

AS4725-STD, AS4725NW

Two-Way Compact Loudspeaker Systems With 15 in Transducer

Architectural Series

Key Features:

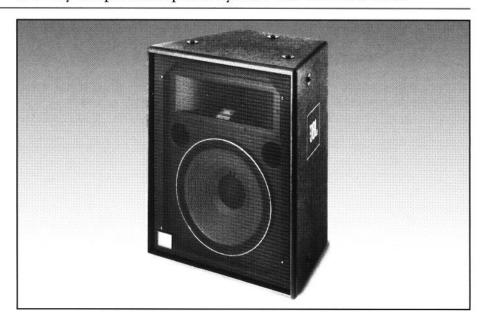
- VGC™ (Vented Gap Cooling) low frequency transducer with 100 mm (4 in) diameter edgewound voice coil and SFG™ magnet structure.
- Compact trapezoidal enclosures for accurate cluster design.
- ► Rugged black textured finish.
- Multiple attachment points for efficient mounting.
- ➤ 90° x 40° Bi-Radial® horn for wide, smooth coverage.
- Options include: finish, input connections, and grilles.

The JBL Architectural Series is a family of modular loudspeaker systems designed for fixed installation applications ranging from speech reinforcement to large scale music reinforcement. All models in the series can be customized to meet specific designer needs in details of finish, mounting, and input wiring, resulting in economy and time saving in the field.

The model AS4725 is a compact two-way general purpose sound reinforcement system for either live or recorded music reproduction.

Components

The AS4725 has been designed with typical JBL rugged componentry. The 2226H 380 mm (15 in) low frequency transducer incorporates JBL's exclusive VGC™ (Vented Gap Cooling) for efficient removal of heat from the voice coil resulting in a continuous power rating of 600 watts with minimum power compression. Another IBL innovation, SFG™ (Symmetrical Field Geometry), reduces second and third harmonic distortion to extremely low levels, resulting in clean reproduction at the highest drive levels. JBL's continuing research in cone, surround, and suspension materials has made the 2226H an extremely smooth and predictable performer.



The 2426H compression driver used in the AS4725 incorporates a pure titanium diaphragm that is both light and strong. It has a three dimensional embossed pattern which controls high frequency resonances and results in usable response to $18\,\mathrm{kHz}$. The 2370A Flat-Front Bi-Radial® horn provides a tightly controlled radiation pattern.

Enclosure

The model AS4725 is a trapezoidal enclosure which facilitates arraying for a wide variety of coverage requirements. The enclosure is made of rugged, high-grade birch plywood, and each joint is either dado or rabbet type. The enclosure is finished in textured black and has twelve internal corner mounted steel plate attachment ponts which accept only 3/8 inch forged shoulder steel eye bolts for maximum safety. The trapezoidal enclosure is tapered front-to-back at 15° , allowing adjacent enclosure splaying at 30° . The enclosure grille is made of black fire retardant and vermin and facle resistant material. The grille cloth is removable from its hardwood frame for replacement to match decor.

The AS4725-STD system is intended for biamplification and for this purpose comes with a standard barrier strip input connector. The recommended crossover frequency range is 800 to 1200 Hz. The AS4725NW includes a passive dividing network with 1/4-inch phone jack input connectors.

Options

The AS4725 system may be tailored to specific applications in terms of finish, grille options, and input connections. Optional finishes include a fiberglass covering for increased structural and surface durability, neutral paint which more easily facilitates repainting, and bare wood (premium Finnish birch) which can be stained to meet architectural requirements. Loudspeakers can also be ordered without attachment points.

For continued field support and future recognition of the loudspeaker's configuration, once an option (alternate finish, input connector, etc.) is incorporated into an Architectural Series product, the system is no longer a standard ("STD" suffix) model, but becomes a special ("SP" suffix) model. The list of available options is continually growing. Contact JBL Professional for current Option Code offerings, availability, and pricing.

Two-Way Compact Loudspeaker Systems With 15 in Transducer

Architects and Engineers Specifications:

The loudspeaker shall consist of a single 380 mm (15 in) low frequency transducer and a high frequency horn with 90° x 40° coverage above 1 kHz. The frame of the low frequency transducer shall be made of cast aluminum to avoid warping, and the magnetic assembly shall use a ferrite magnet and an aluminum flux stabilizing ring to reduce distortion. The nominal cone diameter shall be 380 mm (15 in), and the voice coil shall be 100 mm (4 in) in diameter and made of edgewound aluminum ribbon wire. The low frequency transducer shall be capable of handling 600 watts input power and have an axial sensitivity no less than 97 dB (1 W, 1 m). Power compression in the low frequency transducer shall not exceed 3.9 dB at a total input power of 600 watts.

The high frequency section shall be driven by a compression driver capable of 100 watts power input above 1 kHz. The voice coil shall be no less than 47 mm (1-3/4 in) in diameter, constructed of edgewound aluminum ribbon wire, and shall operate in a magnetic gap of no less than 1.8 tesla flux density.

The enclosure shall be of trapezoidal shape with front-to-back tapering of 15° per side. The enclosure shall be constructed of high grade birch plywood, finished with water-resistant paint, and provided with no less than twelve attach ment points. Overall dimensions shall not exceed 737 mm H x 603 mm W x 438 mm D (29 in x 23-3/4 in x 17-1/4 in).

The system shall be the JBL model AS4725 (AS4725NW), with the pertinent system options. Other loudspeaker systems will be considered as equivalent provided that submitted data from a recognized independent test laboratory verify that the above performance specifications are met.

Specifications:

SYSTEM:	
Frequency Range (-10 dB):	
	LF: 97 dB SPL, 1 W @ 1 m (3.3 ft)
	HF: 110 dB, 1 W @ 1 m (3.3 ft)
Rated Impedance:	LF: 8 ohms; HF: 8 ohms
Minimum Impedance:	
Power Rating ¹ :	LF: 600 W; HF: 100 W
LOW FREQUENCY SECTION	2226H
Nominal Diameter:	380 mm (15 in)
Input Power Rating:	600 watts, continuous pink noise
Sensitivity ¹	97 dB, 1 W @ 1 m (3.3 ft)
	100 mm (4 in) edgwound
	aluminum ribbon
HIGH FREQUENCY SECTION	2426H
Throat Diameter:	
Input Power Rating ¹ :	
	continous program
Nominal Impedance:	
Sensitivity ¹ :	
Directivity Index (DI)	
Directivity Factor (Q):	12.2 (+10.1, -5.2 dB)
Diaphragm:	0.05 mm (0.002 in) pure titanium
ENCLOSURE:	•
	Trapezoidal, 15° taper per side
	High grade birch plywood
Attachment:	
	forged shoulder steel eye bolts
Finish:	Black textured paint
	Black, fire retardant on
	hardwood frame
Connector:	Barrier strip
Dimensions (H x W x D):	737 x 603 x 438 mm
	(29 x 23-3/4 x 17-1/4 in)
Net Weight:	34.9 kg (77 lb)
Shipping Weight:	
	Suspending this system should only
	be done by qualified persons follow-
	ing safe rigging standards.
DDITIONAL SPECIFICATIONS	
	Passive Crossover Network Included
	1/4 in phone jacks
	In all other regards, the specifications
1,011.	of the AC (725 CTD)

See individual driver specification sheets for rating methodology NOTE: For additional component data, refer to component specification sheet

JBL continually engages in research related to product improvement. New 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.

of the AS4725-STD apply.



JBL Professional 8500 Balboa Boulevard Northridge, California 91329 USA