



What is UL 710 and UL 710B Standard?

UL 710 Standard

The UL 710 standard is a safety standard developed by Underwriters Laboratories (UL) for commercial kitchen hoods. It covers the design, construction, and performance requirements for hoods that provide ventilation and fire protection for cooking equipment. The purpose of this standard is to ensure that these hoods effectively remove grease-laden vapours, smoke, and odours from the cooking area while also providing necessary fire protection.

Key aspects of the UL 710 standard include:

1. **Construction Requirements:** Specifies the materials and construction techniques to ensure durability, fire resistance, and effective ventilation performance.
2. **Fire Safety:** Includes requirements for fire suppression systems integrated into the hoods, ensuring they can effectively extinguish fires that may occur during cooking.
3. **Ventilation Performance:** Ensures that the hoods can efficiently capture and remove cooking effluents to maintain air quality and reduce fire hazards.
4. **Electrical Safety:** Covers the safety of electrical components and wiring within the hoods to prevent electrical hazards.
5. **Testing Procedures:** Outlines the tests that hoods must undergo to verify their performance, including airflow tests, fire tests, and grease extraction efficiency tests.

Compliance with the UL 710 standard is essential for manufacturers and installers of commercial kitchen hoods to ensure they meet necessary safety and performance standards required by building codes and health departments.

UL 710B Standard

The UL 710B standard is a safety standard established by Underwriters Laboratories (UL) specifically for recirculating systems, such as commercial kitchen exhaust hoods without external venting. These systems typically use filtration to remove contaminants from the air before recirculating it back into the kitchen.

Key points covered by the UL 710B standard include:

1. **Construction Requirements:** Specifies the materials and construction methods to ensure durability and safety under typical use conditions.
2. **Fire Safety:** Addresses fire containment and suppression capabilities, ensuring that the system can prevent the spread of fire and effectively handle fire incidents.
3. **Electrical Safety:** Ensures that the electrical components of the system are safely designed and installed to prevent electrical hazards.
4. **Air Filtration:** Sets standards for the efficiency and effectiveness of the filtration systems used to remove grease, smoke, and other contaminants from the air.



5. **Performance Testing:** Outlines the performance tests that systems must pass to demonstrate their ability to function safely and effectively under various operating conditions.
6. **Maintenance and Operation:** Provides guidelines for the proper maintenance and operation of the systems to ensure continued safety and performance.

Compliance with UL 710B is essential for manufacturers and installers of recirculating kitchen exhaust systems to ensure they meet necessary safety and performance standards.

What countries recognize the UL 710 and UL 710B standard?

The UL 710 standard, specifically related to commercial kitchen hoods, is primarily recognized and required in the United States and Canada. These countries rely heavily on UL standards to ensure safety and performance in various types of equipment, including those used in commercial kitchens.

1. **United States:** UL standards, including UL 710 and UL 710B, are widely adopted and required by local building codes and health departments across the country. Compliance with these standards is often mandatory for commercial kitchens to receive the necessary permits and operate legally.
2. **Canada:** In Canada, UL standards are also widely accepted. The Canadian Standards Association (CSA) works closely with UL to harmonize standards, ensuring that equipment certified under UL standards is generally recognized and accepted in Canada.

Other countries might recognize UL certification as a mark of quality and safety, but they may not mandate its use. Instead, they might have their own national standards or adopt international standards, such as those from the International Electrotechnical Commission (IEC) or European standards (EN).

In summary, while the primary requirement for UL 710 standard compliance is in the United States and Canada, the certification may also be recognized and valued in other countries, even if not explicitly required.