



The Fin

Dynamic Microphone



- Best live sound vocal microphone
- Perfect Mid range articulation
- Wider Frequency range
- Lights up with 4 blue LEDs
- Chrome finish
- Assembled and Tested in Illinois

General Description:

The Fin represents completely new dynamic microphone technology designed for a wide range of professional applications such as live sound, commercial broadcast, and sophisticated recording. Its wide frequency range outperforms the tired, 30+ year old industry technology and can withstand huge amounts of SPL. The end result is a microphone that can answer the call to any application. For example, the gorgeous upper mid range and it's outstanding frequency response and superb dynamic range makes The Fin the absolute best live vocal microphone.

Since 1982, Heil Sound has been the leading manufacturer of communications microphones and has a paramount understanding of phasing. When properly applied, this knowledge creates outstanding cardioid patterns with unbelievable rear rejection that removes unwanted sounds that try to enter from the off axis rear. The pattern control of The Fin is outstanding. This exceptional performance is achieved by using the ideal combination of materials for the large low mass diaphragm and a special mixture of neodymium, iron, and boron that gives The Fin the strongest magnet structure available.

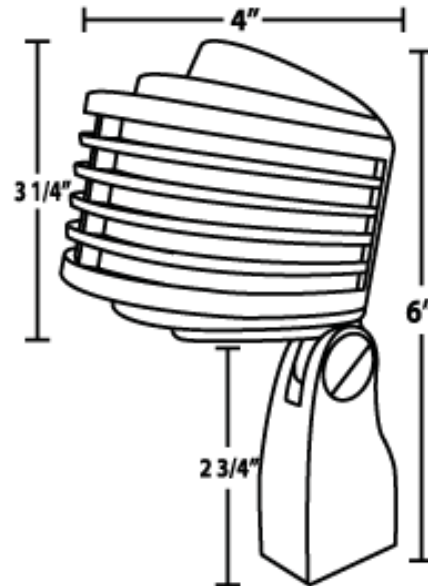
Frequency response	60 Hz - 18 kHz
Polar pattern	cardioid
Impedance	600 ohm balanced
Output level	-52.9 dB
End fire generating element	1 1/8" diameter dynamic
Polarity	pin 2+
Magnet structure	neodymium, iron & boron
Case structure	steel
Dimensions	
Length	6.0"
Depth	4.0"
Stem Height	2.75"
Weight	26.4 oz
Finish	Chrome
Furnished Accessories	Aluminum carrying case and polishing cloth
Optional Accessories	PL 2T and SB-2

In addition to the special magnet structure, The Fin achieves its exceptional performance by using a large 1 1/8" low mass voice coil assembly. Special attention has been paid to the phasing plug assembly with equally placed ports that sense audio from behind, entering them out of phase. Thus, The Fin produces a very linear cardioid pattern and reduces the proximity effect while achieving perfect articulation. This new Heil element is usable in extreme high sound pressure levels and is immune to overload conditions making it perfect for vocal and live sound applications.

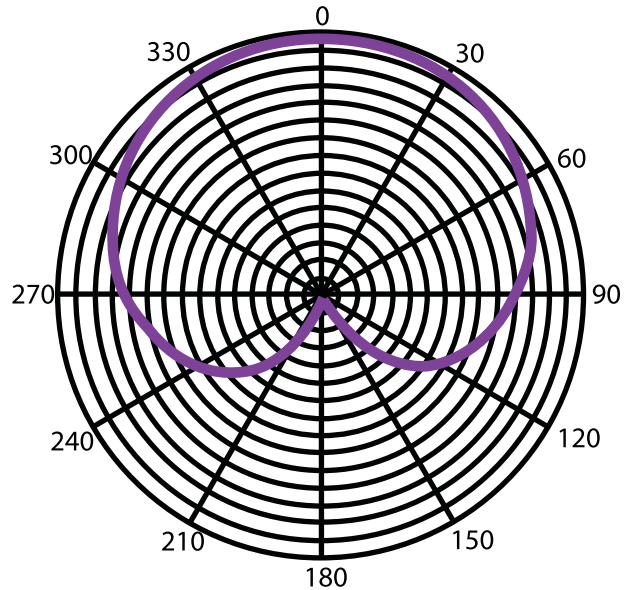
Engineers' Specifications:

A high performance microphone shall bring new large diameter technology to the industry. It shall have a personality in it's wide frequency response of 50 Hz. to 18 kHz. at the -3 dB points. The traditional Heil Sound 'bouquet' of mid range articulation will be featured which will bring gorgeous speech and instrument reproduction without the use of outboard equalization. A high degree of phasing plug assembly shall reduce the rear rejection typically at -18 dB or better. A large 1 1/8" diameter low mass voice coil assembly with a specially treated diaphragm that can create large dynamic levels. A special blend of neodymium, iron and boron will produce the strongest of magnet structure for this high performance microphone. Nominal impedance shall be 600 ohms. The proximity effect which is present in all cardioid microphones will be properly eliminated in the design of this new microphone. The microphone shall exhibit bright natural sounds, perfect for vocals as well as instrument micing. The case will be created in steel, finished in chrome. The interior of the blue foam will be illuminated with 4 blue LEDs run through phantom power. The dynamic element is internally decoupled by 2 large capacitors. An aluminum case and polishing cloth will be supplied. The new dynamic technology from Heil Sound shall be named The Fin.

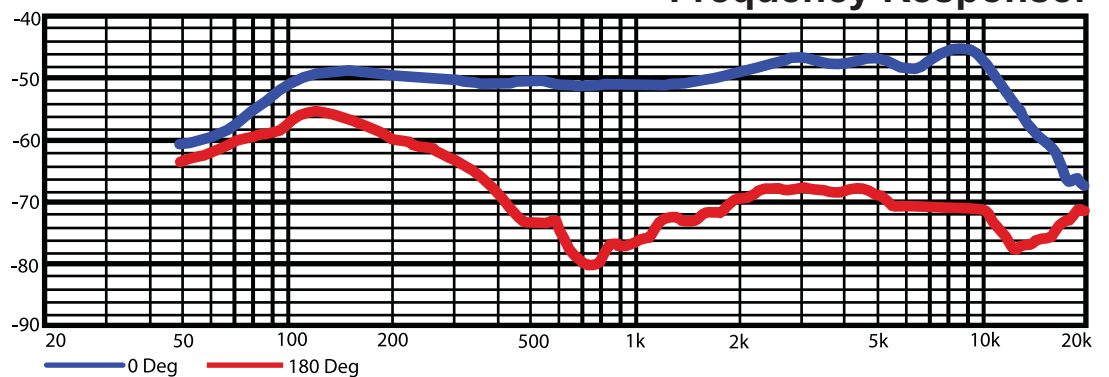
Dimension Drawing:



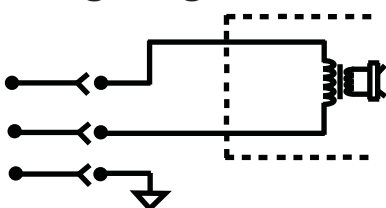
Polar Pattern:



Frequency Response:



Wiring Diagram:



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