

Lab 2: Compressor performance

1. Safety

All staff and students must observe all safety requirements in the laboratory. You must come to the laboratory dressed for work, **NO LOOSE OR BAGGY CLOTHING, NO SANDALS OR BARE FEET**. Before beginning any experiment, inspect all equipment you will use for potential hazards. While using laboratory equipment, keep alert for any developing hazard, e.g. unusual noise, vibration, unusual data trends etc.

2. Introduction

Compressed air is a widely used source of power and work in industry. It is safe to use in wet surroundings and areas with fire risks, where electrical power would be a hazard. Typical uses are:

- Power tools.
- Assembly line equipment in factories.
- Starting large engines.
- Working valves in chemical plants.

An air compressor delivers air at pressure usually to a receiver that stores compressed air. This receiver is then the source of compressed air for use by other processes. Engineers and technicians need to know how a compressor works and how it performs. They can then pick or design the correct compressor or combination of compressors for any job.

The polytropic index for a compressor is a value found by fixing the speed while varying the delivery pressure. This produces varying temperature and pressure ratios across the compressor and a resulting chart of the logarithmic values. The gradient of the chart helps to calculate the polytropic index. This value is characteristic of the machine and is useful in calculating theoretical performance of the machine.

Since the reciprocating compressor have relatively slow rotational speeds, the thermodynamic processes of compression and expansion do not follow adiabatic ($n = 1.4$) or isothermal processes ($n = 1$). The index of the polytropic expansion and compression processes (n) is between these theoretical limits.

Preparation prior to the laboratory period is essential. **The preliminary work must be submitted to Moodle before your allocated lab session (please check carefully your deadline on Moodle).**

2.1. The compressor

Figure 1 below shows the experimental arrangement. A mass flow rate of air $\dot{m}$ is drawn into a reciprocating piston compressor at an atmospheric pressure P_0 and a temperature T_1 .

The air is compressed to a pressure P_1 and a temperature T_1 . The pressure P_1 is caused by a resistance to the flow. This resistance is created by a flow control valve, which restricts the flow passing from the reservoir (whose pressure is P_1) to the atmosphere.

During the experiment, the demonstrator will vary P_1 incrementally from approximately 2 bar to 10 bar in 2 bar increments. You need to write down the measured values of P_1 , T_1 and T_2 . The speed of the compressor is kept at 750 rpm during the experiment.

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