iMount™ Series family of rectangular and cylindrical systems
(8" system components for model group IMC8P shown below)

0.8 cu.ft. Cylindrical System includes:
(black or white acoustic cylinder with grille)

\+

--- 4 Transformer choices ---

\+

8" 100W Driver

iMount™ 100W Cylindrical Assemblies Include:

- Model 8P100 (8" 100W) coaxial compression driver mounted in a cylindrical acoustic enclosure (0.8 cu.ft.) with forged eyebolts.
- Choice of four transformers including 20/20 AudioVision™ TLS Series with true 20Hz - 20kHz performance.
- Choose 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 for detailed information on the entire family of iMount™ Systems.*

Description

iMount™ Model Group IMC8P features Lowell's 8" driver Model 8P100 (100W) mounted in to a cylindrical 0.8 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 IMC8P is ideal for high energy, high ceiling applications such as clubs and sports bars, hotel ballrooms, educational and government multipurpose areas, convention and sporting facilities, airport terminals and transportation concourses.

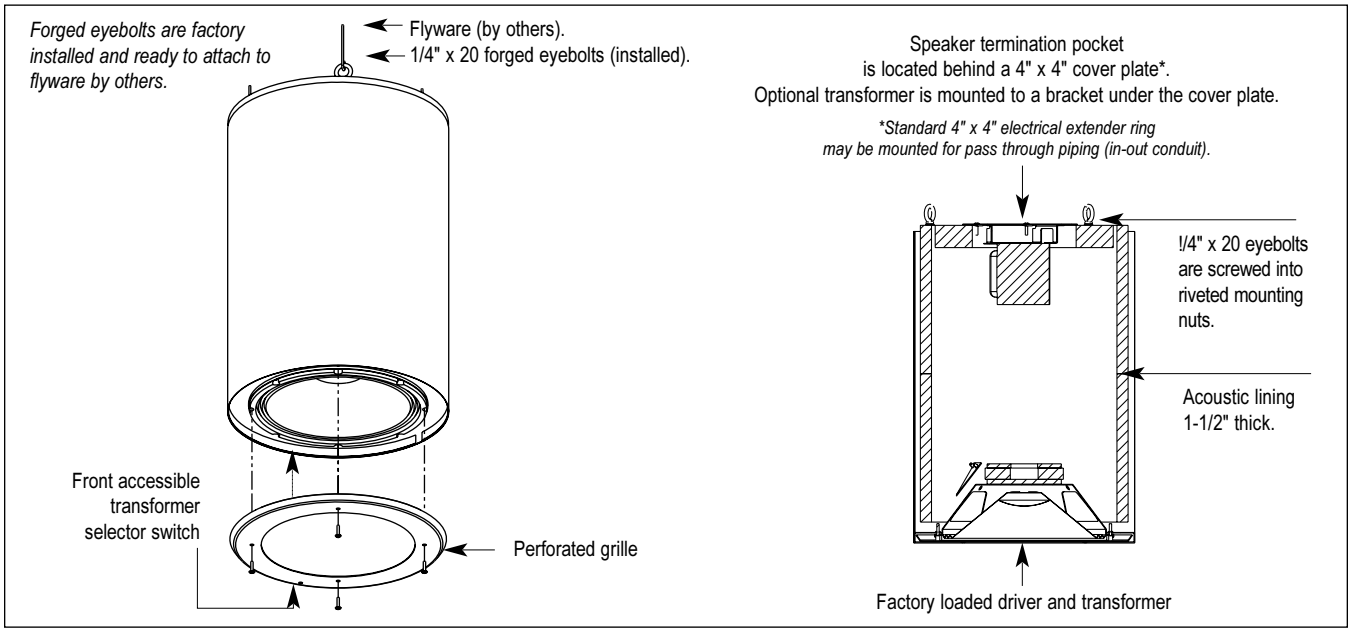
The 8P100 driver features a robust motor structure with 38oz. magnet, 2" voice coil, and coaxially mounted compression driver tweeter for high power handling with excellent efficiency. The driver is mounted into the enclosure with terminations accessible through a top mounted 4" x 4" cover plate.

For distributed applications, iMount™ systems are available with optional 100W or 32W transformer. Selection includes standard Series TLM or Lowell's exclusive *20/20 AudioVision™* Series TLS with 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.

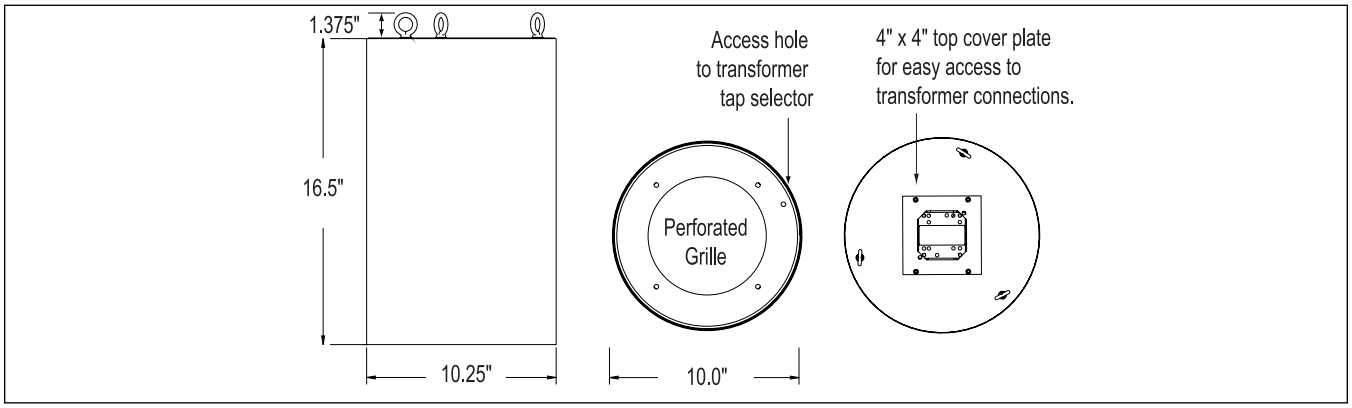
Cylindrical enclosure is precision-formed steel with 1-1/2" thick premium acoustic lining, and forged 1/4" x 20 eyebolts screwed into riveted mounting nuts for secure suspended installation using flyware by others. The enclosure and steel grille assembly is finished in Lowell's durable powder epoxy in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

Lowell Manufacturing Company • 100 Integram Drive • Pacific, Missouri 63069 U.S.A.
Call 800.325.9660, 636.257.3400 • **Fax** 636.257.6606 • **Click** www.lowellmfg.com



iMount system details. Factory wired and ready for installation.



IMC8P system dimensions - 0.8 cu.ft. model

Specifications - iMount Model Group IMC8P (measured in the cylindrical enclosure)

Driver Model	Driver Rating	Driver Size	Driver Type	System Volume	System Dimensions	System Response	System Dispersion	Sensitivity (SPL) 1W / 1M
8P100	100W	8"	Direct radiator LF Coax. compression HF	0.8 cu.ft.	16.5"H x 10.25"Dia.	90Hz - 20kHz±6dB 75Hz - 20kHz Nominal	100° @ 2000Hz-6dB	95dB Avg. 101 dB Peak

Model Assemblies - iMount Model Group IMC8P

0.8 cu.ft. System*	Driver Model	Transformer Model (70V) (see details below)	Mounting Hardware (installed)	Cylinder/Grille Color* (suffix model)
IMC8P	8P100	---	(3) 1/4" x 20 forged eyebolts	**-B** (black) or **-W** (white)
IMC8P-TS100	8P100	TLS10070	(3) 1/4" x 20 forged eyebolts	**-B** (black) or **-W** (white)
IMC8P-TM100	8P100	TLM10070A	(3) 1/4" x 20 forged eyebolts	**-B** (black) or **-W** (white)
IMC8P-TS32	8P100	TLS3270	(3) 1/4" x 20 forged eyebolts	**-B** (black) or **-W** (white)
IMC8P-TM32	8P100	TLM3270A	(3) 1/4" x 20 forged eyebolts	**-B** (black) or **-W** (white)

* Suffix model with color choice (required): cylindrical iMount™ systems are offered with a black cylinder and grille (suffix -B) or a white cylinder and grille (suffix -W).

Transformer Options

Model	TLS10070*	TLM10070A	TLS3270*	TLM3270A
70V Taps	100, 64, 32, 16W	100, 64, 32, 16W	32, 16, 8W	32, 16, 8W
Response	20Hz-20kHz	50Hz-15kHz	20Hz-20kHz	50Hz-15kHz

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

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 and a LinearX LMS measurement system. The power handling capability is based on EIA Standard RS-426A.

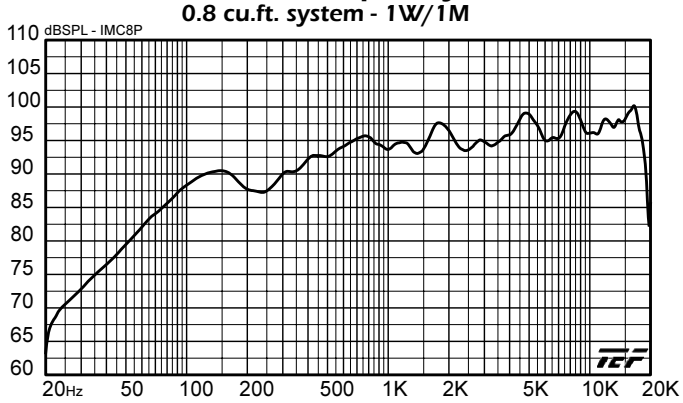
Frequency Response data is provided in two ways: Nominal - which is the generally usable response range and Limited Bandwidth - (defined by ± __dB) which is useful in predictive engineering calculations. Average Sensitivity (SPL), as documented here, is a computer calculation of the octave-weighted average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

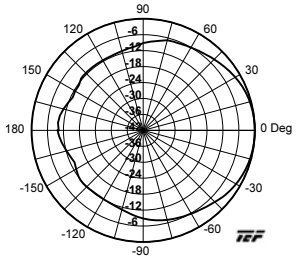
SPL vs. Frequency

0.8 cu.ft. system - 1W/1M



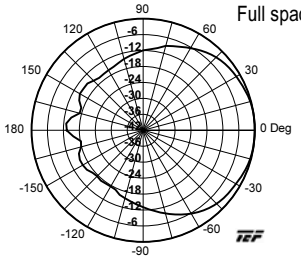
Polar Data 360°

Full space mounting



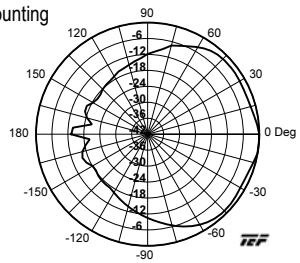
IMC8P Freq: 1.00K, BW: 130, Q: 2.8, DI: 4.4

1000Hz octave



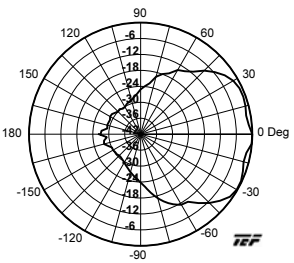
IMC8P Freq: 2.00K, BW: 125, Q: 2.9, DI: 4.6

2000Hz octave



IMC8P Freq: 4.00K, BW: 145, Q: 2.5, DI: 3.9

4000Hz octave



IMC8P Freq: 8.00K, BW: 95, Q: 3.8, DI: 5.8

8000Hz octave

A & E Specifications

The speaker for suspended installation shall be Lowell iMount system Model IMC8P-_____ with 8" 100W driver Model 8P100 mounted into a cylindrical enclosure with a volume 0.8 cu.ft., installed forged eyebolts, and steel architectural grille. Assembly shall be finished in _____ (black, white).

Frequency response of the iMount™ system shall be 90Hz - 20kHz±6dB with average sensitivity of 95dB. Dispersion shall be 100 degrees @ 2000Hz measured 6dB down. Overall dimensions shall be16.5"H x 10.25"Dia.

System driver Model 8P100 shall have a 38oz magnet, 2" voice coil, and coaxially mounted compression driver tweeter. For distributed applications, the driver shall include a wired 70V 100W transformer Model _____ (TLS10070, TLM10070A) or 32W transformer Model _____(TLS3270, TLM3270A). 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.

Lowell Manufacturing Company • 100 Integram Drive • Pacific, Missouri 63069 U.S.A.
Call 800.325.9660, 636.257.3400 • **Fax** 636.257.6606 • **Click** www.lowellmfg.com

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.*

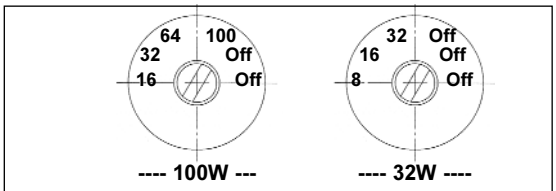
Hanging method - suspended by forged eyebolts (IMC Series)
The contractor shall employ the services of a qualified certified rigger for the installation of this product and only load-rated hardware with a design factor of at least X5 should be used to suspend this product. The rigging system design is 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 be covered when the grille is attached.

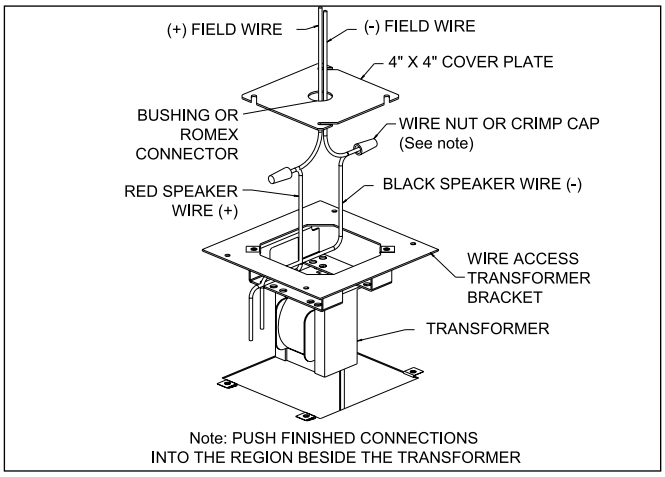
Grille installation.
Mount the perforated grille over the speaker cone using 8-32 screws provided.



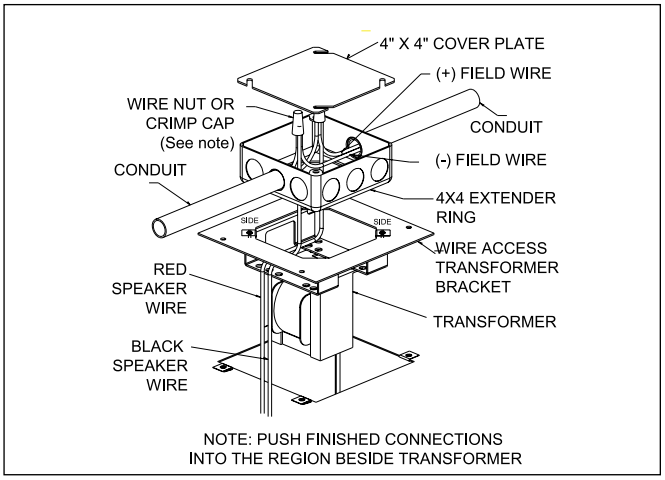
Switch Position	Model TLS10070	Model TLM10070A	Model TLS3270	Model TLM3270A
1	16	16	8	8
2	32	32	16	16
3	64	64	32	32
4	100	100	Off	Off
5	Off	Off	Off	Off
6	Off	Off	Off	Off

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.