



RATIONAL USA
1701 Golf Road, Suite C-120 Commercial
Rolling Meadows, IL 60008

3/5/2020

Regarding fire protection for RATIONAL recirculating condensation hood models UltraVent and UltraVent Plus

Dear Sir or Madam,

The RATIONAL Combi-Steamer by itself has UL 710B approval. The RATIONAL Combi-Steamers with this approval are listed under UL KNLZ for Commercial Cooking Appliances with Integral Systems for Limiting the Emission of Grease-laden Air. It states "Appliances in this category are not provided with an integral fire extinguishing system". See certificate of compliance.

The RATIONAL Condensation UltraVents are UL 197 and 507. These are accessories for the capture of steam vapors. The temperature return from the UltraVent averages 110°F. Upon power to the Combi-Steamer being interrupted the UltraVent stops running.

It also states in UL 710B the exemption (37.1) from having a fire suppression system.

37.1 "Hoods for the following types of appliances are **not required** to be provided with a fire extinguishing system: a) A system intended for use with an appliance other than a deep fat fryer, which has an **enclosed cooking compartment** and is marked in accordance with 78.10

i. Section 78.10 states "Where required by the Exception to 37.1, an appliance shall be permanently marked with the following marking on or adjacent to the nameplate marking of the appliance: "WARNING: Possible Risk of Fire."

This device has been tested to EPA Method 202 and was required to have the total amount of grease-laden effluents collected at a level less than 5 mg/m³. Being KNLZ listed, this device meets the **exception** that it does not need to be under a Type I or II hood.

UMC (Uniform Mechanical Code) 508.1 and IMC (International Mechanical Code) 507.2.1

Exception: A Type I hood shall not be required for an electric cooking appliance where an approved testing agency provides documentation that the appliance effluent contains 5 mg/m³ or less of grease when tested at an exhaust flow rate of 500 cfm (0.236 m³/s) in accordance with Section 17 of UL 710B.

In NFPA 96 Chapter 10 Fire-Extinguishing Equipment.

10.1.2* Cooking equipment that produces grease-laden vapors and that might be a source of ignition of grease in the hood, grease removal device, or duct shall be protected by fire-extinguishing equipment.

Since the device is KNLZ listed and it is electric it has no open flames to be the source of ignition of grease in the hood, hence fire-extinguishing equipment should not be required.

Sincerely yours,

Jim Lund
Director Design & Consultant Resources