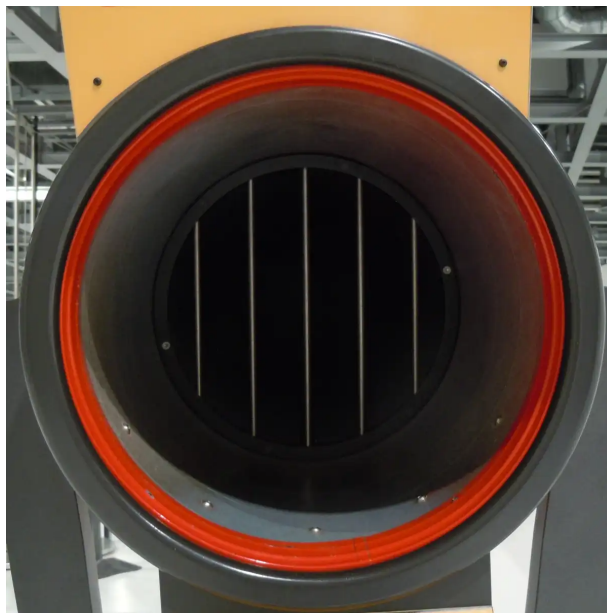


Echo tube

How can you hear an echo?



Clap your hands at the mouth of this tube.

Listen for the echo.

Use the buttons to close or open the flaps in the middle of the tube and at the far end.

You hear an echo, even when both flaps are open and you can see right through the tube. The echo comes back more quickly if the nearer flap is closed.

Sound travels very fast – at about 1200 kilometers per hour or 340 meters per second. Sound can be reflected, not just by solid objects, but also by the open ends of tubes like this one.

If the echo tube had a flared end like a trombone, the echo would be much weaker.