

FEATURES

- Fully factory assembled, programmed, and tested
- No field assembly required
- Includes detection/control panel and pre-action valve
- Just connect water supply, drain, and field electrical devices
- Ready for connection to UNITED Fire Systems NITROGEN-PAC™
- Attractive and rugged metal enclosure
- Easy-to-see gages on front of enclosure
- Installation drawings available
- Easy access to manual release valve
- Lower and upper water inlet connections
- Easy-to-follow instructions on enclosure front
- Space for required spare sprinkler heads and wrench
- Separate mechanical and electrical enclosures
- UL / FM / MEA major components
- Complies with NYCFD Information Bulletin #1-92
- 1-1/2" thru 6" valve options
- Addressable or conventional control panel options

BENEFITS

- Saves assembly and programming time
- Quicker commissioning – just place, connect, and it's ready
- Finished appearance allows placement in or near hazard
- Easy inspection and maintenance
- Rapid access to manual release handle
- Up to 636 addressable points on one system
- Reliable, dependable protection that functions as designed
- Expert field and in-house technical support

DESCRIPTION

The United Fire Systems PREACTION-PAC™ is a fully assembled pre-action fire suppression system, including pre-action valve, trim, and control panel providing one complete zone of pre-action water sprinkler fire protection. All components are contained in two steel enclosures assembled one above the other. The system pressure gages and the required manual release handle are mounted on the front of the lower enclosure. The system detection and control panel is mounted behind a door in the upper enclosure with a clear polycarbonate window allowing visual access to the system indicators. Lockable latches on both doors permit authorized access to all system components. Both enclosures are finished in powder-coat red paint. Gasketing provides sealing of the enclosure doors. Knockouts permit easy attachment of external electrical conduits.

Piping

Water inlet pipe connections are located on the lower left side and the upper right corner of the lower enclosure. The unused inlet is left plugged. Grooved pipe is used for the inlet connection. All pipe connections are done in the lower enclosure.

Pre-Action Valve

The pre-action valve installed in the PREACTION-PAC™ is a low-differential, latched clapper valve that uses 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 actuates. The low differential and unique latch and actuator design of the valve allows the valve to be self-resetting.

Wiring

Control panel power, detection circuits, notification appliance circuits, and circuits requiring contact closure are connected to terminal strips in the upper enclosure. No access to the lower enclosure is necessary to complete the wiring installation.





Detection Control Panel

Optional detection control panels allow for the selection of a simple, full-featured conventional detection system, or a fully programmable and networkable addressable system. The panel is fully programmed at the factory. All necessary internal wiring connections are factory-installed and tested. A version without a factory-installed control panel is also available.

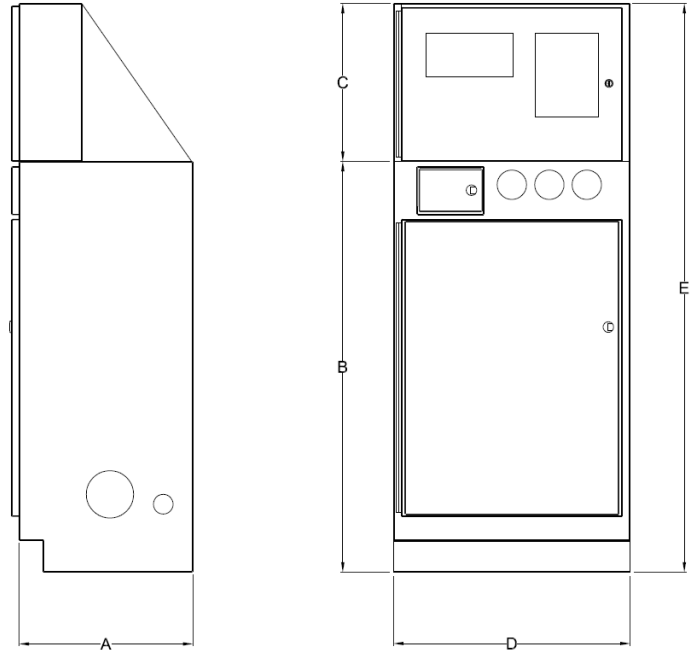
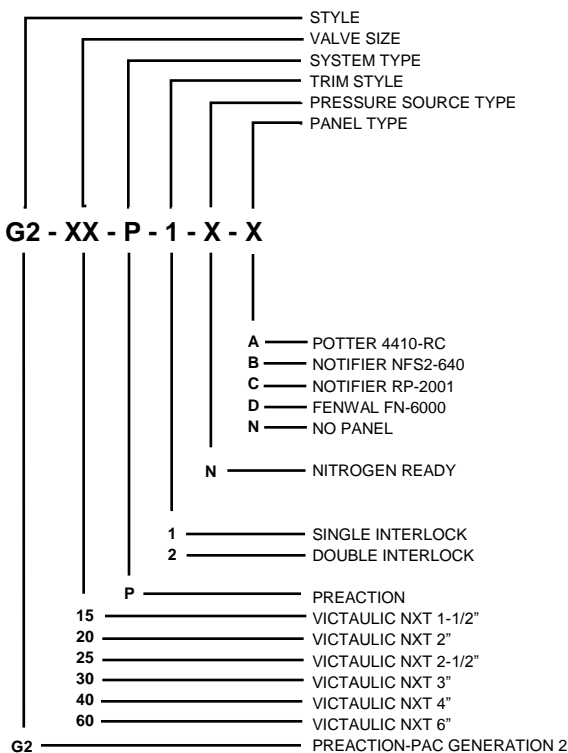
Ready For Nitrogen

PREACTION-PAC™ is available in a configuration ready for external nitrogen as a pipe pressurization source (instead of a built-in air compressor). This configuration includes an inlet connector, pressure maintenance device with regulator, pressure relief valve, and proper connection to the valve trim. This configuration is ready for connection to a UNITED Fire Systems NITROGEN-PAC™ Sprinkler Corrosion Inhibiting System.

Options

- Choice of control panel (2 addressable and 2 conventional panels available)
- High-sensitivity laser-based smoke detection
- Choice of pre-action valve size (1-1/2" through 6" available)

Ordering Information



Dimension	Unit Type	Units with 1-1/2" thru 3" Pre-Action Valves	Units with 4" and 6" Pre-Action Valves
A	All	22.00	24.00
B	All	52.00	52.00
C	With Control Panel	20.00	20.00
C	No Control Panel	10.00	10.00
D	All	30.00	30.00
E	With Control Panel	72.00	72.00
E	No Control Panel	62.00	62.00

NOTE: All units are in inches.

Specifications

- Valve Pressure Rating: 300 PSIG (2065 kPa gage)
- Valve Test Pressure: Factory hydrostatically tested to 600 PSIG (4135 kPa gage)
- Minimum Air Pressure (from nitrogen maintenance device regulator): 13 PSIG (90 kPa gage)
- Pressure Relief Valve Setting: 125 PSIG (860 kPa gage)
- Upper Enclosure: 14 gage steel with continuous weld seams
- Lower Enclosure: 12 gage steel with continuous weld seams
- Access Doors: Full hinge with oil-resistant gaskets
- External Power for Control Panel: 120VAC 60 Hz, single phase

UNITED FIRE SYSTEMS

Division of United Fire Protection Corporation

1 MARK ROAD

KENILWORTH, NJ 07033 USA

PHONE: 908-688-0300 FAX: 908-688-0218

www.unitedfiresystems.net

This literature is provided for informational purposes only. United Fire Protection Corporation assumes no responsibility for the product's suitability for a particular application. The product must be properly applied to perform as intended.