

Appliances: Ovens

Fans play a crucial role in cooling the electronics within ovens, ensuring safe and efficient operation. Ovens generate significant heat, which can affect sensitive electronic components such as control boards, sensors, and wiring. While these components are housed in external compartments away from the main heating element, cooling fans are strategically placed to direct airflow over them, dissipating excess heat and maintaining optimal operating temperatures.

In residential ovens cooling fans often activate automatically when the oven reaches a certain temperature, expelling hot air through vents to prevent overheating. Low-noise fan options are particularly important for these applications to maintain a quiet kitchen environment.

Commercial ovens, designed for heavy-duty use, incorporate more robust cooling systems with higher-capacity fans. These fans may operate continuously or at variable speeds, depending on the oven's design and usage intensity. Some commercial units also feature multiple fans to enhance air circulation and ensure even cooling across all electronic components.

Fans with higher insulation classes are common in these appliances as well. Most standard cooling fans feature Class A insulation (105°C), while Class B (103°C) or Class F (155°C) options are better suited for high-heat applications.

For the main heating element, motor-driven fans with all-metal blades are an effective solution. The motor can be positioned outside the high-temperature zone while the metal blades withstand extreme heat, ensuring durability and efficient air circulation.

Commonly Used Fans

- OA109AP
- OA172AP
- All Metal AC Fans
- Small Centrifugal Fans
- OAM Series

