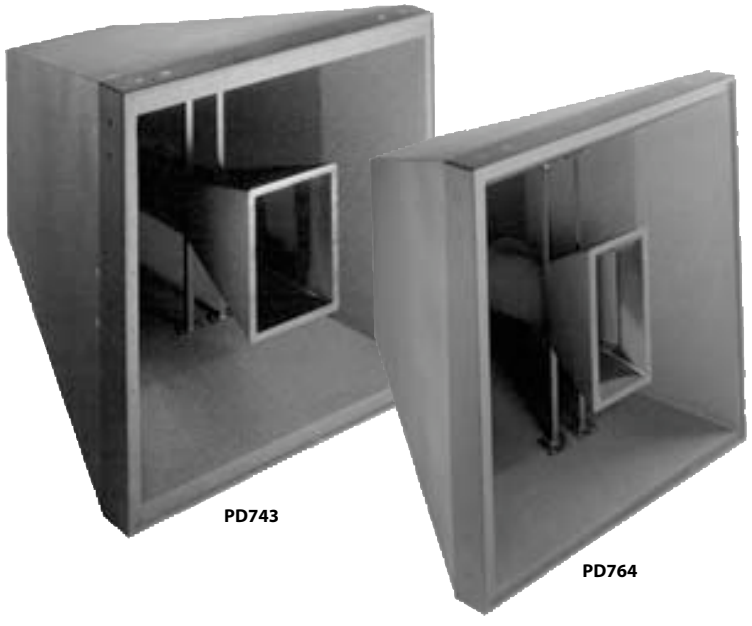
[5] Anechoic sensitivity in free field, no additional sensitivity gains from boundary loading.

[6] AES standard, one decade pink noise with 6 dB crest factor, in cabinet, long-term 100 hr rating.

Precision Directivity® PD700

key features

- FSA™ FORWARD STEERED ARRAY ENCLOSURE CONFIGURATIONS
- AVAILABLE SUSPENSION TRUSS COMPONENTS FOR EASY AND COST EFFECTIVE ARRAY BUILDING



PD743

PD764

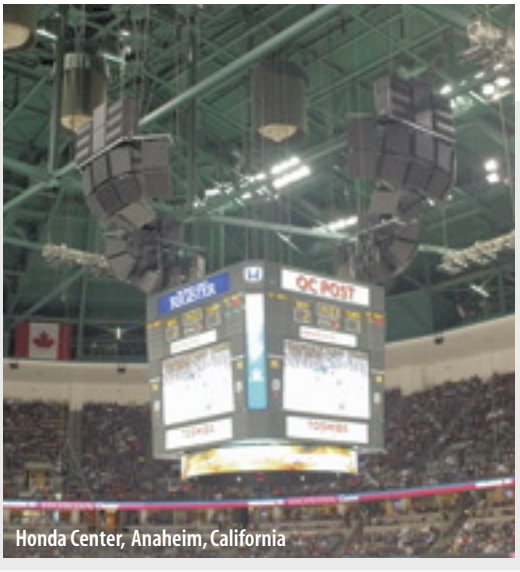
One of the challenges in large arenas, stadiums, houses of worship and performance spaces is to provide quality sound to every seat with the volume and clarity demanded by today's concert, sporting and special events. JBL Professional's Precision Directivity® (PD) line of speakers uses a full range, full bandwidth total system approach that allows contractors and consultants to design a fully integrated sound system solving the audio challenges inherent to these types of large installations.

PD743 (40° x 30°) AND PD764 (60° x 40°)

The PD743 and PD764 mid-high loudspeaker systems provide high-impact sound reinforcement at throw distances that are beyond the reach of traditional single-driver designs. A single module produces greater than 104 dB SPL (continuous) at distances of 65 m (215 ft) with a 40° by 30° coverage pattern (PD743) or a 60° by 40° coverage pattern (PD764). These systems may be used in arrays with other PD Series modules or singly as part of a distributed system.

specifications

	PD743	PD764
SYSTEM TYPE	Mid High Loudspeaker System	Mid High Loudspeaker System
FREQUENCY RANGE	150 Hz - 17 kHz (-10 dB)	150 Hz - 17 kHz (-10 dB)
FREQUENCY RESPONSE	200 Hz - 15 kHz (± 3 dB)	200 Hz - 15 kHz (± 3 dB)
NOMINAL COVERAGE	40° x 30° (H x V)	60° x 40° (H x V)
SENSITIVITY (1 W, 1 m)	MF:111 dB, HF: 118 dB	MF:109 dB, HF: 116 dB
NOMINAL IMPEDANCE	MF:8 ohms, HF: 16 ohms	MF:8 ohms, HF: 16 ohms
INPUT POWER RATING	MF:700 W, AES; 2800 W peak HF:150 W, AES; 600 W peak	MF:700 W, AES; 2800 W peak HF:150 W, AES; 600 W peak
TRANSDUCERS	2 x 2250J (203 mm/8 in) 2 x 2430H (75 mm/3 in)	2 x 2250J (203 mm/8 in) 2 x 2430H (75 mm/3 in)
ENCLOSURE	Dual Trapezoidal 25° V, 35° H	Dual Trapezoidal 35° V, 55° H
FINISH	Black DuraFlex™	Black DuraFlex
INPUT CONNECTORS	1 x NL4 Neutrik® Speakon®	1 x NL4 Neutrik Speakon
DIMENSIONS (H x W x D)	991 x 991 x 1146 mm 39 x 39 x 45.1 in	991 x 991 x 883 mm 39 x 39 x 34.75 in
NET WEIGHT (each)	111.4 kg (245 lb)	97.7 kg (215 lb)



Honda Center, Anaheim, California

VLA Series

Variable Line Array Loudspeakers

key features

- HORN-LOADED LINE ARRAY
- STANDARD & HIGH-OUTPUT VERSIONS AVAILABLE
- COMBINES PD700 & VT TECHNOLOGIES

VLA SERIES
variable line array

Variable Line Array Series (VLA Series) is a revolutionary product providing high-impact sound reinforcement at throw distances beyond the reach of traditional loudspeaker designs. The modular design concept provides the system designer the ability to build large line array systems for larger venue applications or to design smaller line array systems for use as distributed clusters in arenas, domed stadiums and larger performance spaces, including large houses of worship.

VLA is designed specifically for permanent installation applications where even coverage, intelligibility, and levels capable of overcoming crowd noise are required.

VLA modules are based on the same advanced engineering used in the highly successful VERTEC® Series line array systems. VLA provides six large format horn-loaded modules with three horizontal horn coverage patterns (30°, 60°, & 90°). This modular concept provides the designer the additional flexibility to vary the horizontal pattern within a vertical array by incorporating different modules with wider or narrower coverage patterns while still maintaining the vertical directivity.

	VLA301	VLA301H	VLA601	VLA601H	VLA901	VLA901H
SYSTEM TYPE	Three-way Full Range Loudspeaker	High Output Three-Way Full Range Loudspeaker	Three-way Full Range Loudspeaker	High Output Three-Way Full Range Loudspeaker	Three-way Full Range Loudspeaker	High Output Three-Way Full Range Loudspeaker
FREQUENCY RESPONSE[1]	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)	58 Hz - 12 kHz (± 3 dB)
HORIZONTAL COVERAGE	30°	30°	60°	60°	90°	90°
SENSITIVITY[4]: 1 W, 1 m LF/MF/HF	100/111/120 dB SPL	100/111/119 dB SPL	100/109/117 dB SPL	100/110/117 dB SPL	99/106/115 dB SPL	99/108/115 dB SPL
NOMINAL IMPEDANCE LF/MF/HF	4 ohms/4 ohms/ 16 ohms	4 ohms/8 ohms/ 4 ohms	4 ohms/4 ohms/ 16 ohms	4 ohms/8 ohms/ 4 ohms	4 ohms/4 ohms/ 16 ohms	4 ohms/8 ohms/ 4 ohms
SYSTEM POWER RATING[2]: LF	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.	1600 W (6400 W peak), 2 hrs. 1200 W (4800 W peak), 100 hrs.
MF	700 W (2800 W peak), 100 hrs.	1400 W (5600 W peak), 100 hrs.	700 W (2800 W peak), 100 hrs.	1400 W (5600 W peak), 100 hrs.	700 W (2800 W peak), 100 hrs.	1400 W (5600 W peak), 100 hrs.
HF	225 W (900 W peak), 2 hrs.	450 W (1800 W peak), 2 hrs.	225 W (900 W peak), 2 hrs.	450 W (1800 W peak), 2 hrs.	225 W (900 W peak), 2 hrs.	450 W (1800 W peak), 2 hrs.
MAXIMUM SPL[3]: LF	132 dB SPL continuous average	132 dB SPL continuous average	132 dB SPL continuous average	132 dB SPL continuous average	131 dB SPL continuous average	131 dB SPL continuous average
MF	139 dB SPL continuous average	142 dB SPL continuous average	137 dB SPL continuous average	141 dB SPL continuous average	134 dB SPL continuous average	139 dB SPL continuous average
HF	142 dB SPL continuous average	146 dB SPL continuous average	141 dB SPL continuous average	144 dB SPL continuous average	139 dB SPL continuous average	142 dB SPL continuous average
TRANSDUCERS: LF	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)	2 x 2226H (380 mm/ 15 in)
MF	2 x CMCD82H (200 mm/8 in cone)	4 x CMCD82H (200 mm/8 in cone)	2 x CMCD82H (200 mm/8 in cone)	4 x CMCD82H (200 mm/8 in cone)	2 x CMCD82H (200 mm/8 in cone)	4 x CMCD82H (200 mm/8 in cone)
HF	3 x 2431H (38 mm/ 1½ in)	6 x 2431H (38 mm/ 1½ in)	3 x 2431H (38 mm/ 1½ in)	6 x 2431H (38 mm/ 1½ in)	3 x 2431H (38 mm/ 1½ in)	6 x 2431H (38 mm/ 1½ in)
ENCLOSURE	12-ply birch plywood	12-ply birch plywood	12-ply birch plywood	12-ply birch plywood	12-ply birch plywood	12-ply birch plywood
FINISH	DuraFlex™	DuraFlex™	DuraFlex™	DuraFlex™	DuraFlex™	DuraFlex™
INPUT CONNECTORS	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip	Neutrik Speakon® NL8 Plus covered barrier strip
DIMENSIONS (H x W x D)	533 x 1351 x 1384 mm 21.0 x 53.2 x 54.5 in	533 x 1351 x 1384 mm 21.0 x 53.2 x 54.5 in	533 x 1351 x 772 mm 21.0 x 53.2 x 30.4 in	533 x 1351 x 772 mm 21.0 x 53.2 x 30.4 in	533 x 1351 x 640 mm 21.0 x 53.2 x 25.2 in	533 x 1351 x 640 mm 21.0 x 53.2 x 25.2 in
NET WEIGHT (each)	140 kg (309 lb)	155 kg (342 lb)	102 kg (225 lb)	116 kg (256 lb)	96 kg (211 lb)	109 kg (241 lb)

[1] With recommended active tuning. (Digital signal processing is required in order to achieve specified performance.)

[2] AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES ratings are specified for low-frequency transducers.

[3] Calculated based on power rating and sensitivity.

[4] Anechoic sensitivity in free field, no additional sensitivity gains from boundary loading.

VP Series

Self-Powered Integrated Audio Systems

VP SERIES TEC 2007 WINNER

VP SERIES venue performance

Introducing the Venue Performance Series—a family of self-powered loudspeaker systems consisting of eight models, suitable for portable or fixed installation sound reinforcement applications where high-output, low-distortion, and the highest quality sound are required. These systems are designed with compatibility in mind for applications where multiple individual loudspeakers might be required for a distributed system or where multiple loudspeakers will be configured into arrays for point source clusters.

JBL DrivePack®

DP DRIVEPACK™

A key feature of the VP Series is its highly adaptable JBL DrivePack® amplifier module. The two-channel module provides 1100 watts of total power to each full-range system. The sub-woofer module provides 1800 watts of power to the loudspeaker. The JBL DrivePack operates on auto-selecting line voltages at 50 or 60 Hz for worldwide operation.

Feature Loaded

The VP Series features JBL Differential Drive® cone transducers and the new 2452H-SL compression driver. Each VP Series system features integral digital signal processing and is compliant with Harman Professional's HiQnet System Architect™ software for remote control and monitoring.

The VP Series also includes:

- Newly-created stylized and ergonomically designed powder-coated steel handles
- Industry-standard air-cargo track suspension and M10 threaded suspension points

DPAN Input Module with analog audio and 100 Mb Ethernet networking functionality and HiQnet compatibility

DPAN Input Module

The VP Series features the **DPAN input module** as standard. The DPAN input module includes analog audio inputs and sophisticated onboard digital signal processing technology. Precision band-pass limiting, pre-equalization filters and automatic self-test functions ensure optimized performance.

All models can be ordered with the **optional DPCN input module**. The DPCN input module is also HiQnet compatible, with CobraNet™ digital audio input capabilities. It offers the ability to direct up to 64 audio channels on one network, with digital audio and remote control and monitoring via Ethernet combined on a single cable. DPCN includes the option to use an analog input as a backup audio source providing complete reliability and flexibility to cover any situation. As with the DPAN, user-addressable features include ten internal pre-e.q. filter presets, up to 2 seconds of signal delay per channel, and onboard noise and sine-wave generators.

HiQnet™

key features

- NEW 2452H-SL 4" DAMPED DIAPHRAGM HIGH-FREQUENCY COMPRESSION DRIVER
- JBL DRIVEPACK® TECHNOLOGY, CO-ENGINEERED WITH CROWN
- COMPREHENSIVE ON-BOARD DSP
- HIQNET™ SYSTEM ARCHITECT™ COMPATIBILITY
- OPTIONAL DPCN COBRANET™ INPUT MODULE FOR DIGITAL AUDIO CONNECTIVITY
- DIFFERENTIAL DRIVE® LOW-FREQUENCY DRIVERS
- INTEGRATED RIGGING HARDWARE
- ERGONOMICALLY DESIGNED HANDLES

VP7210/95DP

The VP7210/95DP is a 10" two way system with the 2452H-SL compression driver. This model features a 90°x 50° rotatable horn. The system is driven by an 875w continuous power three channel DPC-2 JBL DrivePack®.

VP7212MDP

The VP7212MDP is a dedicated 12" two-way floor monitor and features 2452H-SL 4" voice coil compression driver. The VP7212MDP is equipped with the JBL DrivePack model DPC-2 with 850w continuous power available.

VP7212/64DPAN (60° x 40°)
VP7212/95DPAN (90° x 50°)

The VP7212/64DPAN and VP7212/95DPAN are two-way speaker systems housing one 12" Differential Drive low frequency transducer and the new 2452H-SL compression driver. The VP7212 is available with either a 60° x 40° or 90° x 50° JBL Progressive Transition™ Waveguide.

VP7215/64DPAN (60° x 40°)
VP7215/95DPAN (90° x 50°)

The VP7215/64DPAN and VP7215/95DPAN are two-way speaker systems housing one 15" Differential Drive low frequency transducer and the new 2452H-SL compression driver. The VP7215 is available with either a 60° x 40° or 90° x 50° JBL Progressive Transition™ Waveguide.

VP7315/64DPAN

The VP7315/64DPAN is a three way system housing one 15" Differential Drive low frequency transducer, the CMCD-82H 8" midrange transducer and the new 2452H-SL compression driver mounted on a JBL PT-K64-MHF Progressive Transition Waveguide.

VPSB7118DPAN

The VPSB7118DPAN subwoofer system features one 18" Differential Drive low frequency transducer. This model includes an integrated pole mount, and is sized to readily combine into arrays of various configurations using other models in the line.

specifications

	VP7210/95DP	VP7212MDP	VP7212/64DPAN & VP7212/95DPAN	VP7215/64DPAN & VP7215/95DPAN	VP7315/64DPAN	VPSB7118DPAN
SYSTEM TYPE	Self-Powered Two-way Speaker System	Self-Powered Two-way Speaker System	Self-Powered Two-way Speaker System	Self-Powered Two-way Speaker System	Self-Powered Three-way Speaker System	Self-Powered Sub-woofer System
FREQUENCY RESPONSE	80 Hz – 20 kHz (±3 dB)	80 Hz - 18 kHz (±3 dB)	60 Hz - 18 kHz (±3 dB)	45 Hz - 18 kHz (± 3 dB)	45 Hz - 18 kHz (± 3 dB)	35 Hz - 125 Hz (±3 dB)
NOMINAL COVERAGE	90 x 50	50 x 90	VP7212/64: 60 x 40 VP7212/95: 90 x 50	VP7215/64: 60 x 40 VP7215/95: 90 x 50	VP7315/64: 60 x 40	
DRIVEPACK POWER RATINGS	1750W Peak (875W Cont)	1750W Peak (875W Cont)	2200W Peak (1100W Cont)	2200W Peak (1100W Cont)	2200W Peak (1100W Cont)	3600W Peak (1800W Cont)
TRANSDUCERS: LF HF (MF)	10 in Differential Drive 2452H-SL 1.5" exit compression driver	12 in Differential Drive 2452H-SL 1.5" exit compression driver	12 in Differential Drive 2452H-SL 1.5" exit compression driver	15 in Differential Drive 2452H-SL 1.5" exit compression driver	15 in Differential Drive 2452H-SL 1.5" exit compression driver CMCD-82H (8" Midrange)	18 in Differential Drive
HF (MF) HORN	JBL Progressive Transition™ Waveguide	JBL Progressive Transition™ Waveguide	JBL Progressive Transition™ Waveguide	JBL Progressive Transition™ Waveguide	JBL PT-K64-MHF Progressive Transition™ Waveguide	
FINISH	Black Duraflex™	Black Duraflex™	Black Duraflex™	Black Duraflex™	Black Duraflex™	Black Duraflex™
GRILLE	14-gauge perforated steel	14-gauge perforated steel	14-gauge perforated steel	14-gauge perforated steel	14-gauge perforated steel	14-gauge perforated steel
INPUT CONNECTOR INPUT CONNECTOR OPTION	M/FM XLR	M/FM XLR	Female XLR/Male XLR DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR	Female XLR/Male XLR DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR	Female XLR/Male XLR DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR	Female XLR/Male XLR DPCN (CobraNet compliant) 2 x RJ45 connectors + M/FM XLR
DIMENSIONS (H x W x D)	521 x 293 x 303 mm 20.5 x 11.5 x 11.9 in	346 x 565 x 413 mm 13.6 x 22.3 x 16.2 in	701.8 x 383.8 x 523.5 mm 27.63 x 15.11 x 20.61 in	765.3 x 447.6 x 523.5 mm 30.13 x 17.62 x 20.61 in	914.4 x 528.3 x 624.8 mm 36 x 20.8 x 24.6 in	414.4 x 701.8 x 812.8 mm 20.25 x 27.63 x 32 in
NET WEIGHT (each)	18.4 kg (40.5 lb)	20.7 kg (45.5 lb)	35.4 kg (78 lb)	38.6 kg (85 lb)	44 kg (97 lb)	58.5 kg (129 lb)