

Iconic™

MODELS 102-8A/102-16A HIGH FREQUENCY COMPRESSION DRIVERS *Manufacturing Company*

The **Iconic™ Models 102-8A and 102-16A 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 Models 102-8A and 102-16A 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 102-8A and 102-16A 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.

You can HEAR the difference!™

At the heart of 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** 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 102-Series High Frequency Compression Driver** combines an all-metal aluminum dome, a tangential compliance, and a voice coil of 1 3/4-inch edgewound aluminum ribbon into a field-replaceable assembly.

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.

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 102-8A and 102-16A 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.

Iconic™
*"Building On The Past,
and Moving Into The Future!"™*

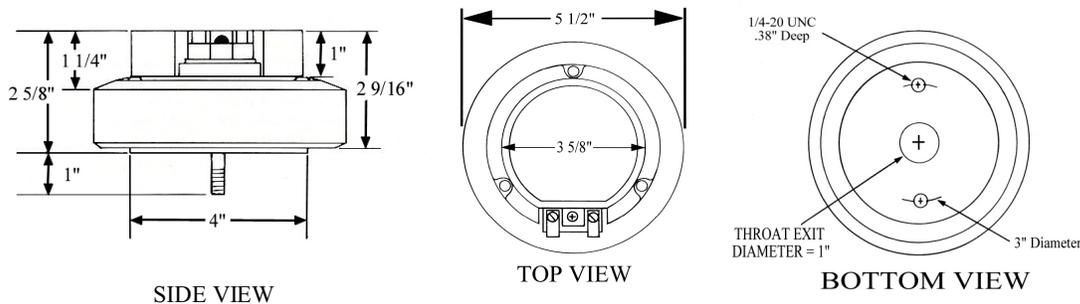


102-8A & 102-16A HIGH FREQUENCY COMPRESSION DRIVERS

Performance Specifications -

Frequency Response:	800 Hz - 20 kHz at rated power.	Flux Density:	18,000 gauss
Power Handling:	10 watts continuous pink noise from 800 Hz - 20 kHz on a 250 Hz flare rate sectoral/radial horn.	Acoustical Transformer:	Tangerine™ Radial Phasing System.
Pressure Sensitivity:	105.7 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.	Diaphragm Preload:	Balanced, internal magnet venting/large rear cover.
Minimum Impedance:	Model 102-8 = 8 Ω Model 102-16 = 16 Ω	Dimensions:	Diameter = 5 ½-inches Depth = 2 5/8-inches (less mounting studs)
Input Connections:	Screw terminals with 1/4-inch lugs for push-on connectors.	Net Weight:	6 lbs., 6 oz.
Diaphragm Construction:	Hydropneumatically formed all-metal aluminum dome and tangential compliance driven by a 1 3/4-inch diameter voice coil of edgewound aluminum ribbon.	Shipping Weight:	7 lbs., 3 oz.
Magnet:	Ferrite V, 40-ounces	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 102-8A = #34647 Model 102-16A = #34852

- Dimensions -



ARCHITECT'S AND ENGINEERS SPECIFICATIONS

Power capacity; 10 watts continuous pink noise, band-limited from 800 to 20,000 Hz when mounted on a 250 Hz flare rate sectoral/radial horn. Frequency Response: uniform from 800 - 20,000 Hz. Pressure Sensitivity: 105.7 dB SPL when measured at one meter on axis from the mouth of above specified horn with one watt of pink noise, band limited from 1200 - 3,150 Hz. The minimum impedance shall be 8 ohms for the Model 102-8, and 16 ohms for the Model 102-16. The voice coil shall be 1 3/4 inches in diameter, manufactured using of edgewound aluminum ribbon, and shall operate in a magnetic gap having a flux density of 18,000 derived from a 40 ounce Ferrite V magnet. The diaphragm dome and tangential compliance shall be of all-metal aluminum construction. An acoustical transformer with 9 radial acoustic slots installed underneath the diaphragm shall provide proper phase relationship between the sound emanating from the center and edges of the dome. The entire diaphragm shall be field replaceable without requiring special tools. The driver exit throat shall be 1 inch in diameter and shall mount to appropriate horns with two 1/4-20 studs mounted on a 3-inch bolt circle. The driver shall be 5 ½ inches in diameter, 2 5/8 inches deep, and shall have a weight 6 pounds, 6 ounces. The compression driver loudspeaker shall be the Iconic Model 102-8A, or the Model 102-16A.

Specifications subject to change without notice. Overall performance will be maintained or improved.

Iconic, Mantaray, Tangerine, "You Can HEAR The Difference", and "Building On The Past, and Moving Into The Future!" are trademarks of the Iconic Manufacturing Company, LLC.