



APPROVED
Data Sheet UFS-110A
Rev 4.00 Page 1 of 2



PREACTION-PAC GENERATION 2

FEATURES

- **FM Approved**
- **NYC FD Certificate of Approval #6148**
- **CSFM Listing No. 7080-2143.0100**
- Includes preaction valve with optional control panel and supervisory pressure source
- Fully factory assembled, programmed, and tested
- No field assembly required
- Just connect water supply, drain, sprinkler piping, power, and electrical devices

BENEFITS

- Saves assembly, programming, and installation time
- Installation drawings available
- Quicker commissioning – just place, connect, and it's ready
- Easy inspection and maintenance

DESCRIPTION

The **FM Approved UNITED Fire Systems PREACTION-PAC™** is a fully assembled preaction fire suppression system, including preaction valve, trim, and optional control panel, providing one complete zone of preaction water sprinkler fire protection. All components are contained in two (2) red powder-coated steel enclosures assembled one above the other. The system pressure gauges are mounted on the front of the valve enclosure. The system detection and control panel is mounted behind a door on the electrical enclosure with a clear polycarbonate window allowing examination of the system visual indicators. Lockable latches on both doors permit restricted access to connections and components. A manual release valve is located behind a non-locking door on the valve enclosure. Gasketing provides sealing of the enclosure doors. Knockouts permit easy attachment of external electrical raceways.

Precision Valve

The preaction valve assembled in the **PREACTION-PAC** is a low-differential, latched clapper valve using a unique direct acting diaphragm to separate the system water supply from the system piping. The positive latching system uses the supply water pressure to hold the clapper shut. When the water pressure in the diaphragm chamber is released, the latch retracts from the clapper and the valve opens. The low differential and unique latch and actuator design allows the valve to be self-resetting.

Valve Interlock Designated As "P1"

PREACTION-PAC™ assemblies with "P1" in the part number designation (refer to Ordering Information) may be field-configured to operate in either of two (2) ways:

- **Single Interlock:** The preaction valve opens upon actuation of a fire detector connected to the system control panel, allowing water into the sprinkler pipe.
- **Double Interlock Electric / Electric:** The preaction valve opens upon actuation of a fire detector connected to the system control panel AND when the system control panel receives a low air signal from the supervisory switch attached to the valve trim (due to an open sprinkler head). [NOTE – Operation of the low air switch without actuation of a fire detector results in a low air supervisory signal and does not open the preaction valve.]

For additional information, refer to **UNITED Fire Systems** manual supplement 10-500008-002.

- Lower left or right side water inlet and drain connections
- Attractive, rugged, powder-coated metal enclosures
- Separate, lockable valve and electrical enclosures
- Easy-to-see pressure gauges on enclosure front
- Manual actuation valve behind separate non-locking door
- Space for required spare sprinkler heads and wrench
- Easy-to-follow instructions on enclosure front
- 1-1/2 through 6 inch valve options
- Addressable or conventional control panel options

- Finished appearance allows placement in or near protected space
- Rapid access to manual release handle without a key
- Reliable, dependable protection that functions as designed
- Expert in-house field and technical support



Valve Interlock Designated As "P2"

PREACTION-PAC™ assemblies with "P2" in the part number designation (refer to Ordering Information) are factory-configured to operate as Double Interlock Pneumatic / Electric. Open sprinkler head actuation is sensed by a pneumatic actuator connected to the valve trim. This is a different device from the low air supervisory switch.

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