



1.25 cu.ft. Cylindrical System includes:
1 (black or white) acoustic cylinder with grille,
1 transformer (2 options), and 1
(8" 50W) driver.



2 Transformer Options



8" 50W Driver

iMount™ 50W

Cylindrical Assemblies Include:

- Model 8A50 (8" 50W) coaxial driver mounted in a cylindrical acoustic enclosure (1.25 cu.ft.) with forged eyebolts.
- Choice of two 20/20 AudioVision™ transformers with true 20Hz - 20kHz performance.
- Black or white assembly finish.

iMount™ Family

Lowell's iMount™ family of speaker systems with rectangular or cylindrical acoustic enclosures provide specifiers and systems integrators with versatile packaged solutions for high performance suspended speaker installations. Visit the Lowell website (www.Lowellmfg.com) for detailed information on the entire family of iMount™ Systems.

Description

iMount™ Model Group IMC8A features 8" driver Model 8A50 (50W) mounted in a cylindrical 1.25 cu.ft. acoustic enclosure with installed 1/4" x 20 forged eyebolts, grille and choice of white or black assembly finish. Ready-to-install systems feature externally accessible speaker connections and optional 20/20 AudioVision™ transformer for superior music fidelity in distributed applications. iMount Model Group IMC8A is ideal for upscale restaurants, lounges, hotel lobbies, department stores, and boutiques where a positive listening experience is key to customer satisfaction.

The 8A50 driver features a large 20oz. magnet coupled with a 1.4" copper voice coil driving a polypropylene cone with half-roll rubber surround for long cone travel and good edge damping. The post-mounted tweeter is a 1-inch balanced drive dome protected by Ferrofluid and a first order high pass filter for excellent power handling, low distortion and smooth musical sound. The driver is mounted into the enclosure with terminations accessible through a top mounted 4" x 4" cover plate.

For distributed applications, iMount™ systems are available with optional 32W or 16W transformer. Lowell's exclusive 20/20 AudioVision™ Series TLS offers true 20Hz - 20kHz performance. The full frequency response of Series TLS, combined with its high power handling, allows the driver to operate at full potential while providing a stable load to the amplifier. The significance is that Series TLS transformers allow a distributed speaker system to sound imperceptibly the same as a "transformerless" direct to voice coil system with the benefit of easier wiring layout, less expensive wire, and reduced labor cost.

Cylindrical enclosure is precision-formed steel with 1-1/2" thick premium acoustic lining, and forged 1/4" x 20 eyebolts screwed into riveted mounting nuts for secure suspended installation using flyware by others. The enclosure and steel grille assembly is finished in Lowell's durable powder epoxy in choice of black (suffix model -B) or white (suffix model -W).

Systems are shipped one per carton with the grille mounted to protect the driver. The transformer selector switch is accessible through an opening in the grille.



iMount™ Speaker Systems

Model Group IMC8A, 8" 50W Cylindrical Assemblies

AUDIO

12"/10"
Speakers & Accessories



8"
Speakers & Accessories

6"
Speakers & Accessories

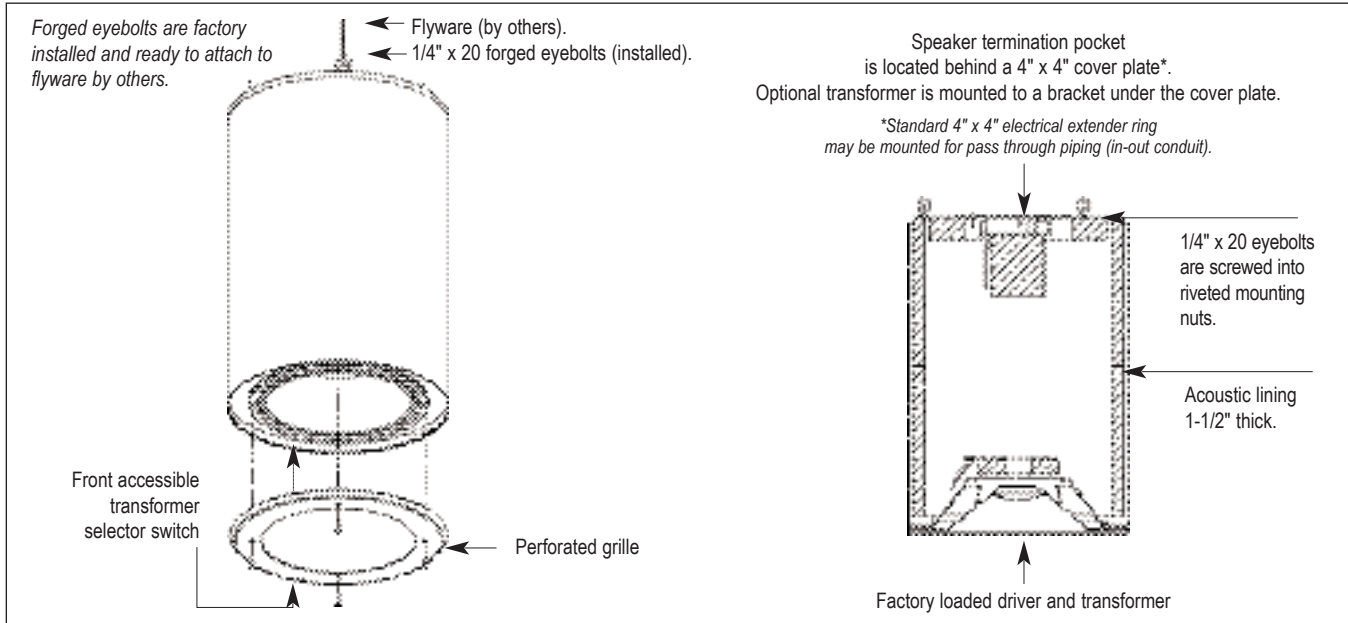
4"
Speakers & Accessories

Horn
Speakers & Accessories

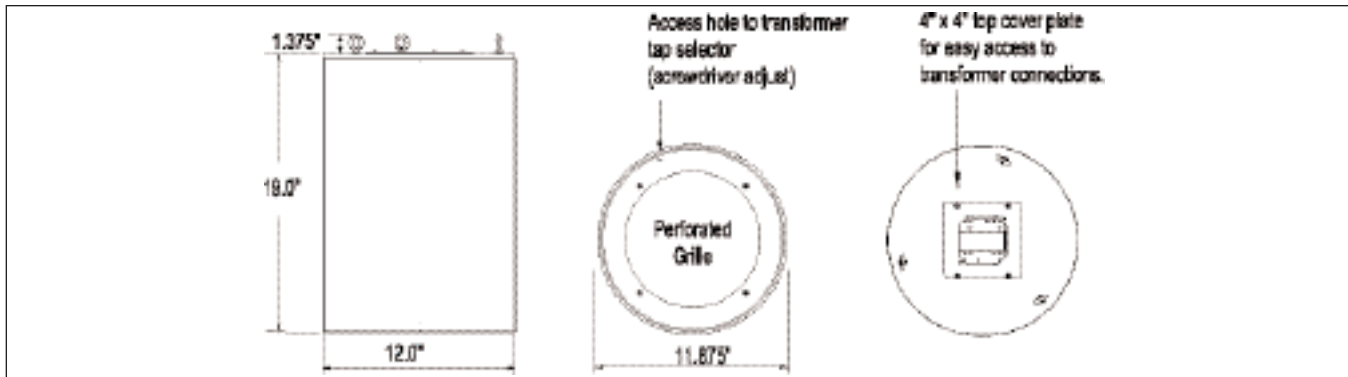
Masking
Speakers & Generators

Control
Accessories & Electronics

Systems



iMount system details. Factory wired and ready for installation.



IMC8A system dimensions

System Specifications: iMount (IMC8A-series). Measured in cylindrical enclosure.

Driver Model No.	Driver Rating	Driver Size	Driver Type	System Volume	System Dimensions	Frequency Response	Dispersion Angle	Sensitivity (SPL) 1W / 1M
8A50	50W	8"	Coaxial	1.25 cu.ft.	19"H x 12"Diameter	50Hz - 20kHz±8dB 50Hz - 20kHz Nominal	90° conical @ 2000Hz -6dB	91.6dB **

**log avg. @1W at 1M over frequency response range, measured in half-space.

Transformer Options.

Model No.	70V Taps	Response
TLS3270*	32, 16, 8W	20Hz-20kHz
TLS1670*	16, 8, 4W	20Hz-20kHz

*TLS Series is Lowell's 20/20 AudioVision transformer series with true 20Hz - 20kHz performance for full fidelity audio in distributed applications.

iMount Assembly Model No's. (IMC8A-series)

Model No.	Driver	Transformer	Mounting Hardware (installed)	Cylinder & Grille Color	Net Wt. / Shipping Wt. lbs. (kg)
IMC8A-1B	8A50	---	(3) 1/4" x 20 forged eyebolts	black	18.2 (8.25) / 24 (10.89)
IMC8A-1W	8A50	---	(3) 1/4" x 20 forged eyebolts	white	18.2 (8.25) / 24 (10.89)
IMC8A-TS32-1B	8A50	TLS3270	(3) 1/4" x 20 forged eyebolts	black	20.2 (9.16) / 26 (11.79)
IMC8A-TS32-1W	8A50	TLS3270	(3) 1/4" x 20 forged eyebolts	white	20.2 (9.16) / 26 (11.79)
IMC8A-TS16-1B	8A50	TLS1670	(3) 1/4" x 20 forged eyebolts	black	20.2 (9.16) / 26 (11.79)
IMC8A-TS16-1W	8A50	TLS1670	(3) 1/4" x 20 forged eyebolts	white	20.2 (9.16) / 26 (11.79)



iMount™ Speaker Systems

Model Group IMC8A, 8" 50W Cylindrical Assemblies

Test Methodology

Lowell iMount™ Systems are thoroughly tested to provide specifiers and contractors with solid, accurate data. Performance tests are conducted on randomly selected final production assemblies. Test equipment includes the GoldLine TEF-20 analyzer. The power handling capability is based on EIA Standard RS-426B.

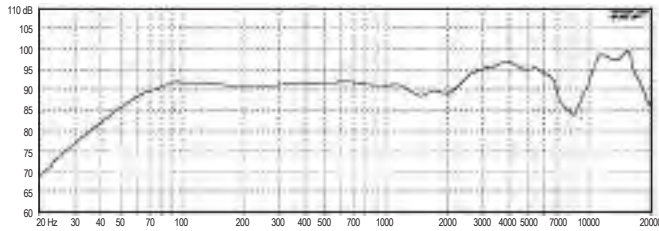
Frequency Response data is provided in two ways: Nominal - which is the generally usable response range and Limited Bandwidth - (defined by ± __dB) which is useful in predictive engineering calculations. Average Sensitivity (SPL), as documented here, is a computer calculation of the octave-weighted average over the entire engineering bandwidth as shown in the frequency response (± __dB). *Note: Peak sensitivity, used*

by many manufacturers, is a rating based on a narrow portion of the frequency response curve and can be a less useable measurement.

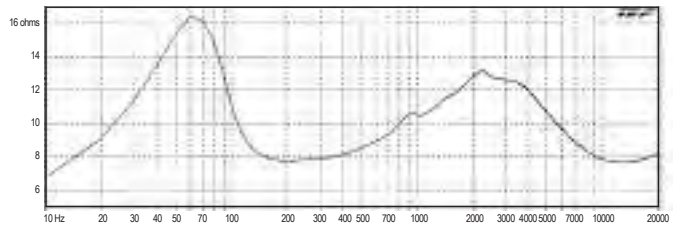
Dispersion Angle is defined as the angle of coverage that is no more than 6dB down from the on-axis value averaged over the 2000 Hz octave band. Since speech intelligibility is very dependent upon the 2000 Hz octave, this specification is quite useful in designing paging systems that provide even coverage and intelligibility. The polar graphs illustrate how the system will perform when hung in free space (360°) applications.

Detailed specifications on the specified driver used in an iMount™ system are also available on the Lowell website at www.lowellmfg.com. Driver specification sheets are located in the speaker driver section.

SPL vs. Frequency

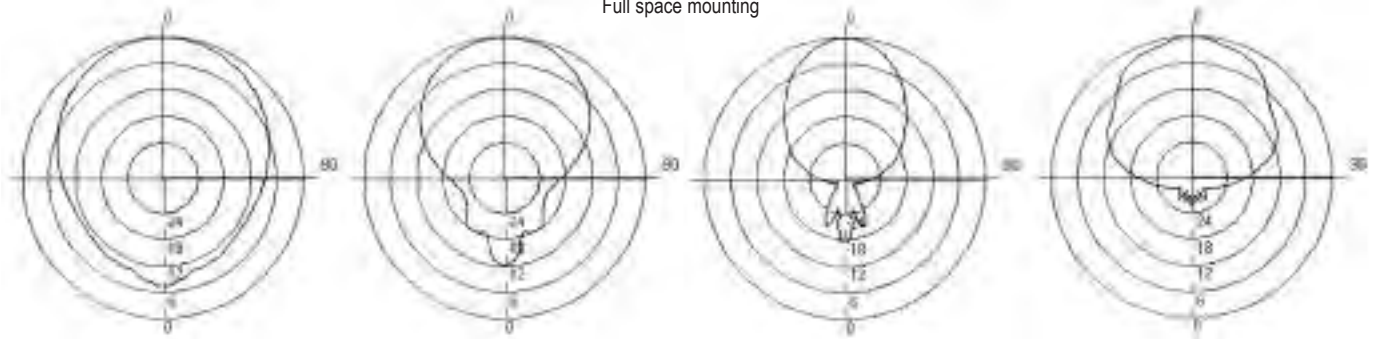


Impedance Curve



Polar Data 360°

Full space mounting



1000Hz octave

2000Hz octave

4000Hz octave

8000Hz octave

A & E Specifications

The speaker for suspended installation shall be Lowell iMount system Model IMC8A-_____ with 8" 50W driver Model 8A50 mounted into a cylindrical enclosure with a volume of 1.25 cu.ft., installed forged eyebolts, and steel architectural grille. Assembly finish shall be _____ (white, black) powder epoxy paint.

Frequency response of the iMount™ system shall be _____ with an average sensitivity of _____. Dispersion shall be 90 degrees @ 2000Hz measured 6dB down. Overall dimensions shall be 19"H x 12"Dia.

System driver Model 8A50 shall have an 8-inch polypropylene cone, 20oz magnet, 1.4" copper voice coil, and a 1" balance-drive

dome tweeter with a built-in electrical crossover network. The crossover frequency shall be at 4000Hz with a 1st order high-pass filter. For distributed applications, the driver shall include a wired 70V 32W transformer Model _____(TLS3270) or 16W transformer Model _____ (TLS1670). Transformer tap selections shall be adjustable on the front of the assembly.

System enclosure shall be welded steel construction with 1-1/2" thick acoustic lining. It shall have forged 1/4" x 20 eyebolts screwed into riveted mounting nuts for suspended installation using flyware by others.



iMount™ Speaker Systems

Model Group IMC8A, 8" 50W Cylindrical Assemblies

Installation

The iMount cylindrical systems are designed to mount using the installed forged eyebolts and flyware (by others) in an open area. Mounting Note: The system must be mounted in accordance with local, state, federal, and industry regulations. It is the owner and/or user's responsibility to evaluate the reliability of any rigging/support method for their application. Rigging/installation should be carried out only by experienced professionals.

Hanging method - suspended by forged eyebolts (IMC Series)

The contractor shall employ the services of a qualified certified rigger for the installation of this product and only load-rated hardware with a design factor of at least X5 should be used to suspend this product. The rigging system design is solely the responsibility of the installing contractor and the rigging design should be reviewed and certified by a professional structural engineer.

Typical Wiring Method

Remove the 4" x 4" cover plate located on the rear of the speaker system. Remove the knockout plug in the plate and install a UL Listed conduit connector or cable clamp as appropriate. Connect the field signal wiring to the two conductors sticking out of the rear of the speaker system. Red is positive, black is negative. Push the connections and all excess wire into the speaker system and to one side of the transformer bracket. Reattach the cover plate to the rear of the speaker system. (See Figure. 2)

Alternate wiring method - Use when in/out conduit is specified.

Remove the 4" x 4" cover plate located on the rear of the speaker system. Install an approved 4x4 extender ring, attaching it to the mounting holes where the cover plate was secured. Select wiring entry positions on the side of the extender ring and remove the corresponding knockouts. Install conduit connectors and secure conduit. Make wiring connections (Red-positive, black-negative). If the unit is being installed above a ceiling, push the wiring and connectors into the speaker system and to one side of the transformer bracket. (See Figure. 3)

Transformer settings

After the speaker system is installed, remove the grille on the IMC Series. Next to the speaker cone, locate the screwdriver adjustable speaker tap selector. Important! Using the screwdriver, set the switch to the desired transformer tap level (see Transformer Power Tap chart). The selector switch will still be accessible through a small hole when the grille is attached.

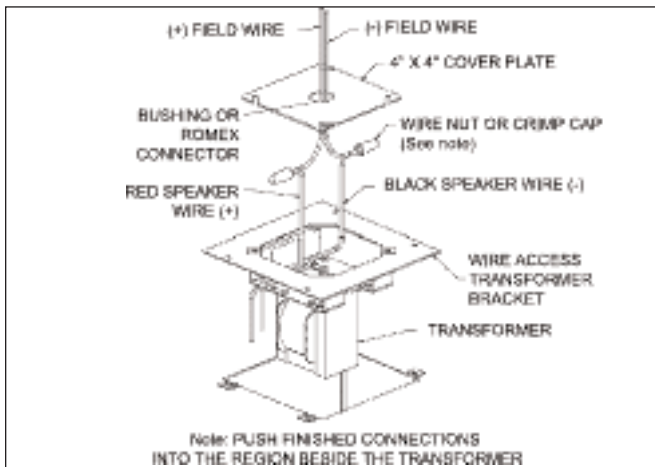
Grille installation.

Mount the perforated grille over the speaker cone using 8-32 screws provided. Make sure that the hole is over the selector switch when attaching the grille.

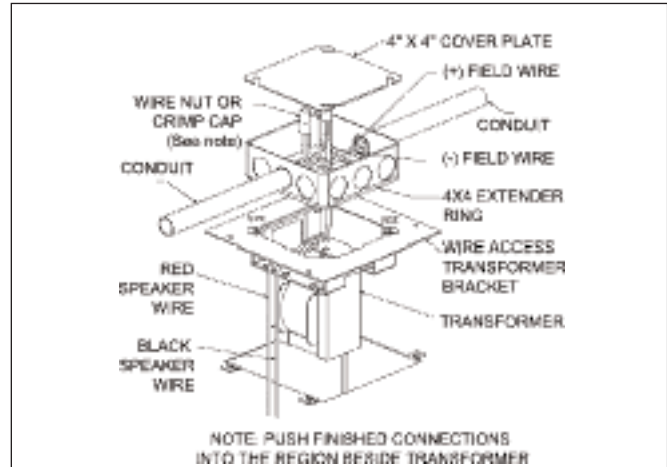
Switch Position	Model TLS3270	Model TLS1670
1	8	4
2	16	8
3	32	16
4	Off	Off
5	Off	Off
6	Off	Off

Transformer Power Tap Settings

Note: The tap selector is a 6-position switch. Before turning on power, ensure that the tap settings are in the correct position. Turn the switch counter-clockwise to the lowest tap setting. Then turn the switch incrementally clockwise to the desired tap setting. Starting at the lowest position avoids accidental selection of the wrong tap.



(Figure 2) Typical Wiring Diagram



(Figure 3) Wiring Diagram when in/out conduit is specified.