

**Tipe Koleksi: Indeks Artikel Jurnal**

## **Rancang bangun piranti termoakustik sebagai pemompa kalor**

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### **Abstrak**

A sample thermoacoustic device as a heat pump has been successfully constructed and operated. The main parts of the device consist of a cylindrical resonator made of PVC pipe, a loudspeaker as a sound source, and a stack as a heat transfer element. The device was operated at a resonance frequency of the resonator, i.e. about 151 Hz, using atmospheric air as a working medium. A heat transfer from cold reservoir to hot reservoir has been observed where the cold reservoir temperature decreased about 5 C and the reservoir temperature increased about 8 C after 6 minutes of the device operation.