

3.14 Cooling

As you study this section, answer the following questions:

- How does adequate cooling improve performance and extend the life of components?
- How does organizing and attaching cables and wires in and around a computer system help with internal airflow?
- Why should you keep the system case cover on during normal operations?
- Why is it important that case fans are installed properly?
- When might you want to add liquid cooling to a computer?
- What is the difference between an active heat sink and a passive heat sink?
- What is the function of thermal paste? When should it be used?

Key terms for this section include the following:

Term	Definition
Case fan	Fans that create a pressurized system that allows air to flow through the computer case in a specific way.
Heat sink	A hardware component made of heat conductive material.
Heat sensors	Computers have several heat sensors, including the CPU sensor, system case sensor, and room temperature sensor.
Liquid cooling	An additional cooling agent used when air cooling is not enough.

This section helps you prepare for the following certification exam objectives:

Exam	Objective
CompTIA 220-1001	<p>3.5 Given a scenario, install and configure motherboards, CPUs, and add-on cards.</p> <ul style="list-style-type: none">■ Cooling mechanism<ul style="list-style-type: none">■ Fans■ Heat sink■ Liquid■ Thermal paste

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