How to Make an Acoustical Leak Detector

🛑 STOP What to Know Before Getting Started

1. You will need the following components:

- 1 soft plastic stethoscope

- 1 18" length of ¼" OD soft copper refrigeration coil

2. Here are some suggested components, but it is not necessary to buy these specific products:

- Soft Plastic Stethoscope: https://www.grainger.com/product/MABIS-Nurse-Stethoscope-18L010

- ¼" OD soft copper coil: https://www.homedepot.com/p/Everbilt-1-4-in-O-D-x-10-ft-Copper-Soft-Type-Refrigeration-Coil-1-4-R-10RE/203654086

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Overview

- Using an acoustical leak detector is a simple, inexpensive, and effective way to ensure your acoustical assembly is adjusted to peak performance.

- Often times, non-visible gaps in the seals, door bottoms, or vision kits can lead to inaccurate test results.

- A critical step in checking how well the seals are adjusted is to perform an acoustical leak detection around the gaps of the assembly.

STEP 1

- To make the device, simply cut off the diaphragm and bell of the stethoscope and insert the copper refrigeration coil into the stethoscopes tubing.

Finished Device

STEP 2

- With the speaker source running white or pink noise, use the acoustical leak detector to easily locate areas of the assembly that require adjustment.

- When using the device, any air leaking through the assembly will sound very loud relative to the ambient sound in the room.

End Instructions