



MODEL 109-8/16A

HIGH FREQUENCY
COMPRESSION DRIVERS

The **Iconic™ Models 109-8A and 109-16A High Frequency Compression Drivers** are designed to provide unsurpassed reproduction of the audio spectrum over a wide frequency range with extremely high efficiency. When coupled with **Mantaray™**, sectoral, conical, or Tractrix horns, these drivers provide uniform response to the upper limits of human hearing.

When used in conjunction with appropriate low frequency systems and dividing networks, the **Iconic 109-Series High Frequency Compression Drivers** furnish the realistic sound reproduction demanded by even the most discriminating listeners. No matter where they are used, be it in churches, motion picture theatres, music halls, auditoria, or in the finest home audio systems, the **Iconic Models 109-8A and 109-16A High Frequency Compression Drivers** will provide the most natural sound reproduction possible today with the least amount of induced distortion.

All high frequency compression drivers consist of three basic parts: (1) A diaphragm; (2) An acoustical transformer; and (3) A motor. All **Iconic** high frequency compression drivers are designed and built using the finest engineering principles, materials, and manufacturing tolerances in the industry.

SUPERIOR DIAPHRAGM MATERIALS & CONSTRUCTION

At the heart of the these models is the diaphragm/voice coil assembly - the "vocal chord" of a high frequency compression driver. If a loudspeaker designer fails in this portion of his work, all the rest will be for naught. At a time when many manufacturers claim to have reinvented the proverbial wheel, **Iconic Manufacturing Company** has chosen a different path. Every **Iconic** high frequency compression driver incorporates only the finest, time-tested materials and manufacturing methods in its construction. In order to assure superior sound reproduction, every **Iconic 109-Series High Frequency Compression Driver** combines an all-metal Pascalite™ dome, a tangential compliance, and a voice coil of 1 3/4-inch edgewound aluminum ribbon into a field-replaceable assembly.

SUPERIOR TANGERINE™ RADIAL PHASING SYSTEM

Getting the sounds generated by the diaphragm to the listener in proper phase alignment is also extremely



important, and is another area where most manufacturers fail miserably. All **Iconic** high frequency compression drivers incorporate a **Tangerine™** radial phasing system, which provides proper phasing which ensures maximum high frequency reproduction while maintaining smooth overall response.

SUPERIOR FERRITE V MAGNETIC STRUCTURE

Lastly, it takes a powerful motor structure to bring the other two parts of a high frequency compression driver together and transform them into a system that flawlessly reproduces sound in a natural manner. Each **Iconic** high frequency compression driver has an efficient magnetic structure utilizing a 2.5 pound ferrite magnet that provides a flux density of 18,000 gauss.

Working together in a symbiotik relationship, the diaphragm, **Tangerine™** radial phasing system, and the powerful but small magnetic structure ensure that the **Iconic™ Models 109-8A and 109-16A High Frequency Compression Drivers** are capable of uniform, peak-free reproduction throughout the range of human hearing, and make them ideal as the high frequency component in medium and small sound system environments.

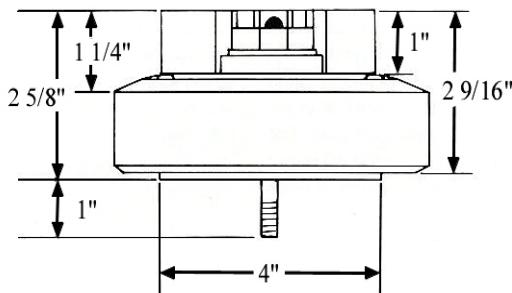
You Can HEAR The Difference!™

109-SERIES HIGH FREQUENCY COMPRESSION DRIVERS

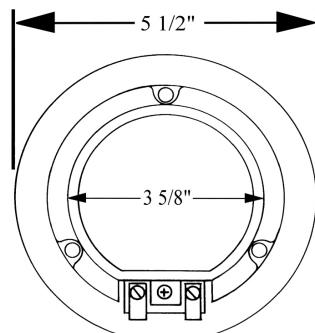
PERFORMANCE SPECIFICATIONS -

Frequency Response:	500 Hz - 20 kHz at rated power.
Power Handling:	30 watts continuous pink noise from 800 Hz - 20 kHz on a 250 Hz flare rate sectoral/radial horn.
Pressure Sensitivity:	10.8 dB SPL measured at 1 meter from the mouth of a 250 Hz flare rate sectoral horn with 1 watt input of band limited pink noise, 1200 Hz - 5000 Hz.
Minimum Impedance:	Model 109-8A = 8 ohms Model 109-16A = 16 ohms
Input Connections:	Screw terminals with 1/4-inch lugs for push-on connectors.
Diaphragm Construction:	Hydropneumatically formed all-metal Pascalite™ dome and tangential compliance driven by a 1 3/4-inch diameter voice coil of edgewound aluminum ribbon.
Magnet:	Ferrite V, 40-ounces
Flux Density:	18,000 gauss
Acoustical Transformer:	Tangerine™ Radial Phasing System.
Diaphragm Preload:	Balanced, internal magnet venting/large rear cover.
Dimensions:	Diameter = 5 1/2-inches Depth = 2 5/8-inches (less mounting studs)
Net Weight:	6 lbs., 6 oz.
Shipping Weight:	7 lbs., 3 oz.
Mounting Data:	Two 1/4-20 studs on a 3-inch diameter bolt circle.
Finish:	Gray powder coat paint with black rubber boot.
Replacement Diaphragms:	Model 109-8A = #26240 Model 109-16A = #26241

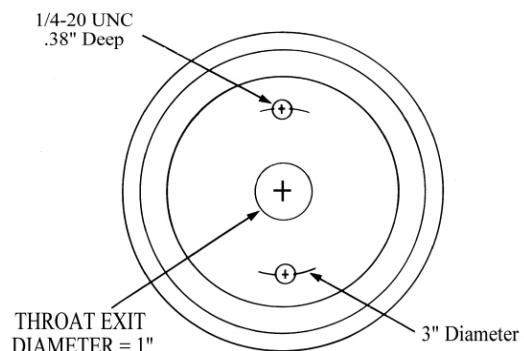
Dimensions:



SIDE VIEW



TOP VIEW



BOTTOM VIEW

Iconic Manufacturing Company
www.iconicspkrs.com

© Iconic Manufacturing Company, LLC.
Specifications subject to change without notice. Overall performance will be maintained or improved.
Iconic, Tangerine, Mantaray, SuperCrossover, and "You can HEAR The Difference"
are trademarks of the Iconic Manufacturing Company.

IMC-109-Rev. 1, 01/26/05