

Addendum No. 1 dated 09/20/10 to Harvel® BlazeMaster® CPVC Fire Sprinkler Products Installation Instructions (HFS-3 1/1/09) dated 01/09

In accordance with the UL® Listing, Harvel® BlazeMaster® CPVC Fire Sprinkler Products may be used in Low Pressure Dry Pipe and Pre-action System applications in **Light Hazard and Residential occupancies** in accordance with NFPA 13, 13D and 13R when subject to the following additional limitations:

A CPVC Low Pressure Dry Pipe or Pre-action System is a piping system intended for use where piping could be subjected to freezing temperatures and water filled pipe cannot be utilized. The minimum rated temperature is -20°F (-29°C). Low Pressure Dry Pipe systems contain compressed air or nitrogen (gas) having an internal gage pressure of not more than 15 psig (105 kPa). These specially designed systems require separate control valve mechanisms for this application (supplied by others) that activate to release water into the dry piping section and to the sprinkler heads. The water-filled portion of the system control device must be in an area protected from freezing. It is the installer's responsibility to be sure the system is installed in accordance with the limitations of this manual and specifications of a Dry Pipe or Pre-action Fire Sprinkler System design Engineer for proper control devices, pipe sizing, and other important design and maintenance criteria applicable to each project.

Harvel® BlazeMaster® CPVC Fire Sprinkler Products are UL® Listed for use in Dry Pipe or Pre-action type systems when installed with UL® Listed Spears® FlameGuard®, or BlazeMaster® brands of CPVC Fire Sprinkler Pipe and fittings that are also Listed for this application.

CPVC installation in a Dry Pipe or Preaction sprinkler system must be concealed (protected) by either:

- (1) A 3/8 in. thick or thicker gypsum wallboard,
- (2) A suspended membrane ceiling with lay-in panels or tiles having a weight of not less than 0.35 lb/ft² when installed with metallic support grids, or
- (3) 1/2 in. plywood soffits.

CPVC pipe and fittings used in a Dry Pipe or Pre-action System are not for use in combustible concealed spaces where sprinklers are required by NFPA 13, 3D and 13R.

Pipe and fittings are for indoor use only, down to a minimum temperature of -20°F (-29°C).

CPVC pipe in Low Pressure Dry or Pre-action Systems must be installed with proper pitch to allow system drainage for removal of water. NFPA 13 requires a minimum pitch of 1/2" per 10 feet (4 mm/m) for main lines and branch lines in areas subject to freezing.

⚠ CAUTION - **Low Pressure Dry Systems have a maximum installed air pressure of 15 psi (1 BAR). Air (or Nitrogen) supply for charging the system must be filtered, clean, oil-free, and must be pressure regulated to assure that the 15 psi (1 BAR) pressurization is not exceeded.**

⚠ WARNING – oil in the air (or Nitrogen) supply can cause environmental stress cracking in CPVC materials.

⚠ WARNING – over pressurization can result in system damage or serious injury.