

SPECIFICATIONS

Model RX 22N NEO Extended High Frequency Compression Driver



THROAT PARAMETER:

1" (25 mm)

NOMINAL IMPEDANCE:

8 ohms

MINIMUM IMPEDANCE

5.0ohms

DC RESISTANCE:

4.7 ohms

POWER CAPACITY 1000 Hz to 20,000 Hz:

280 watts peak power

140 watts program

70 watts continuous using pink noise band limited from 1000 Hz to 20 kHz (AES 2-1984)

POWER CAPACITY 500 Hz to 20,000 Hz:

240 watts peak power

120 watts program

60 watts continuous using pink noise band limited from 500 Hz to 20 kHz

SENSITIVITY:

111 dB SPL 1 watt at 1 meter on-axis on a 90° H X 45° V horn

NOMINAL EFFICIENCY:

30%

FREQUENCY RESPONSE:

500 Hz to 20,000 Hz

RECOMMENDED CROSSOVER:

1200 Hz at 12 dB/Octave

LOWEST RECOMMENDED

CROSSOVER:

500 Hz at 12 dB/Octave

DIAPHRAGM:

commercially pure titanium

VOICE COIL DIAMETER:

2.0" (50.8 mm)

VOICE COIL MATERIAL:

Edge-wound copper-clad aluminum ribbon with a high temp composite bobbin

FLUX DENSITY:

20,000 gauss (2.0T)

DIMENSIONS:

3.85" (97.8 mm) diameter x

3.01" (76.4 mm) depth

HORN COUPLING DIAMETER:

7/8" (22.2 mm)

HORN COUPLING THREADS:

Standard 1 3/8" - 18

NET WEIGHT:

2.8 lbs.

SHIPPING WEIGHT:

3.8 lbs

Description

The Rx 22N Neo, referred to as the radial X compression driver, is one of the latest advances in compression driver design for Peavey Electronics. Based on the original design of the Rx 22 compression driver. It has the same high frequency performance, tonal balance, clean crisp highs and very low distortion for a compression driver. The Rx 22N Neo utilizes the same phase plug technology; patented by Peavey. We are very proud to introduce the new Rx 22N driver. This new compression driver incorporates a newly designed neodymium magnet structure engineered by utilizing the latest advances in finite element analysis for magnetic modeling. This new

design reduces the weight of the compression driver by as much as 50%. Yet, greatly increases the magnetic strength by 15%.

The Rx 22N Neo is engineered to deliver the same great performance as the Rx 22 but in a more compact size which makes it easier to design light weight and compact speaker systems.

The diaphragm, even though it appears smaller, is actually the same great one piece titanium diaphragm. The voice coil and diaphragm is the same size and is interchangeable with the older Rx22 and by only adding a 0.005" thick shim for the older 22xt and 22T models, supplied in the replacement kit.

The radial linear phase plug was developed for a smoother, more linear frequency response. The radial linear phase plug is designed to focus the sound waves created by the titanium diaphragm to one central point within the throat of the horn. By focusing the acoustical energy of the diaphragm we have reduced the level of high frequency cancellations and diffraction that are present in most other compression drivers. The Rx22N incorporates a full two-inch voice coil optimized in part through means of finite element analysis. It is constructed with a newly improved high-temperature composite coil former and edge wound copper-clad aluminum ribbon wire for an increase in the overall motor efficiency. The diaphragm is constructed of an integral one-piece titanium diaphragm/suspension assembly. The one-piece titanium diaphragm reduces the amount of moving mass, extending the high frequency response of the driver.

The Rx22N neodymium magnet structure incorporates the latest in ferrofluid technology. Peavey Engineering has teamed up with the top experts in the field of ferrofluid technology and developed a special formulation for the RX22N driver. This in part is another reason we can reduce the size and weight of the magnet structure while maintaining the same power level and performance. Ferrofluid is a thin, synthetic oil-based liquid holding



billions of submicroscopic magnetic particles in suspension. It is placed inside the magnetic voice coil gap and surrounds the voice coil for a controlled heat transfer to the surrounding metal of the magnet structure. By reducing the heat directly on the surface of the voice coil and transferring it to the surrounding metal surface increases the life of the Rx22N driver. One other key characteristic of the ferrofluid is its ability to dampen resonance modes within a speaker system. The special grade of ferrofluid used within the Rx22N has been optimized to enhance the overall sound quality and performance of the driver.

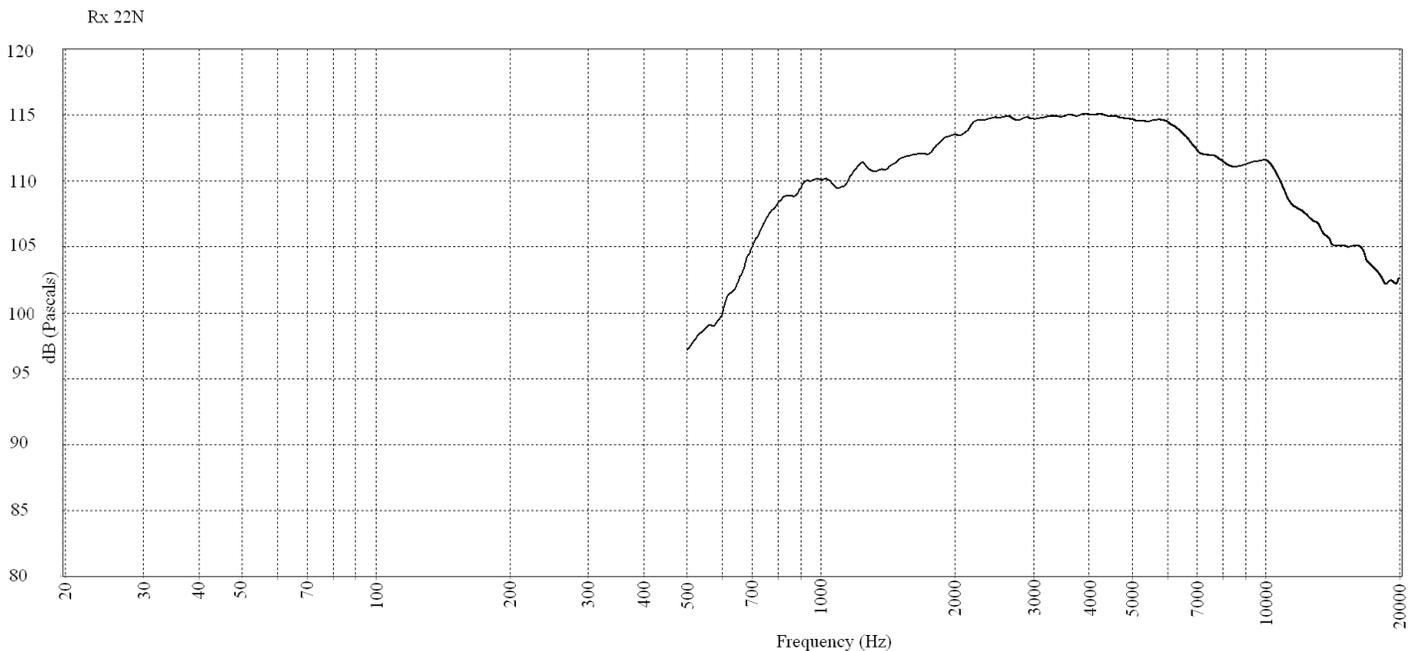
Installation - Diaphragm Replacement
 The Rx22N diaphragm replacement kits are available from Peavey dealers and include complete gap cleaning instructions. (To prevent contamination by foreign materials, a failed diaphragm assembly should not be removed before a new diaphragm assembly is ready to be installed.)

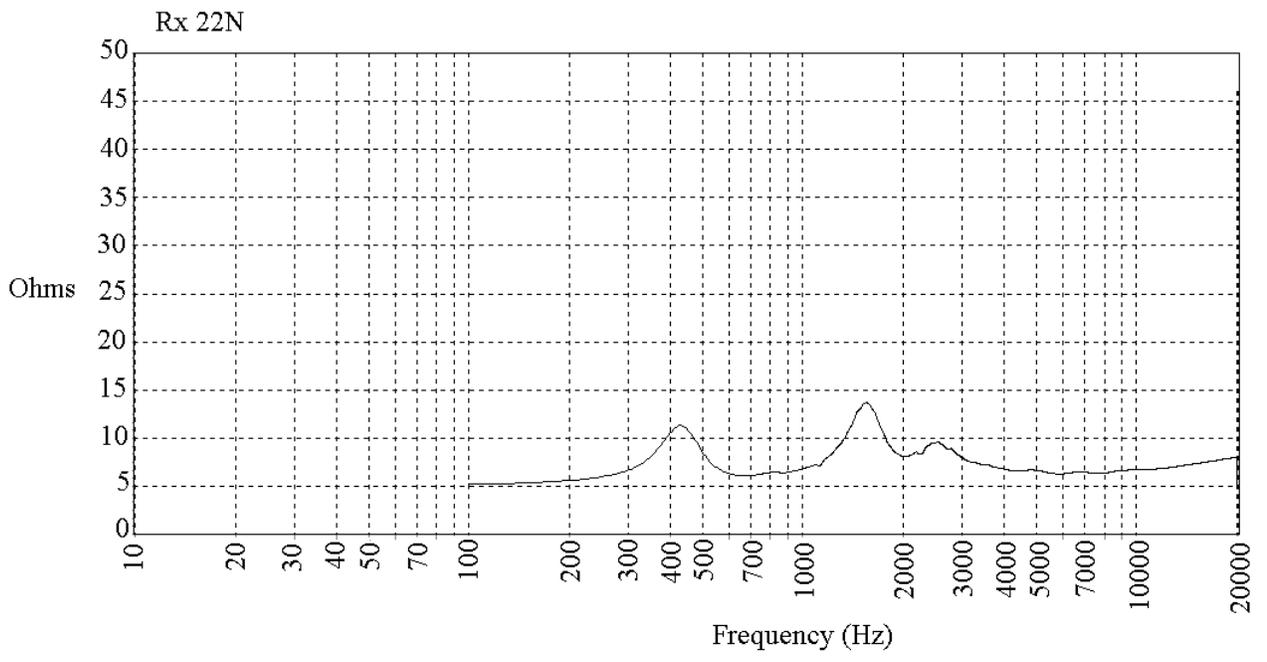
APPLICATIONS

The Rx22N driver has been designed and engineered for use with Peavey horns. However, any horn may be used as long as it consist of a standard 1 3/8" - 18 standard thread coupling.. The Rx22N is an excellent choice for upgrading an older system with minimal expense.

DESIGNER NOTES

The Rx22N driver is designed for use between the frequencies of 500 Hz to 20 kHz. However, we have found through years of experience as crossover designers for commercial applications that optimum driver performance can be achieved if the engineer limits the crossover to 1000 Hz as compared to the 500 Hz lower limit of the driver. The 1000 Hz limit will greatly improve the reliability plus improve the power handling by an extra 15% of the 500 Hz limit.







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Features and specifications subject to change without notice.

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(OJ(L)37/38,13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and
is applied only to equipment manufactured after
13 August 2005

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