



Powell Police Department Silencer White Paper

Silencer Introduction

In 1909, Hiram Percy Maxim patented the world's first firearm suppressor, which he called the Maxim Silencer. His purpose: to reduce noise pollution. Contrary to Maxim's claims, no tool will ever be able to make a gunshot silent. Nonetheless, suppressors are the only tools that are capable of reducing the noise of a gunshot at the source. When a gun is fired, a controlled explosion of gunpowder propels the bullet through the barrel. Once the bullet exits the barrel, these hot gases are rapidly released into the atmosphere. The result is the muzzle blast, one of several primary noise sources associated with a gunshot. Suppressors work by trapping and disrupting these gases, allowing them to slowly dissipate.

It is the exact same science behind automobile mufflers, which should come as no surprise considering the muffler was another of Maxim's early inventions.

How can suppressors pay for themselves?

How can a suppressor pay for itself? On February 4, 2015, a study was published, wherein researchers assessed the noise-induced hearing loss (NIHL) of 543 police personnel who had undergone periodic medical examination over a 12-month period. The mean duration of service was 14.75 ± 9.39 years and the prevalence of NIHL in this study population was a staggering 34.2 percent. Lawsuits, back pay, and forced retirement of LE due to hearing loss are costing departments money and manpower. The obvious solution is for LE to wear sufficient hearing protection every time they pull the trigger on a firearm. But you can't put a gunfight on hold to put on your ears, nor can you do your job while wearing hearing protection during your entire shift. The need for law enforcement to address occupational noise-induced hearing loss is real; it's not something that can just fall by the wayside. And it's only a matter of time before multi-million-dollar payouts are made to dozens or hundreds of civilians who are within range of a shootout.

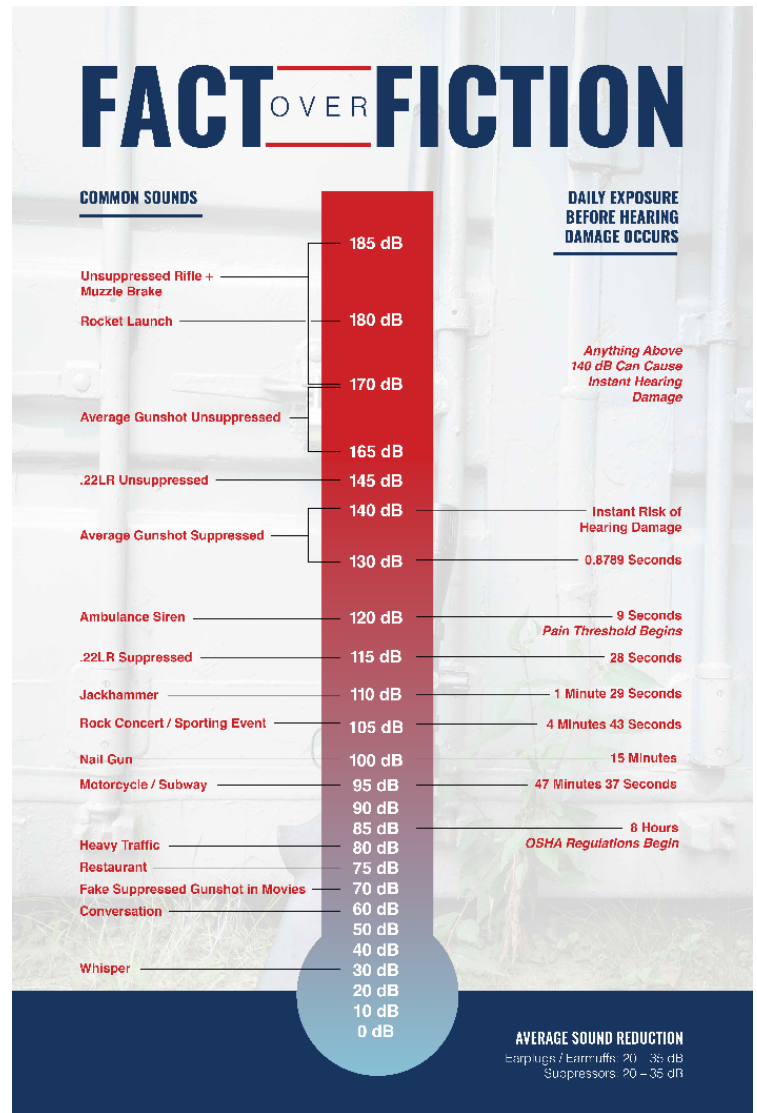
So, tallying up the cost of early retirement and bystander lawsuits could convince your jurisdiction's risk analyst that pursuing suppressors for agency firearms might actually be a good deal. You owe it to your officers and jurisdiction risk official to investigate the use of suppressors to save hearing and money.

Accuracy

One of the most common problems for shooters is decreased accuracy caused by flinching in anticipation of the firearms discharge and recoil. By containing the explosion of the gunpowder at the muzzle, suppressors reduce recoil, and help decrease muzzle flinch and flash. These benefits lead to improved accuracy and better shot placement.

The Solution

The model recommended for Powell Police Department is the Yankee Hill Machine Turbo T3. It will add approximately 7" of length to each rifle, 12 oz of weight and have a decibel rating of 134 dB on 10.5" barrels. More information on the model can be found at <https://yhm.net/rifle-suppressors/the-turbo-t3-sound-suppressor/>. Installation, training, service will be provided by Pathfinder Defense LLC.



Pathfinder Defense LLC. 910 Avenue E, Powell, WY 82435

PHONE: (307) 921-0038 EMAIL: pathfinder.defense.llc@gmail.com WEBSITE: <https://www.pathfinderdefensellc.com/>

FFL # 5.83.02219.[FFL 07 / SOT 02] FFL # 5.83.02853.[FFL 08 / SOT 01] CAGE Code: 8DE55