SPECSHEET

Control® 126W/WT

Professional Series – Premium In-Wall Loudspeaker

Key Features:

- Components:
  - 165 mm (6½ in) polymer-coated aluminum-cone woofer with pure butyl rubber surround
  - 25 mm (1 in) low-diffraction, swivel-aimable, pure titanium-dome tweeter
- High-slope crossover for natural midrange sound
- Extended bandwidth performance of 38 Hz – 20 kHz
- 50W continuous (100W program, 200W peak) power handling (126W)



Description:

The Control 126W is a premium in-wall speaker within the JBL Professional Control Contractor line designed for applications such as foreground music, boardrooms, reception areas, airports, convention centers, cruise ships, retail outlets, restaurants, museums, surround locations, or any critical listening application where top performance from a loudspeaker with minimal visual impact is required.

The high-performance woofer features a polymer-coated aluminum cone for high performance down to 38 Hz and pure butyl rubber surround for long life and high reliability along with extended-polepiece magnet design for long excursion and tight, low bass. 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 optional Control 126WT version includes a multi-tap transformer for 70V/100V systems.

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.

The speaker fits 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.

Rear Air Cavity Considerations:

The Control 126W is designed to function over a wide span of rear air cavity sizes within the wall. The optimum air cavity (sometimes called "loading volume") for fullest low-frequency performance is between 20 to 40 liters (0.7 to 1.4 cu ft). In a wall with studs located 16-inches on-center, this approximately equals a 23-inch to 46-inch high space. It is recommended that the air cavity behind the speaker be sealed by the use of silicone sealant or similar material to help create an air-tight seal and minimize wall noise.

Specifications:

System	
Frequency Range (-10 dB)[1]	38 Hz – 20 kHz
Continuous Power Capacity[2]	200W Peak 100W Continuous Program 50W Continuous Pink Noise
Sensitivity[3]	88 dB SPL, 1W, 1 m (3.3 ft)
Coverage	180°H x 160°V (ave. 1 kHz – 8 kHz)
Nominal Impedance (126W)	8 ohms
Transformer Taps (126WT)	70V: 30W, 15W, 7.5W & 3.7W taps 100V: 30W, 15W & 7.5W taps
Transducers	
Low Frequency	165 mm (6.5 in) polymer-coated aluminum cone, pure butyl rubber surround
High Frequency	25 mm (1 in) pure titanium dome with cloth suspension on low-diffraction swivel-mount with -10º aimability
Physical	
Termination	Screw-down Euroblock-type connector, max wire size 14 AWG (1.5 mm)[2]
Crossover Network	3rd order (18 dB/oct) low-pass to the woofer and 3rd order (18 dB/oct) high-pass to the tweeter
Optimum Air Cavity Behind Speaker	20 to 40 liters (0.7 to 1.4 cu ft)
Outside Dimensions (H x W x D)	280 x 215 x 105 mm (11 x 8.5 x 4.1 in), 99 mm (3.8 in) front of wall to back of speaker
Cutout Size (H x W)	246 x 181 mm (9.7 x 7.2 in), cutout template included
Maximum Wall Thickness	32 mm (1.25 in)
Net Weight (each)	126W: 2.1 kg (4.5 lb) 126WT: 2.7 kg (5.9 lb)
Shipping Weight (pair)	126W: 4.8 kg (10.5 lb) 126WT: 6.2 kg (13.5 lb)
Included Accessories	» Cutout template » Paint shield
Optional Accessories	» WB6 Rough-In Frame for new construction installation to wallstuds

[1] Half-space (mounted in-wall)

[2] Continuous Pink Noise rating is IEC-shaped pink noise with a 6 dB crest factor

[3] Half-space (mounted in-wall), average 100 Hz to 10 kHz

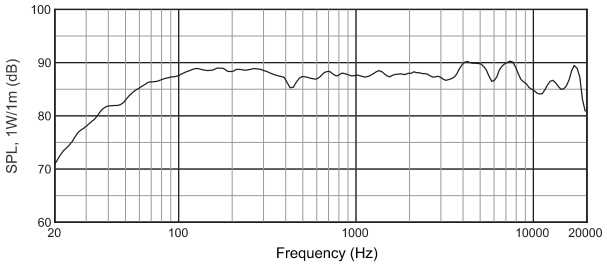
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

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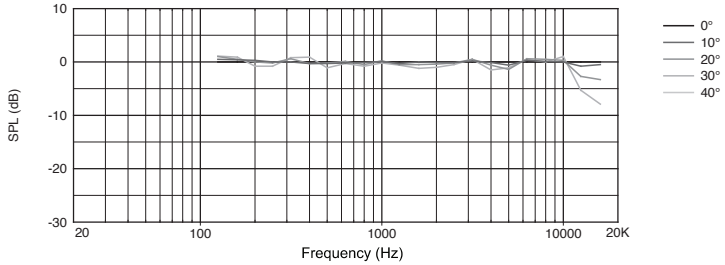
Professional Series – Premium In-Wall Loudspeaker

Frequency Response:

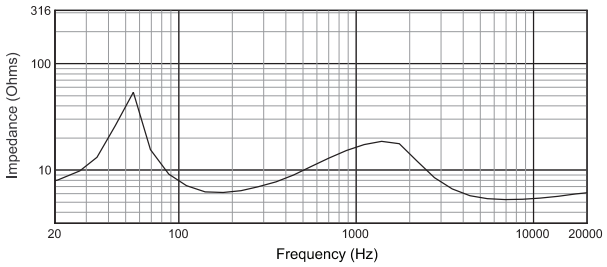


Measured on-axis with distance referenced to 1 meter at 1 watt, half-space (126W)

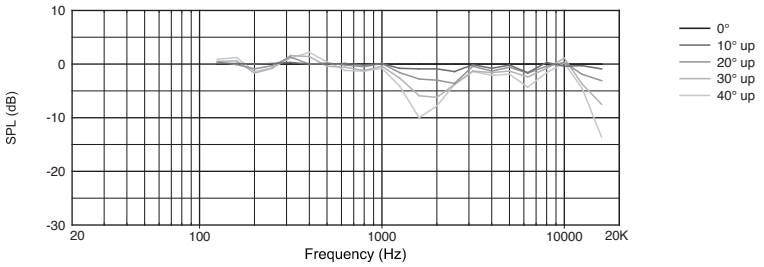
Normalized Horizontal Off-Axis:



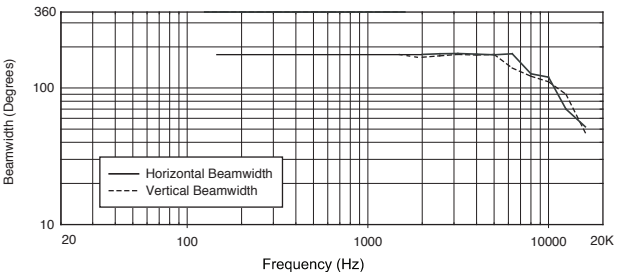
Impedance (126W):



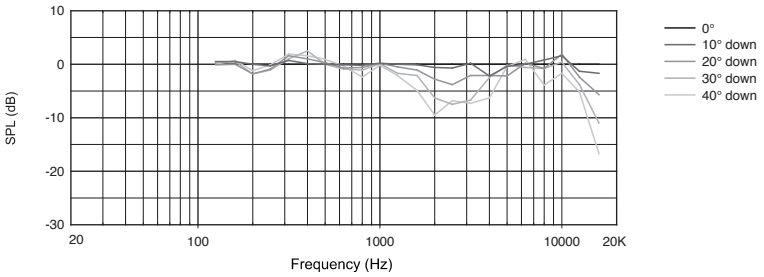
Normalized Vertical Off-Axis (up):



Beamwidth vs. Frequency:

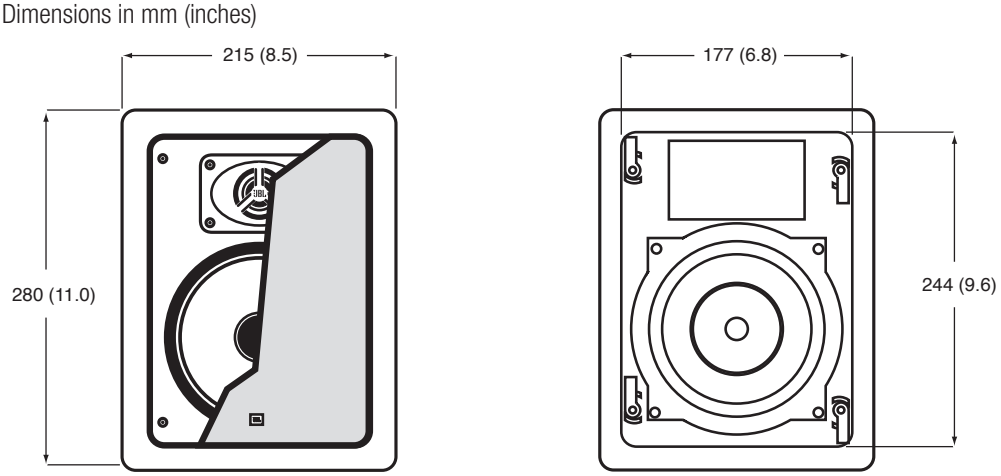


Normalized Vertical Off-Axis (down):



Mounting Dimensions:

Dimensions in mm (inches)



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