

System 1738®

FLUE GAS VENTING

Technical Specification Categories II and IV Gas Venting Systems

General –

System 1738® PVC flue gas venting system as manufactured by IPEX USA, LLC shall be a non-metallic system that is third party certified to UL Standard 1738 "Venting Systems for Gas Burning Appliances, Categories II, III, and IV" in accordance with the NFPA-54 Natural Fuel Gas Code. System 1738® shall offer a full range of pipes, fittings, and termination kits sizes commonly found in venting applications for gas appliances.

Materials –

System 1738® PVC pipes, fittings and termination kit components shall be manufactured from compounds which comply with the material requirements of ASTM D 1784, Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds, having a cell classification of 12454.

Certification –

System 1738® PVC pipes, fittings, termination kit accessories and cement is certified by Intertek to standard UL 1738 and shall carry the ETL mark for certification validation. System 1738® shall be black in color and certified for Categories II and IV gas fired appliances generating a maximum flue gas temperature of 149°F (65°C).

Dimensioning –

System 1738® PVC pipes, fittings and termination kit accessories are offered in sizes 2" through 4" (50mm – 100mm) and shall meet the OD dimension requirements of ASTM D1785.

Markings –

In accordance with UL 1738, each length of pipe shall be tagged with a label warning against the risk of carbon monoxide poisoning and fire if system is not installed as per IPEX Installation Instructions. System 1738® PVC Flue Gas Venting pipe, fittings and termination kits include identification markers as prescribed in the above applicable standard to indicate size, material designation, product application, maximum operating temperature, certification to UL 1738 standard and manufacturers name or trademark. The pipe will consist of two bold orange print lines located 180° apart and orange and black label on the fittings.

Cements –

System 1738® PVC cement and primer shall be certified to UL 1738 and meet the performance requirements of ASTM D2564. PVC cement will be auburn in color and shall only be used with System 1738® systems.

Installation -

System 1738® PVC Pipe, fittings, termination kits accessories and cement are tested and certified to standard UL 1738 by INTERTEK/ETL as a system. Only pipe and fittings supplied by IPEX USA LLC should be used in an installation. The UL 1738 standard does not permit the mixing of components from different manufacturers.

Sample Specification –

System 1738® pipe, fittings, terminations and cement shall be third party listed to UL 1738. System 1738® engineered materials shall comply with ASTM D1784 and have a cell class of 12454 or 23447. System 1738® is certified as a system. "Different Manufacturers Have Different Joint Systems and Adhesives. Do Not Mix Pipe, Fittings, or Joining Methods from Different Manufacturers."

